

Supplementary Table 1. Estimates of annual egg production and spawning stock biomass for Atlantic mackerel (*Scomber scombrus*) in the western North Atlantic Ocean during 1977–2016. The northern contingent spawns in the southern Gulf of St. Lawrence, Canada, and the southern contingent spawns on the continental shelf of the northeastern United States. The percentage of total stock egg production that occurred in the spawning area of the southern contingent (% southern) is provided. In 1987, a plankton survey occurred early (1987e) and late (1987l) in the spawning season; separate egg production values were calculated from these surveys. CV=coefficient of variation.

Year	Southern contingent		Northern contingent		Spawning stock biomass			% Southern
	Annual Egg Production	CV	Annual Egg Production	CV	United States	Canada	Combined	
1977	2.06 x 10 <sup>14</sup>	24.5			389,975			
1978								
1979	1.81 x 10 <sup>14</sup>	22.1	4.82 x 10 <sup>14</sup>	20.0	308,133	820,554	1,128,687	27.3%
1980	2.13 x 10 <sup>14</sup>	61.3			389,973			
1981	9.42 x 10 <sup>13</sup>	44.6			172,467			
1982	6.57 x 10 <sup>13</sup>	33.8			120,287			
1983	1.29 x 10 <sup>14</sup>	56.2	1.73 x 10 <sup>14</sup>	22.5	255,458	342,591	598,049	42.7%
1984	3.51 x 10 <sup>13</sup>	33.0	3.56 x 10 <sup>14</sup>	13.0	71,613	726,183	797,796	9.0%
1985	1.08 x 10 <sup>13</sup>	32.9	6.45 x 10 <sup>14</sup>	9.9	20,389	1,217,178	1,237,567	1.6%
1986	6.53 x 10 <sup>13</sup>	35.2	1.23 x 10 <sup>15</sup>	10.4	93,063	1,754,052	1,847,115	5.0%
1987e	4.49 x 10 <sup>13</sup>	24.2	4.88 x 10 <sup>14</sup>	19.1	80,300	872,703	953,003	8.4%
1987l	4.41 x 10 <sup>13</sup>	52.6			78,870		951,573	8.3%
1988			4.09 x 10 <sup>14</sup>	14.6		739,208		
1989			4.94 x 10 <sup>14</sup>	20.1		757,877		
1990			4.24 x 10 <sup>14</sup>	16.1		725,415		
1991			6.64 x 10 <sup>14</sup>	16.3		1,284,928		
1992			5.13 x 10 <sup>14</sup>	17.4		796,459		
1993			5.73 x 10 <sup>14</sup>	21.1		935,545		
1994			2.17 x 10 <sup>14</sup>	26.0		467,261		
1995								
1996			7.10 x 10 <sup>13</sup>	20.7		128,149		
1997								
1998			5.58 x 10 <sup>13</sup>	17.7		103,242		
1999								
2000	1.45 x 10 <sup>13</sup>	40.1	1.01 x 10 <sup>14</sup>	47.8	23,673	165,017	188,689	12.5%
2001	6.17 x 10 <sup>13</sup>	39.5			10,334			
2002	3.59 x 10 <sup>13</sup>	44.1	2.32 x 10 <sup>14</sup>	25.1	58,641	379,070	437,710	13.4%
2003			2.08 x 10 <sup>14</sup>	22.7		314,752		
2004	8.32 x 10 <sup>12</sup>	52.0	1.30 x 10 <sup>14</sup>	25.4	10,379	162,714	173,093	6.0%
2005	8.40 x 10 <sup>11</sup>	22.6	7.18 x 10 <sup>13</sup>	28.7	1,011	86,487	87,498	1.2%
2006	1.61 x 10 <sup>12</sup>	33.6	4.74 x 10 <sup>13</sup>	32.6	1,838	54,133	55,971	3.3%
2007	1.80 x 10 <sup>12</sup>	49.0	6.40 x 10 <sup>13</sup>	24.0	2,152	76,532	78,684	2.7%
2008			7.70 x 10 <sup>13</sup>	17.1		99,631		
2009	8.37 x 10 <sup>11</sup>	38.4	5.26 x 10 <sup>13</sup>	27.4	1,173	73,743	74,916	1.6%
2010	2.20 x 10 <sup>12</sup>	46.8	2.02 x 10 <sup>13</sup>	27.3	2,829	25,960	28,789	9.8%
2011	6.53 x 10 <sup>11</sup>	49.5	2.83 x 10 <sup>13</sup>	42.7	825	35,714	36,539	2.3%
2012			8.39 x 10 <sup>12</sup>	21.9		14,568		
2013	7.23 x 10 <sup>11</sup>	35.2	3.14 x 10 <sup>13</sup>	9.4	746	33,362	34,108	2.2%
2014			3.80 x 10 <sup>13</sup>	52.6		49,796		
2015	5.77 x 10 <sup>12</sup>	28.6	4.14 x 10 <sup>13</sup>	14.5	5559	41,783	47,342	11.7%
2016	2.51 x 10 <sup>12</sup>	53.7	3.90 x 10 <sup>13</sup>	11.6	3138	52,667	55,805	5.6%