

## World on the Edge - Energy Data - Biofuels

[World Fuel Ethanol Production, 1975-2010](#)

GRAPH: World Fuel Ethanol Production, 1975-2010

[Fuel Ethanol Production in Ten Leading Countries and the World, 2010](#)

[Fuel Ethanol Production in the United States, 1978-2010](#)

GRAPH: Fuel Ethanol Production in the United States, 1978-2010

[Corn Production and Use for Fuel Ethanol in the United States, 1980-2010](#)

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[Fuel Ethanol Production in Brazil, 1975-2010](#)

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[Fuel Ethanol Production in the European Union, 1992-2010](#)

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[World Biodiesel Production, 1991-2010](#)

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[Biodiesel Production in Five Leading Countries and the World, 2010](#)

[Biodiesel Production in the United States, 2000-2010](#)

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[Biodiesel Production in the European Union, 2000-2010](#)

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A full listing of data for the entire book is on-line at:

[http://www.earth-policy.org/books/wote/wote\\_data](http://www.earth-policy.org/books/wote/wote_data)

This is part of a supporting dataset for Lester R. Brown, **World On the Edge: How to Prevent Environmental and Economic Collapse** (New York: W.W. Norton & Company, 2010). For more information and a free download of the book, see Earth Policy Institute on-line at [www.earth-policy.org](http://www.earth-policy.org).

## World Fuel Ethanol Production, 1975-2010

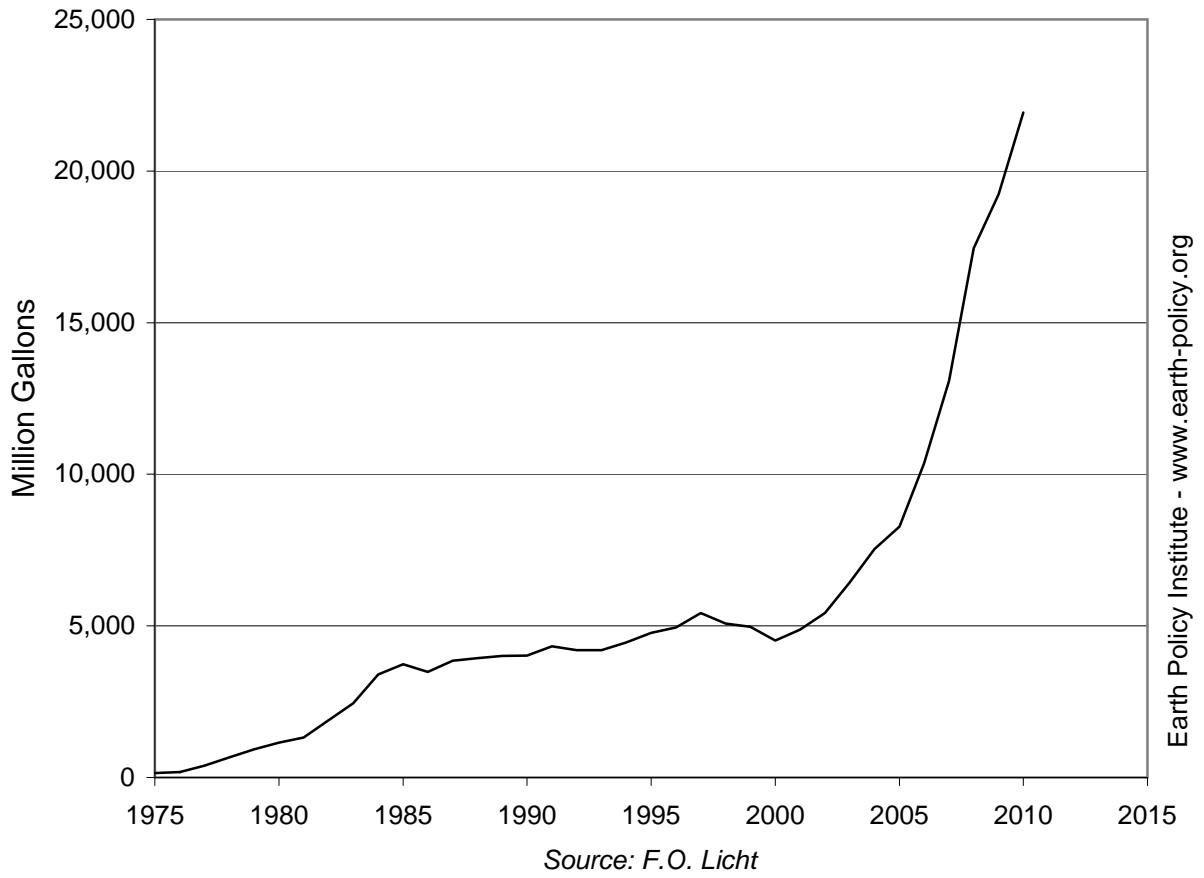
<u>Year</u>	<u>Production</u> Million Gallons
1975	147
1976	175
1977	388
1978	668
1979	933
1980	1,154
1981	1,315
1982	1,889
1983	2,452
1984	3,403
1985	3,732
1986	3,485
1987	3,857
1988	3,937
1989	4,013
1990	4,019
1991	4,325
1992	4,196
1993	4,201
1994	4,458
1995	4,775
1996	4,954
1997	5,420
1998	5,073
1999	4,972
2000	4,519
2001	4,874
2002	5,420
2003	6,430
2004	7,531
2005	8,276
2006	10,366
2007	13,090
2008	17,452
2009	19,239
2010 *	21,926

\* Projection.

Source: Compiled by Earth Policy Institute with data for 1975-1998 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 6, no. 4 (23 October 2007), p. 63; 1999-2005 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 7, no. 18 (26 May 2009), p. 3; 2006-2010 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 16 (28 April 2010), p. 328.

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# World Fuel Ethanol Production, 1975-2010



## Fuel Ethanol Production in Ten Leading Countries and the World, 2010

Country	Production *
	Million Gallons
United States	11,993
Brazil	7,270
China	555
Canada	304
France	277
Germany	238
Spain	159
Thailand	139
Belgium	85
Colombia	85
<b>World Total</b>	<b>21,926</b>

\* Data are projections.

Source: F.O. Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 16 (28 April 2010), p. 328.

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## Fuel Ethanol Production in the United States, 1978-2010

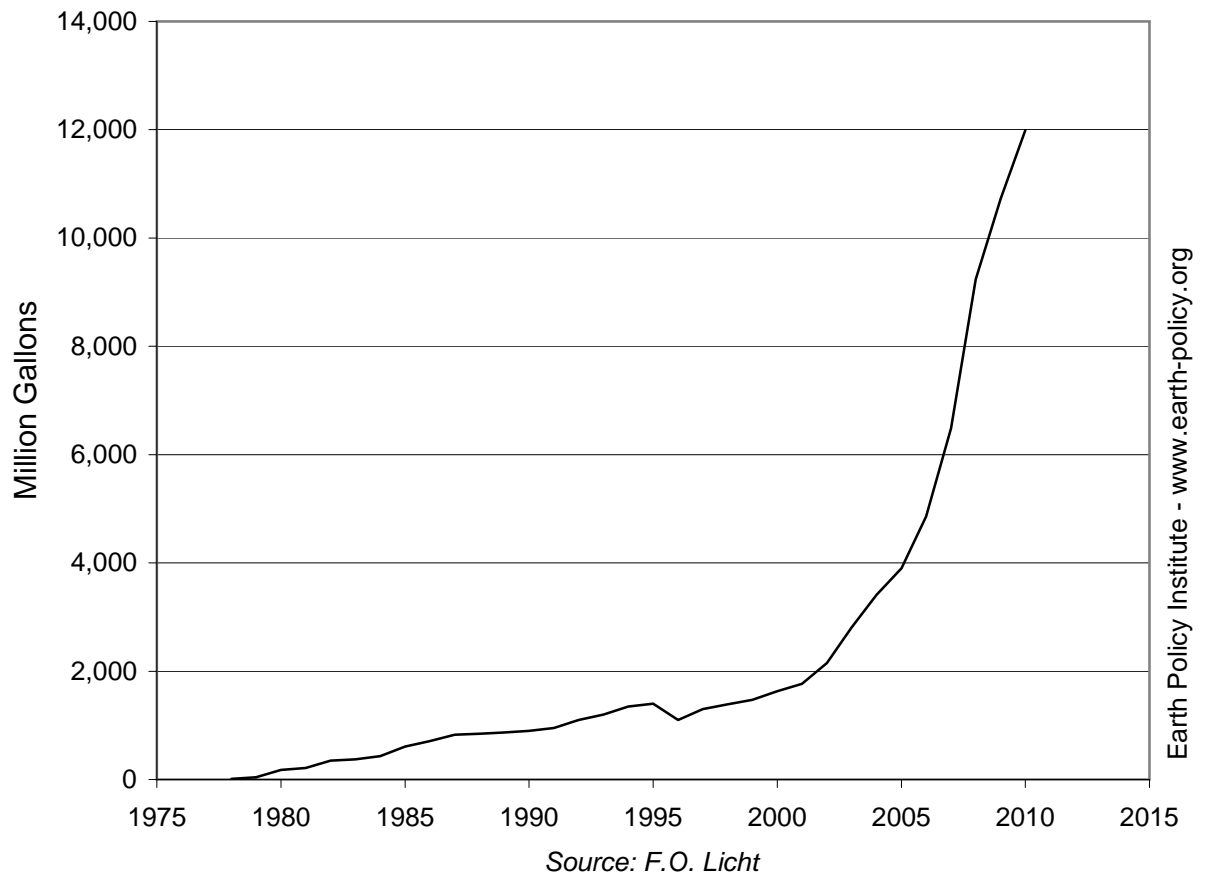
Year	Production Million Gallons
1978	10
1979	40
1980	175
1981	215
1982	350
1983	375
1984	430
1985	610
1986	710
1987	830
1988	845
1989	870
1990	900
1991	950
1992	1,100
1993	1,200
1994	1,350
1995	1,400
1996	1,100
1997	1,300
1998	1,387
1999	1,472
2000	1,630
2001	1,766
2002	2,153
2003	2,805
2004	3,409
2005	3,898
2006	4,856
2007	6,486
2008	9,238
2009	10,725
2010 *	11,993

\* Projection.

Source: Compiled by Earth Policy Institute with data for 1978-1998 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 6, no. 4 (23 October 2007), p. 63; 1999-2005 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 7, no. 18 (26 May 2009), p. 3; 2006-2010 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 16 (28 April 2010), p. 328.

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## Fuel Ethanol Production in the United States, 1978-2010



## Corn Production and Use for Fuel Ethanol in the United States, 1980-2010

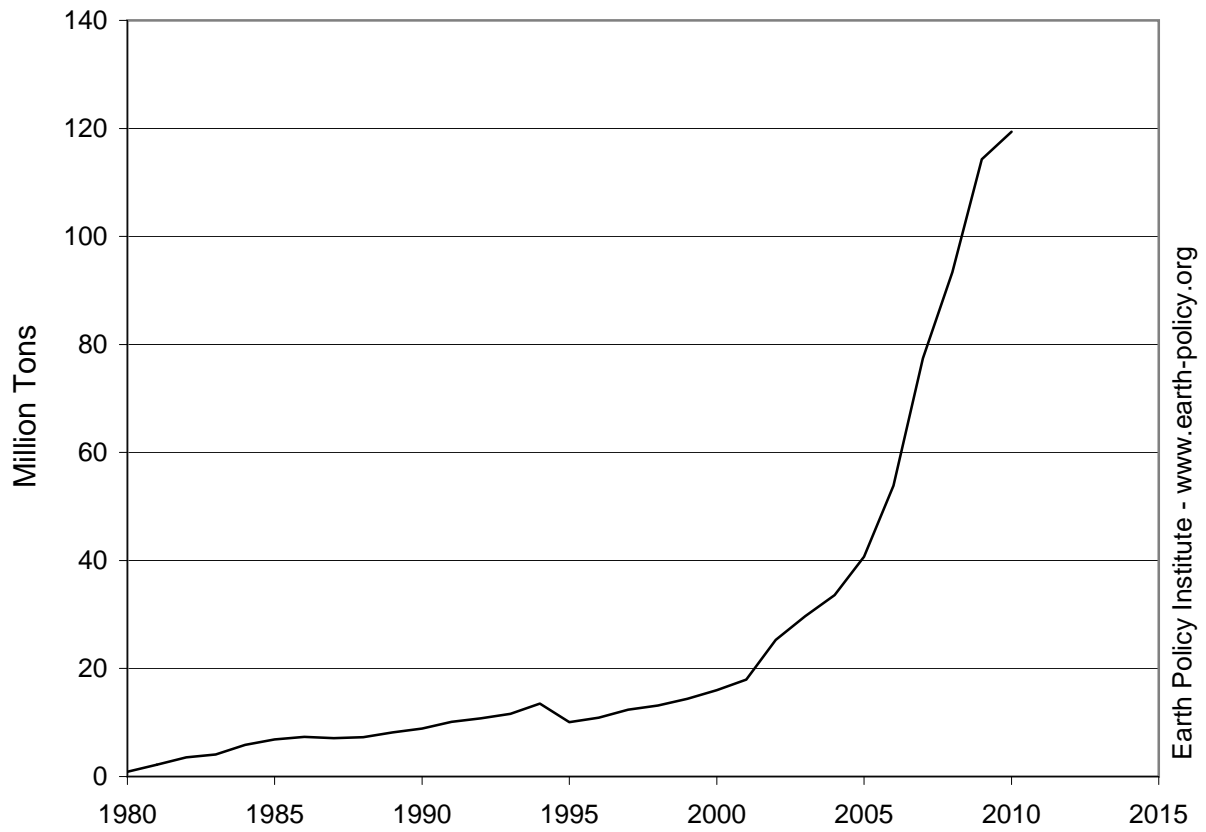
Year	Corn Production Million Tons	Total Grain Production Million Tons	Corn Used for Fuel Ethanol Million Tons	Share of Grain Used for Fuel Ethanol * Percent
1980	169	268	0.9	0.3
1981	206	328	2.2	0.8
1982	209	331	3.6	1.1
1983	106	206	4.1	1.2
1984	195	313	5.9	2.9
1985	225	345	6.9	2.2
1986	209	313	7.4	2.1
1987	181	278	7.1	2.3
1988	125	204	7.3	2.6
1989	191	282	8.2	4.0
1990	202	310	8.9	3.1
1991	190	278	10.1	3.3
1992	241	350	10.8	3.9
1993	161	257	11.6	3.3
1994	255	353	13.5	5.3
1995	188	275	10.1	2.8
1996	235	333	10.9	4.0
1997	234	334	12.4	3.7
1998	248	347	13.2	3.9
1999	240	332	14.4	4.1
2000	252	340	16.0	4.8
2001	241	321	18.0	5.3
2002	228	294	25.3	7.9
2003	256	345	29.7	10.1
2004	300	385	33.6	9.7
2005	282	363	40.7	10.6
2006	268	335	53.8	14.8
2007	331	412	77.5	23.1
2008	307	400	93.4	22.7
2009	333	416	114.3	28.6
2010	336	419	119.4	28.7

\* Note: Nearly all of the grain used for fuel ethanol in the United States is corn; the small share of other grain used is not included in these figures. Also note that corn used for fuel ethanol in a given year comes from the previous year's crop; therefore, the 119 million tons of corn used for fuel ethanol in 2010 is reported as 28.7 percent of the 2009 grain crop of 416 million tons.

Source: Compiled by Earth Policy Institute with corn used for fuel ethanol from U.S. Department of Agriculture (USDA), *Feed Grains Database*, electronic database, at [www.ers.usda.gov/Data/FeedGrains](http://www.ers.usda.gov/Data/FeedGrains), updated 14 July 2010; U.S. corn and grain production from USDA, *Production, Supply and Distribution*, electronic database, at [www.fas.usda.gov/psdonline](http://www.fas.usda.gov/psdonline), updated 9 July 2010.

This is part of a supporting dataset for Lester R. Brown, **World on the Edge: How to Prevent Environmental and Economic Collapse** (New York: W.W. Norton & Company, 2011). For more information and a free download of the book, see Earth Policy Institute on-line at [www.earth-policy.org](http://www.earth-policy.org).

# Corn Used for Fuel Ethanol in the United States, 1980-2010



Source: EPI from USDA

Earth Policy Institute - [www.earth-policy.org](http://www.earth-policy.org)



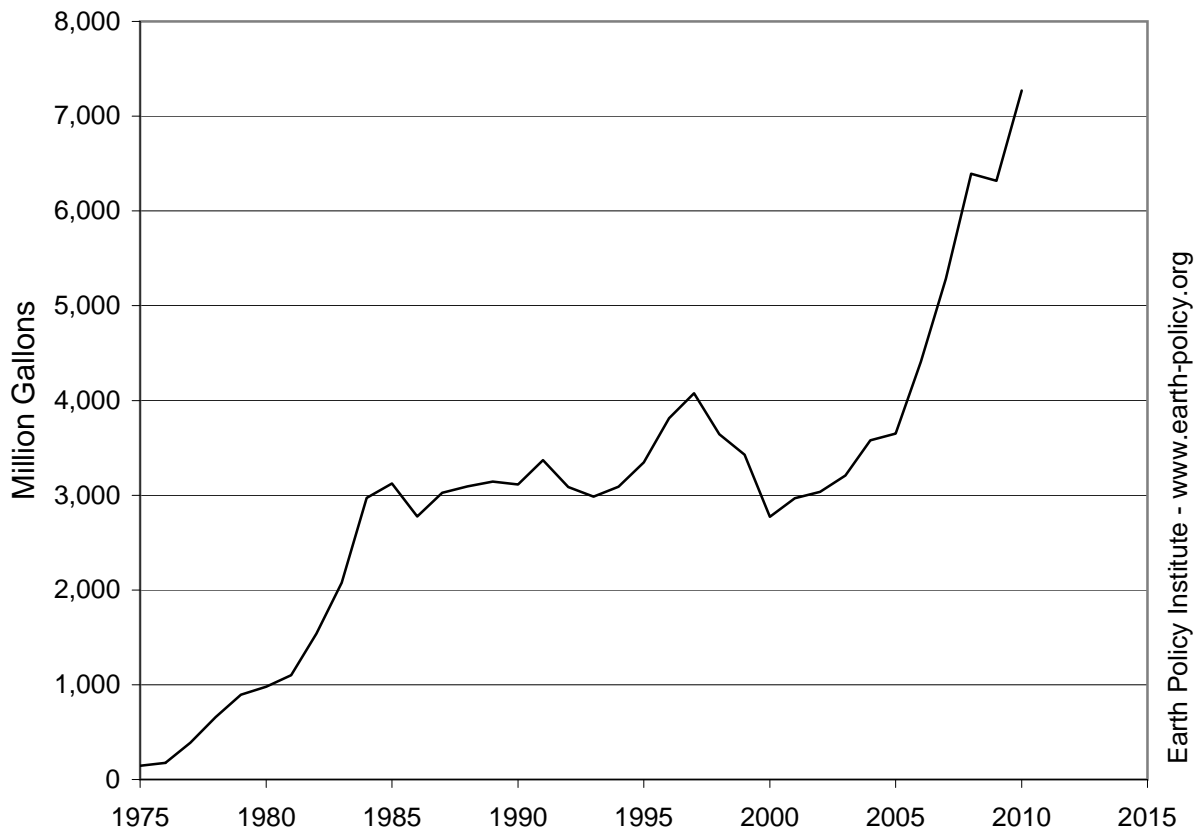
## Fuel Ethanol Production in Brazil, 1975-2010

Year	Production Million Gallons
1975	147
1976	175
1977	388
1978	658
1979	894
1980	979
1981	1,100
1982	1,539
1983	2,077
1984	2,972
1985	3,123
1986	2,775
1987	3,027
1988	3,092
1989	3,143
1990	3,113
1991	3,369
1992	3,087
1993	2,984
1994	3,089
1995	3,347
1996	3,814
1997	4,074
1998	3,642
1999	3,428
2000	2,773
2001	2,968
2002	3,035
2003	3,207
2004	3,578
2005	3,649
2006	4,412
2007	5,283
2008	6,393
2009	6,319
2010 *	7,270

\* Projection.

Source: Compiled by Earth Policy Institute with data for 1978-1999 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 6, no. 4 (23 October 2007), p. 63; 2000-2005 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 7, no. 18 (26 May 2009), p. 3; 2006-2010 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 16 (28 April 2010), p. 328.

## Fuel Ethanol Production in Brazil, 1975-2010



Source: F.O. Licht

## Fuel Ethanol Production in China, 2002-2010

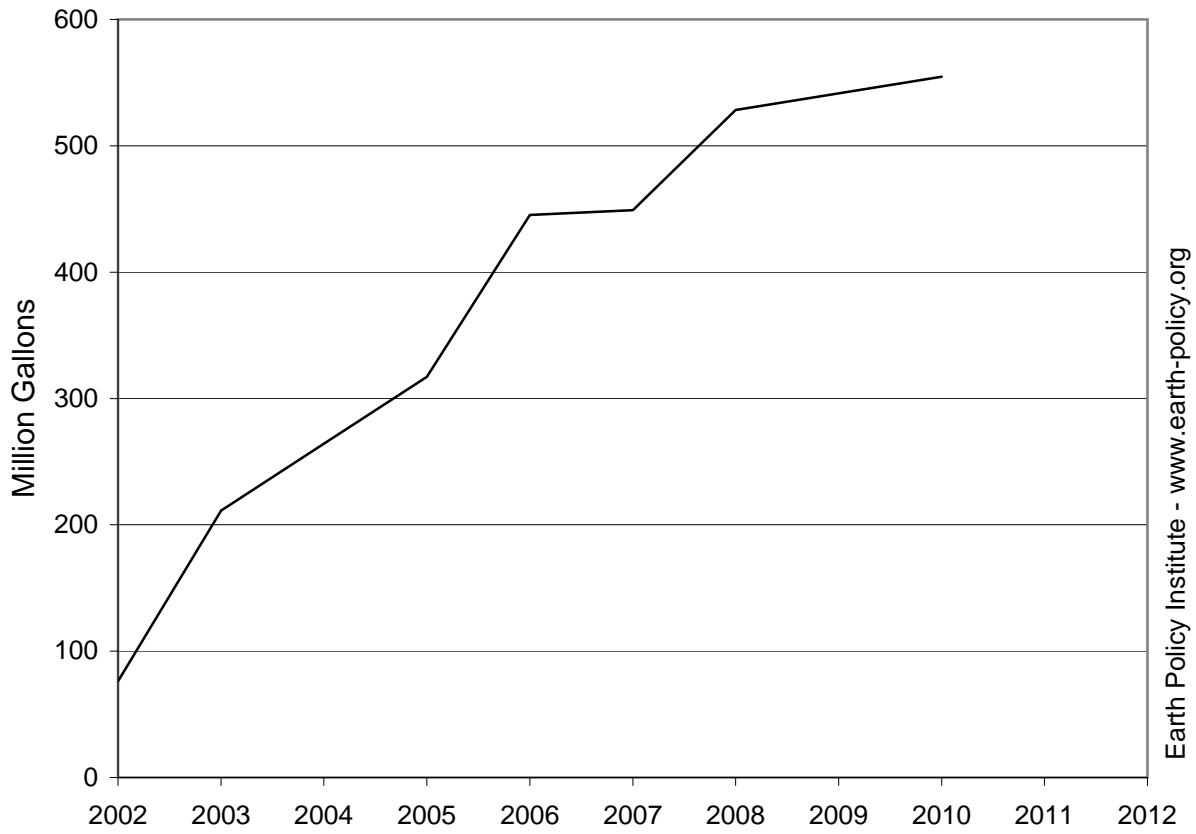
Year	Production Million Gallons
2002	76
2003	211
2004	264
2005	317
2006	445
2007	449
2008	528
2009	542
2010 *	555

\* Projection.

Source: Compiled by Earth Policy Institute with data for 2002-2005 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 7, no. 18 (26 May 2009), p. 3; 2006-2010 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 16 (28 April 2010), p. 328.

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## Fuel Ethanol Production in China, 2002-2010



Source: F.O. Licht

## Fuel Ethanol Production in the European Union, 1992-2010

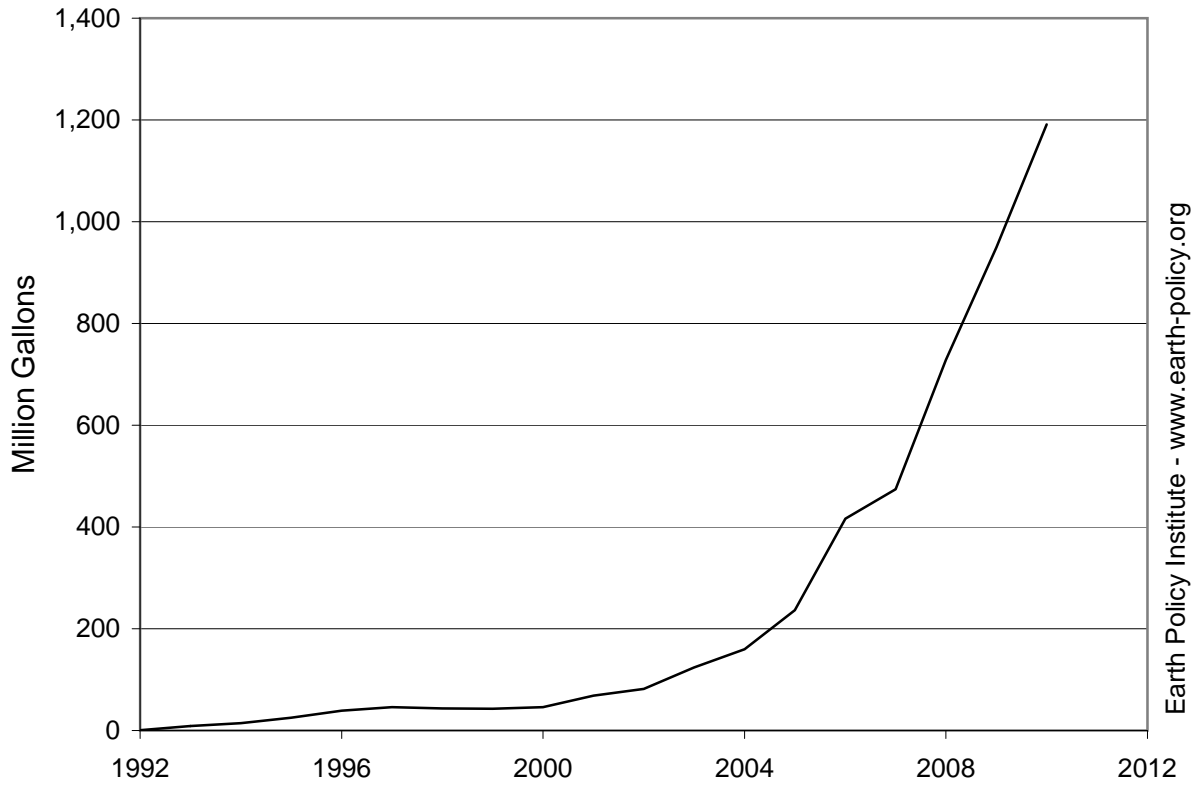
Year	Production Million Gallons
1992	1
1993	9
1994	15
1995	25
1996	39
1997	46
1998	44
1999	43
2000	46
2001	68
2002	82
2003	124
2004	160
2005	237
2006	417
2007	474
2008	728
2009	949
2010 *	1,191

\* Projection.

Source: Compiled by Earth Policy Institute with data for 1992-2005 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 7, no. 18 (26 May 2009), p. 3; 2006-2010 from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 16 (28 April 2010), p. 328.

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# Fuel Ethanol Production in the European Union, 1992-2010



Source: F.O. Licht

Earth Policy Institute - [www.earth-policy.org](http://www.earth-policy.org)

## World Biodiesel Production, 1991-2010

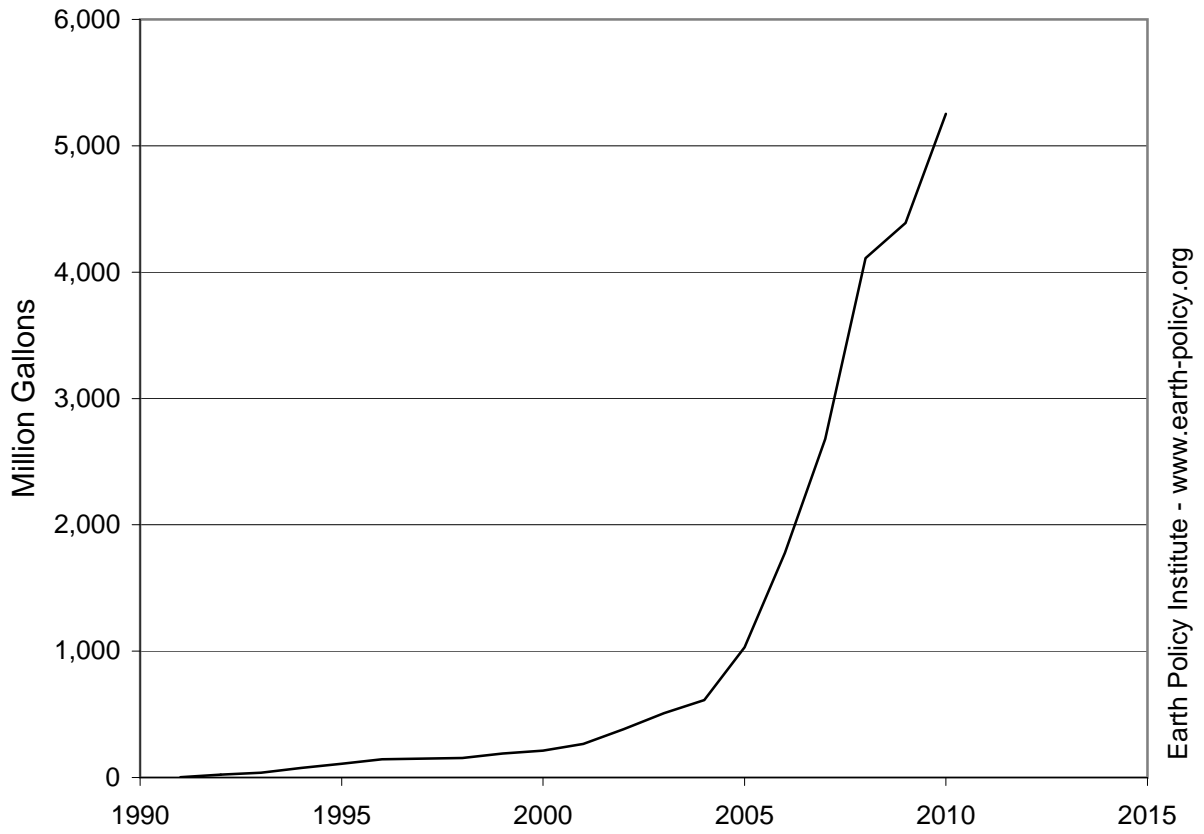
Year	Production Million Gallons
1991	3
1992	23
1993	38
1994	75
1995	108
1996	144
1997	151
1998	155
1999	190
2000	213
2001	265
2002	383
2003	510
2004	614
2005	1,032
2006	1,779
2007	2,679
2008	4,110
2009	4,390
2010 *	5,253

\* Projection.

Source: Compiled by Earth Policy Institute with 1991-1999 data from F.O. Licht data, cited in Suzanne Hunt and Peter Stair, "Biofuels Hit a Gusher," *Vital Signs 2006-2007* (Washington, DC: Worldwatch Institute, 2006), pp. 40-41; 2000-2004 data from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 7, no. 2 (23 September 2008), p. 29; 2005-2010 data from F.O.Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 13 (15 March 2010), p. 265.

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# World Biodiesel Production, 1991-2010



Source: F.O. Licht; Worldwatch

Earth Policy Institute - [www.earth-policy.org](http://www.earth-policy.org)



## **Biodiesel Production in Five Leading Countries and the World, 2010**

<u>Country</u>	<u>Production *</u> Million Gallons
United States	750
Argentina	690
Germany	660
France	630
Brazil	510
<b><u>World Total</u></b>	<b><u>5,253</u></b>

\* Data are projections.

Source: F.O. Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 13 (15 March 2010), pp. 265, 267.

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## Biodiesel Production in the United States, 2000-2010

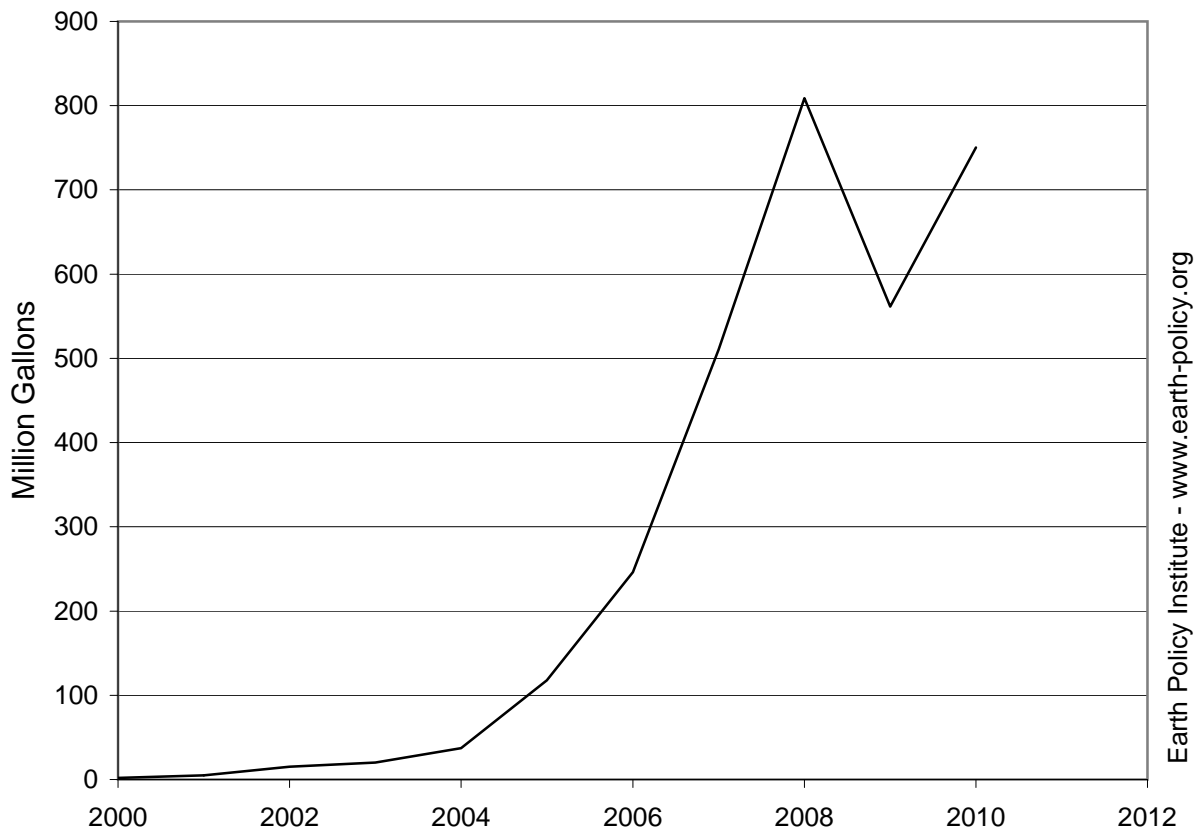
Year	Production Million Gallons
2000	2
2001	5
2002	15
2003	20
2004	37
2005	118
2006	246
2007	511
2008	809
2009	561
2010 *	750

\* Projection.

Source: Compiled by Earth Policy Institute with 2000-2004 data from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 7, no. 2 (23 September 2008), p. 29; 2005-2010 data from F.O.Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 13 (15 March 2010), p. 265.

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## Biodiesel Production in the United States, 2000-2010



Source: F.O. Licht

## Biodiesel Production in the European Union, 2000-2010

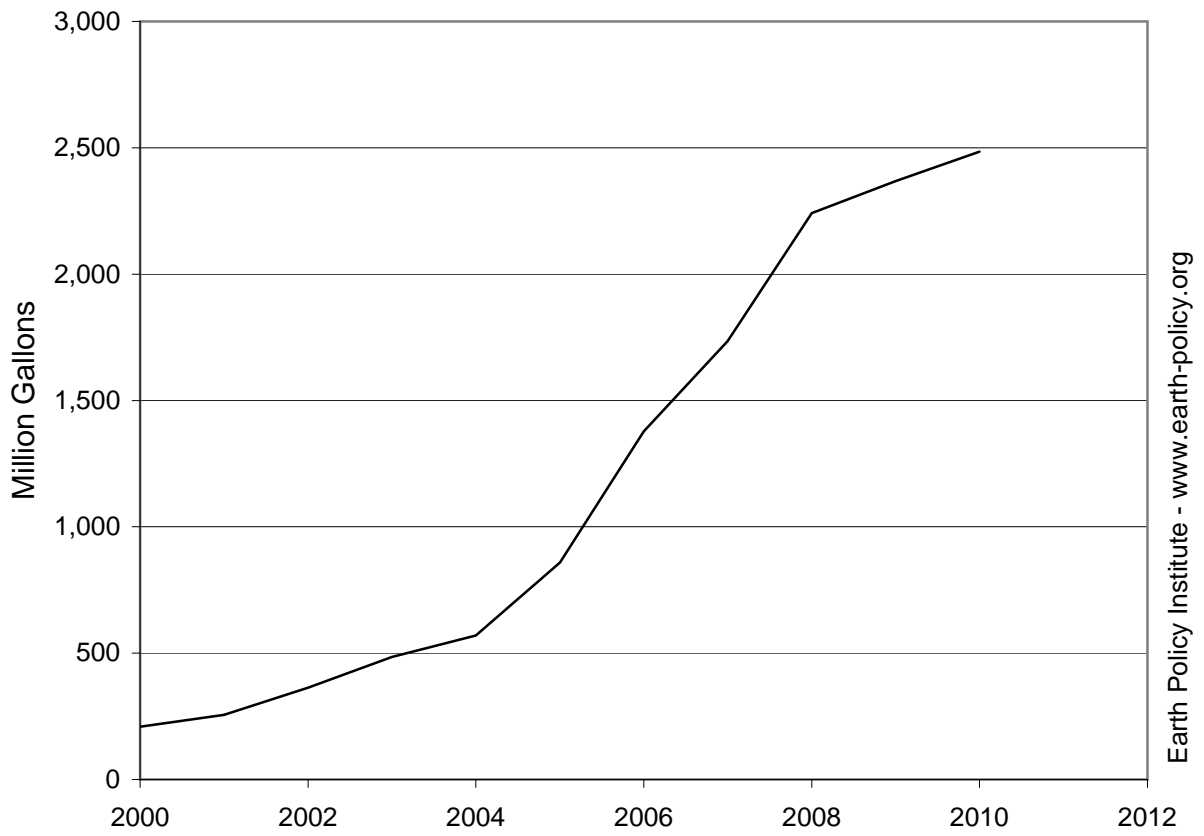
Year	Production Million Gallons
2000	209
2001	255
2002	363
2003	485
2004	570
2005	859
2006	1,378
2007	1,735
2008	2,242
2009	2,368
2010 *	2,485

\* Projection.

Source: Compiled by Earth Policy Institute with 2000-2004 data from F.O. Licht, *World Ethanol and Biofuels Report*, vol. 7, no. 2 (23 September 2008), p. 29; 2005-2010 data from F.O.Licht, *World Ethanol and Biofuels Report*, vol. 8, no. 13 (15 March 2010), p. 265.

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## Biodiesel Production in the European Union, 2000-2010



Source: F.O. Licht