

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 2027 should be no more than 352 938 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 $B_{trigger}$ and B_{PA} and above B_{lim} .

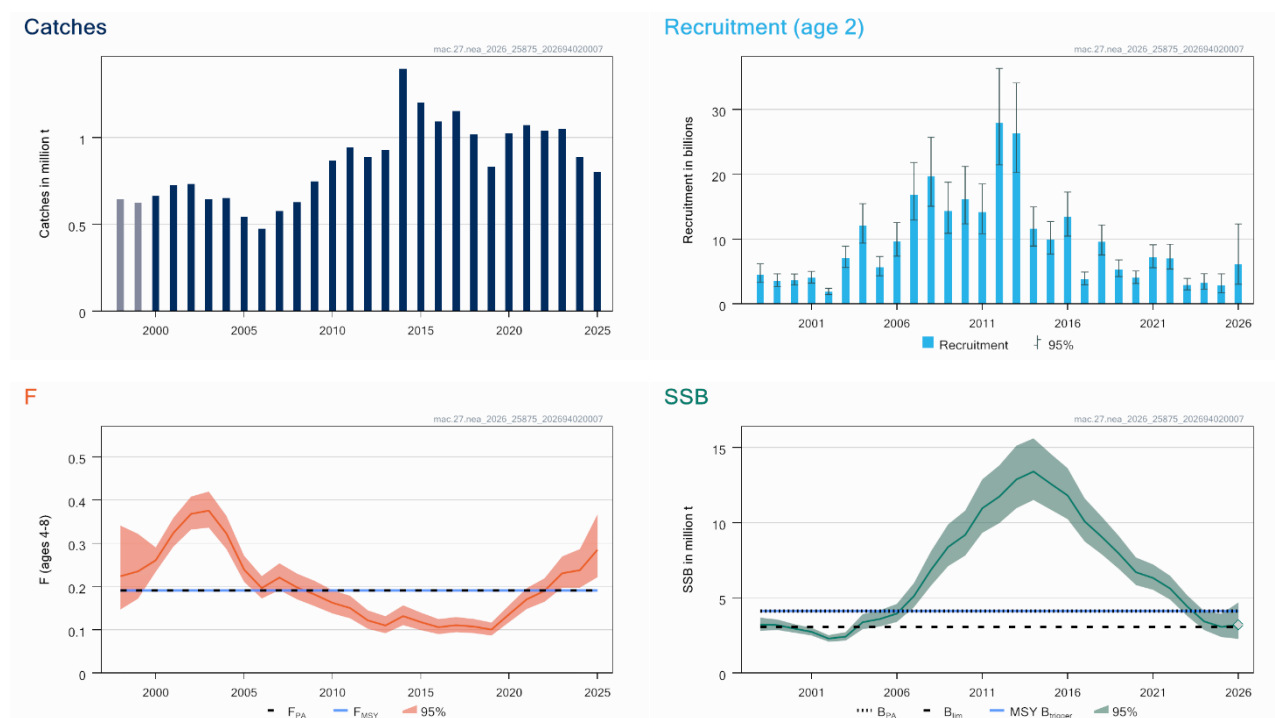


Figure 1. Mackerel in subareas 1–8 and 14 and divisions 9.a, 12.a, and 12.b. Summary of the stock assessment. Catches prior to 2000 have been downweighed in the assessment because of the considerable underreporting suspected to have taken place in this period. Catches do not include catches of ages 0 or 1, as they were not used in the assessment. Spawning-stock biomass (SSB) is at spawning time, and the predicted value for 2026 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 _{ages 4–8} (2026)	0.167	From the forecast for 2026, based on assumed catch for 2026
Spawning-stock biomass (SSB; 2026) at spawning time	3 204 507	From the forecast for 2026; tonnes
R _{age 2} (2027–2028)	4 787 144	Resampled recruitments from the years 2017–2026 (geometric mean shown); thousands
Total catch (2026)	398 186	Sum of expected landings and discards, accounting for the interannual transfers from 2025; 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 _{ages 4–8}	Spawning-stock biomass (SSB) at spawning time		% change			Probability of SSB ₂₀₂₈ < B _{lim} (%)^
	2027	2027–2028	2027	2028	SSB*	Catch**	Advice***	
ICES advice basis								
Maximum sustainable yield (MSY) approach: F ₂₀₂₇ = F _{MSY} * SSB ₂₀₂₆ /MSY B _{trigger}	352938	0.149	3135352	3345872	6.71	–11.36	102.42	33.2
Other scenarios								
F=F _{MSY} =F _{PA}	443198	0.191	3118364	3269935	4.86	11.3	154.19	37.6
F = 0	0	0	3196892	3652549	14.25	–100	–100	16.9
Catch ₂₀₂₇ = Catch ₂₀₂₆	398187	0.169	3127653	3307790	5.76	0	128.37	35.6
Catch ₂₀₂₇ = Catch ₂₀₂₆ +25%	497733	0.217	3108611	3223577	3.7	25	185.47	40.7
Catch ₂₀₂₇ = Catch ₂₀₂₆ –20%	318549	0.132	3142315	3374873	7.4	–20	82.7	31.6
F = F ₂₀₂₆	392517	0.167	3127869	3312345	5.9	–1.42	125.12	35.1
SSB ₂₀₂₈ = B _{lim} ^^	675632	0.309	3069021	3068002	–0.03	69.68	287.5	50
SSB ₂₀₂₈ = B _{PA} ^^								
p(SSB ₂₀₂₈ < B _{lim}) = 5%^^								
Technical service scenarios#								
HCRa ^{##} , all F _{min} options	352938	0.149	3135352	3345872	6.71	–11.36	102.42	33.2
HCRb; F _{min} =0 ^{###}	63697	0.0249	3186439	3596764	12.88	–84	–63.47	19.4
HCRb; F _{min} =0.025	63811	0.025	3186421	3596663	12.87	–83.97	–63.4	19.4
HCRb; F _{min} =0.05	125744	0.05	3175869	3542169	11.53	–68.42	–27.88	22.3
HCRb; F _{min} =0.075	185862	0.075	3165413	3489351	10.23	–53.32	6.6	25
HCRb; F _{min} =0.1	244227	0.1	3155358	3438653	8.98	–38.67	40.07	27.7

* SSB₂₀₂₈ relative to SSB₂₀₂₇.

** Catch in 2027 relative to forecasted catches in 2026 (398 186 tonnes). There is no internationally agreed total allowable catch (TAC) for 2026.

*** Advice value for 2027 relative to the advice value for 2026 (174 357 tonnes).

[^] The probability of SSB being below B_{lim} in 2028. 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.

^{^^} The SSB value differs slightly from B_{lim} because the forecast is constrained by fishing mortality, and this is the closest value to B_{lim} that could be achieved.

^{^^^} These options cannot be achieved even with zero catch in 2027.

[#] HCRa and HCRb correspond to the harvest control rules (HCRs) tested in the technical service regarding the impacts of different HCRs for Atlantic mackerel (ICES, 2026a). Both HCRs apply a fishing mortality equal to F_{MSY} when the SSB in the current year is equal to or above MSY B_{trigger}. Below MSY B_{trigger} the rules apply a linear decline of F towards F=0 at SSB=0 for HCRa and towards F=0 for SSB=B_{lim} for HCRb until a minimum level of fishing mortality (F_{min}).

^{##} For all stock sizes above B_{lim}, HCRa gives the same advice as the ICES HCR rule.

^{###} SSB at the beginning of the advice year is above B_{lim}, therefore the advised fishing mortality for this HCR is positive and by chance is very close to the F_{min} = 0.025.

Due to an improved recruitment in 2026 (2024 year class), higher mean weights-at-age in the stock, SSB_{2026} is estimated to be above B_{lim} . This allows for a higher advised fishing pressure than last year (0.15 for the 2026 advice compared to 0.07 for the 2025 advice), resulting in an increase in advice by 102%.

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

Following the inclusion of a new year of data, the estimated stock size remains consistent with last year’s assessment, but there is a downwards revision of the estimated fishing mortality. This retrospective pattern is expected, as the model is still adjusting to some of the input data series that are short (tag index and IESSNS recruitment index).

The higher recruitment in 2026 is based only on the 2026 IESSNS age 2 index and remains to be confirmed when catch data are available.

The final spawning-stock biomass (SSB) index from the 2025 egg survey is 13% lower than the preliminary estimate used in the previous assessment. The stock assessment output was insensitive to this revision.

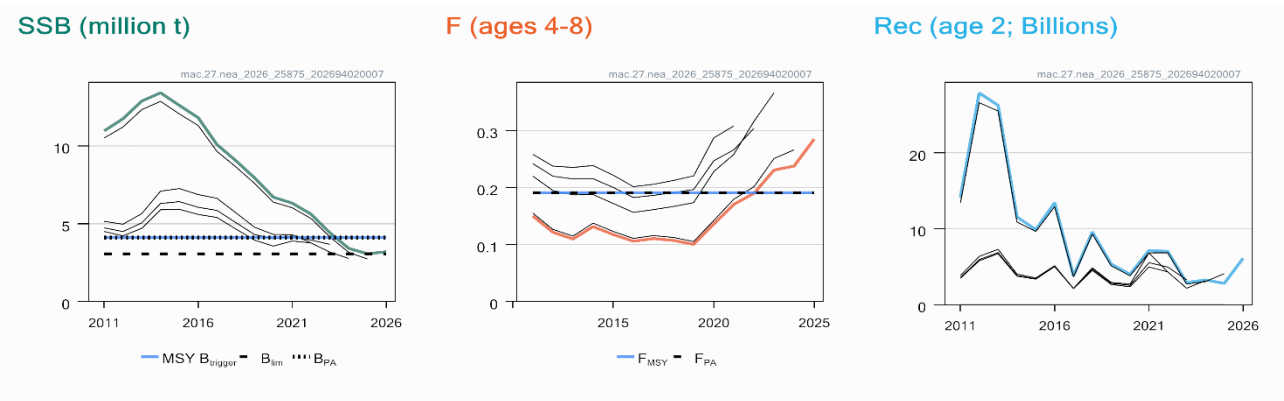


Figure 2 Mackerel in subareas 1–8 and 14 and in divisions 9.a, 12.a, and 12.b. Historical assessment results. The reference points were revised in 2025 following a benchmark, and only assessment results from the latest assessment should be compared to the reference points indicated. Prior to the 2022 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 above B_{lim} in 2026 but remains below $MSY B_{trigger}$. The advice is based on the MSY approach, which is intended to lead to 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 $MSY B_{trigger}$ in the medium term.

Following analysis of the changes in recruitment between 2004 and 2026 (ICES, 2026b), the years 2017–2026 were selected by ICES as the time period to calculate the recruitment in the forecast to reflect the currently observed low stock productivity.

On request from UK, Norway, Iceland, Greenland, and Faroes, ICES evaluated the performance of a set of rebuilding harvest control rules (HCRa and HCRb) for mackerel (ICES, 2026a). The HCRs were tested using a simulation framework that differs from the short-term forecast method used for the advice, and therefore the results presented in the technical service (ICES,

2026a) may differ from those presented in Table 2. As the stock is estimated to be above B_{lim} in 2026, all the HCRs tested lead to an advised fishing mortality for 2027 equal or lower than that from the ICES advice rule.

Based on the recruitment assumptions used in the forecast, SSB in 2028 is predicted to be composed of 41% of age-2 and age-3 fish. Therefore, the forecasted SSB in 2028 and the probability of SSB to be below B_{lim} in 2028 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	$B_{lim} \times \exp(1.645 \times \sigma)$, $\sigma = 0.179$; tonnes	ICES (2025a)
	F_{PA}	0.191	The F that provides a 95% probability for SSB to be above B_{lim} (F_{P05} 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, 2025b)
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] 1998–2025), abundance indices from the RFID tagging data ([L5543] age 2–11, 2013–2024), and from the IESSNS survey ([A7806] ages 3–11, 2010, 2012–2026 and age 2, 2018–2026). Catches prior to 2000 are given a very low weight in the assessment. Weight-at-age in the stock updated annually from samples from the commercial catches and surveys (tagging, egg survey) corresponding to mature fish at spawning time (calculated from the egg survey as the Julian day where 50% of the total egg production has occurred). 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 2025) 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 2026b)

* [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

Year	ICES advice	Catch corresponding to advice	TAC *	ICES landings	Discards and slipping	ICES catch
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
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^	806939	2236	809175
2026	MSY approach	≤ 174357	398186^			
2027	MSY approach	≤ 352938				

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

Estimated by JERS. All weights are in tonnes				
Catch (2025)	Landings			Discards
809 175	Pelagic trawl 80%	Purse-seine 19%	Others 1%	2 236*
	806 939			

* 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. Catches of all ages are included and therefore totals differ slightly for the values used in the assessment. 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	634188	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	2025
Belgium	39	62	56	52	143	128	168	66	124	110	242	68	60	28
Denmark	36500	33218	42222	46870	41139	40028	30690	30563	38485	32796	21434	28209	28304	21602
Estonia		1367												
Faroe Islands	107630	143001	150236	108411	93267	99667	81079	62665	69064	105096	133757	175832	72163	63934
France	20467	14643	21719	25704	20189	22950	21380	17870	21878	16442	17373	14807	15604	10428
Germany	18944	20931	28456	28257	23411	24858	19883	16904	25030	11996	14128	17024	17403	10674
Greenland	7402	52783	78581	30351	36142	46419	62973	30241	26577	33360	18039	28324	14789	35643
Iceland	149282	151238	172960	169333	170374	167366	168330	128077	151534	132109	129976	141370	89614	129627
Ireland	63049	56511	103178	88745	76526	84915	66747	53312	74114	60752	52273	51956	50818	39648
Lithuania			9598	565	2652				853	6656		237		
Netherlands	25817	21159	46665	39808	37929	43766	30392	22694	30318	25693	26332	21343	18674	14961
Norway	176023	164607	277731	242231	209352	222356	187207	159107	211672	270653	294086	213274	250186	156244
Poland	0.17			24	0	1	4057	3706	5302	1779	105	3231	1061	1487
Portugal	5692	5388	7952	8293	6688	4331	4565	3940	4799	4723	3567	2104	1648	3033
Spain	19386	16414	37806	34530	30036	32885	30037	21112	34307	27783	29424	25267	22331	19611
Sweden	4564	2906	4422	3930	3663	3701	3966	2958	3671	3514	3244	2207	1992	2035
UK	169757	163822	287866	247993	217645	226948	190913	152166	203726	209886	197032	216635	225562	182052
USSR/Russian Federation	74587	80817	116433	128433	121644	138061	118255	126544	128817	136176	102129	111512	84526	115932
Unallocated	5237	3337	9457	1876	3484		392							
Discards	15200	4799	6430	10353	6005	2847	2748	6516	1556	3133	3562	3123	2966	2236
Total	899576	937003	1401766	1215760	1100286	1161226	1023779	838441	1031828	1082656	1046702	1056526	897701	809175

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. Catches of all ages are included and therefore totals differ slightly for the values used in the assessment. 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	145599	753	146353	12038	1526	13564	371175	405	371580	343432	2	343434	22490	280	22771	894735	2966	897701
2025	66765	201	66967	10952	1265	12217	290032	661	290693	417401		417401	21789	108	21897	806939	2236	809175

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
2025	263204	545971	809175	33

* 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	3315492	4531254	6192824	2800786	3214314	3688899	646744	0.147	0.22	0.34
1999	2677409	3523605	4637240	2860047	3192211	3562951	623345	0.172	0.24	0.32
2000	2900338	3655757	4607933	2680090	2952500	3252598	663328	0.23	0.26	0.29
2001	3205045	4005613	5006150	2495140	2741529	3012249	728111	0.29	0.32	0.36
2002	1429831	1852750	2400760	2081775	2291314	2521943	734436	0.33	0.37	0.41
2003	5618481	7074268	8907259	2152053	2420499	2722430	646596	0.34	0.38	0.42
2004	9373591	12038751	15461686	2913321	3378885	3918847	652254	0.29	0.32	0.36
2005	4335729	5631834	7315391	3089174	3590570	4173346	543402	0.21	0.24	0.27
2006	7368130	9619903	12559841	3398108	3955513	4604351	475688	0.172	0.197	0.22
2007	12940027	16806214	21827530	4373010	5119809	5994144	577647	0.192	0.22	0.25
2008	15072728	19689534	25720476	5807103	6862794	8110403	627549	0.170	0.198	0.23
2009	10892947	14303392	18781606	7106140	8384332	9892436	749162	0.154	0.181	0.21
2010	12359216	16198975	21231669	7807245	9186948	10810473	869705	0.138	0.162	0.192
2011	10816117	14150325	18512346	9320241	10958418	12884530	943111	0.126	0.150	0.179
2012	21462558	27931300	36349699	9968516	11737461	13820310	890040	0.102	0.122	0.145
2013	20269414	26293033	34106737	10961432	12876481	15126104	927124	0.092	0.110	0.131
2014	8940179	11572417	14979660	11508015	13404944	15614554	1397906	0.111	0.132	0.157
2015	7691163	9890879	12719728	10869558	12595250	14594918	1201421	0.099	0.118	0.140
2016	10473499	13445196	17260067	10231626	11808346	13628043	1094934	0.090	0.106	0.125
2017	2942924	3802002	4911856	8743605	10079263	11618954	1152946	0.094	0.111	0.130
2018	7549349	9588850	12179334	7885885	9053455	10393893	1017413	0.092	0.107	0.125
2019	4202048	5342459	6792372	6918422	7941650	9116211	833313	0.087	0.101	0.117
2020	3140134	3994399	5081063	5847401	6704705	7687699	1026050	0.118	0.136	0.157
2021	5571707	7127157	9116842	5531516	6323044	7227834	1073866	0.148	0.171	0.197
2022	5369544	7031732	9208464	4879845	5620342	6473206	1038522	0.165	0.190	0.22
2023	2158682	2910909	3925262	3787637	4426716	5173626	1052977	0.197	0.23	0.27
2024	2274043	3250530	4646325	2851192	3426676	4118316	889848	0.197	0.24	0.29
2025	1695159	2800742	4627386	2391464	3072051	3946328	802265	0.22	0.29	0.37
2026	3032417	6117286	12340380	2266982**	3204507**	4700866**				

* 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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