### Table 10.3 Fuel Ethanol Overview

<table>
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<tr>
<th>Feedstock&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Losses and Co-products&lt;sup&gt;b&lt;/sup&gt;</th>
<th>Denaturant&lt;sup&gt;c&lt;/sup&gt;</th>
<th>Production&lt;sup&gt;d&lt;/sup&gt;</th>
<th>Trade&lt;sup&gt;e&lt;/sup&gt;</th>
<th>Net Imports&lt;sup&gt;f&lt;/sup&gt;</th>
<th>Stocks&lt;sup&gt;g&lt;/sup&gt;</th>
<th>Stock Change&lt;sup&gt;h&lt;/sup&gt;</th>
<th>Consumption&lt;sup&gt;i&lt;/sup&gt;</th>
<th>Consumption Minus Denaturant&lt;sup&gt;e&lt;/sup&gt;</th>
<th>TBtu</th>
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<sup>a</sup> Total corn and biomass inputs to the production of undenatured ethanol used for fuel ethanol.

<sup>b</sup> Losses and co-products from the production of fuel ethanol. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol—these are included in the industrial sector consumption statistics for the appropriate energy source.

<sup>c</sup> The amount of denaturant in fuel ethanol produced.

<sup>d</sup> Includes denaturant.

<sup>e</sup> Through 2009, data are for fuel ethanol imports only; data for fuel ethanol exports are not available. Beginning in 2010, data are for fuel ethanol imports minus fuel ethanol (including industrial alcohol) exports.

<sup>f</sup> Stocks at end of period.

<sup>g</sup> A negative value indicates a decrease in stocks and a positive value indicates an increase.

<sup>h</sup> Consumption of fuel ethanol minus denaturant. Data for fuel ethanol minus denaturant are used to develop data for "Renewable Energy/Biomass" in Tables 10.1--10.2b, as well as in Sections 1 and 2.

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<sup>i</sup> Derived from the preliminary 2019 stocks value (22.349 thousand barrels), not the final 2019 value (22.352 thousand barrels) that is shown under "Stocks."

<sup>NA</sup> Not available.

**Note:** • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Fuel ethanol data in thousand barrels are converted to million gallons by multiplying fuel ethanol—see Table A3. • Through 1980, data are not available. For 1981--1992, data are estimates. For 1993--2008, only data for feedstock, losses, and co-products, and denaturant are estimates. Beginning in 2009, only data for feedstock, losses and co-products, and denaturant are estimates. • See "Denaturant," "Ethanol," "Fuel Ethanol," and "Fuel Ethanol Minus Denaturant" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.