

**Table 10.3 Fuel Ethanol Overview**

	Feed- stock <sup>b</sup>	Losses and Co- products <sup>c</sup>	Dena- turant <sup>d</sup>	Production <sup>a</sup>			Trade <sup>a</sup>	Stocks <sup>a,f</sup>	Stock Change <sup>a,g</sup>	Consumption <sup>a</sup>			Consump- tion Minus Denaturant <sup>h</sup>
							Net Imports <sup>e</sup>						
	TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
<b>1981 Total</b> .....	13	6	40	1,978	83	7	NA	NA	NA	1,978	83	7	7
<b>1985 Total</b> .....	93	42	294	14,693	617	52	NA	NA	NA	14,693	617	52	51
<b>1990 Total</b> .....	111	49	356	17,802	748	63	NA	NA	NA	17,802	748	63	62
<b>1995 Total</b> .....	198	86	647	32,325	1,358	115	387	2,186	-207	32,919	1,383	117	114
<b>2000 Total</b> .....	233	99	773	38,627	1,622	138	116	3,400	-624	39,367	1,653	140	137
<b>2005 Total</b> .....	550	227	1,859	92,961	3,904	331	3,234	5,563	-439	96,634	4,059	344	335
<b>2010 Total</b> .....	1,823	726	6,506	316,617	13,298	1,128	-9,115	17,941	1,347	306,155	12,858	1,091	1,061
<b>2011 Total</b> .....	1,904	754	6,649	331,646	13,929	1,181	-24,365	18,238	297	306,984	12,893	1,093	1,065
<b>2012 Total</b> .....	1,801	709	6,264	314,714	13,218	1,120	-5,891	20,350	2,112	306,711	12,882	1,092	1,064
<b>2013 Total</b> .....	1,809	711	6,181	316,493	13,293	1,127	-5,761	16,424	-3,926	314,658	13,216	1,120	1,092
<b>2014 Total</b> .....	1,947	764	6,476	340,781	14,313	1,213	-18,371	18,739	2,315	320,095	13,444	1,139	1,111
<b>2015 Total</b> .....	2,013	788	6,636	352,553	14,807	1,254	-17,632	21,596	2,857	332,064	13,947	1,181	1,153
<b>2016 Total</b> .....	2,092	818	6,920	366,981	15,413	1,306	-27,002	19,758	-1,838	341,817	14,356	1,216	1,187
<b>2017 Total</b> .....	2,164	844	6,657	379,435	15,936	1,349	-31,268	23,043	3,285	344,882	14,485	1,226	1,199
<b>2018 Total</b> .....	2,187	852	5,819	383,127	16,091	1,361	-39,410	23,418	375	343,342	14,420	1,220	1,197
<b>2019 Total</b> .....	2,140	832	6,089	375,678	15,778	1,336	-30,276	22,352	-1,066	346,468	14,552	1,232	1,206
<b>2020 Total</b> .....	1,886	732	5,892	331,928	13,941	1,181	-27,692	24,663	2,311	301,925	12,681	1,074	1,050
<b>2021 Total</b> .....	2,030	786	6,094	357,517	15,016	1,271	-28,135	22,036	-2,627	332,010	13,944	1,180	1,155
<b>2022 January</b> .....	183	71	600	32,191	1,352	114	-2,311	25,874	3,838	26,042	1,094	93	90
February .....	161	62	488	28,304	1,189	101	-3,420	26,521	647	24,237	1,018	86	84
March .....	179	70	520	31,581	1,326	112	-2,694	26,700	179	28,708	1,206	102	100
April .....	165	64	435	28,956	1,216	103	-4,628	24,284	-2,416	26,744	1,123	95	93
May .....	178	69	467	31,256	1,313	111	-3,064	23,426	-858	29,049	1,220	103	101
June .....	178	69	485	31,288	1,314	111	-2,360	23,384	-41	28,969	1,217	103	101
July .....	179	69	470	31,498	1,323	112	-2,615	24,197	813	28,070	1,179	100	98
August .....	174	67	460	30,520	1,282	108	-1,469	23,509	-688	29,740	1,249	106	104
September .....	154	60	400	27,072	1,137	96	-2,144	21,540	-1,969	26,896	1,130	96	94
October .....	179	69	493	31,440	1,321	112	-1,843	21,708	168	29,430	1,236	105	103
November .....	179	69	539	31,580	1,326	112	-1,414	23,575	1,867	28,299	1,189	101	98
December .....	171	66	512	30,046	1,262	107	-1,668	24,245	670	27,708	1,164	98	96
<b>Total</b> .....	<b>2,079</b>	<b>805</b>	<b>5,869</b>	<b>365,731</b>	<b>15,361</b>	<b>1,299</b>	<b>-29,631</b>	<b>24,245</b>	<b>2,209</b>	<b>333,891</b>	<b>14,023</b>	<b>1,186</b>	<b>1,163</b>
<b>2023 January</b> .....	176	68	537	31,064	1,305	110	-2,790	25,240	995	27,280	1,146	97	95
February .....	159	62	473	27,980	1,175	99	-2,551	26,284	1,045	24,384	1,024	87	85
March .....	174	67	505	30,602	1,285	109	-2,817	24,966	-1,318	29,104	1,222	103	101
April .....	166	64	495	29,162	1,225	104	-2,853	24,165	-801	27,111	1,139	96	94
May .....	175	68	515	30,820	1,294	110	-2,676	23,108	-1,057	29,201	1,226	104	102
June .....	177	68	519	31,089	1,306	110	-2,656	22,314	-794	29,228	1,228	104	102
July .....	182	70	528	32,014	1,345	114	-2,678	23,057	742	28,594	1,201	102	100
August .....	177	68	531	31,132	1,308	111	-2,146	21,800	-1,257	30,243	1,270	107	105
September .....	171	66	492	30,104	1,264	107	-2,499	22,159	360	27,245	1,144	97	95
October .....	181	70	538	31,858	1,338	113	-2,777	21,203	-957	30,037	1,262	107	105
November .....	179	70	532	31,603	1,327	112	-2,746	21,791	589	28,268	1,187	100	98
December .....	191	74	547	33,530	1,408	119	-3,707	23,498	1,707	28,116	1,181	100	98
<b>Total</b> .....	<b>2,107</b>	<b>816</b>	<b>6,211</b>	<b>370,957</b>	<b>15,580</b>	<b>1,318</b>	<b>-32,895</b>	<b>23,498</b>	<b>-747</b>	<b>338,808</b>	<b>14,230</b>	<b>1,204</b>	<b>1,179</b>
<b>2024 January</b> .....	174	68	503	30,672	1,288	109	-3,580	24,806	<sup>i</sup> 1,216	25,876	1,087	92	90
February .....	176	68	524	31,047	1,304	110	-3,317	26,233	1,428	26,302	1,105	93	92
March .....	188	73	500	32,959	1,384	117	-3,807	27,189	956	28,196	1,184	100	98
April .....	167	65	435	29,365	1,233	104	-5,108	25,516	-1,674	25,931	1,089	92	90
May .....	180	70	469	31,693	1,331	113	-3,685	22,679	-2,837	30,845	1,295	110	108
June .....	177	69	496	31,133	1,308	111	-3,481	22,612	-67	27,719	1,164	99	97
July .....	192	74	541	33,823	1,421	120	-3,247	23,349	737	29,839	1,253	106	104
August .....	191	74	522	33,548	1,409	119	-3,374	23,797	448	29,725	1,248	106	104
September .....	177	69	476	31,181	1,310	111	-3,543	23,474	-323	27,961	1,174	99	97
October .....	187	72	521	32,900	1,382	117	-3,553	22,156	-1,318	30,665	1,288	109	107
<b>10-Month Total</b> .....	<b>1,810</b>	<b>701</b>	<b>4,987</b>	<b>318,320</b>	<b>13,369</b>	<b>1,131</b>	<b>-36,695</b>	<b>22,156</b>	<b>-1,433</b>	<b>283,059</b>	<b>11,888</b>	<b>1,006</b>	<b>986</b>
<b>2023 10-Month Total</b> .....	<b>1,737</b>	<b>673</b>	<b>5,133</b>	<b>305,825</b>	<b>12,845</b>	<b>1,087</b>	<b>-26,442</b>	<b>21,203</b>	<b>-3,042</b>	<b>282,425</b>	<b>11,862</b>	<b>1,004</b>	<b>983</b>
<b>2022 10-Month Total</b> .....	<b>1,729</b>	<b>670</b>	<b>4,818</b>	<b>304,105</b>	<b>12,772</b>	<b>1,080</b>	<b>-26,549</b>	<b>21,708</b>	<b>-328</b>	<b>277,885</b>	<b>11,671</b>	<b>987</b>	<b>968</b>

<sup>a</sup> Includes denaturant.

<sup>b</sup> Total corn and other biomass inputs to the production of undenatured ethanol used for fuel ethanol.

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

<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 are 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.

<sup>i</sup> Derived from the preliminary 2023 stocks value (23,589 thousand barrels), not the final 2023 value (23,498 thousand barrels) that is shown under "Stocks."

NA=Not available.

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Fuel ethanol data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to TBtu by multiplying by the approximate heat content of 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, and losses and co-products, 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.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#renewable> (Excel and CSV files) for all available annual and monthly data beginning in 1981.

Sources: See end of section.