



# Appendix

Figure 125: Crude Supply Model

	2013	2014	2015E	2016E	2017E	2018E	2019E	2020E	14-15	14-17	14-'20
<b>North America</b>										<b>Growth</b>	
<b>United States</b>											
L&B (2017+ replaced with "The Call")	5895	6946	7351	7293	7674	8397	9442	10473	405	728	8127
GoM	1294	1385	1451	1481	1510	1511	1512	1447	96	215	52
DW	975	1120	1234	1340	1382	1337	1305	1258	114	262	138
SW	279	275	239	243	228	215	202	190	-17	-47	-85
Alaska	515	497	472	440	426	405	385	355	-25	-71	-132
<b>Total US</b>	<b>7664</b>	<b>8838</b>	<b>9316</b>	<b>9325</b>	<b>9710</b>	<b>10553</b>	<b>11333</b>	<b>12285</b>			
<b>Total Canada</b>	<b>3333</b>	<b>3612</b>	<b>3754</b>	<b>3764</b>	<b>4137</b>	<b>4311</b>	<b>4445</b>	<b>4491</b>	<b>144</b>	<b>145</b>	<b>678</b>
Mexico	2532	2440	2348	2248	2170	2079	1981	1870	-94	-267	-571
Chile	7	7	6	5	5	4	4	4			
<b>Total North America</b>	<b>13537</b>	<b>14897</b>	<b>15424</b>	<b>15542</b>	<b>16045</b>	<b>16745</b>	<b>17764</b>	<b>18649</b>	<b>50</b>	<b>278</b>	<b>308</b>
<b>Total North America, ex Onshore</b>	<b>7642</b>	<b>7611</b>	<b>8249</b>	<b>8249</b>	<b>8371</b>	<b>8348</b>	<b>8322</b>	<b>8177</b>	<b>122</b>	<b>420</b>	<b>226</b>
<b>Europe</b>											
<b>Total North Sea</b>	<b>2509</b>	<b>2518</b>	<b>2579</b>	<b>2491</b>	<b>2435</b>	<b>2349</b>	<b>2280</b>	<b>2174</b>	<b>-8</b>	<b>-63</b>	<b>-343</b>
Other Europe OECD	430	412	395	391	406	406	384	370	-17	-6	-42
Europe Non-OECD	129	130	130	108	99	90	81	72	0	-31	-58
<b>Total Europe</b>	<b>3068</b>	<b>3059</b>	<b>3034</b>	<b>2990</b>	<b>2940</b>	<b>2888</b>	<b>2665</b>	<b>2616</b>	<b>-25</b>	<b>-120</b>	<b>-443</b>
<b>Latin America</b>											
Brazil	2030	2260	2427	2549	2670	2851	3015	3122	167	417	921
Colombia	1008	990	936	907	835	764	712	734	-34	-116	-176
Venezuela	2497	2462	2462	2462	2462	2462	2462	2462	0	0	0
Ecuador	517	531	551	551	551	551	551	551	0	0	0
Other Non-OPEC Latin America	814	808	800	800	800	800	800	800	-6	-8	-8
<b>Total Latin America</b>	<b>6866</b>	<b>7072</b>	<b>7196</b>	<b>7283</b>	<b>7346</b>	<b>7528</b>	<b>7671</b>	<b>7809</b>	<b>124</b>	<b>294</b>	<b>737</b>
<b>Africa</b>											
Angola	1718	1661	1617	1617	1641	1717	1770	1820	-44	-28	159
Uganda	898	460	460	460	460	460	460	460	0	0	0
Nigeria	1953	1915	1915	1915	1915	1915	1915	1915	0	0	0
Algeria	1148	1121	1121	1121	1121	1121	1121	1121	0	0	0
Non-OPEC Africa	2171	2198	2184	2177	2281	2239	2196	2073	-14	85	-126
<b>Total Africa</b>	<b>7888</b>	<b>7355</b>	<b>7297</b>	<b>7289</b>	<b>7418</b>	<b>7452</b>	<b>7461</b>	<b>7388</b>	<b>-38</b>	<b>65</b>	<b>34</b>
<b>Middle East</b>											
Saudi Arabia	9487	9611	9611	9611	9611	9611	9611	9611	0	0	0
Iran	2682	2812	2812	2812	2812	2812	2812	2812	0	0	0
Iraq	3080	3332	3332	3332	3332	3332	3332	3332	0	0	0
UAE	2762	2759	2759	2759	2759	2759	2759	2759	0	0	0
Kuwait	2549	2608	2608	2608	2608	2608	2608	2608	0	0	0
Qatar	881	861	861	861	861	861	861	861	0	0	0
Neutral Zone	520	383	383	383	383	383	383	383	0	0	0
Non-OPEC Middle East	1305	1276	1218	1146	1118	1091	1066	1067	-59	-158	-210
<b>Total Middle East</b>	<b>23266</b>	<b>23642</b>	<b>23583</b>	<b>23512</b>	<b>23483</b>	<b>23456</b>	<b>23452</b>	<b>23432</b>	<b>-59</b>	<b>-158</b>	<b>-210</b>
<b>Asia</b>											
Australia	335	334	337	322	337	384	370	362	1	-17	8
Other Asia OECD	60	64	57	68	68	68	68	60	-7	4	-4
China	4173	4216	4216	4216	4216	4216	4216	4216	0	0	0
India	769	766	778	761	735	709	682	674	12	-32	-98
Malaysia	585	612	621	614	620	623	621	616	29	57	35
Indonesia	732	700	653	711	703	678	636	603	-47	1	-97
Other Non-OECD Asia	836	818	800	795	795	773	773	750	-18	-23	-68
<b>Total Asia</b>	<b>7491</b>	<b>7529</b>	<b>7531</b>	<b>7546</b>	<b>7525</b>	<b>7532</b>	<b>7405</b>	<b>7312</b>	<b>22</b>	<b>-7</b>	<b>-217</b>
<b>Russia</b>	<b>10906</b>	<b>10176</b>	<b>10630</b>	<b>10781</b>	<b>10863</b>	<b>10950</b>	<b>10179</b>	<b>10486</b>	<b>83</b>	<b>112</b>	<b>-10</b>
Caspian Sea	2727	2689	2572	2516	2644	2778	2817	2827	-18	-48	240
Other FSU	103	99	97	87	81	75	69	63	-6	-18	-36
<b>Total FSU</b>	<b>13339</b>	<b>13364</b>	<b>13424</b>	<b>13441</b>	<b>13410</b>	<b>13498</b>	<b>13564</b>	<b>13557</b>	<b>60</b>	<b>46</b>	<b>194</b>
*Other Bbls* ex OPEC	3888	39437	39668	39820	39995	40111	39896	39398	251	136	161
*Other Bbls* with Angola	40586	41098	41285	41437	41636	41829	41666	41419	187	338	320

Source: Deutsche Bank, Wood Mackenzie, IEA, EIA, L&B Crude "Implied Call on US Crude Growth" from 2017+ and DB from 2015-2016; includes crude oil, condensate, bitumen