

Table 10.3 Fuel Ethanol Overview

	Feed-stock ^a	Losses and Co-products ^b	Production			Trade			Stocks ^d	Stock Change ^e	Consumption		
						Imports	Exports	Net Imports ^c					
			TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl			Mbbl	Mbbl	Mbbl
1981 Total	13	6	1,978	83	7	NA	NA	NA	NA	NA	1,978	83	7
1985 Total	95	43	14,693	617	52	NA	NA	NA	NA	NA	14,693	617	52
1990 Total	113	50	17,802	748	63	NA	NA	NA	NA	NA	17,802	748	63
1995 Total	202	87	32,325	1,358	114	387	NA	387	2,186	-207	32,919	1,383	117
1996 Total	144	62	23,178	973	82	313	NA	313	2,065	-121	23,612	992	84
1997 Total	190	82	30,674	1,288	109	85	NA	85	2,925	860	29,899	1,256	106
1998 Total	207	88	33,453	1,405	118	66	NA	66	3,406	481	33,038	1,388	117
1999 Total	215	92	34,881	1,465	123	87	NA	87	4,024	618	34,350	1,443	122
2000 Total	238	101	38,627	1,622	137	116	NA	116	3,400	-624	39,367	1,653	139
2001 Total	259	110	42,028	1,765	149	315	NA	315	4,298	898	41,445	1,741	147
2002 Total	313	133	50,956	2,140	180	306	NA	306	6,200	1,902	49,360	2,073	175
2003 Total	410	173	66,772	2,804	236	292	NA	292	5,978	-222	67,286	2,826	238
2004 Total	497	210	81,058	3,404	287	3,542	NA	3,542	6,002	24	84,576	3,552	299
2005 Total	569	240	92,961	3,904	329	3,234	NA	3,234	5,563	-439	96,634	4,059	342
2006 Total	711	299	116,294	4,884	412	17,408	NA	17,408	8,760	3,197	130,505	5,481	462
2007 January	71	30	11,621	488	41	1,077	NA	1,077	8,656	-104	12,802	538	45
February	66	28	10,795	453	38	1,010	NA	1,010	8,765	109	11,696	491	41
March	73	30	11,892	499	42	720	NA	720	8,539	-226	12,838	539	45
April	72	30	11,716	492	41	733	NA	733	8,807	268	12,181	512	43
May	77	32	12,573	528	44	663	NA	663	8,966	159	13,077	549	46
June	77	32	12,553	527	44	922	NA	922	9,171	205	13,270	557	47
July	80	34	13,083	549	46	1,533	NA	1,533	9,866	695	13,921	585	49
August	83	35	13,581	570	48	1,586	NA	1,586	11,011	1,145	14,022	589	50
September	82	34	13,402	563	47	610	NA	610	11,555	544	13,468	566	48
October	87	36	14,221	597	50	998	NA	998	11,449	-106	15,325	644	54
November	89	37	14,568	612	52	393	NA	393	11,218	-231	15,192	638	54
December	93	39	15,258	641	54	212	NA	212	10,535	-683	16,153	678	57
Total	948	398	155,263	6,521	549	10,457	NA	10,457	10,535	1,775	163,945	6,886	580
2008 January	98	41	16,058	674	57	510	NA	510	11,383	848	15,720	660	56
February	95	40	15,527	652	55	505	NA	505	11,173	-210	16,242	682	57
March	107	45	17,527	736	62	368	NA	368	12,288	1,115	16,780	705	59
April	105	44	17,152	720	61	1,491	NA	1,491	12,572	284	18,359	771	65
May	114	48	18,756	788	66	962	NA	962	13,297	725	18,993	798	67
June	108	45	17,651	741	62	1,571	NA	1,571	13,323	26	19,196	806	68
July	116	49	19,040	800	67	1,459	NA	1,459	13,448	125	20,374	856	72
August	122	51	20,059	842	71	1,931	NA	1,931	14,771	1,323	20,667	868	73
September	118	49	19,338	812	68	2,466	NA	2,466	16,110	1,339	20,465	860	72
October	122	51	20,048	842	71	606	NA	606	15,214	-896	21,550	905	76
November	123	51	20,139	846	71	278	NA	278	15,286	72	20,345	854	72
December	124	52	20,342	854	72	463	NA	463	14,226	-1,060	21,865	918	77
Total	1,351	567	221,637	9,309	784	12,610	NA	12,610	14,226	3,691	230,556	9,683	816
2009 January	119	50	19,545	821	69	371	-	371	14,186	f-33	19,949	838	71
February	110	46	18,120	761	64	51	-	51	15,688	1,502	16,669	700	59
March	121	51	19,837	833	70	78	-	78	15,652	-36	19,951	838	71
April	117	49	19,220	807	68	167	-	167	14,845	-807	20,194	848	71
May	126	53	20,752	872	73	504	-	504	13,999	-846	22,102	928	78
June	127	53	20,822	875	74	702	-	702	13,903	-96	21,620	908	77
July	137	58	22,577	948	80	1,010	-	1,010	14,294	391	23,196	974	82
August	137	57	22,552	947	80	921	-	921	15,001	707	22,766	956	81
September	132	55	21,752	914	77	307	-	307	15,688	687	21,372	898	76
October	140	58	22,956	964	81	206	-	206	15,080	-608	23,770	998	84
10-Month Total ...	1,267	530	208,133	8,742	737	4,317	-	4,317	15,080	861	211,589	8,887	749
2008 10-Month Total ...	1,104	463	181,156	7,609	641	11,869	NA	11,869	15,214	4,679	188,346	7,911	667
2007 10-Month Total ...	766	322	125,437	5,268	444	9,852	NA	9,852	11,449	2,689	132,600	5,569	469

^a Total corn and other biomass inputs to the production of fuel ethanol.

^b 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.

^c Net imports equal imports minus exports.

^d Stocks are at end of period.

^e A negative value indicates a decrease in stocks and a positive value indicates an increase.

^f Derived from the preliminary December 2008 stocks value, not the final December 2008 value that is shown under "Stocks."

NA=Not available. - =No data reported.

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 trillion Btu by multiplying by 0.003539 (the approximate heat content of fuel ethanol—see Table A3). • Through 1980, data are not available. For 1981-1992, data are estimates. Beginning in 1993, only data for feedstock and losses and co-products are estimates. • 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.doe.gov/emeu/mer/renew.html> for all available data beginning in 1981.

Sources: • **Feedstock:** Calculated as fuel ethanol production in thousand barrels multiplied by the fuel ethanol feedstock factor—see Table A3. • **Losses**

and Co-products: Calculated as fuel ethanol feedstock minus fuel ethanol production. • **Production: 1981-1992**—Fuel ethanol production is assumed to equal fuel ethanol consumption—see sources for "Consumption."

1993-2004—Calculated as fuel ethanol consumption plus fuel ethanol stock change minus fuel ethanol net imports. These data differ slightly from the original production data from U.S. Energy Information Administration (EIA), Form EIA-819, "Monthly Oxygenate Report," and predecessor form, which were not reconciled and updated to be consistent with the final balance. **2005-2008**—EIA, Form EIA-819, "Monthly Oxygenate Report." **2009**—EIA, *Petroleum Supply Monthly (PSM)*, monthly reports. • **Trade, Stocks, and Stock Change: 1992-2008**—EIA, *Petroleum Supply Annual (PSA)*, annual reports. **2009**—EIA, *PSM*, monthly reports. • **Consumption: 1981-1989**—EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 10; and EIA, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), estimates. **1990-1992**—EIA, *Estimates of U.S. Biomass Energy Consumption 1992*, Table D2; and EIA, CNEAF, estimates.

1993-2004—EIA, *PSA*, annual reports, Tables 2 and 16. Calculated as ten percent of oxygenated finished motor gasoline field production (Table 2), plus fuel ethanol refinery input (Table 16). **2005-2008**—EIA, *PSA*, annual reports, Tables 1 and 15. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 15). **2009**—EIA, *PSM*, monthly reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.