

Appendix D

Projections of Oil Production Capacity and Oil Production in Three Cases:

Reference
High World Oil Price
Low World Oil Price

Table D1. World Oil Production Capacity by Region and Country, Reference Case, 1990-2020
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	2000	2005	2010	2015	2020
OPEC						
Persian Gulf						
Iran	3.2	3.8	4.0	4.4	4.5	4.7
Iraq	2.2	2.6	3.1	3.9	4.5	5.5
Kuwait	1.7	2.5	2.8	3.5	4.1	4.8
Qatar	0.5	0.9	0.5	0.6	0.7	0.7
Saudi Arabia	8.6	9.4	12.5	14.6	18.2	22.1
United Arab Emirates	2.5	2.5	3.0	3.7	4.4	5.1
Total Persian Gulf.	18.7	21.7	25.9	30.7	36.4	42.9
Other OPEC						
Algeria	1.3	1.4	1.9	2.2	2.3	2.5
Indonesia	1.5	1.6	1.5	1.5	1.5	1.5
Libya	1.5	1.5	2.1	2.5	2.8	3.2
Nigeria	1.8	2.1	2.8	3.3	4.0	4.7
Venezuela	2.4	3.1	4.2	4.6	5.0	5.4
Total Other OPEC.	8.5	9.7	12.5	14.1	15.6	17.3
Total OPEC	27.2	31.4	38.4	44.8	52.0	60.2
Non-OPEC						
Industrialized						
United States	9.7	9.1	8.7	8.9	9.7	10.0
Canada	2.0	2.7	3.1	3.2	3.4	3.6
Mexico	3.0	3.5	3.9	4.2	4.4	4.4
Australia	0.7	0.9	0.8	0.8	0.8	0.8
North Sea	4.2	6.3	6.7	6.5	6.2	6.0
Other.	0.5	0.8	0.8	0.8	0.8	0.8
Total Industrialized	20.1	23.3	24.0	24.4	25.3	25.6
Eurasia						
China	2.8	3.3	3.2	3.1	3.0	3.0
Former Soviet Union.	11.4	8.1	10.1	12.1	13.8	14.9
Eastern Europe	0.3	0.2	0.2	0.3	0.3	0.4
Total Eurasia	14.5	11.6	13.5	15.5	17.1	18.3
Other Non-OPEC						
Central and South America	2.3	3.8	4.2	4.8	5.6	6.5
Middle East	1.4	2.0	2.2	2.4	2.5	2.4
Africa	2.2	2.9	3.1	3.9	4.7	5.8
Asia	1.7	2.4	2.6	2.6	2.6	2.5
Total Other Non-OPEC	7.6	11.1	12.1	13.7	15.4	17.2
Total Non-OPEC	42.2	46.0	49.6	53.6	57.8	61.1
Total World	69.4	77.4	88.0	98.4	109.8	121.3

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).

Appendix D

Table D2. World Oil Production Capacity by Region and Country, High Oil Price Case, 1990-2020
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	2000	2005	2010	2015	2020
OPEC						
Persian Gulf						
Iran	3.2	3.8	3.8	4.1	4.2	4.5
Iraq	2.2	2.6	2.9	3.2	3.5	4.1
Kuwait	1.7	2.5	2.6	3.1	3.5	4.0
Qatar	0.5	0.9	0.5	0.6	0.7	0.7
Saudi Arabia	8.6	9.4	10.9	11.3	13.5	16.1
United Arab Emirates	2.5	2.5	2.6	2.8	3.1	3.5
Total Persian Gulf.	18.7	21.7	23.3	25.1	28.5	32.9
Other OPEC						
Algeria	1.3	1.4	1.6	1.8	2.1	2.4
Indonesia	1.5	1.6	1.5	1.5	1.5	1.5
Libya	1.5	1.5	1.6	1.9	2.1	2.5
Nigeria	1.8	2.1	2.3	2.5	3.0	3.7
Venezuela	2.4	3.1	3.5	3.7	4.3	5.0
Total Other OPEC.	8.5	9.7	10.5	11.4	13.0	15.1
Total OPEC	27.2	31.4	33.8	36.5	41.5	48.0
Non-OPEC						
Industrialized						
United States	9.7	9.1	9.0	9.3	10.4	11.1
Canada	2.0	2.7	3.2	3.5	3.7	3.9
Mexico	3.0	3.5	4.0	4.5	4.8	4.9
Australia	0.7	0.9	0.8	0.9	0.9	0.9
North Sea	4.2	6.3	6.8	6.7	6.5	6.2
Other.	0.5	0.8	0.9	0.9	0.8	0.8
Total Industrialized	20.1	23.3	24.7	25.8	27.1	27.8
Eurasia						
China	2.8	3.3	3.3	3.3	3.2	3.3
Former Soviet Union.	11.4	8.1	10.7	13.6	15.8	17.0
Eastern Europe	0.3	0.2	0.2	0.3	0.3	0.4
Total Eurasia	14.5	11.6	14.2	17.2	19.3	20.7
Other Non-OPEC						
Central and South America	2.3	3.8	4.4	5.4	6.4	7.4
Middle East	1.4	2.0	2.3	2.5	2.7	2.7
Africa	2.2	2.9	3.4	4.4	5.5	6.9
Asia	1.7	2.4	2.7	2.8	2.7	2.7
Total Other Non-OPEC	7.6	11.1	12.8	15.1	17.3	19.7
Total Non-OPEC	42.2	46.0	51.7	58.1	63.7	68.2
Total World	69.4	77.4	85.5	94.6	105.2	116.2

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).

Table D3. World Oil Production Capacity by Region and Country, Low Oil Price Case, 1990-2020
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	2000	2005	2010	2015	2020
OPEC						
Persian Gulf						
Iran	3.2	3.8	4.2	4.5	4.8	5.1
Iraq	2.2	2.6	3.4	4.2	5.1	6.0
Kuwait	1.7	2.5	3.0	3.7	4.5	5.3
Qatar	0.5	0.9	0.5	0.6	0.7	0.8
Saudi Arabia	8.6	9.4	14.9	18.3	23.1	28.3
United Arab Emirates	2.5	2.5	3.2	4.0	4.8	5.6
Total Persian Gulf.	18.7	21.7	29.2	35.3	43.0	51.1
Other OPEC						
Algeria	1.3	1.4	1.8	2.3	2.5	2.8
Indonesia	1.5	1.6	1.5	1.5	1.5	1.5
Libya	1.5	1.5	2.2	2.7	3.2	3.6
Nigeria	1.8	2.1	2.7	3.6	4.2	4.7
Venezuela	2.4	3.1	3.9	4.7	5.1	5.9
Total Other OPEC.	8.5	9.7	12.1	14.8	16.5	18.5
Total OPEC	27.2	31.4	41.3	50.1	59.5	69.6
Non-OPEC						
Industrialized						
United States	9.7	9.1	8.5	8.3	8.8	9.0
Canada	2.0	2.7	3.1	3.2	3.3	3.5
Mexico	3.0	3.5	3.8	4.1	4.2	4.3
Australia	0.7	0.9	0.8	0.8	0.8	0.8
North Sea	4.2	6.3	6.6	6.4	6.1	5.9
Other.	0.5	0.8	0.8	0.8	0.8	0.7
Total Industrialized	20.1	23.3	23.6	23.6	24.0	24.2
Eurasia						
China	2.8	3.3	3.2	3.0	3.0	2.9
Former Soviet Union.	11.4	8.1	9.9	11.9	13.4	14.5
Eastern Europe	0.3	0.2	0.2	0.3	0.3	0.3
Total Eurasia	14.5	11.6	13.3	15.2	16.7	17.7
Other Non-OPEC						
Central and South America	2.3	3.8	4.1	4.7	5.4	6.3
Middle East	1.4	2.0	2.2	2.3	2.5	2.4
Africa	2.2	2.9	3.1	3.8	4.6	5.6
Asia	1.7	2.4	2.6	2.6	2.5	2.5
Total Other Non-OPEC	7.6	11.1	12.0	13.4	15.0	16.8
Total Non-OPEC	42.2	46.0	48.9	52.2	55.7	58.7
Total World	69.4	77.4	90.2	102.3	115.2	128.3

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).

Appendix D

Table D4. World Oil Production by Region and Country, Reference Case, 1990-2020
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	2000	2005	2010	2015	2020
OPEC						
Persian Gulf.	16.2	21.2	23.8	28.8	34.2	39.6
Other OPEC	8.3	9.7	11.5	13.3	15.2	17.6
Total OPEC	24.5	30.9	35.3	42.1	49.4	57.2
Non-OPEC						
Industrialized						
United States	9.7	9.1	8.7	8.9	9.7	10.0
Canada	2.0	2.7	3.1	3.2	3.4	3.6
Mexico.	3.0	3.5	3.9	4.2	4.4	4.4
Western Europe	4.6	7.1	7.4	7.2	6.9	6.5
Other.	0.8	0.9	0.9	0.9	0.9	0.9
Total Industrialized	20.1	23.3	24.0	24.4	25.3	25.4
Eurasia						
China	2.8	3.2	3.2	3.1	3.1	3.0
Former Soviet Union.	11.4	8.2	10.1	12.1	13.7	14.9
Eastern Europe	0.3	0.2	0.2	0.3	0.3	0.4
Total Eurasia	14.5	11.6	13.5	15.5	17.1	18.3
Other Non-OPEC						
Central and South America	2.4	3.8	4.2	4.8	5.6	6.5
Pacific Rim.	1.7	2.4	2.6	2.6	2.6	2.5
Other.	3.5	4.8	5.3	6.3	7.2	8.4
Total Other Non-OPEC	7.6	11.0	12.1	13.7	15.4	17.4
Total Non-OPEC.	42.2	45.9	49.6	53.6	57.8	61.1
Total World	66.7	76.8	84.9	95.7	107.2	118.3
Persian Gulf Production as a Percentage of World Consumption						
	24.6	28.1	27.9	30.0	31.8	33.4

Note: OPEC = Organization of Petroleum Exporting Countries. Production includes crude oil (including lease condensates), natural gas liquids, other hydrogen hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources. Totals may not equal sum of components due to independent rounding.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).

Table D5. World Oil Production by Region and Country, High Oil Price Case, 1990-2020
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	2000	2005	2010	2015	2020
OPEC						
Persian Gulf.	16.2	21.2	21.0	23.3	26.2	31.2
Other OPEC	8.3	9.7	10.1	11.0	13.2	14.4
Total OPEC	24.5	30.9	31.1	34.3	39.4	45.6
Non-OPEC						
Industrialized						
United States	9.7	9.1	9.0	9.3	10.4	11.1
Canada	2.0	2.7	3.2	3.5	3.7	3.9
Mexico.	3.0	3.5	4.0	4.5	4.8	4.9
Western Europe	4.6	7.1	7.6	7.6	7.3	7.0
Other.	0.8	0.9	0.9	0.9	0.9	0.9
Total Industrialized	20.1	23.3	24.7	25.8	27.1	27.8
Eurasia						
China	2.8	3.2	3.3	3.3	3.2	3.3
Former Soviet Union.	11.4	8.2	10.7	13.6	15.8	17.0
Eastern Europe	0.3	0.2	0.2	0.3	0.3	0.4
Total Eurasia	14.5	11.6	14.2	17.2	19.3	20.7
Other Non-OPEC						
Central and South America	2.4	3.8	4.4	5.4	6.4	7.4
Pacific Rim.	1.7	2.4	2.7	2.8	2.7	2.7
Other.	3.5	4.8	5.7	6.9	8.2	9.6
Total Other Non-OPEC	7.6	11.0	12.8	15.1	17.3	19.7
Total Non-OPEC.	42.2	45.9	51.7	58.1	63.7	68.2
Total World	66.7	76.8	82.8	92.4	103.1	113.8
Persian Gulf Production as a Percentage of World Consumption						
	24.6	28.1	25.3	25.1	25.3	27.3

Note: OPEC = Organization of Petroleum Exporting Countries. Production includes crude oil (including lease condensates), natural gas liquids, other hydrogen hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources. Totals may not equal sum of components due to independent rounding.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).

Appendix D

Table D6. World Oil Production by Region and Country, Low Oil Price Case, 1990-2020
 (Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	2000	2005	2010	2015	2020
OPEC						
Persian Gulf.	16.2	21.2	26.2	32.7	40.5	48.3
Other OPEC	8.3	9.7	11.8	14.4	16.0	17.9
Total OPEC	24.5	30.9	38.0	47.1	56.5	66.2
Non-OPEC						
Industrialized						
United States	9.7	9.1	8.5	8.3	8.8	9.0
Canada	2.0	2.7	3.1	3.2	3.3	3.5
Mexico.	3.0	3.5	3.8	4.1	4.2	4.3
Western Europe	4.6	7.1	7.4	7.2	6.9	6.6
Other.	0.8	0.9	0.8	0.8	0.8	0.8
Total Industrialized	20.1	23.3	23.6	23.6	24.0	24.2
Eurasia						
China	2.8	3.2	3.2	3.0	3.0	2.9
Former Soviet Union.	11.4	8.2	9.9	11.9	13.4	14.5
Eastern Europe	0.3	0.2	0.2	0.3	0.3	0.3
Total Eurasia	14.5	11.6	13.3	15.2	16.7	17.7
Other Non-OPEC						
Central and South America	2.4	3.8	4.1	4.7	5.4	6.3
Pacific Rim.	1.7	2.4	2.6	2.6	2.5	2.5
Other.	3.5	4.8	5.3	6.0	7.1	8.0
Total Other Non-OPEC	7.6	11.0	12.0	13.3	15.0	16.8
Total Non-OPEC.	42.2	45.9	48.9	52.1	55.7	58.7
Total World	66.7	76.8	86.9	99.2	112.2	124.9
Persian Gulf Production as a Percentage of World Consumption						
	24.6	28.1	30.0	32.9	36.0	38.6

Note: OPEC = Organization of Petroleum Exporting Countries. Production includes crude oil (including lease condensates), natural gas liquids, other hydrogen hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources. Totals may not equal sum of components due to independent rounding.

Sources: **History:** Energy Information Administration (EIA), Energy Markets and Contingency Information Division. **Projections:** EIA, Office of Integrated Analysis and Forecasting, World Energy Projection System; and U.S. Department of the Interior, U.S. Geological Survey, *World Petroleum Assessment 2000* (Reston, VA, July 2000).