

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													Copyright Climate Mitigation Services																		
4			Climate Mitigation Services																															
5			17-May-13																															
6																																		
7	Crude Oil & NGL		Notes		1870s										1880s																			
8					1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889									
9																																		
10			Commissioned?			70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%										
11																																		
12			Abu Dhabi National Oil (ADNOC), UAE		yes																													
13			Anadarko, USA		yes																													
14			Apache, USA		yes																													
15			Bahrain Petroleum Corporation		yes																													
16			BG Group (British Gas), UK		yes																													
17			BHP Billiton, Australia		yes																													
18			BP, UK		yes																													
19			Canadian Natural Resources, Canada		yes																													
20			Chevron, USA (Texaco, Gulf, Unocal, etc)		yes																													
21			CNOOC (China National Offshore Oil), China		yes																													
22			ConocoPhillips, USA		yes																													
23			Devon Energy, USA		yes																													
24			Ecopetrol, Colombia		yes																													
25			Egyptian General Petroleum, Egypt		yes																													
26			EnCana, Canada		yes																													
27			ENI, Italy		yes																													
28			ExxonMobil, USA		yes																													
29			Former Soviet Union (FSU)		yes																													
30			Gazprom, Russian Federation		yes																													
31			Hess, USA		yes																													
32			Husky, Canada		yes																													
33			Iraq National Oil Company, Iraq		yes																													
34			Kuwait Petroleum Corp., Kuwait		yes																													
35			Libya National Oil Corp., Libya		yes																													
36			Lukoil, Russian Federation		yes																													
37			Marathon, USA		yes																													
38			Murphy Oil, USA		yes																													
39			Nexen, Canada		yes																													
40			National Iranian Oil Company (NIOC), Iran		yes																													
41			Nigerian National Petroleum, Nigeria		yes																													
42			Occidental, USA		yes																													
43			Oil and Natural Gas Corporation, India		yes																													
44			OMV Group, Austria		yes																													
45			Pertamina, Indonesia		yes																													
46			PetroChina (CNPC), China		yes																													
47			Petroleio Brasileiro (Petrobras), Brazil		yes																													
48			Petroleos de Venezuela, Venezuela		yes																													
49			Petroleos Mexicanos (PEMEX), Mexico		yes																													
50			Petroleum Development Oman, Oman		yes																													
51			Petronas, Malaysia		yes																													
52			Polish Oil & Gas, Poland		yes																													
53			Qatar Petroleum, Qatar		yes																													
54			Repsol, Spain		yes																													
55			Rosneft, Russian Federation		yes																													
56			Royal Dutch Shell plc, The Netherlands		yes																													
57			Saudi Aramco, Saudi Arabia		yes																													
58			Sinopec, China		yes																													
59			Sonangol, Angola		yes																													
60			Sonatrach, Algeria		yes																													
61			Statoll, Norway		yes																													
62			Suncor / Petro-Canada, Canada		yes																													
63			Syrian Petroleum, Syria		yes																													
64			Talisman, Canada		yes																													
65			Total, France		yes																													
66			Yukos, Russian Federation		yes																													
67			Annual oil & NGL prod'n by identified entities:																				0		0		0		0		1		1	
68			Annual world oil & NGL supplied 1960-2010																															
69			Percent identified prod'n of global prod'n																															
70					1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889									
71																																		

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ																												
1	<div style="text-align: center; background-color: yellow; border: 1px solid black; padding: 5px;"> <p>Summary of oil & NGL production entered on entity worksheets</p> <div style="background-color: cyan; padding: 2px;">Richard Heede Climate Mitigation Services</div> <div style="background-color: cyan; padding: 2px;">17-May-13</div> </div>																																																						
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	
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%	70%
24																																																			4	5	6	7	
28																																									6	5	7	4	4										
44	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	7	8	9	10	11	13	14	15	14	15	18	19																												
100		0.1	0.2	0.7	0.9	1	3	3	1	1	1	1	1	2	2	1	5	7	5	6	8	8	17	28	9	6	35																												
122	1	1	2	2	3	3	4	7	7	5	5	6	7	7	8	8	13	16	15	17	21	22	38	52	36	34	64																												
133	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																												

	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	
1	Summary of oil & NGL production entered on entity worksheets																											
2																												
3																												
4	Richard Heede Climate Mitigation Services																											
5	17-May-13																											
6																												
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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25																												
26																												
27																												
28	3	3	3	4	4	8	17	15	14	53	55	55	65	102	96	99	100	105	121	131	209	240	251	276	278	260	308	
29																												
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44	22	27	33	38	39	43	57	75	76	86	88	96	111	113	110	138	177	216	232	250	288	270	297	274	304	224	302	
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100	35	17	30	44	54	66	107	98	94	104	124	161	177	170	150	153	160	176	194	206	234	218	162	170	178	187	196	
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121																												
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	
123																												
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130																												
131																												
132																												
133	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	
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																							
2																								
3																								
4	dataset marker												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%
11																								
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13																								
14		27	29	33	38	32	35	41	42	43	40	46	52	58	63	69	75	80	86	92	97	103	109	114
15																								
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18																								
19																								
20																								
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																								
26																								
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
29																								
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42																								
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																								
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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
63																								
64																								
65																								
66																								
67																								
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																								
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86	60	62	65	68	70	73	75	78	81	85	88	92	95	99	102	106	109	117	122	126	129	139	136	150
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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
103																								
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117	129	138	148	158	168	178	188	198	208	218	228	238	248	258	268	277	287	297	307	317	327	337	347	357
118																								
119																								
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
122																								
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130																								
131																								
132																								
133	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
134																								

7,661 8,194 8,888 9,537 10,286 11,070 12,030 12,917
78.6% 79.4% 81.0% 81.8% 83.7% 84.5% 86.8% 87.4%

Oil Production

	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	
1	Summary of oil & NGL production entered on entity worksheets																									
2																										
3																										
4																										
5	dataset marker				Richard Heede Climate Mitigation Services 17-May-13																					
6																										
7	1970s												1980s						1990s							
8	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
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%	
11																										
12	18	22	26	34	38	118	302	301	347	362	317	323	294	248	200	186	180	174	285	395	379	537	596	723	672	
13																										
14	129	139	136	132	129	126	122	119	115	112	109	105	102	99	95	92	89	132	129	118	118	116	115	119	119	
15																										
16																		2	2	2	2	3	3	8	13	
17																										
18	3	3	3	3	3	2	2	12	13	17	15	14	20	20	19	19	18	18	19	14	16	16	14	14	39	
19																										
20																		1	16	20	23	20				
21																										
22				5	35	55	57	70	69	74	76	80	79	79	74	160	180	93	102	93	93	93	82	104	113	71
23																										
24	1,478	1,633	1,863	2,017	2,198	2,203	2,067	1,727	1,741	1,800	2,086	1,826	1,508	1,460	1,438	1,377	1,325	1,257	1,184	1,207	993	945	892	842	811	
25																										
26																					0	1	2	3		
27																										
28	2,864	3,109	3,400	3,468	3,731	3,913	3,867	2,869	2,968	2,886	2,664	2,666	2,491	2,363	1,684	1,409	1,051	917	912	871	809	710	686	694	660	
29																										
30																		1	0	16	32	47				
31																										
32	433	455	500	496	512	503	436	434	431	447	478	473	473	444	438	451	405	395	398	393	417	405	407	401	403	
33																										
34																		1	1	47	53	61				
35																										
36																		28	138	147	160	157	160			
37																										
38	6	9	12	11	8	6	6	9	62	79	93	101	114	114	128	140	158	170	156	171	164	169	170	171	167	
39																										
40																		24	29	31	39	40	47			
41																										
42	51	60	68	86	106	137	108	105	115	112	129	126	121	87	90	92	104	104	103	126	139	158	176	178	189	
43																										
44	2,047	2,112	2,299	2,398	2,566	2,533	2,121	1,869	1,525	1,642	1,545	1,618	1,342	705	715	802	859	910	921	929	937	907	868	901	900	
45																										
46	1,734	1,843	1,953	2,099	2,208	2,373	2,482	2,738	2,957	3,139	3,431	3,614	4,377	4,435	4,463	4,490	4,453	4,356	4,502	4,555	4,564	4,431	4,161	3,800		
47																										
48																					86	88	87	84		
49																										
50	101	99	97	86	84	78	58	57	62	65	64	70	65	64	63	62	61	57	57	50	53	56	63	73	82	
51																										
52																		18	20	18	16	17				
53																										
54	329	333	339	370	322	442	431	495	530	515	561	762	552	220	223	221	266	316	372	457	592	646	453	67	93	
55																										
56	95	101	109	117	195	358	745	759	785	719	777	913	639	463	302	301	399	365	442	371	439	581	388	50	383	
57																										
58	95	113	230	300	340	356	302	351	403	459	484	509	467	300	304	290	287	277	272	256	308	303	360	389	376	
59																										
60																										
61																										
62	98	108	124	120	118	114	102	97	106	114	109	111	108	104	101	98	95	92	92	80	81	76	72	71	61	
63																										
64														21	20	19	19	18	18	16	14	11	11			
65																										
66																		9	9	8	12	12	13			
67																										
68	1,037	1,234	1,398	1,657	1,832	2,139	2,197	1,953	2,146	2,066	1,913	1,157	610	507	811	894	797	825	748	843	820	1,076	1,145	1,226	1,261	
69																										
70	5	20	40	140	166	187	206	163	189	190	173	357	450	314	284	272	304	327	321	294	318	376	396	414	426	
71																										
72	201	221	241	214	139	92	61	52	64	92	119	129	108	97	103	154	113	119	119	110	85	72	80	72	73	
73																										
74	44	52	53	52	57	55	56	62	65	73	82	89	66	119	143	176	190	227	232	222	232	247	243	227	204	
75																										
76																										
77																										
78	112	138	159	166	201	249	256	243	280	314	304	296	307	316	264	267	277	255	264	222	492	514	534	581	491	
79																										
80																		167	1,001	1,011	1,022	1,035				
81																										
82	58	63	60	62	61	62	65	63	61	58	58	60	66	78	95	120	171	203	215	215	211	225	239	236	238	
83																										
84	131	131	135	130	118	123	109	86	836	818	792	861	813	787	714	678	677	635	688	560	695	696	766	867	865	
85																										
86	161	168	178	177	184	191	238	294	326	406	485	537	709	844	858	872	886	899	913	927	917	917	964	1,013	973	
87																										
88	9	12	12	11	10	64	64	85	79	74	69	65	62	69	71	82	89	107	121	125	132	135	143	146	152	
89																										
90							27	32	55	61	72	93	93	87	101	120	148	148	169	175	191	206	238	238	241	
91																										
92																										
93																										
94	12	13	13	16	18	52	115	98	111	98	108	113	106	94	79	70	92	72	72	69	82	88	98	97	105	
95																										
96	2	2	3	3	4	4	4	5	8	11	14	17	21	24	27	30	33	36	39	199	209	219	231	235	172	
97																										
98																					132	122	111			
99																										
100	1,062	1,203	1,338	1,972	2,043	2,149	1,893	1,271	1,212	1,171	1,092	1,039	493	460	499	546	587	598	658	645	645	676	725	794	789	
101																										
102	116	123	144	179	227	714	1,828	1,526	3,121	3,371	3,037	3,490	3,660	3,676	2,466	1,717	1,565	1,225	1,823	1,583	1,956	1,929	2,479	3,148	3,208	
103																										
104																										
105																										
106	0	2	4	3	5	6	6	6	10	36	24	27	28	24	23	33	39	43	52	67	84	85	88	93	98	
107																										
108	117	125	141	111	153	163	154	155	174	189	207	212	197	185	188	187	208	218	232	231	228	261	291	293	282	
109																										
110				0	1	1	1	6	8	8	10	16	28	34	42	60	108	117	126	133	142	155	158	200	224	
111																										
112																		37	37	40	38	38	34			
113																										
114	6	10	18	22	27	23	27	37	38	41	37	36	36	36	35	37	37	39	43	51	58	75	85	108	106	
115																										
116																								6		
117	367	377	387	397	454	236	258	215	224	212	213	210	187	111	100	87	91	224	235	357	399	434	385	414	414	
118																										
119																					650	569	475			
120																										
121																										
122	12,920	14,031	15,484	17,083	18,310	19,830	20,784	18,361	21,239	21,834	21,753	22,115	20,791	19,062	17,325	16,634	16,275	15,982	17,029	17,231	18,418	19,893	21,061	21,199	17,485	
123																										
124	14,100	15,221	16,750	17,710	18,666	21,340	21,356	20,302	21,976	22,883	23,083	24,074	22,996	21,784	20,836	20,766	21,306	21,133	22,078	22,241						

	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU										
1	Summary of oil & NGL production entered on entity worksheets																						Production										
2	dataset marker																						Richard Heede Climate Mitigation Services 17-May-13		Copyright Climate Mitigation Services								
7	1990s											2000s									Sum to 2010		Crude Oil & NGL										
8	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010						Million barrels									
10	not imposed Jan 2																						NOC production adjustment factor										
11	70%																																
12	654	678	684	674	708	748	673	695	670	617	675	714	840	894	847	889	779	789	y					20,352	Abu Dhabi National Oil (ADNOC), UAE								
13	121	124	117	118	118	191	153	129	162	167	148	143	131	86	96	80	85	97	y					6,583	Anadarko, USA								
14	14	15	19	20	25	19	35	45	57	59	78	88	89	86	96	97	106	125	y					1,108	Apache, USA								
15	39	38	15	14	38	37	37	38	63	64	64	14	13	13	13	12	12	12	y					870	Bahrain Petroleum Corporation								
16	20	24	21	22	23	24	25	25	28	42	43	47	49	52	64	66	66	63	y					783	BG Group (British Gas), UK								
17	112	75	75	78	82	86	89	88	87	74	61	52	61	57	57	69	78	97	y					3,312	BHP Billiton, Australia								
18	814	810	784	794	790	843	849	704	705	737	774	924	935	903	881	876	925	867	y					69,684	BP, UK								
19	4	5	6	14	26	28	32	64	75	78	88	103	114	121	121	115	130	155	y					1,285	Canadian Natural Resources, Canada								
20	659	754	722	758	780	823	811	781	776	753	718	733	661	672	651	612	683	702	y					98,492	Chevron, USA								
21	63	79	95	110	119	120	130	75	84	109	111	117	234	136	136	154	186	263	y					2,416	CNOOC (China National Offshore Oil), China								
22	397	392	394	409	443	412	413	381	424	425	412	431	519	558	539	520	533	502	y					24,961	ConocoPhillips, USA								
23	76	78	90	87	93	94	95	110	101	91	22	78	70	65	81	67	72	73	y					1,605	Devon Energy, USA								
24	166	155	214	151	238	179	301	128	145	145	198	193	192	115	119	132	155	188	y					3,902	Ecopetrol, Colombia								
25	169	170	175	175	164	160	164	150	141	140	140	132	128	128	126	132	136	134	y					5,091	Egyptian General Petroleum, Egypt								
26	57	64	71	77	73	79	86	88	94	96	83	83	84	62	49	49	10	8	y					1,421	EnCana, Canada								
27	195	210	223	224	236	238	246	273	313	336	358	377	404	394	372	374	368	364	y					8,713	ENI, Italy								
28	893	941	930	906	926	919	925	938	934	918	925	949	939	999	977	904	903	884	y					79,658	ExxonMobil, USA								
29																			y					95,475	Former Soviet Union (FSU)								
30	81	79	128	149	170	197	190	197	224	274	314	341	302	333	332	314	306	320	y					4,596	Gazprom, Russian Federation								
31	79	92	95	87	80	75	85	96	111	119	95	90	89	94	100	97	107	112	y					4,000	Hess, USA								
32	19	20	21	23	25	25	25	43	65	75	77	77	74	90	100	94	79	74	y					1,095	Husky, Canada								
33	115	125	128	131	257	474	553	566	528	447	289	444	414	441	460	523	526	528	y					17,680	Iraq National Oil Company, Iraq								
34	682	730	730	730	768	657	596	768	745	715	726	856	778	699	788	847	734	741	y					25,095	Kuwait Petroleum Corp., Kuwait								
35	358	362	365	370	385	370	352	376	365	353	380	405	440	462	472	479	457	457	y					15,561	Libya National Oil Corp., Libya								
36				431	438	469	554	570	573	585	588	632	660	698	708	698	716	703	y					9,023	Lukoil, Russian Federation								
37	57	62	74	66	60	71	76	75	76	76	71	66	60	81	72	89	95	93	y					4,975	Marathon, USA								
38	13	19	21	20	21	22	24	24	25	28	30	35	37	32	33	43	48	46	y					689	Murphy Oil, USA								
39	20	42	47	50	68	71	70	77	80	81	80	73	72	63	78	78	75	74	y					1,261	Nexen, Canada								
40	1,328	1,309	1,318	1,321	1,322	1,355	1,255	1,402	1,349	1,259	1,362	1,435	1,420	1,405	1,430	1,424	1,360	1,351	y					63,130	National Iranian Oil Company (NIOC), Iran								
41	429	423	436	438	467	472	466	474	519	444	506	546	551	522	482	461	468	538	y					15,023	Nigerian National Petroleum, Nigeria								
42	84	94	109	117	116	133	129	145	134	171	181	185	252	142	166	194	201	201	y					6,586	Occidental, USA								
43	195	228	256	239	242	212	198	192	195	192	201	218	202	214	228	223	247	242	y					7,348	Oil and Natural Gas Corporation, India								
44					15	16	19	20	20	20	29	28	27	62	60	61	63	63	y					501	OMV Group, Austria								
45	484	551	547	590	498	480	470	464	438	22	48	49	50	49	52	55	64	70	y					13,241	Pertamina, Indonesia								
46	1,061	1,081	1,098	1,150	1,172	1,168	1,062	955	849	869	905	894	931	995	1,017	1,025	1,016	1,045	y					22,527	PetroChina (CNPC), China								
47	244	253	261	295	317	367	413	502	519	573	680	668	733	701	746	718	742	749	y					12,879	Petroleo Brasileiro (Petrobras), Brazil								
48	894	899	852	1,084	1,163	1,206	1,082	1,190	1,193	1,132	1,022	1,128	1,128	1,061	1,060	1,181	1,099	1,086	y					34,118	Petroleos de Venezuela, Venezuela								
49	976	1,147	1,119	1,199	1,245	1,278	1,220	1,259	1,299	1,309	1,383	1,396	1,372	1,344	1,267	1,153	1,084	1,078	y					39,797	Petroleos Mexicanos (PEMEX), Mexico								
50	161	175	185	191	196	195	195	198	198	185	167	155	151	140	133	139	142	142	y					5,037	Petroleum Development Oman, Oman								
51	235	234	253	236	230	263	230	255	249	314	350	267	269	261	275	282	282	260	y					7,239	Petronas, Malaysia								
52						2	2	3	3	3	54	105	155	136	134	132	130	4	y					862	Polish Oil & Gas, Poland								
53	102	102	109	123	136	171	170	191	189	184	201	226	241	247	241	258	260	310	y					5,425	Qatar Petroleum, Qatar								
54	174	206	233	231	251	264	165	233	235	213	217	208	194	192	176	162	160	160	y					5,228	Repsol, Spain								
55	103	95	94	92	89	87	92	98	111	118	147	158	535	583	740	776	796	847	y					5,927	Rosneft, Russian Federation								
56	789	829	860	907	916	917	890	916	883	861	868	822	764	741	693	646	606	617	y					56,962	Royal Dutch Shell plc, The Netherlands								
57	3,108	3,118	3,117	3,155	3,110	2,924	3,132	3,056	2,817	3,345	3,537	3,710	3,649	3,509	3,668	3,298	3,332	y					108,050	Saudi Aramco, Saudi Arabia									
58							241	247	269	270	271	274	279	285	292	332	328	328	y					3,416	Sinopec, China								
59	95	100	120	132	133	137	139	139	138	167	168	196	235	267	329	375	363	370	y					4,494	Sonangol, Angola								
60	275	274	279	299	311	301	280	296	286	310	513	441	493	492	495	501	453	456	y					12,026	Sonatrach, Algeria								
61	232	262	258	250	229	246	359	394	388	406	414	418	402	385	391	386	381	352	y					7,731	Statoil, Norway								
62	34	46	50	70	70	77	73	75	73	165	187	167	178	184	175	139	190	y					2,342	Suncor / Petro-Canada, Canada									
63	123	124	129	133	128	126	123	121	113	115	113	108	102	97	91	89	88	89	y					3,079	Syrian Petroleum, Syria								
64	11	19	28	36	47	54	58	89	92	99	78	83	91	96	88	82	77	69	y					1,200	Talisman, Canada								
65	419	521	570	521	538	548	536	525	531	580	606	641	622	589	593	587	608	599	y					23,683	Total, France								
66	402	358	343	336	343	329	321	358	423	504	591	590	531						y					7,121	Yukos, Russian Federation								
67	17,831																				18,589	18,863	19,832	20,435	21,035	20,701	21,373	21,403	20,903	22,154	23,139	23,998	2

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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Cell: EU132

Comment: Rick Heede:

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