

Ethanol Trade

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Net Exporters	(Million Gallons)										
Brazil	866	1,006	1,127	1,213	1,370	1,558	1,847	2,231	2,664	3,064	3,591
China	214	118	86	64	40	26	22	24	24	18	23
Total Net Exports *	1,080	1,192	1,265	1,296	1,410	1,584	1,869	2,255	2,687	3,082	3,615
Net Importers											
Canada	67	85	124	148	170	192	214	236	261	284	306
European Union	33	66	82	107	146	180	210	238	268	301	329
India	0	-68	-52	-19	24	67	103	132	158	186	214
Japan	190	211	224	237	249	261	271	280	290	300	309
South Korea	80	90	96	103	110	116	122	127	132	138	143
United States	396	413	402	352	351	397	570	851	1,178	1,461	1,893
ROW	314	326	337	348	359	370	380	390	401	411	422
Total Net Imports *	1,080	1,192	1,265	1,296	1,410	1,584	1,869	2,255	2,687	3,082	3,615
Prices	(U.S. Dollars per Gallon)										
Anhydrous Ethanol Price, Brazil **	1.68	1.41	1.41	1.34	1.27	1.25	1.29	1.35	1.41	1.43	1.52
Ethanol, FOB Omaha	2.24	2.01	1.90	1.80	1.76	1.78	1.88	2.03	2.13	2.12	1.99

Note: 1 gallon = 3.7857 liters; 1 metric ton = 1237.1644 liters.

* Total net exports are the sum of all positive net exports.

** Represents world ethanol price.

Biodiesel Trade

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Net Exporters	(Million Gallons)										
Argentina	60	153	225	104	143	175	199	218	232	243	251
Brazil	0	67	266	46	64	77	85	89	90	88	84
Indonesia	86	97	99	101	102	102	103	103	102	102	102
Malaysia	36	39	37	38	38	37	37	38	38	38	38
United States	110	200	235	216	177	131	108	104	109	119	127
Total Net Exports *	292	557	862	505	525	522	532	551	572	590	602
Net Importers											
European Union	119	389	689	333	352	348	358	377	398	416	429
Japan	67	60	66	64	64	65	65	65	64	64	63
ROW	105	108	107	108	109	109	109	109	110	110	111
Total Net Imports *	292	557	862	505	525	522	532	551	572	590	602
Prices	(U.S. Dollars per Gallon)										
Central Europe FOB Price **	3.57	4.82	4.40	4.99	5.10	5.06	5.22	5.38	5.57	5.77	6.00
Biodiesel Plant	3.32	3.51	3.87	4.05	4.42	4.67	4.81	4.91	5.01	5.12	5.25

Note: 1 gallon = 3.7857 liters; 1 metric ton = 1136.36 liters.

* Total net exports are the sum of all positive net exports.

** Represents world biodiesel price.

U.S. Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Ethanol	(Million Gallons)										
Production	6,472	9,443	11,274	11,675	11,892	12,283	13,424	14,553	15,458	16,350	17,243
Consumption	6,803	9,729	11,554	11,997	12,224	12,668	13,939	15,348	16,594	17,764	19,082
Net Trade	-396	-413	-402	-352	-351	-397	-570	-851	-1,178	-1,461	-1,893
Biodiesel											
Production	444	588	638	849	973	1,081	1,108	1,104	1,109	1,119	1,127
From Soybean Oil	397	494	539	739	854	954	980	976	981	989	997
From Other Fats and Oils	48	94	99	110	119	127	129	129	129	129	130
Consumption	334	388	403	633	796	950	1,000	1,000	1,000	1,000	1,000
Net Trade	110	200	235	216	177	131	108	104	109	119	127

Argentine Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Biodiesel	(Million Gallons)										
Production	73	161	238	293	336	371	400	423	441	456	468
Consumption	13	8	13	189	193	197	201	205	209	213	217
Net Trade	60	153	225	104	143	175	199	218	232	243	251
Use in Biodiesel Production	(Thousand Metric Tons)										
Soybean Oil	256	559	825	1,009	1,153	1,267	1,358	1,429	1,485	1,529	1,562

Brazilian Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Ethanol	(Million Gallons)										
Production	5,227	5,820	6,076	6,328	6,684	7,058	7,524	8,095	8,756	9,450	10,279
Consumption	4,266	4,792	4,946	5,114	5,312	5,500	5,677	5,866	6,094	6,387	6,690
Net Trade	866	1,006	1,127	1,213	1,370	1,558	1,847	2,231	2,664	3,064	3,591
Use in Ethanol Production	(Thousand Metric Tons)										
Sugarcane	225,610	246,917	255,593	263,934	276,443	289,473	305,949	326,429	350,088	374,649	404,063
Biodiesel	(Million Gallons)										
Production	108	280	482	597	627	651	670	686	699	709	718
Consumption	72	212	216	552	563	574	585	597	609	621	634
Net Trade	0	67	266	46	64	77	85	89	90	88	84
Use in Biodiesel Production	(Thousand Metric Tons)										
Soybean Oil	319	716	1,400	1,717	1,783	1,829	1,862	1,884	1,898	1,904	1,904

Canadian Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Ethanol	(Million Gallons)										
Production	147	246	317	370	409	449	490	532	574	622	671
Consumption	214	332	441	518	580	642	704	769	835	905	977
Net Trade	-67	-85	-124	-148	-170	-192	-214	-236	-261	-284	-306
Use in Ethanol Production	(Thousand Metric Tons)										
Corn	1,054	1,769	2,279	2,655	2,940	3,228	3,523	3,824	4,126	4,465	4,820
Wheat	472	793	1,022	1,190	1,318	1,447	1,579	1,714	1,849	2,001	2,160

Chinese Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Ethanol											
											(Million Gallons)
Production	429	421	425	436	445	457	474	497	522	548	576
Consumption	214	303	339	373	405	431	452	473	499	530	553
Net Trade	214	118	86	64	40	26	22	24	24	18	23
Use in Ethanol Production											
											(Thousand Metric Tons)
Corn	3,100	3,279	3,250	3,302	3,382	3,456	3,560	3,707	3,892	4,086	4,289

European Union Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Ethanol											
											(Million Gallons)
Production	1,217	1,289	1,359	1,423	1,513	1,607	1,704	1,802	1,899	1,993	2,092
Consumption	1,249	1,353	1,440	1,528	1,657	1,785	1,911	2,038	2,164	2,292	2,418
Net Trade	-33	-66	-82	-107	-146	-180	-210	-238	-268	-301	-329
Use in Ethanol Production											
											(Thousand Metric Tons)
Wheat	1,369	1,451	1,530	1,602	1,703	1,809	1,918	2,028	2,137	2,244	2,355
Corn	489	518	546	572	608	646	685	724	763	801	841
Barley	1,076	1,140	1,202	1,258	1,338	1,421	1,507	1,594	1,679	1,763	1,850
Biodiesel											
											(Million Gallons)
Production	1,775	1,558	1,401	1,836	1,896	1,924	2,066	2,173	2,286	2,396	2,511
Consumption	1,949	1,988	2,131	2,209	2,289	2,313	2,464	2,590	2,724	2,852	2,980
Net Trade	-119	-389	-689	-333	-352	-348	-358	-377	-398	-416	-429
Use in Biodiesel Production											
											(Thousand Metric Tons)
Rapeseed Oil	5,252	4,574	4,135	5,439	5,630	5,728	6,156	6,476	6,817	7,147	7,493
Soybean Oil	772	687	574	702	681	646	653	648	641	630	619
Sunflower Oil	59	42	35	55	56	56	62	66	71	76	81

Indian Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Ethanol											
											(Million Gallons)
Production	594	623	642	653	659	667	680	696	714	729	748
Consumption	479	539	584	632	682	729	773	817	862	907	950
Net Trade	0	68	52	19	-24	-67	-103	-132	-158	-186	-214

Indonesian Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Biodiesel											
											(Million Gallons)
Production	101	105	107	109	110	110	110	110	110	110	110
Consumption	15	7	8	8	8	8	8	8	8	8	8
Net Trade	86	97	99	101	102	102	103	103	102	102	102
Use in Biodiesel Production											
											(Thousand Metric Tons)
Palm Oil	354	366	373	380	384	385	386	386	386	385	385

Japanese Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Ethanol											
Net Trade	-190	-211	-224	-237	-249	-261	-271	-280	-290	-300	-309
Biodiesel											
Net Trade	-67	-60	-66	-64	-64	-65	-65	-65	-64	-64	-63

South Korean Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Ethanol											
Net Trade	-80	-90	-96	-103	-110	-116	-122	-127	-132	-138	-143

Malaysian Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Biodiesel											
Net Trade	36	39	37	38	38	37	37	38	38	38	38

Rest of World Biofuels Production and Consumption

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Ethanol											
Net Trade	-314	-326	-337	-348	-359	-370	-380	-390	-401	-411	-422
Biodiesel											
Net Trade	-105	-108	-107	-108	-109	-109	-109	-109	-110	-110	-111