

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y								
1																																
2	Production		Summary of oil & NGL production entered on entity worksheets																													
3			Richard Heede Climate Mitigation Services 17-May-13		Copyright Climate Mitigation Services																											
4			1870s										1880s																			
5			1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889									
6			70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%								
7			Crude Oil & NGL		Notes																											
8					Commissioned?																											
9	1	Abu Dhabi National Oil (ADNOC), UAE			yes																											
10	2	Anadarko, USA			yes																											
11	3	Apache, USA			yes																											
12	4	Bahrain Petroleum Corporation			yes																											
13	5	BG Group (British Gas), UK			yes																											
14	6	BHP Billiton, Australia			yes																											
15	7	BP, UK			yes																											
16	8	Canadian Natural Resources, Canada			yes																											
17	9	Chevron, USA (Texaco, Gulf, Unocal, etc)			yes																											
18	10	CNOOC (China National Offshore Oil), China			yes																											
19	11	ConocoPhillips, USA			yes																											
20	12	Devon Energy, USA			yes																											
21	13	Ecopetrol, Colombia			yes																											
22	14	Egyptian General Petroleum, Egypt			yes																											
23	15	EnCana, Canada			yes																											
24	16	ENI, Italy			yes																											
25	17	ExxonMobil, USA			yes		0.1 0.2 0.3 0.4 1 1																									
26	18	Former Soviet Union (FSU)			yes																											
27	19	Gazprom, Russian Federation			yes																											
28	20	Hess, USA			yes																											
29	21	Husky, Canada			yes																											
30	22	Iraq National Oil Company, Iraq			yes																											
31	23	Kuwait Petroleum Corp., Kuwait			yes																											
32	24	Libya National Oil Corp., Libya			yes																											
33	25	Lukoil, Russian Federation			yes																											
34	26	Marathon, USA			yes																											
35	27	Murphy Oil, USA			yes																											
36	28	Nexen, Canada			yes																											
37	29	National Iranian Oil Company (NIOC), Iran			yes																											
38	30	Nigerian National Petroleum, Nigeria			yes																											
39	31	Occidental, USA			yes																											
40	32	Oil and Natural Gas Corporation, India			yes																											
41	33	OMV Group, Austria			yes																											
42	34	Pertamina, Indonesia			yes																											
43	35	PetroChina (CNPC), China			yes																											
44	36	Petroleo Brasileiro (Petrobras), Brazil			yes																											
45	37	Petroleos de Venezuela, Venezuela			yes																											
46	38	Petroleos Mexicanos (PEMEX), Mexico			yes																											
47	39	Petroleum Development Oman, Oman			yes																											
48	40	Petronas, Malaysia			yes																											
49	41	Polish Oil & Gas, Poland			yes																											
50	42	Qatar Petroleum, Qatar			yes																											
51	43	Repsol, Spain			yes																											
52	44	Rosneft, Russian Federation			yes																											
53	45	Royal Dutch Shell plc, The Netherlands			yes																											
54	46	Saudi Aramco, Saudi Arabia			yes																											
55	47	Sinopec, China			yes																											
56	48	Sonangol, Angola			yes																											
57	49	Sonatrach, Algeria			yes																											
58	50	Statoll, Norway			yes																											
59	51	Suncor / Petro-Canada, Canada			yes																											
60	52	Syrian Petroleum, Syria			yes																											
61	53	Talisman, Canada			yes																											
62	54	Total, France			yes																											
63	55	Yukos, Russian Federation			yes																											
64		Annual oil & NGL prod'n by identified entities:					0 0 0 0 1 1																									
65		Annual world oil & NGL supplied 1960-2010																														
66		Percent identified prod'n of global prod'n																														
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7	1890s									1900s									1910s									
8	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	
9	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
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134																												

	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	
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5	Climate Mitigation Services																											
6	17-May-13																											
7	1910s					1920s										1930s								1940s				
8	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	
9																												
10	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	
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122	68	55	77	103	125	155	229	242	258	335	399	457	501	538	490	504	540	635	701	765	941	1,008	999	1,020	1,081	1,032	1,201	
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134																												

	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	
1	Summary of oil & NGL production entered on entity worksheets																								
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3																									
4											Richard Heede Climate Mitigation Services 17-May-13														
5																									
6																									
7	1940s					1950s										1960s									
8	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	
9																									
10	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	
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21																									
22	183	215	254	270	323	321	444	404	353	405	428	539	586	579	664	691	774	819	878	921	1,041	1,107	1,236	1,342	
23																									
24	380	418	450	480	544	543	649	781	833	874	913	1,016	1,110	1,228	1,283	1,362	1,497	1,634	1,780	1,883	1,984	2,188	2,406	2,640	
25																									
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27																									
28	52	58	117	122	133	122	142	165	170	176	182	197	216	228	226	260	274	281	301	322	345	376	401	411	
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43																									
44	393	425	468	518	533	473	576	687	734	764	788	881	971	995	974	1,025	1,058	1,140	1,253	1,387	1,503	1,630	1,732	1,872	
45																									
46						73	91	110	128	146	183	237	292	456	548	639	730	840	986	1,132	1,278	1,369	1,478	1,606	
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62	32	32	31	33	35	29	31	35	36	38	36	38	40	39	37	40	40	43	48	55	66	75	85	85	
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68	10	13	14	15	19	20	24	83	6	11	26	118	193	259	296	333	391	438	485	544	624	697	777	949	
69																									
70																									
71																0	1	2	2	3	4	10	15	12	
72																									
73																0.4	20	40	60	80	100	120	140	160	180
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98																									
99																									
100	206	216	239	293	351	324	367	429	466	481	455	497	550	603	568	639	642	651	711	730	808	874	967	994	
101																									
102	0.8	2	6	9	14	17	20	28	30	31	35	35	36	36	37	40	46	52	58	64	70	81	97	106	
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118																									
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120																									
121	1,445	1,606	1,822	2,004	2,235	2,214	2,654	3,056	3,111	3,302	3,439	3,977	4,441	4,901	5,174	5,701	6,327	6,834	7,555	8,190	9,035	9,820	10,966	11,853	
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123																		7,661	8,194	8,888	9,537	10,286	11,070	12,030	12,917
124																									
125																									
126																		78.6%	79.4%	81.0%	81.8%	83.7%	84.5%	86.8%	87.4%
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132	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	
133																									
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Cell: ET10

Comment: Rick Heede:
CMS may disaggregate oil and gas production in Angola from Sonangol prior to the creation of the State Owned Energy enterprise in 1976.

Cell: DR112

Comment: Rick Heede:
A Russian court declared Yukos bankrupt 1 Aug 2006

Cell: DW116

Comment: Rick Heede:
A Russian court declared Yukos bankrupt 1 Aug 2006

Cell: BN124

Comment: Rick Heede:
World production in 1930 from Howarth (1997) A Century in Oil, p. 157. 3.86 million bbl per day = 1,409 million bbl per year.

Cell: DK124

Comment: Rick Heede:
Crude Oil 1960-1979 plus NGPL 1973-1979 from EIA Annual Energy Report 2008 Tables 11.5 and 11.6. See rows 146-150 for details.

Cell: EP124

Comment: Rick Heede:
U.S. Energy Information administration data for 1980-2010. Sum of crude oil & lease condensate production, natural gas plant liquids, and other liquids (unclear, even though defined below, oil sand production is included in crude oil).

Cell: ET124

Comment: Rick Heede (Jan10):
Energy Information Administration (2008) International Energy Annual 2006, Table 2.2 World Crude Oil including Lease Condensate Production, 1980-2006 (Thousand Barrels per Day)

Cell: EU131

Comment: Rick Heede:

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Comment: Rick Heede:

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