

WORLD															CONVENTIONAL OIL ENDOWMENT										1999	
Ref. date end 1999															Revised 4/29/2000										Gb (billion barrels)	
Country	PRODUCTION Cum. 1999	5yr Trend	RESERVES					Median Prob. (P50)	DISCOVERED			Disc. in Giants	Peak Disc/ Prod Lag	Pk/ Ult	% Prod Rate	Dep. Rate	DATES									
			Reported World Oil	O&GJ	Adjust +/-	Factor	YET-TO-FIND		YET-TO-PRODUCE [ULTIMATE]	Med. Prob. (P50)	Disc. in Giants						Peak Disc/ Prod Lag	Med. Dep.	Peak Prod							
1 Saudi Arabia	7450	85.9	-1%	259.10	261.00	0.00	0.80	208.8	294.7	15.3	224.1	310	85%	61	1.7%	28%	1.2%	2015	2009							
2 FSU*	6848	135.3	-3%	66.64	57.00	-24.83	2.3	74.0	209.3	20.7	94.7	230	47%	24	2.0%	59%	2.5%	1991	1988							
3	3976	165.2	-4%	22.01	21.03	-9.00	1.5	18.1	183.2	6.8	24.8	190	26%	41	1.8%	87%	5.5%	1970	1971							
4 Iraq	2653	24.9	68%	98.98	112.50	-1.74	0.85	94.1	119.1	15.9	110.1	135	50%	81	1.8%	18%	0.9%	2021	2009							
5 Iran	3462	50.4	-1%	92.87	89.70	-1.26	0.70	61.9	112.3	7.7	69.6	120	63%	13	1.9%	42%	2.1%	2006	1974							
6 Kuwait	1633	29.0	-2%	92.36	94.00	-4.84	0.60	53.5	82.5	2.5	56.0	85	95%	71	1.4%	34%	1.1%	2013	2009							
7 Abu Dhabi	1689	16.0	-2%	62.50	92.20	-6.09	0.70	60.3	76.3	3.7	64.0	80	70%	45	1.7%	20%	1.0%	2020	2009							
8 Venezuela	2087	38.5	1%	45.50	72.60	-45.00	1.0	27.6	66.1	8.9	36.5	75	73%	29	0.6%	51%	2.0%	1998	1970							
9 Mexico	2931	26.6	2%	28.40	28.40	0.00	0.8	22.7	49.3	5.7	28.4	55	53%	23	2.0%	48%	3.6%	2000	2000							
10 China	3202	24.9	1%	33.52	24.00	0.00	2.0	25.4	50.4	2.6	28.1	53	43%	41	2.3%	47%	4.0%	2000	2000							
11 Libya	1336	21.4	-1%	26.90	29.50	-2.02	0.85	23.4	44.7	3.3	26.6	48	62%	9	2.6%	45%	1.8%	2004	1970							
12 Nigeria	1969	20.2	1%	22.50	22.50	-1.72	1.00	20.8	41.0	1.0	21.8	42	21%	12	2.1%	48%	3.2%	2000	1979							
13 U.K.	2735	17.0	1%	5.15	5.15	0.00	2.6	13.4	30.4	0.6	14.0	31	42%	25	3.2%	55%	6.7%	1997	1999							
14 Caspian	225	1.7	3%					5.0	6.7	23.3	28.3	30	0%	20	3.0%	6%	0.3%	2029	2030							
15 Norway	2969	12.8	1%	11.90	10.79	0.00	1.4	15.1	27.9	1.1	16.2	29	45%	21	3.9%	44%	6.3%	2000	2000							
16 Indonesia	1288	18.5	2%	8.64	4.98	-1.45	2.5	8.8	4.1	0.7	9.5	28	42%	22	2.2%	66%	4.7%	1990	1977							
17 Canada	1100	17.6	-1%	5.58	4.93	-0.40	1.6	7.2	24.8	1.2	8.4	26	44%	15	2.4%	68%	4.5%	1988	1973							
18 Algeria	766	11.2	0%	13.80	9.20	-2.88	1.75	11.1	22.3	2.7	13.8	25	54%	22	1.8%	45%	2.0%	2003	1978							
19 N.Zone	500	6.0	3%	4.65	5.00	-1.35	2.00	7.3	13.3	0.7	8.0	14	68%	47	1.4%	43%	2.2%	2005	1998							
20 Oman	895	6.0	1%	16.36	5.28	-0.33	1.3	6.4	12.4	0.6	7.0	13	32%	29	2.8%	46%	4.4%	2001	2001							
21 Egypt	851	7.8	-2%	3.71	2.95	0.00	1.25	3.7	11.5	1.0	4.7	12.5	36%	22	2.6%	63%	6.2%	1994	1996							
22 Qatar	633	6.0	8%	5.34	3.70	-1.19	2.3	5.8	11.8	0.2	6.0	12.0	57%	59	1.9%	50%	3.7%	1999	1999							
23 Argentina	807	7.4	2%	2.59	2.75	0.00	1.1	2.9	10.3	0.7	3.6	11.0	28%	38	2.8%	68%	7.6%	1992	1998							
24 India	661	4.9	0%	3.03	4.84	0.00	1.1	5.3	10.2	0.8	6.1	11.0	27%	28	2.5%	44%	3.8%	2002	2002							
25 Colombia	825	5.1	9%	2.60	2.58	-0.30	2.0	4.6	9.6	0.9	5.4	10.5	39%	9	3.0%	48%	5.2%	2000	2000							
26 Malaysia	727	4.5	2%	4.65	3.90	-0.53	1.1	3.7	8.2	0.8	4.5	9.0	12%	24	3.1%	50%	5.6%	1999	1997							
27 Australia	474	5.0	-1%	1.77	2.90	-0.17	1.3	3.4	8.4	0.6	4.0	9.0	29%	26	2.3%	56%	4.2%	1996	1990							
28 Angola	762	3.8	0%	4.03	5.41	-4.47	4.00	3.8	7.5	1.0	4.7	8.5	15%	30	3.6%	44%	5.6%	2001	2001							
29 Romania	125	5.6	-2%	0.89	1.44	-0.05	1.0	1.4	7.0	0.5	1.9	7.5	21%	119	1.5%	75%	2.4%	1973	1976							
30 Brasil	406	4.1	5%	7.50	7.36	-5.00	1.0	2.4	6.5	0.5	2.9	7.0	0%	11	3.0%	59%	4.9%	1995	1986							
31 Ecuador	372	2.8	-1%	2.59	2.12	-0.56	1.9	3.0	5.8	0.3	3.3	6.10	37%	31	2.3%	47%	4.0%	2000	2000							
32 Syria	537	3.2	-2%	2.30	2.50	-1.04	1.5	2.2	5.4	0.6	2.8	6.00	33%	29	3.7%	54%	6.6%	1998	1995							
33 Dubai	301	3.4	-1%	1.01	4.00	-0.04	0.3	1.0	4.4	0.3	1.3	4.75	0%	21	3.3%	72%	7.7%	1990	1991							
34 Gabon	339	2.5	-1%	2.57	2.50	-1.25	1.20	1.5	4.0	0.5	2.0	4.50	40%	11	3.0%	56%	5.9%	1997	1996							
35 Brunei	151	2.8	0%	1.02	1.35	-0.51	1.6	1.3	4.1	0.1	1.5	4.25	74%	13	2.1%	66%	3.6%	1987	1978							
36 Trinidad	124	3.1	-1%	0.60	0.61	0.00	1.0	0.6	3.67	0.33	0.93	4.00	15%	22	2.2%	77%	4.6%	1980	1981							
37 Yemen	406	1.2	4%	1.85	4.00	-1.09	0.6	1.7	2.98	0.52	2.27	3.50	14%	25	5.1%	35%	6.1%	2003	2003							
38 Peru	103	2.2	-3%	0.77	0.36	0.00	2.0	0.7	2.93	0.57	1.28	3.00	14%	122	2.1%	63%	2.9%	1987	1983							
39 Congo	240	1.2	7%	1.70	1.51	-0.09	0.80	1.1	2.36	0.64	1.78	3.00	17%	18	3.4%	41%	4.7%	2002	2002							
40 Germany	55	1.9	-1%	0.35	0.36	0.00	1.2	0.4	2.29	0.21	0.64	2.50	0%	15	2.3%	74%	3.0%	1977	1967							
41 Vietnam	190	0.5	1%	2.00	0.60	-0.20	4.0	1.6	2.10	0.40	1.99	2.50	20%	32	4.1%	21%	3.4%	2007	2007							
42 Denmark	293	0.9	11%	0.88	1.07	0.00	1.0	1.0	1.95	0.30	1.32	2.25	0%	30	5.2%	42%	7.5%	2001	2001							
43 Italy	101	0.8	0%	0.61	0.62	-0.04	1.5	0.9	1.66	0.14	1.01	1.80	0%	21	2.4%	44%	3.5%	2002	2002							
44 Tunisia	83	1.1	-1%	0.29	0.31	-0.03	1.75	0.5	1.60	0.15	0.63	1.75	46%	10	2.5%	64%	4.6%	1991	1981							
45 Bahrain	102	1.1	-1%	n.a.	0.15	0.00	1.0	0.15	1.27	0.23	0.38	1.50	67%	62	2.6%	75%	8.9%	1985	1993							
46 Cameroon	125	0.96	4%	0.66	0.40	-0.52	-4.00	0.50	1.45	0.05	0.54	1.50	0%	10	4.4%	64%	7.8%	1994	1986							
47 Turkey	68	0.78	0%	0.30	0.30	0.00	0.9	0.27	1.04	0.16	0.42	1.20	0%	23	2.5%	65%	5.5%	1992	1992							
48 Netherlands	59	0.79	-3%	0.11	0.11	0.00	2.0	0.21	1.00	0.10	0.31	1.10	0%	6	3.0%	72%	6.4%	1989	1987							
49 Sharjah	70	0.43	8%	n.a.	1.50	-0.18	0.3	0.40	0.82	0.18	0.57	1.00	0%	25	2.5%	43%	4.3%	2005	2005							
50 Papua	100	0.28	0%	0.56	0.33	-0.04	1.5	0.44	0.73	0.22	0.67	0.95	0%	6	4.9%	30%	5.2%	2003	1993							
51 Thailand	75	0.29	9%	0.39	0.30	-0.03	1.8	0.47	0.76	0.14	0.61	0.90	0%	23	3.9%	32%	4.3%	2004	2004							
52 Austria	21	0.76	0%	0.09	0.09	0.00	1.2	0.10	0.86	0.04	0.14	0.90	57%	7	2.8%	84%	5.1%	1970	1955							
53 France	31	0.69	-8%	0.13	0.11	-0.01	1.5	0.14	0.84	0.06	0.21	0.90	0%	30	2.8%	77%	5.2%	1986	1988							
54 Hungary	24	0.68	-6%	0.05	0.11	0.00	0.5	0.05	0.73	0.17	0.22	0.90	0%	13	1.9%	75%	3.8%	1983	1977							
55 Albania	6	0.53	-8%	0.18	0.17	-0.04	1.3	0.16	0.69	0.11	0.27	0.80	0%	58	3.7%	66%	0.7%	1986	1986							
56 Pakistan	52	0.40	-1%	0.21	0.21	-0.06	1.3	0.20	0.60	0.15	0.35	0.75	0%	9	3.7%	54%	5.2%	1997	1992							
57 Bolivia	28	0.39	0%	0.15	0.13	-0.03	2.0	0.20	0.59	0.11	0.31	0.70	0%	8	2.5%	55%	3.2%	1996	1974							
58 Philippines	1	0.05	-14%	0.31	0.29	0.00	1.1	0.32	0.36	0.24	0.55	0.60	0%	0	5.2%	8%	0.1%	2011	2011							
59 Chile	9	0.41	-2%	0.08	0.15	-0.01	0.5	0.07	0.48	0.07	0.14	0.55	0%	22	2.7%	75%	2.3%	1981	1982							
REGIONS																										
1 ME Gulf	17387	212	2.7%	610.5	654.4	-15.3	0.8	485.9	698	46	532	744	70%	60	1.5%	29%	1.2%	2015	2008							
2 Eurasia	10430	167	-1.1%	101.3	82.7	-35.9	2.3	106.0	273	49	155	322	41%	36	1.2%	52%	2.4%	1997	2000							
3 N.America	5076	183	-2.5%	27.6	26.0	-9.4	1.5	25.3	208	8	33	216	28%	42	1.8%	85%	5.5%	1972	1972							
4 L.America	7692	91	5.0%	90.9	117.0	-50.9	1.0	64.7	155	18	83	173	55%	21	1.7%	52%	3.4%	1998	1998							
5 Africa	6471	70	2.3%	76.2	74.3	-13.0	1.1	66.3	136	10	77	147	42%	18	1.7%	48%	3.0%	2000	1979							
6 W.Europe	6263	36	6.6%	19.2	18.3	0.0	1.7	31.3	67	3	34	69	38%	24	3.2%	51%	6.3%	1998	1998							
7 East	3719	37	1.3%	22.6	19.7	-3.0	1.5	25.6	63	4	30	67	33%	30	2.1%	56%	4.4%	1996	1997							
8 ME.Other	3010	22	3.9%	16.4	21.4	-3.9	1.0	18.0	40	3	21	43	34%	35	2.6%	52%	4.9%	1998	1998							
9 Other	365	4	4.5%	0.0	2.4	1.1	1.2	4.2	8	0	4	8														
10 Unforeseen									10	10	10	10														
Non-Swing	43025	594	1.6%	354	362	-115	1.38	341	935	121	462	1056	33%	37	1.5%	56%	3.4%	1994	1997							
WORLD	60411	822	1.9%	965	1016	-130	0.93	827	1649	151	978	1800	48%	40	1.2%	46%	2.2%	2003	2005							
OTHER LIQUID HYDROCARBONS (tentative and uncertain)																										
"Heavy" etc																										

RESOURCE-BASED PRODUCTION FORECAST										
Conventional Oil - Base Case Scenario					CONVENTIONAL OIL					Mb/d
kb/d	2000	2005	2010	2020	BY REGION	2000	2005	2010	2020	
Saudi Arabia	7524	10853	13933	10897	ME-GULF	18.3	25.8	31.0	24.4	
FSU*	6671	5856	5141	3962	EURASIA	10.4	9.1	8.2	7.2	
USA-48	3756	2828	2129	1206	L-AMERICA	7.8	6.3	5.2	3.6	
Iran	3447	3371	3285	2657	AFRICA	6.6	6.1	5.0	3.4	
China	3362	2688	2150	1375	EUROPE	6.2	4.4	3.1	1.5	
Norway	3117	2166	1506	727	N-AMERICA	4.6	3.6	2.7	1.6	
Iraq	3100	5332	6411	5044	EAST	3.6	3.2	2.5	1.5	
Mexico	3078	2516	2056	1373	ME-OTHER	3.0	2.4	1.8	1.0	
U.K.	2553	1807	1279	641	OTHER	0.5	0.5	0.4	0.4	
Nigeria	2068	1752	1466	1027	<b>WORLD</b>	<b>61.0</b>	<b>61.3</b>	<b>59.8</b>	<b>44.5</b>	
Venezuela	2044	1844	1663	1352	Non-Swing	42.8	35.6	28.9	20.2	
Abu Dhabi	1924	3099	3726	3014	Swing Share	30%	42%	52%	55%	
Kuwait	1813	2714	3263	2548	Swing Countries = ME GULF region					
Libya	1403	1661	1460	1128	<b>NON-CONVENTIONAL HYDROCARBONS</b>					
Indonesia	1227	964	757	466	<b>Oil</b>	<b>Mb/d</b>				
Oman	940	790	599	344	Heavy Oils	1.3	2.1	2.1	2.0	
Colombia	866	642	476	159	Canada	0.7	0.7	0.7	0.8	
Canada	1050	832	659	414	Venezuela I	0.7	0.6	0.6	0.5	
Algeria	804	882	771	590	Venezuela II	0.0	0.7	0.7	0.7	
Angola	800	631	441	231	Other		0.1	0.1	0.1	
Egypt	798	578	418	219	Deepwater	2.2	5.8	9.1	5.7	
Argentina	745	501	337	152	G. Mexico	0.9	1.6	3.3	2.1	
India	694	656	508	305	Brasil	0.2	1.2	2.9	1.0	
Malaysia	686	515	387	218	W. Africa	1.2	3.0	2.9	2.3	
Qatar	609	504	417	285	Other	0.0	0.0	0.0	0.3	
Syria	501	356	254	128	Polar	1.0	0.8	0.6	0.5	
N. Zone	482	389	352	289	Alaska	1.0	0.8	0.6	0.4	
Australia	454	367	296	193	Other	0.0	0.0	0.0	0.1	
Yemen	426	398	234	89						
Ecuador	390	312	249	159	Other	0.6	0.9	1.2	1.8	
Brasil	386	301	234	278	<b>Subtotal</b>	<b>5</b>	<b>10</b>	<b>13</b>	<b>10</b>	
Gabon	319	235	174	95	<b>GAS &amp; GAS LIQUIDS</b>					
Denmark	307	214	128	46	<b>Gas (by value at 10Tcf = 1 Gboe)</b>					
Dubai	277	185	124	56	Gas	24	27	32	33	
Caspian Off.	255	446	752	1755	Non-con gas	4	5	5	7	
Congo	252	228	164	85	<b>Subtotal</b>	<b>29</b>	<b>31</b>	<b>37</b>	<b>40</b>	
Vietnam	200	255	223	104	<b>Gas Liquids</b>					
Brunei	146	121	101	72	Condensate/NGL	7	7	9	9	
Romania	122	108	96	76	<b>ALL HYDROCARBONS</b>					
Trinidad	119	94	74	46	Gas	29	31	37	40	
Cameroon	115	77	51	23	Liquids	73	78	82	64	
Italy	106	101	80	53	<b>Total</b>	<b>101</b>	<b>110</b>	<b>119</b>	<b>104</b>	
Papua	105	103	67	29						
Peru	100	87	75	56	<b>BALANCE with 1.8% annual growth in demand</b>					
Bahrain	93	58	36	14	<b>Liquids Mb/d</b>					
Tunisia	79	63	50	31	Supply	73	78	82	64	
Thailand	79	89	61	29	Demand @ 1.8%		78	85	101	
Sharjah	74	68	51	28	<b>Balance</b>	0.0	0.4	-3.1	-37.1	
Turkey	64	48	36	21						
Netherlands	55	39	28	15						
Germany	53	46	39	29	<b>KEY</b>					
Pakistan	50	38	29	17	*FSU excludes offshore Caspian					
France	29	22	17	10	OTHER = small, new and unforeseen					
Bolivia	27	25	20	14	Heavy Oils = oil from coal, "shale, tarsands & oil <17.5 AP					
Hungary	23	19	16	11	Venezuela I = normal heavy oil					
Austria	20	15	12	7	Venezuela II = 4 contracted extra-heavy oil projects					
Chile	9	8	7	5	(Most "Other Heavy" included in Conventional due to					
Albania	6	10	16	20	database limitations)					
Philippines	1	63	81	35	<b>ALL INPUT DATA UNRELIABLE</b>					

