

Mackerel (*Scomber scombrus*) in subareas 1-8 and 14 and in divisions 9.a, 12.a, and 12.b (Northeast Atlantic and adjacent waters)

ICES advice on fishing opportunities

ICES advises that when the maximum sustainable yield (MSY) approach is applied, catches in 2026 should be no more than 174 357 tonnes.

Non-fisheries conservation considerations

Conservation aspects and associated management measures may exist at a national or regional level but were not reviewed by ICES.

Stock development over time

Fishing pressure on the stock is above F_{MSY} and F_{PA} ; spawning-stock size is below $MSY B_{trigger}$, B_{PA} , and B_{lim} .

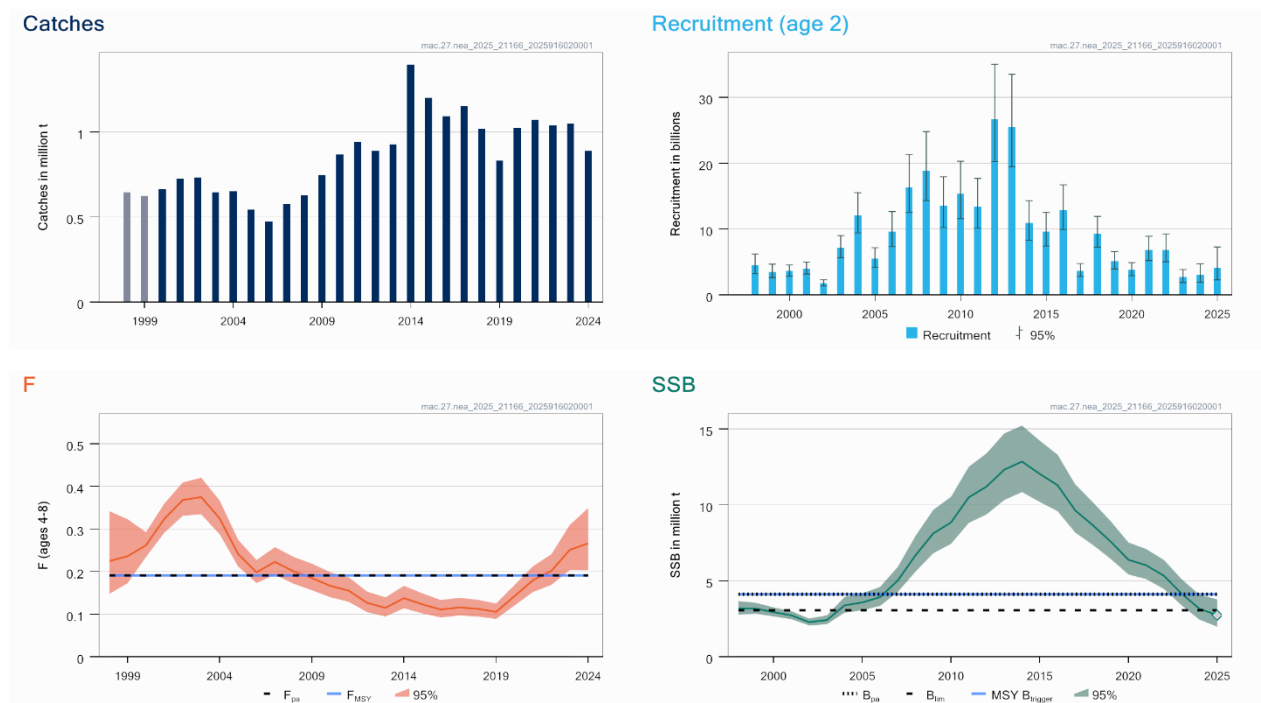


Figure 1 Mackerel | subareas 1–8 and 14 and divisions 9.a, 12.a, and 12.b. Summary of the stock assessment. Catches prior to 2000 have been downweighted in the assessment because of the considerable underreporting suspected to have taken place in this period. Catches do not include catches of ages 0, and 1 as they were not used in the assessment. Spawning-stock biomass (SSB) is at spawning time, and the predicted value for 2025 is highlighted with a diamond.

Catch scenarios

Table 1 Mackerel in subareas 1–8 and 14 and in divisions 9.a, 12.a, and 12.b. Values in the forecast and for the interim year.

Variable	Value	Notes
$F_{\text{ages 4–8}}$ (2025)	0.29	From the forecast for 2025, based on assumed catch for 2025
Spawning-stock biomass (SSB; 2025) at spawning time	2 740 823	From the forecast for 2025; tonnes
$R_{\text{age 2}}$ (2026–2027)	4 659 625	Resampled recruitments from the years 2017–2025 (geometric mean shown); thousands
Total catch (2025)	755 143	Sum of expected landings and discards, discards based on the observed landings in the first half of the year, accounting for the interannual transfers from 2024; tonnes

Table 2[‡] Mackerel in subareas 1–8 and 14 and in divisions 9.a, 12.a, and 12.b. Annual catch scenarios. All weights are in tonnes.

Basis	Total catch	$F_{\text{ages 4–8}}$	Spawning-stock biomass (SSB) at spawning time		% change			Probability of $SSB_{2027} < B_{lim}$ (%) [^]
	2026	2026–2027	2026	2027	SSB*	Catch**	Advice***	
ICES advice basis								
MSY approach: $SSB_{2027} = B_{lim}$	174357	0.072	2752834	3067887	11.4	-77	-70	50
Other scenarios								
$F_{2026} = F_{MSY} * SSB_{2025}/MSY$ $B_{trigger}$	299010	0.127	2732223	2964353	8.5	-60	-48	57
$F = F_{MSY} = F_{PA}$	435390	0.191	2708199	2848254	5.2	-42	-25	65
$F = 0$	0	0	2781516	3224181	15.9	-100	-100	39
$Catch_{2026} = catch_{2025} - 20\%$	604114	0.27	2676229	2710274	1.27	-20	4.7	73
$Catch_{2026} = catch_{2025}$	755143	0.36	2646111	2588554	-2.2	0	31	79
$Catch_{2026} = catch_{2025} + 25\%$	943928	0.47	2605601	2438883	-6.4	25	64	85
$F = F_{2025}$	630387	0.29	2671278	2685274	0.52	-16.5	9.3	75
$SSB_{2027} = B_{PA}^{^^}$								
$p(SSB_{2027} < B_{lim}) = 5\%^{^^}$								

* SSB_{2027} relative to SSB_{2026} .

** Catch in 2026 relative to estimated catches in 2025 (755 143 tonnes). There is no internationally agreed total allowable catch (TAC) for 2025.

*** Advice value for 2026 relative to the advice value for 2025 (576 958 tonnes).

[^] The probability of SSB being below B_{lim} in 2027. This probability relates to the short-term probability of $SSB < B_{lim}$ and is not comparable to the long-term probability of $SSB < B_{lim}$ tested in simulations when estimating fishing mortality reference points.

^{^^} These options cannot be achieved even with zero catch in 2026.

The change in advice (-70%) is due to the decline in the stock size, a reduction in advised fishing pressure to achieve a 50% probability of spawning-stock biomass (SSB) being above B_{lim} in 2027 (because SSB_{2025} is below B_{lim}) and the change in the perception of the stock after the benchmark.

[‡] Version 2: corrected the description under 'Basis' for the ICES advice scenario and the catch change value for the $F=0$ scenario.

Basis of the advice

Table 3 Mackerel in subareas 1-8 and 14 and in divisions 9.a, 12.a, and 12.b. The basis of the advice.

Advice basis	Maximum sustainable yield (MSY) approach
Management plan	There is no internationally agreed long-term management strategy for Northeast Atlantic (NEA) mackerel

Quality of the assessment

The stock was benchmarked in 2025 (ICES, 2025a). Several changes were made, including the use of a new age-varying natural mortality, the use of radio-frequency identification (RFID) data as an abundance-at-age index in place of the raw recapture data, the inclusion of abundance indices for the younger ages from the IESSNS survey (age 2) and the tagging data (age 2-4). In addition, the assessment period was shortened (now starting in 1998), and the minimum age of fish included in the assessment increased from 0 to 2.

These changes resulted in an upward revision in the estimated stock size and downward revision in fishing mortality, mostly because of the new natural mortality assumption, and a corresponding revision to biomass (upwards) and fishing mortality (downwards) reference points. The benchmark led to an improvement of the retrospective pattern (upward revisions of stock size around 2015), and to more accurate recruitment estimates (now at age 2, informed by two indices and catch information).

Following the inclusion of a new year of data since the benchmark, the assessment of the state of the stock remains consistent but with a lower uncertainty in the estimated stock size and fishing mortality.

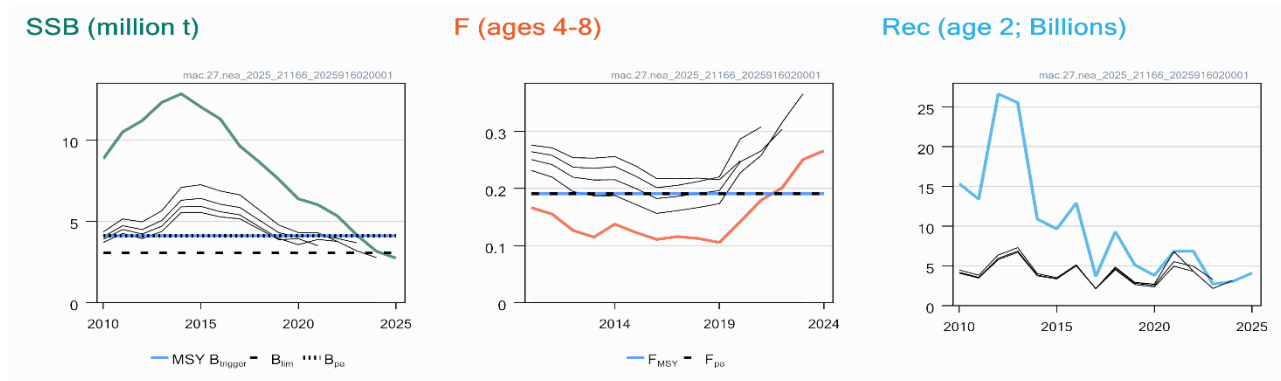


Figure 2 Mackerel in subareas 1-8 and 14 and in divisions 9.a, 12.a, and 12.b. Historical assessment results. The reference points were revised in 2025 following a benchmark, and only assessment results from the latest assessment should be compared to the reference points indicated. Prior to the 2022 assessment, recruitment was presented as age 0 and is not shown.

Issues relevant for the advice

The sum of the unilateral quotas for mackerel has resulted in catches that have exceeded the scientific advice by, on average, 39% since 2010. The stock is estimated to be below both MSY $B_{trigger}$ and B_{lim} in 2025. The advice is based on the MSY approach that should lead to a short-term recovery above B_{lim} and a medium-term recovery above MSY $B_{trigger}$. Failing to adhere to the advised catches as derived from the application of the MSY approach may lead to a lower chance of the stock recovering to above B_{lim} in the short term and to above MSY $B_{trigger}$ in the longer term.

Following the guidelines, to provide advice for stocks below B_{lim} , 2017-2025 was selected as the time period to calculate the recruitment in the forecast to reflect the currently observed low stock productivity (ICES, 2025b).

The advice for 2026 is based on a fishing mortality that leads to a 50% probability of SSB being above B_{lim} in 2027. The forecasted SSB in 2027 is composed of more than 40% of age 2 and age 3 fish, for which the abundances are based on recruitment assumptions, rather than assessment estimates. Therefore, the forecasted SSB in 2027 and the advice are sensitive to the forecast assumptions.

Reference points

Table 4 Mackerel in subareas 1–8 and 14 and in divisions 9.a, 12.a, and 12.b. Reference points, values, and their technical basis.

Framework	Reference point	Value	Technical basis	Source
Maximum sustainable yield (MSY) approach	MSY $B_{trigger}$	4 119 337	B_{PA} ; tonnes	ICES (2025a)
	F_{MSY}	0.191	Stochastic simulations, capped at F_{PA}	ICES (2025a)
Precautionary approach	B_{lim}	3 067 017	Lowest spawning-stock biomass (SSB) level that in the past has resulted in good recruitment (2002, 2004, 2005); in tonnes	ICES (2025a)
	B_{PA}	4 119 337	$B_{lim} \times \exp(1.65 \times \sigma)$, $\sigma = 0.179$; tonnes	ICES (2025a)
	F_{PA}	0.191	The F that provides a 95% probability for SSB to be above B_{lim} (F_{POS} with advice rule)	ICES (2025a)

Basis of the assessment

Table 5 Mackerel in subareas 1–8 and 14 and in divisions 9.a, 12.a, and 12.b. Basis of the assessment and advice.

ICES stock data category	1 (ICES, 2023)
Assessment type	Age-based analytical model (SAM)*
Input data	Catch data, steel tagging data ([L3182] 1998–2006), and three survey indices: SSB index from the triennial egg survey ([I4189] 1992–2025), abundance indices from the RFID tagging data ([L5543] age 2–11, 2013–2023), and from the IESSNS survey ([A7806] ages 3–11, 2010, 2012–2025 and age 2, 2018–2025). Catches prior to 2000 are given a very low weight in the assessment. Weight-at-age updated annually from samples. Maturity ogive and age-varying natural mortality constant over years.
Discards	Discarding is known to take place (0.3% of the total catch in weight in 2024) but is only quantified for part of the fisheries; the proportion of the landings covered cannot be calculated. Partial discard estimates are included in the assessment and overall discarding in recent years is assumed negligible.
Indicators	None
Other information	Benchmarked in 2025 (WKBMACNSSH; ICES, 2025a)
Working group	Working Group on Widely Distributed Stocks (WGWIDE; ICES 2025c)

* [View assessment in Transparent Assessment Framework \(TAF\)](#)

History of the advice, catch, and management

Table 6 Mackerel in subareas 1–8 and 14 and in divisions 9.a, 12.a, and 12.b. History of ICES advice, the total allowable catch (TAC), and ICES estimates of catch. All weights are in tonnes.

Year	ICES advice	Catch corresponding to advice	TAC *	ICES landings	Discards and slipping	ICES catch
1987	Given by stock component		442000	644016	10789	654805
1988	Given by stock component		610000	644926	35566	680492
1989	Given by stock component		532000	582419	7090	589509
1990	Given by stock component		562000	611911	15600	627511
1991	Given by stock component		612000	637183	30700	667883
1992	Given by stock component		707000	735351	25000	760351
1993	Given by stock component		767000	806856	18180	825036
1994	Given by stock component		837000	816025	5370	821395
1995	Given by stock component		645000	748079	7721	755800
1996	Significant reduction in F	-	452000	552196	11415	563611
1997	Significant reduction in F	-	470000	550749	18864	569613
1998	F between 0.15 and 0.2	498000	549000	658652	8012	666664
1999	F of 0.15 consistent with PA	437000	562000	640311	n/a	640311
2000	$F = 0.17$: F_{pa}	642000	612000	671793	3832	675625
2001	$F = 0.17$: F_{pa}	665000	670000	735412	1215	736627
2002	$F = 0.17$: F_{pa}	694000	683000	747710	23878	771588
2003	$F = 0.17$: F_{pa}	542000	583000	659857	19980	679838
2004	$F = 0.17$: F_{pa}	545000	532000	640532	20300	660833

Year	ICES advice	Catch corresponding to advice	TAC *	ICES landings	Discards and slipping	ICES catch
2005	F = 0.15 to 0.20	320000–420000	422000	523897	26388	550285
2006	F = 0.15 to 0.20	373000–487000	444000	462169	26737	488906
2007	F = 0.15 to 0.20	390000–509000	502000	571245	15648	586893
2008	F = 0.15 to 0.20	349000–456000	458000	597638	37156	634794
2009	F = 0.15 to 0.20	443000–578000	605000**	737939	16118	754057
2010	Harvest control rule	527000–572000	885000^	864236	13183	877420
2011	See scenarios	529000–672000	959000^	938070	11459	949529
2012	Follow the management plan	586000–639000	927000^	884376	15200	899576
2013	Follow the management plan	497000–542000	906000^	932204	4799	937003
2014	Follow the management plan	927000–1011000	1392000^	1395336	6430	1401766
2015	Follow the management plan	831000–906000	1229000^	1205407	10353	1215760
2016	Maximum sustainable yield (MSY) approach	≤ 773842	1057000^	1094281	6005	1100286
2017	MSY approach	≤ 857185	1173000^	1158380	2847	1161226
2018	MSY approach	≤ 550948	998000^	1021031	2748	1023779
2019	MSY approach	≤ 770358	864000^	831925	6516	838441
2020	MSY approach	≤ 922064	1090879^	1030272	1556	1031828
2021	MSY approach	≤ 852284	1199103^	1079523	3133	1082656
2022	MSY approach	≤ 794920	1188227^	1043141	3562	1046702
2023	MSY approach	≤ 782066	1188265^	1053402	3123	1056526
2024	MSY approach	≤ 739386	990582^	894735	2966	897701
2025	MSY approach	≤ 576958	760714^			
2026	MSY approach	≤ 174 357				

n/a = not available.

* For all areas, except some catches in international waters in Subarea 2.

** Does not include the unilateral Norway–Faroe Islands TAC, first declared in 2009, nor the Icelandic quota.

^ No internationally agreed quotas. Values presented are the sum of declared quotas (including interannual transfers).

History of the catch and landings

Table 7 Mackerel in subareas 1–8 and 14 and in divisions 9.a, 12.a, and 12.b. Landings distribution by fleet and discards, as estimated by ICES. All weights are in tonnes

Catch (2024)	Landings			Discards
897 701	Pelagic trawl 71%	Purse-seine 28%	Others 1%	2 966 *
	894 735			

* Only quantified for part of the fisheries.

Table 8 Mackerel in subareas 1–8 and 14 and in divisions 9.a, 12.a, and 12.b. History of commercial catch and landings; ICES estimates are presented by country. All weights are in tonnes. “Misreported” refers to assumed area misreporting between divisions 4.a and 6.a, and “Unallocated” indicates differences between official reported values and ICES estimates.

Country	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Belgium	125	177	146	98	22	2	5	1	3	1	2	3	29	21
Denmark	27416	30011	29177	22522	34376	27621	25665	23212	24219	25223	26726	23491	41445	35958
Estonia	7356	3595	2673	219										
Faroe Islands	11229	11620	21023	24005	19768.3	14014	13030	9769	12067	13430	11289	14062	70987	122050
France	17835	16367	19445	20956	21878	22906	20266	16338	14953	20038	15602	18340	11386	12766
Germany	21412	19949	22979	25307	26532	24059	23244	19040	16608	18221	15502	22703	19055	24083
Greenland														62
Iceland	357				53	122		363	4222	36706	112286	116160	121008	159263
Ireland	66650	59675	71233	70452	72172	67355	61102	45687	40664	49259	44760	61056	57994	61596
Lithuania			2085						95	7				23
Netherlands	30163	28621	32407	36096	33450	30468	27532	25126	24157	24244	19972	23568	23088	28395
Norway	158177	160738	174098	180595	184291	163406	157363	119678	121993	131691	121524	121229	233952	208065
Poland							0.062	591	1368	978	0.16	0.17		
Portugal	2897	2002	2253	3119	2995	2749	2289	1656	2889	3086	2954	2681	4121	3265
Spain	44607	45915							54136	62946	64637	114074	52737	18725
Sweden	5146	5233	4994	5098	5234	4451	4440	3206	3212	3858	3662	7304	3429	3248
UK	185948	160152	192196	249307	244544	235017	214770	152714	103050	133695	124924	171992	160425	180989
USSR/Russian Federation	67836	51348	50772	41568	45811	40026	49489	40495	33580	35408	32728	41414	59310	73601
Misreported		-211												
Unallocated	11498	38996	46311	56070	56584	27660	41337	66022	4954	12453	1069	-139	5271	5961
Discards	8030		3832	1215	23878	19980	20300	26388	26737	15648	37156	16118	13183	11459
Total	666682	634399	675625	736627	771588	679838	660833	550285	488906	586893	634794	754057	877420	949529

Table 8 (cont.)

Country	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Belgium	39	62	56	52	143	128	168	66	124	110	242	68	60
Denmark	36500	33218	42222	46870	41139	40028	30690	30563	38485	32796	21434	28209	28304
Estonia		1367											
Faroe Islands	107630	143001	150236	108411	93267	99667	81079	62665	69064	105096	133757	175832	72163
France	20467	14643	21719	25704	20189	22950	21380	17870	21878	16442	17373	14807	15604
Germany	18944	20931	28456	28257	23411	24858	19883	16904	25030	11996	14128	17024	17403
Greenland	7402	52783	78581	30351	36142	46419	62973	30241	26577	33360	18039	28324	14789
Iceland	149282	151238	172960	169333	170374	167366	168330	128077	151534	132109	129976	141370	89614
Ireland	63049	56511	103178	88745	76526	84915	66747	53312	74114	60752	52273	51956	50818
Lithuania			9598	565	2652				853	6656		237	
Netherlands	25817	21159	46665	39808	37929	43766	30392	22694	30318	25693	26332	21343	18674
Norway	176023	164607	277731	242231	209352	222356	187207	159107	211672	270653	294086	213274	250186
Poland	0.17			24	0	1	4057	3706	5302	1779	105	3231	1061
Portugal	5692	5388	7952	8293	6688	4331	4565	3940	4799	4723	3567	2104	1648
Spain	19386	16414	37806	34530	30036	32885	30037	21112	34307	27783	29424	25267	22331
Sweden	4564	2906	4422	3930	3663	3701	3966	2958	3671	3514	3244	2207	1992
UK	169757	163822	287866	247993	217645	226948	190913	152166	203726	209886	197032	216635	225562
USSR/Russian Federation	74587	80817	116433	128433	121644	138061	118255	126544	128817	136176	102129	111512	84526
Unallocated	5237	3337	9457	1876	3484		392						
Discards	15200	4799	6430	10353	6005	2847	2748	6516	1556	3133	3562	3123	2966
Total	899576	937003	1401766	1215760	1100286	1161226	1023779	838441	1031828	1082656	1046702	1056526	897701

Table 9 Mackerel in subareas 1–8 and 14 and in divisions 9.a, 12.a, and 12.b. History of catch and landings; the ICES estimates are presented by area. All weights are in tonnes.

Year	Subarea 6			Subarea 7 and divisions 8.a, 8.b, 8.d, and 8.e			Subareas 3 and 4			Subareas 1, 2, 5, 14, 12a, and 12b			Divisions 8.c and 9.a			Total		
	Landings	Discards	Catch	Landings	Discards	Catch	Landings	Discards	Catch	Landings	Discards	Catch	Landings	Discards	Catch	Landings	Discards	Catch
1998	110141	71	110212	105181	3206	108387	264947	4735	269682	134219		134219	44 164		44164	658652	8012	666664
1999	116362		116362	94290		94290	313014		313014	72848		72848	43796		43796	640311		640311
2000	156031	1	156032	115711	1918	117630	271420	1913	273333	92557		92557	36074		36074	671793	3832	675625
2001	133430	83	133513	150008	1081	151089	341663	51	341714	67113		67113	43198		43198	735412	1215	736627
2002	127966	12931	140897	104143	2364	106507	391857	8583	400440	74109		74109	49637		49637	747710	23878	771588
2003	135690	1399	137089	90352	6256	96608	354109	11794	365904	53883		53883	25823	531	26354	659857	19980	679838
2004	133033	1705	134738	103703	6329	110032	306043	11329	317372	62913	9	62922	34841	928	35769	640532	20300	660833
2005	79975	8201	88176	90280	12609	102889	249748	4782	254530	54129		54129	49765	796	50561	523897	26388	550285
2006	91539	6081	97621	66219	8746	74965	204674	8302	212977	46716		46716	53020	3607	56627	462169	26737	488906
2007	110788	2450	113238	71237	7871	79108	253013	4255	257268	72891		72891	63315	1072	64387	571245	15648	586893
2008	81109	21889	102997	75272	5543	80814	232157	8862	241019	148669	112	148781	60432	750	61182	597638	37156	634794
2009	141529	3927	145456	91412	2945	94357	232718	8281	240999	163604		163604	108676	966	109642	737939	16118	754057
2010	106732	2904	109636	104129	4686	108815	246819	949	247768	355731	5	355736	50826	4640	55465	864236	13183	877420
2011	160756	1836	162592	51098	5384	56482	301746	2405	304151	398132	28	398160	26339	1807	28145	938070	11459	949529
2012	121114	952	122067	65728	9673	75401	218400	1142	219541	449325	1	449326	29809	3431	33240	884376	15200	899576
2013	132062	273	132335	49869	1703	51572	260922	355	261277	464484	13	464498	24867	2455	27322	932204	4799	937003
2014	180067	340	180408	93709	1388	95098	383887	326	384213	684082	91	684173	53590	4284	57874	1395336	6430	1401766
2015	134728	29	134757	98574	3068	101642	295877	44	295921	632493	78	632571	43735	7134	50869	1205407	10353	1215760
2016	206326	200	206526	37301	1950	39252	248070	581	248651	563528	54	563582	39056	3220	42276	1094281	6005	1100286
2017	225972	151	226123	21135	2002	23137	270921	405	271327	603838	62	603900	36512	227	36739	1158380	2847	1161226
2018	157249	90	157339	31970	1470	33441	342362	619	342981	455689	51	455740	33761	518	34279	1021031	2748	1023779
2019	122991	144	123135	32848	4666	37514	307236	756	307992	345019	18	345037	23832	932	24764	831925	6516	838441
2020	130577	341	130918	48807	340	49147	456517	732	457250	356985		356985	37386	143	37529	1030272	1556	1031828
2021	146519	117	146635	15912	2529	18440	222119	423	222542	663111		663111	31862	65	31928	1079523	3133	1082656
2022	63850	222	64072	25084	686	25770	350718	2475	353193	571403		571403	32086	178	32264	1043141	3562	1046702
2023	116875	147	117022	11307	2474	13782	376512	387	376899	522456	0.02	522456	26252	115	26366	1053402	3123	1056526
2024	136014	753	136767	12038	1526	13564	371175	405	371580	353018		353020	22490	280	22771	894735	2966	897701

Table 10 Mackerel in subareas 1-8 and 14 and in divisions 9.a, 12.a, and 12.b. Catches inside and outside the NEAFC regulatory areas (RAs), as estimated by ICES, as well as total catches. Weights are in tonnes.

Year	Inside the NEAFC RAs	Outside the NEAFC RAs	Total catch	Percentage inside the NEAFC RAs
2018	213608	810171	1023779	21
2019	207200	631241	838441	25
2020	247901	783927	1031828	24
2021*	195938	749427	945365	21
2022*	186199	758392	944591	20
2023	262370	794156	1056526	25
2024	125204	772497	897701	14

* Without catches from the Russian Federation, as it did not report catches inside/outside the NEAFC RAs for 2021 or 2022. In the past, around 90% of Russian catches were taken inside the NEAFC RAs.

Summary of the assessment

Table 11 Mackerel in subareas 1-8 and 14 and in divisions 9.a, 12.a, and 12.b. Assessment summary. Weights are in tonnes and recruitment in thousands. "High" and "Low" values indicate the 95% confidence intervals.

Year	Recruitment (age 2)			Spawning-stock biomass (SSB) at spawning time			Total catch*	F (ages 4–8)		
	Low	Value	High	Low	Value	High		Low	Value	High
1998	3235935	4487490	6223106	2767577	3189212	3675083	646744	0.147	0.22	0.34
1999	2649038	3519337	4675560	2831913	3176574	3563183	623345	0.173	0.24	0.32
2000	2857548	3611987	4565611	2658534	2942079	3255865	663328	0.23	0.26	0.29
2001	3180809	3981608	4984016	2476412	2731919	3013789	728111	0.29	0.32	0.36
2002	1375825	1782675	2309836	2068035	2285012	2524755	734436	0.33	0.37	0.41
2003	5670215	7152487	9022245	2141418	2418703	2731893	646596	0.33	0.37	0.42
2004	9428758	12102608	15534720	2906523	3386023	3944629	652254	0.29	0.32	0.37
2005	4205668	5492222	7172345	3062951	3581529	4187905	543402	0.21	0.24	0.27
2006	7343781	9644614	12666308	3352610	3929231	4605026	475688	0.173	0.198	0.23
2007	12528693	16353119	21344964	4266298	5030467	5931513	577647	0.193	0.22	0.26
2008	14334799	18863103	24821881	5608936	6687513	7973498	627549	0.172	0.20	0.23
2009	10230181	13552349	17953365	6819839	8128171	9687495	749162	0.156	0.185	0.22
2010	11604843	15357517	20323699	7435755	8852951	10540253	869705	0.140	0.167	0.199
2011	10132974	13394211	17705056	8813789	10504788	12520220	943111	0.129	0.155	0.187
2012	20265348	26644541	35031798	9375395	11208960	13401119	890040	0.105	0.127	0.153
2013	19466835	25544691	33520150	10322367	12323807	14713313	927124	0.095	0.115	0.140
2014	8298320	10897585	14311013	10848708	12856027	15234759	1397906	0.114	0.138	0.167
2015	7423727	9649393	12542323	10193681	12047160	14237650	1201421	0.102	0.123	0.149
2016	9955189	12909399	16740273	9591026	11304014	13322947	1094934	0.092	0.111	0.133
2017	2809087	3662980	4776437	8180386	9642070	11364931	1152946	0.097	0.116	0.138
2018	7250060	9306894	11947249	7362827	8656092	10176515	1017413	0.095	0.113	0.134
2019	3965027	5115757	6600451	6442600	7586899	8934442	833313	0.089	0.105	0.125
2020	2933466	3795689	4911344	5418184	6389023	7533819	1026050	0.120	0.142	0.168
2021	5216606	6825520	8930659	5116477	6028589	7103302	1073866	0.152	0.180	0.21
2022	5043946	6838341	9271095	4463692	5337128	6381475	1038522	0.169	0.20	0.24
2023	1888947	2701484	3863535	3379915	4156171	5110708	1052977	0.20	0.25	0.31
2024	1939950	3030156	4733032	2447226	3165538	4094689	889848	0.20	0.27	0.35
2025	2300033	4094160	7287784	1984050**	2740823**	3784036**				

* Not including catches of age 0 and 1 fish, as they are not used in the assessment

** Estimated value from the forecast.

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