

Oil & natural gas extraction data

Richard Heede
 Climate Mitigation Services
 File started: 11 January 2005
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Murphy Oil Corporation

www.murphyoilcorp.com El Dorado, Arkansas

yellow column indicates original reported units Investor-owned

Production / Extraction data



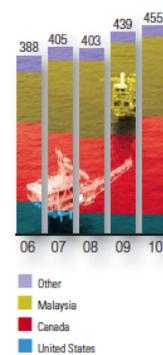
AnnRpt 2010 cover

Year

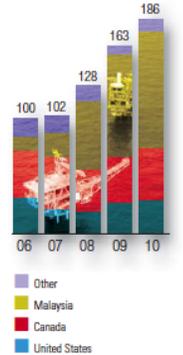
Year	Crude Oil & NGL			Natural Gas			Background data	
	Net production	Net production	Net production	Net production	Net production	Net production	Gross production	Gross production
	thousand bbl /day	Million bbl /yr	Million bbl /yr	million cf/day	Billion cf/yr	Billion cf/yr	Million tons/yr	Million tonnes/yr



Estimated Net Proved Hydrocarbon Reserves (Millions of oil equivalent barrels)



Net Hydrocarbons Produced (Thousands of oil equivalent barrels)



	2010	2009	2008	2007	2006	2005	2004
Net crude oil, condensate and natural gas liquids production - barrels per day							
United States	20,114	17,053	10,668	12,989	21,112	25,997	19,314
Canada - light	43	18	46	596	443	563	650
heavy	5,988	6,813	8,484	11,524	12,613	11,806	5,838
offshore	11,487	12,357	16,826	18,871	14,896	23,124	25,407
synthetic	13,273	12,855	12,546	12,948	11,701	10,593	11,794
Malaysia	66,897	76,322	57,403	20,367	11,298	13,503	11,885
United Kingdom	3,295	3,361	4,869	5,281	7,146	7,992	11,011
Republic of the Congo	5,820	1,743	-	-	-	-	-
Continuing operations	126,927	130,522	110,842	82,576	79,209	93,478	85,899
Discontinued operations	-	1,317	7,412	8,946	8,608	7,871	10,841
Total liquids produced	126,927	131,839	118,254	91,522	87,817	101,349	96,740

Murphy Oil Annual Report 2010, page 2.

1950
1951
1952
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Year	Murphy AnnRpts thousand bbl /day
1997	57.5
1998	59.1
1999	66.1
2000	65.3
2001	67.4
2002	76.4
2003	83.5
2004	96.7
2005	101.3
2006	87.8
2007	91.5
2008	118.3
2009	131.8
2010	126.9

Year	Murphy Oil million bbl /yr	OGJ400	Murphy AnnRpts million cf/day
no data <1983			
20	21		268.7
21	21		230.9
22	19		240.4
23	19		229.4
24	18		281.2
25	18		296.9
26	16		215.3
27	14		140.2
28	11		90.2
29	11		75.3
30	11		61.1
31	13		55.5
32	19		187.3
33	21		356.8
34	20		
35	21		
36	21		
37	22		
38	24		
39	24		
40	25		
41	28		
42	30		
43	35		
44	37		
45	32		
46	33		
47	43		
48	48		
49	46		

Year	Murphy Oil Bcf/yr
no data <1983	
61	61
62	69
63	69
64	67
65	76
66	86
67	93
68	81
69	92
70	101
71	94
72	92
73	82
74	98
75	84
76	88
77	84
78	103
79	108
80	79
81	51
82	33
83	27
84	22
85	20
86	68
87	130

Year	OGJ100 million bbl /yr	OGJ100 Bcf/yr
20.8	61.4	
20.1	61.4	
19.4	69.3	
19.4	69.3	
17.9	66.5	
17.5	75.7	
16.1	86.3	
14.3	93.2	
11.3	80.5	
11.4	92.4	
12.6	101.2	
18.7	94.2	
20.8	92.4	
19.5	82.3	
21.0	100.4	
21.5	84.3	
24.1	87.8	
23.9	84.0	
24.6	84.0	
23.8	103.5	
26.7	108.3	
31.1	78.6	
33.1	51.3	
27.7	32.9	
28.7	28.5	
38.7	24.3	
48.2	23.0	
46.3	68.4	
130.2		

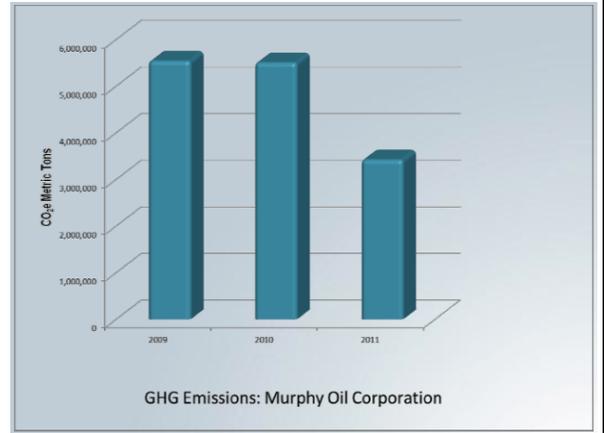
Total	na	689	na	2,122	659	2,132
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Exploration and Production Statistical Summary

	2010	2009	2008	2007	2006	2005	2004
Net crude oil, condensate and natural gas liquids production – barrels per day							
United States	20,114	17,053	10,668	12,989	21,112	25,897	19,314
Canada – light	43	18	46	596	443	563	650
heavy	5,988	6,813	8,484	11,524	12,613	11,806	5,838
offshore	11,497	12,357	16,826	18,871	14,896	23,124	25,407
synthetic	13,273	12,855	12,546	12,948	11,701	10,593	11,794
Malaysia	68,857	76,322	57,403	20,367	11,298	13,503	11,885
United Kingdom	3,295	3,361	4,869	5,281	7,146	7,992	11,011
Republic of the Congo	5,820	1,743	–	–	–	–	–
Continuing operations	126,927	130,522	110,842	82,576	79,209	93,478	85,899
Discontinued operations	–	1,317	7,412	8,946	8,608	7,871	10,841
Total liquids produced	126,927	131,839	118,254	91,522	87,817	101,349	96,740
Net crude oil, condensate and natural gas liquids sold – barrels per day							
United States	20,114	17,053	10,668	12,989	21,112	25,897	19,314
Canada – light	43	18	46	596	443	563	650
heavy	5,988	6,813	8,484	11,524	12,613	11,806	5,838
offshore	11,343	12,455	16,690	18,859	15,360	22,443	26,306
synthetic	13,273	12,855	12,546	12,948	11,701	10,593	11,794
Malaysia	68,975	72,575	61,907	16,018	11,986	13,818	11,020
United Kingdom	4,177	2,445	5,739	5,218	6,678	8,303	10,924
Republic of the Congo	5,428	973	–	–	–	–	–
Continuing operations	129,341	125,187	116,080	78,132	79,893	93,423	85,846
Discontinued operations	–	1,162	7,774	9,470	10,349	9,821	6,520
Total liquids sold	129,341	126,349	123,854	87,602	90,242	103,244	92,366
Net natural gas sold – thousands of cubic feet per day							
United States	53,037	54,255	45,785	45,139	56,810	70,452	88,621
Canada	85,563	54,857	1,910	9,922	9,752	10,323	13,972
Malaysia – Sarawak	154,535	28,070	–	–	–	–	–
Kikih	50,157	46,583	1,399	–	–	–	–
United Kingdom	5,993	3,501	6,424	6,021	8,700	9,423	6,859
Continuing operations	356,801	187,266	55,518	61,082	75,262	90,198	109,452
Discontinued operations	–	–	–	–	–	–	30,760
Total natural gas sold	356,801	187,266	55,518	61,082	75,262	90,198	140,212
Net hydrocarbons produced – equivalent barrels ¹ per day	186,394	163,050	127,507	101,702	100,361	116,382	120,109
Estimated net hydrocarbon reserves – million equivalent barrels ^{1,2}	455.2	439.2	402.8	405.1	388.3	353.6	385.6

Murphy Oil Annual Report 2010, page 5.

Murphy Oil statement on climate change (see cell note)



Asset sales, decreases in production and to a lesser impact emission reduction projects resulted in a decrease in emissions from 2010 to 2011. Murphy Oil and Climate Change Climate Change Activities December 2012.

Exploration and Production Statistical Summary

	2012	2011	2010	2009	2008	2007	2006
Net crude oil, condensate and natural gas liquids production – barrels per day							
United States	26,090	17,148	20,114	17,053	10,668	12,989	21,112
Canada – light	245	83	43	18	46	596	443
heavy	7,241	7,264	5,988	6,813	8,484	11,524	12,613
offshore	6,986	9,204	11,497	12,357	16,826	18,871	14,896
synthetic	13,820	13,498	13,273	12,855	12,546	12,948	11,701
Malaysia	52,663	48,551	68,857	76,322	57,403	20,367	11,298
Republic of the Congo	2,078	4,989	5,820	1,743	–	–	–
Continuing operations	109,133	100,737	123,632	127,161	105,973	77,295	72,063
Discontinued operations	3,458	2,423	3,295	4,678	12,281	14,227	15,754
Total liquids produced	112,591	103,160	126,927	131,839	118,254	91,522	87,817
Net crude oil, condensate and natural gas liquids sold – barrels per day							
United States	26,090	17,148	20,114	17,053	10,668	12,989	21,112
Canada – light	245	83	43	18	46	596	443
heavy	7,241	7,264	5,988	6,813	8,484	11,524	12,613
offshore	7,892	9,079	11,343	12,455	16,690	18,859	15,360
synthetic	13,820	13,498	13,273	12,855	12,546	12,948	11,701
Malaysia	54,286	48,092	68,975	72,575	61,907	16,018	11,986
Republic of the Congo	1,468	3,959	5,428	973	–	–	–
Continuing operations	110,252	99,123	125,164	122,742	110,341	72,914	73,215
Discontinued operations	3,372	2,299	4,177	3,607	13,513	14,688	17,027
Total liquids sold	113,624	101,422	129,341	126,349	123,854	87,602	90,242
Net natural gas sold – thousands of cubic feet per day							
United States	52,962	47,212	53,037	54,255	45,785	45,139	56,810
Canada	217,046	188,787	85,563	54,857	1,910	9,922	9,752
Malaysia – Sarawak	174,283	176,943	154,535	28,070	–	–	–
Kikih	42,462	40,497	50,157	46,583	1,399	–	–
Continuing operations	486,753	453,439	351,292	183,785	48,094	55,061	66,562
Discontinued operations	3,371	3,926	5,509	3,501	6,424	6,021	8,700
Total natural gas sold	490,124	457,365	356,801	187,266	55,518	61,082	75,262
Net hydrocarbons produced – equivalent barrels ¹ per day	194,278	179,388	186,394	163,050	127,507	101,702	100,361
Estimated net hydrocarbon reserves – million equivalent barrels ^{1,2}	604.3	534.1	455.2	439.2	402.8	405.1	388.3

Murphy Oil Annual Report 2012.

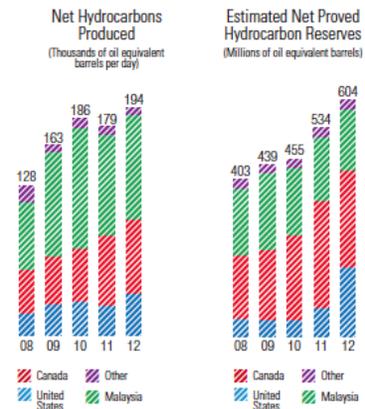
	2012	2011	% Change 2012-2011	2010	% Change 2011-2010
Net Crude Oil and Gas Liquids Produced – barrels per day					
United States	112,591	103,160	9%	126,927	-19%
United States	26,090	17,148	52%	20,114	-15%
Canada	28,302	30,049	-6%	30,801	-2%
Malaysia	52,663	48,551	8%	66,897	-27%
Other International	5,536	7,412	-25%	9,115	-19%
Net Natural Gas Sold – thousands of cubic feet per day					
United States	490,124	457,365	7%	356,801	28%
United States	52,962	47,212	12%	53,037	-11%
Canada	217,046	188,787	15%	85,563	121%
Malaysia	216,745	217,440	0%	212,692	2%
United Kingdom	3,371	3,926	-14%	5,509	-29%
Petroleum Products Sold – barrels per day					
United States	474,949	556,434	-15%	536,757	4%
United States	337,900	420,737	-20%	450,100	-7%
United Kingdom	137,049	135,697	1%	86,657	57%

Murphy Oil Annual Report 2012, page 2.

Refining and Marketing Statistical Summary

	2012	2011	2010	2009	2008	2007	2006
Branded retail refueling stations ¹							
United States – Murphy USA [®]	1,015	1,003	1,001	996	992	971	987
Murphy Express	150	125	98	52	33	2	–
Other	–	–	116	121	129	153	177
Total United States	1,165	1,128	1,215	1,169	1,154	1,126	1,164
United Kingdom	452	459	451	453	454	389	402
United States retail marketing:							
Fuel margin per gallon ²	\$ 0.129	0.156	0.114	0.083	0.165	0.103	0.104
Gallons sold per store month	277,001	277,715	306,646	312,493	324,223	294,784	285,665
Merchandise sales revenue per store month	\$ 156,429	158,144	153,530	137,823	110,943	97,523	80,598
Merchandise margin as a percentage of merchandise sales	13.5%	12.8%	13.1%	12.5%	13.5%	13.2%	13.3%
United Kingdom refining and marketing – Unit margins per barrel	\$ 1.94	(0.67)	(1.47)	(0.28)	3.41	(1.48)	4.43
Petroleum products sold – barrels per day							
United States – Gasoline	289,650	312,945	333,182	319,549	313,827	298,833	266,353
Kerosene	146	11,864	11,449	11,928	4,606	1,885	2,289
Diesel and home heating oils	48,104	74,410	77,799	76,598	86,533	91,344	62,196
Residuals	–	12,818	18,015	15,501	14,827	15,422	11,698
Asphalt, LPG and other	–	8,900	9,655	9,123	7,287	9,384	8,087
Total United States	337,800	420,737	450,100	432,700	427,490	416,668	350,601
United Kingdom – Gasoline	47,087	36,757	23,085	30,007	34,125	14,356	12,425
Kerosene	12,273	16,298	11,387	12,554	14,825	4,020	3,519
Diesel and home heating oils	48,595	48,893	29,710	35,721	34,960	14,785	11,803
Residuals	13,744	14,427	7,885	10,560	12,744	3,728	3,825
LPG and other	10,350	20,322	14,590	14,532	15,246	4,213	2,998
Total United Kingdom	137,049	135,697	86,657	103,714	111,510	41,102	34,670
Total petroleum products sold	474,949	556,434	536,757	536,414	539,000	457,770	385,271

Murphy Oil Annual Report 2012.



Murphy Annual Report 2012

Cell: I9

Comment: Rick Heede:

"The Company, headquartered in El Dorado, Arkansas, was originally incorporated in Louisiana in 1950 as Murphy Corporation. It was reincorporated in Delaware in 1964, at which time it adopted the name Murphy Oil Corporation. But, the Company's roots go back to a lumber and banking business in South Arkansas and, more directly, to 1907, when the first oil production was established in the Caddo Field in North Louisiana. Thereafter, oil and gas were important phases of the business. Until the mid 1930's however, oil and gas remained subordinate to timber operations and banking. Today, Murphy Oil Corporation is a worldwide oil and gas exploration and production company with marketing operations in the United States and the United Kingdom, including a refinery in Milford Haven, Wales. The Company's farm, timber and real estate subsidiary was spun-off to shareholders in 1996 and is now known as Deltic Timber Corporation. Business activities are conducted by wholly-owned subsidiaries while Murphy Oil Corporation acts as a holding company. Murphy Exploration & Production Company, (Murphy EXPRO) is engaged worldwide in crude oil and natural gas exploration and production. Murphy EXPRO is headquartered in Houston, Texas. Murphy Oil USA, Inc., (MOUSA) is engaged in marketing and transportation of petroleum products in the United States. It is headquartered in El Dorado at Murphy's corporate offices. A division of MOUSA, Murphy USA Marketing Co., operates retail gasoline stations under the Murphy USA® brand across 23 states in the U.S. These are high-volume, low-cost retail gasoline stations, primarily in the parking areas of Wal-Mart Supercenters. The first Murphy USA station was opened in December 1996. MOUSA also operates a network of 6 terminals. These terminals, along with numerous third-party terminals, provide fuel supply to our retail network and wholesale customers throughout 23 states. Murphy Oil Company, Ltd., (MOCL) is engaged in crude oil and natural gas exploration and production and the extraction and sale of synthetic crude oil. MOCL's headquarters are located in Calgary, Alberta, Canada. Murphy Eastern Oil Company, (MEOC) provides technical and professional services to certain of Murphy Oil Corporation's subsidiaries engaged in crude oil and natural gas exploration and production in the Eastern Hemisphere, and refining, marketing and transporting of petroleum products in the United Kingdom primarily under the MURCO® brand. The Company owns a 130,000 barrel-a-day refinery in the Milford Haven, Wales. MEOC is headquartered in St. Albans, Hertfordshire, England. Murphy Sarawak Oil Co.Ltd., Murphy Sabah Oil Co. Ltd., Murphy Peninsular Malaysia Oil Co. Ltd. In 1999, Murphy opened an office in Kuala Lumpur to oversee its E&P activities in Malaysia. Strategic investments in Malaysia are done through these subsidiaries." www.murphyoilcorp.com/about/default.aspx (April 2012)

Cell: D11

Comment: Rick Heede:

On this worksheet we report extractive data for each company or state-owned enterprise. Three columns under crude oil and natural gas allow for data reported in one of three formats (e.g., thousand barrels per day, or million barrels per year, or million tonnes per year). Coal is normally reported in U.S. or metric tonnes per year.

Note: the carbon content of the extracted resources is adjusted by a number of factors before emissions estimates are made in the worksheet 1 to the left. Most important is the subtraction of the fraction typically sequestered in petrochemicals and other non-combusted uses such as road oils, waxes, lubricants, greases, etc. See the comment for each extracted resource for detailed discussions of the combusted vs sequestered fractions.

Cell: H12

Comment: Rick Heede:

Natural gas is typically reported as dry gas; natural gas liquids are reported under crude oil.

Carbon dioxide is normally removed from the gas flow at the production site (see "Vented Carbon Dioxide").

"SCM/d" = standard cubic meters per day. "cf/d" = cubic feet per day.

Cell: F50

Comment: Rick Heede:

CMS cites OGJ400 crude oil production data for 1983-1996, in million bbl per year.

Cell: J50

Comment: Rick Heede:

CMS cites OGJ400 natural gas production data for 1983-1996, in billion cf per year.

Cell: M50

Comment: Rick Heede:

No gas production data in OGJ400 for 1983; CMS assumes 95 percent of 1984 production.

Cell: D64

Comment: Rick Heede:

Murphy Annual report 2001, page 9, "net crude oil, condensate, and NGLs production, bbl per day" for 1997-2001.

Cell: F64

Comment: Rick Heede:

Murphy Oil Corp AnnRpts 2001 and 2008 for 1997-2008 data. Plus 2010 AnnRpt.

Cell: H64

Comment: Rick Heede:

Murphy Annual report 2001, page 9, "net natural gas sold" - million cf per day for 1997-2001.

Cell: J64

Comment: Rick Heede:

Murphy Oil Corp AnnRpts 2001 and 2008 for 1997-2008 data. 2009 and 2010 from AnnRpt 2010.

Cell: D69

Comment: Rick Heede:

Murphy Annual report 2008, page 6, "net crude oil, condensate, and NGLs production, bbl per day" for 2002-2008.

Cell: H69

Comment: Rick Heede:

Murphy Annual report 2008, page 6, "net natural gas sold" - million cf per day for 2002-2008.

Cell: D76

Comment: Rick Heede:

AR 2010 pg 7 total liquids produced

Cell: H76

Comment: Rick Heede:

AR 2010 pg 7 total natural gas sold; big jump from 2008 noted; sales figures for 2004-2008 consistent with AR 2010

Cell: L87

Comment: Rick Heede:

CLIMATE CHANGE

On issues of global warming and climate change, Murphy shares the concerns of our shareholders, employees and community. As a company, we recognize that our planet has experienced periods of global warming as well as global cooling.

Murphy

As of 2012, nine of the previous 12 years have been the warmest of the 21st century since modern records began in 1861. According to NASA's Goddard Institute, 2005 was the warmest year on record, and while the data is incomplete, 2010 appears to have sustained this trend.

The need to advance our knowledge notwithstanding, it is incumbent upon all of us to do what is possible to mitigate the potential impact of greenhouse gases (GHG) on our environment, as well as prepare to adapt to unavoidable changes in the climate system.

Murphy, in consultation with some of the foremost climate experts and scientists in the world that have been studying the issue for nearly a decade, developed in 2008, a corporate set of "Guiding Principles for Climate Change", that is current today, to assist Murphy in communicating to our employees, the public and policy makers our position as climate change events unfold throughout the world. We are a financial sponsor and actively participate in the Massachusetts Institute of Technology Joint Program on the Science and Policy of Global Change since 1998.

With this in mind, Murphy has initiated a series of actions designed to produce a measured and verifiable inventory of greenhouse gas emissions. We began in 2001 and have continued a program of conducting and establishing verifiable, third party measurement of our greenhouse gas emissions annually. Refinement of our emission surveys have continued through the years. A three-year (2009-2011) emission trend and review of Murphy climate change initiatives can be reviewed here. Murphy continues to evaluate a number of cost effective initiatives designed to reduce our greenhouse gas emissions. As these initiatives are implemented, we will monitor our progress through annual emission surveys.

While our program is clearly nascent, we believe with the advent of new technologies and programs such as carbon sequestration, various offsets and trading mechanisms, and reduced flaring, it may be possible for Murphy to continue reducing greenhouse gas emissions on an absolute basis despite growth in our upstream operations. This will benefit not just our shareholders, but our community and world at large.

www.murphyoilcorp.com/Responsibility/Health-Safety-Environment/#Environment

Viewed 24 September 2013