

Annual Energy Outlook 2006 with Projections to 2030

Release Date: December 2005

Next Release Date: December 2006

Table 11. Petroleum Supply and Disposition Balance
(million barrels per day, unless otherwise noted)

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Crude Oil										
Domestic Crude Production 1/	5.69	5.42	5.33	5.50	5.54	5.65	5.84	5.88	5.84	5.86
Alaska	0.99	0.91	0.88	0.85	0.83	0.83	0.85	0.83	0.83	0.85
Lower 48 States	4.71	4.51	4.44	4.65	4.71	4.82	4.99	5.05	5.01	5.01
Net Imports	9.65	10.06	10.21	10.18	10.02	10.02	10.02	10.05	10.13	10.25
Gross Imports	9.66	10.09	10.23	10.21	10.05	10.05	10.05	10.08	10.16	10.28
Exports	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Crude Supply 2/	-0.03	0.00	0.11	0.13	0.00	0.00	0.00	0.00	0.00	0.00
Total Crude Supply	15.32	15.48	15.64	15.81	15.56	15.67	15.86	15.93	15.97	16.11
Other Petroleum Supply										
Natural Gas Plant Liquids	1.72	1.81	1.78	1.83	1.71	1.74	1.74	1.75	1.78	1.79
Net Product Imports	1.60	2.05	2.24	2.25	1.94	2.03	2.08	2.28	2.41	2.47
Gross Refined Product Imports 3/	1.85	2.07	2.34	2.33	2.16	2.23	2.28	2.39	2.54	2.56
Unfinished Oil Imports	0.34	0.49	0.44	0.45	0.33	0.34	0.36	0.41	0.41	0.43
Blending Component Imports	0.41	0.41	0.42	0.43	0.43	0.44	0.45	0.46	0.46	0.47
Exports	0.96	0.96	0.96	0.96	0.98	0.98	1.01	0.98	1.01	0.99
Refinery Processing Gain 4/	0.97	1.05	1.08	1.15	1.17	1.23	1.26	1.31	1.34	1.34
Other Inputs	0.44	0.35	0.39	0.40	0.79	0.82	0.87	0.94	1.05	1.14
Liquids from Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquids from Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04
Other 5/	0.44	0.35	0.39	0.40	0.79	0.82	0.87	0.94	1.03	1.10
Total Primary Supply 6/	20.05	20.74	21.14	21.44	21.18	21.49	21.81	22.21	22.55	22.85
Refined Petroleum Products Supplied										
by Fuel										
Motor Gasoline 7/	8.94	9.10	9.16	9.30	9.42	9.57	9.75	9.94	10.10	10.24
Jet Fuel 8/	1.58	1.63	1.64	1.70	1.73	1.77	1.82	1.88	1.94	1.98
Distillate Fuel 9/	3.93	4.06	4.16	4.24	4.36	4.44	4.52	4.61	4.68	4.75
Residual Fuel	0.77	0.87	0.87	0.80	0.74	0.74	0.73	0.73	0.73	0.74
Other 10/	4.84	5.10	5.00	5.12	4.97	4.97	4.98	5.01	5.07	5.11
by Sector										
Residential and Commercial	1.24	1.29	1.30	1.23	1.23	1.23	1.24	1.25	1.25	1.26
Industrial 11/	4.86	5.02	4.97	4.96	5.20	5.20	5.19	5.23	5.27	5.30
Transportation	13.34	13.69	13.79	13.98	14.37	14.64	14.94	15.27	15.57	15.83
Electric Power 12/	0.50	0.49	0.50	0.48	0.41	0.42	0.42	0.43	0.43	0.44
Total	20.05	20.76	20.82	21.16	21.21	21.49	21.80	22.17	22.52	22.82
Discrepancy 13/	-0.01	-0.02	0.32	0.28	-0.03	0.00	0.01	0.03	0.03	0.03
Imported Low Sulfur Light Crude Oil Price (2004 dollars per barrel) 14/	31.72	40.49	55.93	59.10	55.62	52.30	50.14	47.29	47.34	47.65
Imported Crude Oil Price (2004 dollars per barrel) 14/	28.46	35.99	49.70	53.95	51.46	48.98	46.49	43.99	43.78	43.59
Import Share of Product Supplied	0.56	0.58	0.59	0.58	0.56	0.56	0.55	0.56	0.56	0.56
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2004 dollars)	117.53	152.36	192.33	232.41	219.37	209.14	198.04	189.84	192.72	195.12
Domestic Refinery Distillation Capacity 15/	16.8	16.9	17.0	17.0	17.1	17.2	17.4	17.6	17.6	17.7
Capacity Utilization Rate (percent) 16/	93.0	93.0	93.0	94.0	92.4	92.1	92.4	91.9	91.8	92.3

Table 11. Petroleum Supply and Disposition Balance
(million barrels per day, unless otherwise noted)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Crude Oil										
Domestic Crude Production 1/	5.87	5.88	5.84	5.86	5.77	5.69	5.62	5.55	5.44	5.31
Alaska	0.87	0.90	0.89	0.87	0.84	0.82	0.79	0.76	0.70	0.64
Lower 48 States	5.00	4.98	4.95	4.99	4.93	4.87	4.83	4.79	4.75	4.67
Net Imports	10.30	10.35	10.47	10.59	10.81	10.99	11.14	11.26	11.38	11.54
Gross Imports	10.33	10.38	10.50	10.62	10.83	11.02	11.17	11.28	11.41	11.57
Exports	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Crude Supply 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Crude Supply	16.18	16.23	16.31	16.46	16.58	16.68	16.76	16.81	16.83	16.85
Other Petroleum Supply										
Natural Gas Plant Liquids	1.83	1.83	1.88	1.92	1.94	1.95	1.95	1.94	1.93	1.93
Net Product Imports	2.54	2.69	2.76	2.77	2.86	2.98	3.10	3.16	3.23	3.33
Gross Refined Product Imports 3/	2.63	2.76	2.83	2.82	2.90	3.06	3.10	3.13	3.18	3.28
Unfinished Oil Imports	0.44	0.44	0.44	0.45	0.47	0.44	0.51	0.54	0.56	0.55
Blending Component Imports	0.48	0.48	0.49	0.49	0.50	0.51	0.51	0.52	0.52	0.53
Exports	1.01	0.99	1.00	1.00	1.01	1.04	1.02	1.03	1.03	1.03
Refinery Processing Gain 4/	1.36	1.37	1.37	1.38	1.39	1.40	1.42	1.44	1.47	1.49
Other Inputs	1.20	1.23	1.25	1.30	1.33	1.37	1.41	1.52	1.64	1.74
Liquids from Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquids from Coal	0.06	0.07	0.08	0.09	0.10	0.12	0.14	0.23	0.33	0.42
Other 5/	1.14	1.16	1.18	1.21	1.23	1.25	1.27	1.28	1.31	1.32
Total Primary Supply 6/	23.10	23.35	23.57	23.83	24.10	24.38	24.64	24.87	25.10	25.33
Refined Petroleum Products Supplied										
by Fuel										
Motor Gasoline 7/	10.37	10.50	10.63	10.76	10.89	11.03	11.16	11.28	11.40	11.51
Jet Fuel 8/	2.01	2.04	2.06	2.09	2.13	2.16	2.18	2.19	2.20	2.21
Distillate Fuel 9/	4.80	4.86	4.91	4.97	5.03	5.09	5.15	5.21	5.27	5.35
Residual Fuel	0.74	0.75	0.73	0.72	0.73	0.73	0.74	0.74	0.74	0.74
Other 10/	5.14	5.17	5.20	5.25	5.29	5.33	5.36	5.40	5.43	5.47
by Sector										
Residential and Commercial	1.26	1.26	1.26	1.26	1.26	1.26	1.25	1.25	1.25	1.24
Industrial 11/	5.33	5.35	5.37	5.42	5.46	5.50	5.53	5.55	5.59	5.63
Transportation	16.05	16.27	16.48	16.69	16.92	17.16	17.38	17.57	17.77	17.97
Electric Power 12/	0.44	0.44	0.43	0.42	0.42	0.43	0.44	0.43	0.44	0.44
Total	23.07	23.32	23.53	23.79	24.06	24.34	24.59	24.81	25.04	25.28
Discrepancy 13/	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.05
Imported Low Sulfur Light Crude Oil Price (2004 dollars per barrel) 14/	47.37	46.90	47.79	48.20	48.31	49.24	48.37	50.70	50.53	52.50
Imported Crude Oil Price (2004 dollars per barrel) 14/	43.39	43.19	43.00	43.39	43.78	44.19	44.59	44.99	45.59	46.19
Import Share of Product Supplied	0.56	0.56	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2004 dollars)	196.08	198.74	201.18	205.66	211.86	219.41	225.59	231.71	237.34	244.63
Domestic Refinery Distillation Capacity 15/	17.8	17.9	17.9	18.0	18.1	18.1	18.1	18.1	18.2	18.2
Capacity Utilization Rate (percent) 16/	92.4	92.2	92.2	92.5	93.1	93.6	94.0	94.1	94.0	93.9

Table 11. Petroleum Supply and Disposition Balance
(million barrels per day, unless otherwise noted)

	2023	2024	2025	2026	2027	2028	2029	2030	2004-2030
Crude Oil									
Domestic Crude Production 1/	5.23	5.07	4.99	4.91	4.80	4.73	4.63	4.57	-0.7%
Alaska	0.59	0.52	0.47	0.42	0.38	0.34	0.30	0.27	-4.5%
Lower 48 States	4.64	4.55	4.52	4.49	4.42	4.40	4.33	4.30	-0.2%
Net Imports	11.76	12.11	12.33	12.50	12.71	13.01	13.27	13.51	1.1%
Gross Imports	11.78	12.13	12.35	12.52	12.73	13.03	13.29	13.53	1.1%
Exports	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.7%
Other Crude Supply 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Crude Supply	16.99	17.18	17.32	17.40	17.51	17.74	17.90	18.08	0.6%
Other Petroleum Supply									
Natural Gas Plant Liquids	1.93	1.92	1.90	1.90	1.89	1.88	1.87	1.87	0.1%
Net Product Imports	3.34	3.29	3.35	3.47	3.58	3.54	3.62	3.73	2.3%
Gross Refined Product Imports 3/	3.27	3.20	3.25	3.36	3.44	3.36	3.47	3.56	2.1%
Unfinished Oil Imports	0.56	0.58	0.60	0.61	0.64	0.67	0.65	0.66	1.2%
Blending Component Imports	0.53	0.54	0.55	0.55	0.56	0.56	0.57	0.57	1.3%
Exports	1.03	1.04	1.04	1.05	1.05	1.06	1.06	1.07	0.4%
Refinery Processing Gain 4/	1.51	1.59	1.63	1.66	1.72	1.78	1.81	1.82	2.1%
Other Inputs	1.79	1.87	1.92	2.00	2.06	2.12	2.16	2.16	7.2%
Liquids from Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquids from Coal	0.47	0.53	0.58	0.64	0.68	0.72	0.76	0.76	N/A
Other 5/	1.32	1.34	1.34	1.36	1.38	1.40	1.40	1.39	5.4%
Total Primary Supply 6/	25.56	25.85	26.12	26.43	26.76	27.06	27.36	27.65	1.1%
Refined Petroleum Products Supplied by Fuel									
Motor Gasoline 7/	11.62	11.74	11.86	11.99	12.12	12.24	12.37	12.49	1.2%
Jet Fuel 8/	2.21	2.22	2.23	2.24	2.25	2.27	2.29	2.31	1.4%
Distillate Fuel 9/	5.42	5.51	5.59	5.69	5.78	5.88	5.98	6.09	1.6%
Residual Fuel	0.74	0.74	0.75	0.76	0.77	0.78	0.78	0.78	-0.4%
Other 10/	5.50	5.58	5.62	5.68	5.76	5.82	5.86	5.89	0.6%
by Sector									
Residential and Commercial	1.24	1.24	1.23	1.23	1.23	1.23	1.22	1.22	-0.2%
Industrial 11/	5.65	5.73	5.78	5.84	5.92	5.98	6.03	6.06	0.7%
Transportation	18.17	18.38	18.59	18.82	19.06	19.30	19.55	19.81	1.4%
Electric Power 12/	0.44	0.44	0.44	0.46	0.47	0.47	0.47	0.47	-0.1%
Total	25.50	25.78	26.05	26.36	26.68	26.98	27.28	27.57	1.1%
Discrepancy 13/	0.06	0.06	0.07	0.08	0.08	0.08	0.09	0.09	N/A
Imported Low Sulfur Light Crude Oil Price (2004 dollars per barrel) 14/	53.14	52.06	54.08	54.81	55.71	56.34	56.73	56.97	1.3%
Imported Crude Oil Price (2004 dollars per barrel) 14/	46.80	47.39	47.99	48.39	48.80	49.19	49.58	49.99	1.3%
Import Share of Product Supplied	0.59	0.60	0.60	0.60	0.61	0.61	0.62	0.62	0.3%
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2004 dollars)	251.67	260.16	268.22	275.83	284.91	292.20	301.02	310.15	2.8%
Domestic Refinery Distillation Capacity 15/	18.3	18.4	18.5	18.6	18.8	19.0	19.2	19.3	0.5%
Capacity Utilization Rate (percent) 16/	94.2	94.8	95.1	94.7	94.4	94.9	94.8	94.8	0.1%

Table 11. Petroleum Supply and Disposition Balance
(million barrels per day, unless otherwise noted)

- 1/ Includes lease condensate.
 - 2/ Strategic petroleum reserve stock additions plus unaccounted for crude oil and crude stock withdrawals minus crude product supplied.
 - 3/ Includes other hydrocarbons and alcohols.
 - 4/ Represents volumetric gain in refinery distillation and cracking processes.
 - 5/ Includes alcohols, ethers, petroleum product stock withdrawals, domestic sources of blending components, other hydrocarbons, natural gas converted to liquid fuel, and coal converted to liquid fuel.
 - 6/ Total crude supply plus natural gas plant liquids, other inputs, refinery processing gain, and net product imports.
 - 7/ Includes ethanol and ethers blended into gasoline.
 - 8/ Includes only kerosene type.
 - 9/ Includes distillate and kerosene.
 - 10/ Includes aviation gasoline, liquefied petroleum gas, petrochemical feedstocks, lubricants, waxes, asphalt, road oil, still gas, special naphthas, petroleum coke, crude oil product supplied, and miscellaneous petroleum products.
 - 11/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy.
 - 12/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
 - 13/ Balancing item. Includes unaccounted for supply, losses and gains.
 - 14/ Weighted average price delivered to U.S. refiners.
 - 15/ End-of-year operable capacity.
 - 16/ Rate is calculated by dividing the gross annual input to atmospheric crude oil distillation units by their operable refining capacity in barrels per calendar day.
- N/A = Not applicable.
- Note: Totals may not equal sum of components due to independent rounding. Data for 2003 and 2004 are model results and may differ slightly from official EIA data reports.
- Sources: 2003 and 2004 product supplied based on: Energy Information Administration (EIA), Annual Energy Review 2004, DOE/EIA-0384(2004) (Washington, DC, August 2005). Other 2003 data: EIA, Petroleum Supply Annual 2003, DOE/EIA-0340(2003)/1 (Washington, DC, June 2004). Other 2004 data: EIA, Petroleum Supply Annual 2004, DOE/EIA-0340(2004)/1 (Washington, DC, June 2005). 2003 and 2004 world oil price: EIA, Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report." Projections: EIA, AEO2006 National Energy Modeling System run aeo2006.d111905a.