

Oil & natural gas extraction data

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 Climate Mitigation Services
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Wintershall Dea

Kessel, Germany www.wintershall.com

yellow column indicates original reported units **Investor-owned**

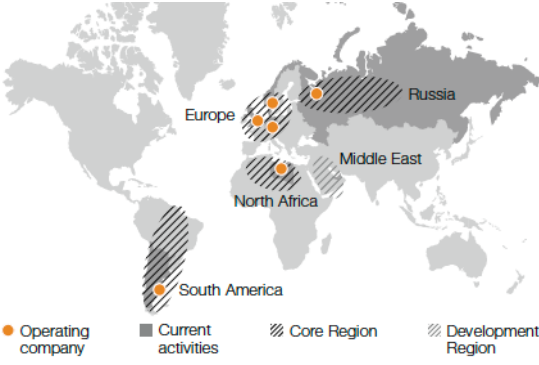
Production / Extraction data

Year

Year	Crude Oil & NGL			Natural Gas			Million tons/yr	Million tonnes/yr
	Net production	Net production	Net production	Net production	Net production	Net production		
	Thousand bbl /d	Million bbl /yr	Million tonnes/yr	Million cf/d	Million SCM/d	Billion cf/yr		

- 13 1950
- 14 1951
- 15 1952
- 16 1953
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- 75 2012
- 76 2013
- 77 2014
- 78 2015
- 79 2016
- 80 2017
- 81 2018

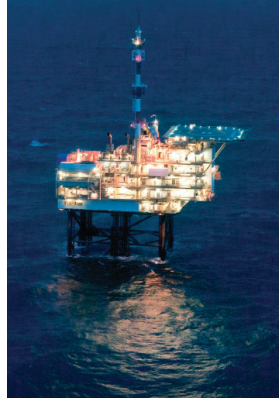
Wintershall established in 1894 (salt mining) first oil in 1917.
 Wholly-owned subsidiary of BASF



BASF Factbook 2015 page 74



BASF Factbook 2017, p66; offshore Argentina



BASF Factbook 2015, p. 72; North Sea.

Wintershall	DEA	Wintershall	Wintershall	DEA	Wintershall
Crude oil	Crude oil	Crude oil	Natural Gas	Natural Gas	Natural Gas
Mb	Mb	Mb	Bcf	Bcf	Bcf

Year	Wintershall (Mb)	DEA (Mb)	Wintershall (Mb)	Wintershall (Bcf)	DEA (Bcf)	Wintershall (Bcf)	Notes
1998	53	BASF 20-F	53	71		71	BASF 20-F
1999	55	BASF 20-F	55	135		135	BASF 20-F
2000	56	BASF 20-F	56	145		145	BASF 20-F
2001	60	BASF 20-F	60	186		186	BASF 20-F
2002	60	BASF 20-F	60	189		189	BASF 20-F
2003	65	BASF 20-F	65	228		228	BASF 20-F
2004	64	BASF 20-F	64	258		258	BASF 20-F
2005	65	BASF 20-F	65	272		272	BASF 20-F
2006	63		63	278	105	278	BASF 20-F & OGJ100
2007	64		64	291	114	291	OGJ100, Sep2008
2008	57	interpolated	57	402	interpolated	402	OGJ100
2009	50	15	50	512	99	512	OGJ100
2010	43	15	43	541	95	541	OGJ100
2011	52	16	52	296	92	296	OGJ100
2012	59	15	59	291	88	291	OG 2012 prodn: 126 Mboe (no detail)
2013	56	15	56	388	92	388	2013 prodn: 132 Mboe (no detail)
2014	54	interpolated	54	485	interpolated	485	2014 prodn: 136 Mboe (no detail)
2015	51	interpolated	51	582	interpolated	582	2015 prodn: 153 Mboe (no detail)
2016	48		48	679	171	679	2016 prodn: 165 Mboe (no detail)
2017	50	18	50	661	168	661	2017 prodn: 164 Mboe (no detail)
2018	54		54	702		702	2018 prodn: 171 Mboe (no detail)
Total	na	na	1,179	na	na	7,590	-

Cell: H9**Comment:** Rick Heede:

Wintershall Dea's roots reach back more than 100 years: Its predecessor companies Wintershall and DEA Deutsche Erdoel AG were among the pioneers of the German oil and gas industry. Both companies repeatedly made a mark with their technical know-how and skills and also enhanced their portfolio systematically. From the second half of the 20th century on, they increasingly became international players and secured challenging concessions worldwide. They have continued on that path together since the merger in 2019.

Cell: M11**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 short tons or metric tonnes per year. The subtraction of the fraction typically sequestered in petrochemicals and other non-combusted uses such as road oils, waxes, lubricants, greases, etc. Non-fuel uses are accounted for in the emission factors and applied to each entity in the oil, gas, and coal summary worksheets.

Cell: F12**Comment:** Rick Heede:

Total net worldwide crude oil plus natural gas liquids produced by each company or state-owned enterprise. Where data is available, we list net production (after royalty production is deducted). We rely on company annual reports, Form 10-k, or other company data where available. In some cases -- particularly for state-owned oil and gas companies -- we use production data from the Oil & Gas Journal in its OGJ150 and OGJ100. Crude production includes natural gas liquids (NGL) unless noted.

Cell: J12**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. Net production typically excludes a number of diverted gas streams. Quantities and fractions vary; ExxonMobil's exclusions are typical of the industry: "Net production available for sale quantities are the volumes withdrawn from ... natural gas reserves, excluding royalties and volumes due to others when produced, and excluding gas purchased from others, gas consumed in producing operations, field processing plant losses, volumes used for gas lift, gas injections and cycling operations, quantities flared, and volume shrinkage due to the removal of condensate or natural gas liquids production." ExxonMobil Corporation (2004) 2003 Financial and Operating Review, www.exxonmobil.com, p. 55.

Cell: D65**Comment:** Rick Heede:

BASF Form 20-F for 2001, page 84 (see table below), oil production 1998-2000, in Mb per year. And natural gas, in Bcf.

Cell: D68**Comment:** Rick Heede:

BASF Form 20-F for 2003, page60. Oil production for 2001-2003, in Mb per year, and natural gas in Bcf.

Cell: D71**Comment:** Rick Heede:

BASF Form 20-F for 2006, page F-79. CAI did not find production table, and used "production" by year in proved oil and gas reserves for 2004-2006. Oil in Mb and gas in Bcf.

Cell: D78**Comment:** Rick Heede:

Oil & Gas Journal OJ100, September 2013. CAI enters production data for Wintershall and RWE Dea AG, in Mb of oil and Bcf of natural gas.

Cell: D83**Comment:** Rick Heede:

Oil & Gas Journal OJ100, September 2018, page 42. CAI enters production data for Wintershall and RWE Dea AG --which merged in tk 2019. Oil in Mb per year.

Cell: H83**Comment:** Rick Heede:

Oil & Gas Journal OJ100, September 2018, page 42. CAI enters production data for Wintershall and RWE Dea AG --which merged in tk 2019. Natural gas in Bcf per year.

Cell: L85**Comment:** Rick Heede:

BASF Report 2018, page 271 reports oil production in 2018 at 54 Mb, and natural gas production as 117 Mboe. BASF does not state its gas boe factor, but using the common factor of 6,000 cf per bbl this is equivalent to 702 Bcf. Furthermore, gas represents 117 of total 171 Mboe, or 68.42%.