

**UPSTREAM OPERATING STATISTICS**
**PROVED OIL AND GAS RESERVES REPLACEMENT<sup>(1)</sup>**
**2012**
**2011**
**2010**
**2009**
**2008**
**Average  
2008-2012**
*(million barrels of oil or billion cubic feet of gas unless specified otherwise)*
**Liquids (millions of barrels)**

Revisions	471	270	358	361	583	409
Improved recovery	23	–	5	15	6	10
Extensions/discoveries	760	1,166	185	142	1,308	712
Purchases	219	16	378	–	–	123
Sales	(86)	(54)	(21)	(3)	(86)	(50)
Total additions	1,387	1,398	905	515	1,811	1,204
Production	799	843	883	870	879	855
Reserves replacement ratio, excluding sales (percent)	184	172	105	60	216	147
Reserves replacement ratio, including sales (percent)	174	166	102	59	206	141

**Natural Gas (billions of cubic feet)**

Revisions	(1,873)	64	879	135	643	(30)
Improved recovery	–	–	–	–	1	–
Extensions/discoveries	4,383	2,682	1,988	5,694	692	3,087
Purchases	509	303	12,789	8	–	2,722
Sales	(353)	(523)	(106)	(13)	(82)	(215)
Total additions	2,666	2,526	15,550	5,824	1,254	5,564
Production	4,797	5,119	4,742	3,696	3,637	4,398
Reserves replacement ratio, excluding sales (percent)	63	60	330	158	37	131
Reserves replacement ratio, including sales (percent)	56	49	328	158	34	127

**Oil-Equivalent (millions of barrels)**

Revisions	159	281	505	383	690	404
Improved recovery	23	–	5	15	7	10
Extensions/discoveries	1,490	1,613	516	1,091	1,423	1,227
Purchases	304	67	2,510	1	–	576
Sales	(145)	(141)	(38)	(5)	(100)	(86)
Total additions	1,831	1,820	3,498	1,485	2,020	2,131
Production	1,599	1,697	1,674	1,486	1,485	1,588
Reserves replacement ratio, excluding sales (percent)	124	116	211	100	143	140
Reserves replacement ratio, including sales (percent)	115	107	209	100	136	134

(1) ExxonMobil reserves using SEC historical price bases. Proved reserves as defined by the SEC are based on historical market prices: prior to 2009, the SEC defined price as the market price on December 31; beginning in 2009, the SEC changed the definition to the average of the market prices on the first day of each calendar month during the year. Mining and equity company reserves are included for all periods. See Frequently Used Terms on pages 93 through 95 of ExxonMobil's 2012 Financial & Operating Review.