### Table A3. Approximate Heat Content of Petroleum Consumption and Fuel Ethanol

(Your table data here)

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*Note: The heat content values in this table are for gross heat contents. See "Heat Content" in Glossary.

* Beginning in 2009, includes biodiesel and renewable diesel fuel blended into distillate fuel oil.

* Beginning in 1993, includes fuel ethanol blended into motor gasoline.

* Beginning in 2009, includes fuel ethanol blended into motor gasoline.

* Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

* Petroleum products supplied, including natural gas liquid products and crude oil burned directly as fuel. Quantity-weighted averages of the petroleum products included in each category are calculated by using heat content values for individual products shown in Tables A1 and A3.

* Includes denaturant (petroleum added to make it undrinkable). Fuel ethanol factors are weighted average heat contents for undenatured ethanol (3.539 million Btu per barrel) and products used as denaturant (natural gasoline, finished motor gasoline, and motor gasoline blending components—see Tables A1 and A3 for factors).

* Corn input to the production of undenatured ethanol (million Btu per barrel) and products used as denaturant (natural gasoline, finished motor gasoline, and motor gasoline blending components—see Tables A1 and A3 for factors). The factor for 1980–2008 is used as the estimated factor for 1980–2008. Observed ethanol yields (gallons undenatured ethanol per bushel of corn) are 2.5 in 1980, 2.68 in 1998, 2.74 in 2002, 2.78 in 2008, and 2.82 in 2012; yields in other years are estimated. Corn is assumed to have a gross heat content of 0.352 million Btu per bushel. Undenatured ethanol is assumed to have a gross heat content of 3.539 million Btu per barrel.

* Revised. R=Revised. E=Estimate. NA=Not available.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#appendices (Excel and CSV files) for all available annual data beginning in 1949.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.