

Hake (*Merluccius merluccius*) in subareas 4, 6, and 7, and in divisions 3.a, 8.a–b, and 8.d, Northern stock (Greater North Sea, Celtic Seas, and the northern Bay of Biscay)

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 54 912 tonnes.

ICES notes the existence of a precautionary management plan developed and adopted by one of the relevant management authorities for this stock.

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 below F_{MSY} , and spawning-stock size is above MSY $B_{trigger}$, B_{PA} , and B_{lim} .

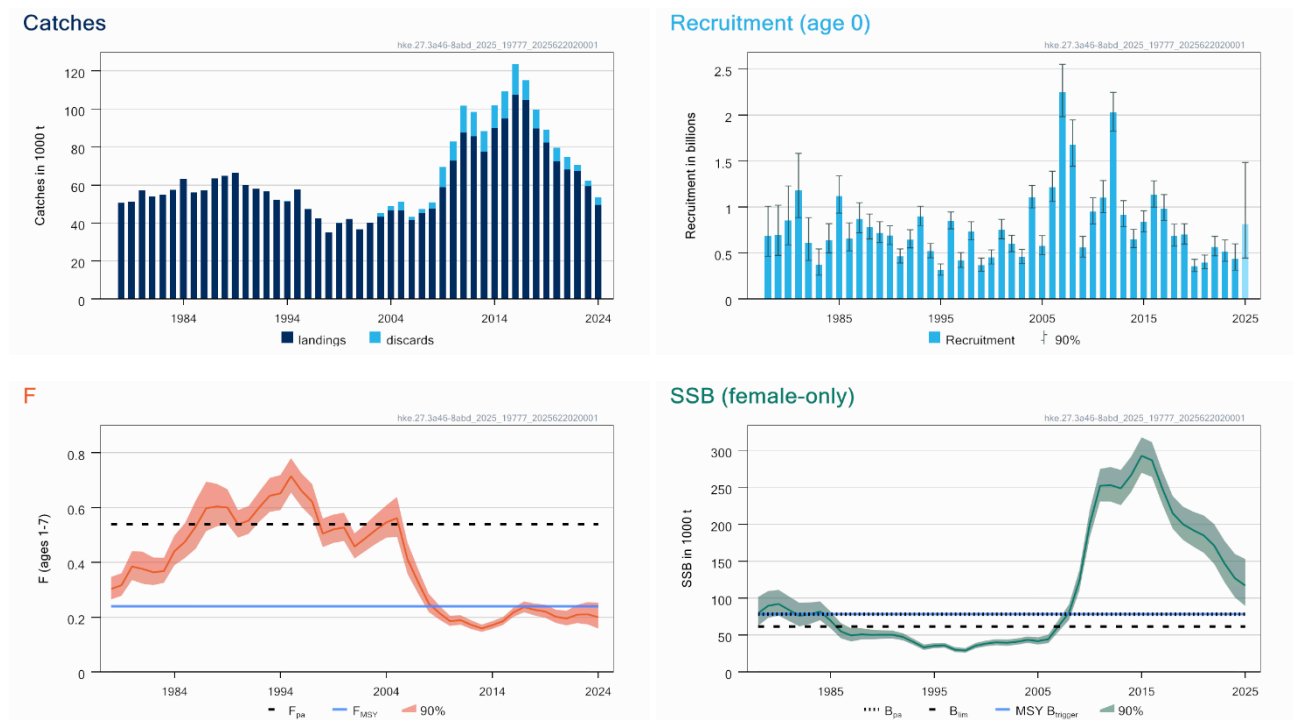


Figure 1 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. Summary of the stock assessment. The assumed recruitment value for 2025 is shaded in a lighter colour.

Catch scenarios

Table 1 Hake in subareas 4, 6, and 7, and in divisions 3.a, 8.a–b, and 8.d, Northern stock. Values in the forecast and for the interim year.

Variable	Value	Notes
$F_{ages\ 1-7}$ (2025)	0.21	Average $F_{ages\ 1-7}$ (2022–2024)
Spawning-stock biomass (SSB; 2026)	110 427	Short-term forecast (STF); female-only, in tonnes
$R_{age\ 0}$ (2025)	813 000	Model prediction based on the stock–recruitment relationship; in thousands
$R_{age\ 0}$ (2026)	809 077	Model prediction based on the stock–recruitment relationship; in thousands
Catch (2025)	50 167	STF using an F_{2025} ; in tonnes
Projected landings (2025)	46 248	STF; Assuming average landings ratio by length (2022–2024); in tonnes
Projected discards (2025)	3 919	STF; Assuming average discards ratio by length (2022–2024); in tonnes

Table 2 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. Annual catch scenarios. All weights are in tonnes. Note: the % change in total allowable catch (TAC) is not presented because the TAC area does not correspond to the stock assessment unit area.

Basis	Total catch (2026)	Projected landings (2026)	Projected discards (2026)	$F_{ages\ 1-7}$ total (2026)	$F_{ages\ 1-7}$ projected landings (2026)	$F_{ages\ 1-7}$ projected discards (2026)	Spawning-stock biomass (SSB) (2027) ***	% SSB change *	% advice change **
ICES advice basis									
Maximum sustainable yield (MSY) approach = F_{MSY}	54912	49774	5138	0.24	0.22	0.023	104520	–5.4	4.7
Other scenarios									
EU MAP [^] : F_{MSY}	54912	49774	5138	0.24	0.22	0.023	104520	–5.4	4.7
$F = MAP^{\wedge}: F_{MSY\ lower}$	35102	31905	3197	0.147	0.134	0.0134	117219	6.2	–33
$F = MAP^{\wedge}: F_{MSY\ upper}$	77898	70354	7544	0.37	0.33	0.036	90003	–18	48
$F = 0$	0	0	0	0	0	0	140088	27	–100
$F = F_{PA}$	103394	92942	10453	0.54	0.48	0.054	74220	–33	97
$SSB(2027) = B_{lim}$	124324	111241	13083	0.7	0.63	0.074	61563	–44	137
$SSB(2027) = B_{PA} = MSY\ B_{trigger}$	96575	86929	9646	0.49	0.44	0.049	78405	–29	84
$SSB(2027) = SSB(2026)$	45666	41448	4218	0.197	0.179	0.0182	110427	0	–13
$F = F_{2025}$	48087	43631	4457	0.21	0.189	0.0193	108876	–1.40	–8.4
Catch (2026) = TAC (2025)	58272	52793	5479	0.26	0.24	0.024	102382	–7.3	11

* SSB 2027 relative to SSB 2026 (110 427 tonnes).

** Total catch in 2026 relative to the catch advice value for 2025 (52 466 tonnes).

[^]The EU multiannual plan (MAP; EU, 2019).

The 4.7% increase in catch advice in 2026 compared to the 2025 catch advice despite a decreasing trend in stock size is due to the upward revision of stock size compared to last year’s assessment and fishing mortality in 2024 being lower than the fishing mortality value assumed in last year’s short-term forecast.

Basis of the advice

Table 3 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. The basis for the advice for fishing opportunities.

Advice basis	Maximum sustainable yield (MSY) approach
Management plan	ICES is aware of the EU multiannual plan (MAP) for stocks in the Western Waters and adjacent areas that has been agreed for this stock (EU, 2019) and considers it to be precautionary. There is no agreement between the EU, Norway and UK regarding this plan, and it is not used as the basis of the advice for this straddling stock. ICES provides catch scenarios consistent with the F_{MSY} ranges in the MAP.

Quality of the assessment

The assessment tended to revise the historical female-only spawning-stock biomass (SSB) downwards when a new year of data was added, this was not the case this year when the SSB has been revised upwards). The perception of stock status is consistent with previous assessments.

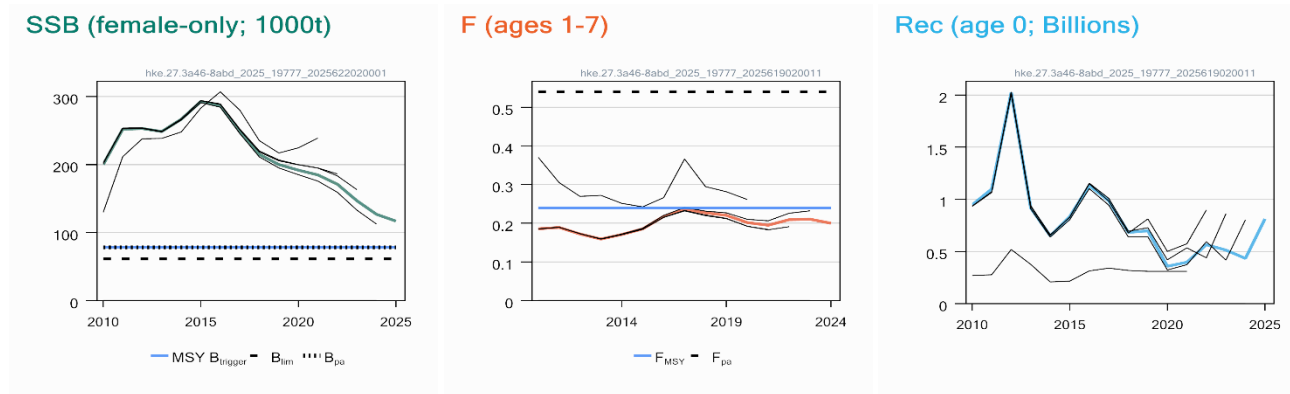


Figure 2 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. Historical assessment results (final year recruitment assumption included for each line). The reference points and assessment results were revised in 2022 following a benchmark, and only the last four assessment results should be compared to the reference points indicated.

Issues relevant for the advice

The stock area is larger than the corresponding total allowable catch (TAC) area for hake.

This stock is classified as Category 1 in the NEAFC categorization of deep-sea species/stocks (NEAFC, 2016). This implies that NEAFC requires stock-specific management measures since the entire or a significant proportion of the catch is taken in the NEAFC regulatory areas (RAs). There are no catches of hake reported to ICES in the NEAFC RAs; however, not all the countries report this information to ICES.

Reference points

Table 4 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. Reference points, values, and their technical basis.

Framework	Reference point	Value	Technical basis	Source
Maximum sustainable yield (MSY) approach	MSY $B_{trigger}$	78405	B_{PA} ; female-only, in tonnes	ICES (2023a)
	F_{MSY}	0.24	Stock Synthesis simulations	ICES (2023a)
Precautionary approach	B_{lim}	61563	The breakpoint of the segmented regression stock–recruitment relationship; female-only, in tonnes	ICES (2023a)
	B_{PA}	78405	$B_{lim} \times \exp(1.645 \times \sigma)$, $\sigma = 0.147$; female-only, in tonnes	ICES (2023a)
	F_{PA}	0.54	The F that provides a 95% probability for SSB to be above B_{lim} (F_{P05})	ICES (2023a)
Management plan	F_{mgt}	Not defined		
	SSB_{mgt}	Not defined		
	MAP MSY $B_{trigger}$	78405	MSY $B_{trigger}$; female-only, in tonnes	ICES (2023a), EU (2019)
	MAP B_{lim}	61563	B_{lim} ; female-only, in tonnes	ICES (2023a), EU (2019)
	MAP F_{MSY}	0.24	F_{MSY}	ICES (2023a), EU (2019)
	MAP range F_{lower}	0.147	Consistent with ranges resulting in no more than 5% reduction in long-term yield compared with MSY	ICES (2023a), EU (2019)

Framework	Reference point	Value	Technical basis	Source
	MAP range F_{upper}	0.37	Consistent with ranges resulting in no more than 5% reduction in long-term yield compared with MSY	ICES (2023a), EU (2019)

Basis of the assessment

Table 5 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. Basis of the assessment and advice.

ICES stock data category	1 (ICES, 2023b)
Assessment type	Length-based and sex-disaggregated age-structured model (Stock Synthesis; ICES, 2025) that uses catches in the model and in the forecast*
Input data	Commercial catches and five survey indices, including the French Southern Atlantic Bottom trawl survey (EVHOE-WIBTS-Q4 [G9527], 1997–2024), the Spanish Porcupine Bottom Trawl Survey (SpPGFS-WIBTS-Q3 [G5768], 2001–2024), the Irish Groundfish Survey (IGFS-WIBTS-Q4 [G7212], 2003–2024), the Irish Anglerfish and Megrim Survey (IE-IAMS [G3098], 2016–2024), and French surveys in the Bay of Biscay (FR-RESSGACQ [G2537], 1985–2001); constant maturity, sex-and age-dependent natural mortality, and growth and length-weight parameters.
Discards and bycatch	Discard estimates from most fleets are available and included in the assessment
Indicators	None
Other information	This stock was benchmarked and reference points were updated in 2022 (ICES, 2023a)
Working group	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion (WGBIE)

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

History of the advice, catch, and management

Table 6 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. ICES advice and catch. Weights are in tonnes.

Year	ICES advice	Catch corresponding to advice	Landings corresponding to advice	Agreed total allowable catch (TAC)*	ICES landings	ICES discards	ICES catch
1987	Precautionary TAC; juvenile protection			63500	63369		
1988	Precautionary TAC; juvenile protection		54000	66200	64823	**	
1989	Precautionary TAC; juvenile protection		54000	59700	66473	**	
1990	Precautionary TAC; juvenile protection		59000	65100	59954		
1991	Precautionary TAC; juvenile protection		59000	67000	58129		
1992	If required, precautionary TAC		61500	69000	56617		
1993	Enforce juvenile protection legislation		-	71500	52144		
1994	F significantly reduced		-	60000	51259	**	
1995	30% reduction in F		31000	55100	57621		
1996	30% reduction in F		39000	51100	47210		
1997	20% reduction in F		54000	60100	42465		
1998	20% reduction in F		45000	59100	35060		
1999	Reduce F below F_{PA}		-	55100	39814	**	
2000	50% reduction in F		-	42100	42026	**	
2001	Lowest possible catch, recovery plan		-	22600	36675		
2002	Lowest possible catch/recovery plan		-	27000	40107		
2003	Lowest possible catch/recovery plan		-	30000	43162	2110	45272
2004	70% reduction in F or recovery plan		-	39100	46417	2548	48965

Year	ICES advice	Catch corresponding to advice	Landings corresponding to advice	Agreed total allowable catch (TAC)*	ICES landings	ICES discards	ICES catch
2005	F = 0.19		33000	42600	46550	4676	51226
2006	F = 0.25		44000	43900	41467	1816	43283
2007	Recovery plan limits		50500	52700	45028	2191	47219
2008	Recovery plan limits		54000	54000	47739	3248	50987
2009	F = 0.25 = F _{PA}		51500	51500	58818	10590	69408
2010	F = 0.25 = F _{PA}		55200	55105	72799	9978	82777
2011	See scenarios		50600	55105	87540	14156	101696
2012	Maximum sustainable yield (MSY) transition		51900	55105	85677	12680	98357
2013	MSY transition		45400	69440	77343	11098	88441
2014	MSY approach		81846	81846	89940	12131	102071
2015	MSY approach		78457	90849	95041	14446	109487
2016	MSY approach	≤ 109592	≤ 96651	108764	107546	16041	123588
2017	MSY approach	≤ 123777		119765	104671	10488	115158
2018	MSY approach	≤ 115335		111785	89695	9934	99629
2019	MSY approach	≤ 142240		141160	82298	6966	89264
2020	MSY approach	≤ 104763		112903	72579	6946	79525
2021	MSY approach (value revised in June 2021)	≤ 102888		98658	68058	6738	74795
2022	MSY approach	≤ 75052		78926	67431	3241	70672
2023	MSY approach	≤ 83130		83130	59381	2990	62371
2024	MSY approach	≤ 72839		72839	49569	4164	53733
2025	MSY approach	≤ 52466		58272			
2026	MSY approach	≤ 54912					

* Sum of area TACs, corresponding to Northern stock (in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d), Division 2.a (EC until 2020, UK after), and divisions 3.b–d (except for 2019 onwards). There is no agreed TAC for Norwegian waters of Subarea 4.

** Partial discard estimates are available and used in the assessment. For the remaining years where values are not presented, there are no valid discard estimates available for the assessment.

History of the catch and landings

Table 7 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. Catch distribution by fleet in 2024 as estimated by ICES. Weights are in tonnes.

Catch	Landings				Discards
	7.7% unspecified gear	19.9% longline	48.9% gillnet	23.5% trawl	
53 733	49 569				4 164

Table 8 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. History of commercial catch and landings; ICES estimated values by area. Weights are in tonnes. Minor differences in total values are due to rounding.

Year	ICES estimated landings*							ICES estimated discards						Total catches**
	Subarea 3	Subarea 4	Subarea 6	Subarea 7	Divisions 8.a–b and 8.d	Unallocated	Total	Subarea 3	Subarea 4	Subarea 6	Subarea 7	Divisions 8.a,b,d	Total	
1961			-	-	-	95600	95600						-	95600
1962			-	-	-	86300	86300						-	86300
1963			-	-	-	86200	86200						-	86200
1964			-	-	-	76800	76800						-	76800
1965			-	-	-	64700	64700						-	64700
1966			-	-	-	60900	60900						-	60900
1967			-	-	-	62100	62100						-	62100
1968			-	-	-	62000	62000						-	62000
1969			-	-	-	54900	54900						-	54900
1970			-	-	-	64900	64900						-	64900
1971			8500	19400	23400	0	51300						-	51300
1972			9400	14900	41200	0	65500						-	65500
1973			9500	31200	37600	0	78300						-	78300
1974			9700	28900	34500	0	73100						-	73100
1975			11000	29200	32500	0	72700						-	72700
1976			12900	26700	28500	0	68100						-	68100
1977			8500	21000	24700	0	54200						-	54200
1978			8000	20300	24500	-2249	50551						-	50551
1979			8700	17600	27200	-2404	51096						-	51096
1980			9700	22000	28400	-2835	57265						-	57265
1981			8800	25600	22300	-2782	53918						-	53918
1982			5900	25200	26200	-2306	54994						-	54994
1983			6200	26300	27100	-2093	57507						-	57507
1984			9500	33000	22900	-2114	63286						-	63286
1985			9224	27459	21044	-1628	56099						-	56099
1986			7320	27408	23903	-1539	57092						-	57092
1987			7800	32900	24700	-2031	63369						-	63369
1988			8800	30900	26600	-1477	64823						-	64823
1989			7375	26938	31957	203	66473						-	66473
1990			6680	23011	34424	-4161	59954						-	59954
1991			8328	21546	31635	-3380	58129						-	58129
1992			8561	22475	23465	2116	56617						-	56617
1993			8484	20465	19849	3346	52144						-	52144

Year	ICES estimated landings*							ICES estimated discards						Total catches**
	Subarea 3	Subarea 4	Subarea 6	Subarea 7	Divisions 8.a-b and 8.d	Unallocated	Total	Subarea 3	Subarea 4	Subarea 6	Subarea 7	Divisions 8.a,b,d	Total	
1994			5421	21080	24727	31	51259						+	51259
1995			5335	24056	28144	86	57621						-	57621
1996			4445	24738	18036	-9	47210						-	47210
1997			3312	18949	20339	-135	42465						-	42465
1998			3208	18705	13147	0	35060						-	35060
1999			4256	23955	11604	-1	39814						+	39814
2000			4033	25991	11998	4	42026						+	42026
2001			4367	23065	9244	0	36675						-	36675
2002			2944	21226	15935	0	40105						-	40105
2003			3284	25438	14440	0	43162						1393	44555
2004			4438	27483	14494	0	46416						2614	49029
2005			5461	26623	14467	0	46550						4583	51133
2006			6127	24709	10633	0	41469						1222	42691
2007			7017	27456	10620	0	45093						2165	47258
2008			10654	22834	14334	0	47822						3368	51190
2009			13057	25300	20424	0	58781						11033	69814
2010			14187	33500	25073	0	72760						12118	84878
2011			18789	18574	16604	32000^	87540						13903	101443
2012			22415	22166	16716	19300^	85677						14870	100547
2013	292	10684	5232	50054	19885	-8805^	86148						11098	101598
2014	350	12082	11415	40538	25554	0^	89940	270	5058	1298	4469	1036	12131	102071
2015	450	14615	7079^^	44400	28498	0^	95041	101	5454	205	6126	2559	14446	109487
2016	698	19591	11379^^	49388	26490	0	107546	132	6535	743	4301	4331	16041	123588
2017	775	19690	9615^^	45737	28854	0	104671	164	2367	715	3096	4145	10488	115158
2018	698	18915	7281^^	36906	25894	0	89695	289	1278	402	4394	3571	9934	99629

Year	ICES estimated landings*							ICES estimated discards						Total catches**
	Subarea 3	Subarea 4	Subarea 6	Subarea 7	Divisions 8.a–b and 8.d	Unallocated	Total	Subarea 3	Subarea 4	Subarea 6	Subarea 7	Divisions 8.a,b,d	Total	
2019	1522	15569	6842^^	36873	21492	8	82298	237	956	704	2612	2457	6966	89264
2020	605	13080	4113^^	35100	19674	7	72579	330	647	527	2748	2695	6946	79525
2021	791	9300	3823^^	33393	20750	0	68058	120	500	1240	2894	1984	6738	74795
2022	1086	11087	3850^^	27668	23741	0	67431	83	200	164	1251	1543	3241	70672
2023	892	7560	3047^^	25513	22369	0	59381	43	299	141	953	1554	2990	62371
2024	1212	5075	1822^^	25059	16399	0	49569	102	355	268	2032	1408	4164	53733

* Data for Subarea 8 for 1973–1978 include those for divisions 8.a and 8.b only. Divisions 3.a and 4.b–c are included in columns 3, 4, and 6 only after 1976. There are some unallocated landings. This includes below minimum size (BMS) landings.

** The working group used total catches from 1978.

^ Unallocated landings for the years 2011–2014 were revised in 2015.

^^ Landings and discards data from Subarea 5 are included.

Table 9 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. History of commercial catches by country as estimated by ICES. Weights are in tonnes. Minor differences in total values are due to rounding.

Year	Belgium	Denmark	France	Germany	Ireland	Netherlands	Norway	Spain	Sweden	UK (England)	UK (Northern Ireland)	UK (Scotland)	Other	Total catches
2014	231	3362	42269	843	4836	212	4288	30831	117	2322	31	12728		102071
2015	156	4217	46988	794	3873	847	6074	33792	111	3249	166	9221		109487
2016	172	4564	50202	850	4167	1033	8156	35683	103	2821	120	15716		123588
2017	458	5142	48750	742	4174	216	4547	34092	94	2379	239	14326		115158
2018	223	4532	43718	1219	4313	597	3960	26988	120	2763	131	11065	1	99629
2019	372	3424	36944	764	4342	513	4144	26114	150	2889	166	9441	53	89264
2020	220	4223	33326	418	4237	348	3177	24452	141	1979	123	6829		79525
2021	154	3606	32388	699	4417	338	2077	23572	111	1916	179	5338		74795
2022	186	3764	30324	395	3646	409	2046	21252	142	2009	190	6309	1	70672
2023	226	3088	27005	329	3597	182	1484	19892	110	2147	114	4198		62371
2024	187	2706	23541	63	3159	108	1350	17054	84	2481	76	2921		53733

Summary of the assessment

Table 10 Hake in subareas 4, 6, and 7 and in divisions 3.a, 8.a–b, and 8.d, Northern stock. Assessment summary. “High” and “Low” refer to 90% confidence intervals. The spawning-stock biomass (SSB) is female-only. For some years, the ICES estimated total landings and discards are slightly different from the values reported in tables 6–9. In this table, the aggregation of ICES estimated landings and discards is done by summing the values by fleet, while in tables 6–9 it is done by summing the values by area and gears leading to different roundings. The spawning-stock biomass (SSB) is female-only.

Year	Recruitment age 0			Spawning-stock biomass (SSB)				Landings	Discards [^]	Fishing pressure (ages 1–7)		
	Low	R	High	Low	SSB	High	Total stock biomass (TSB)**			Low	F	High
	Thousands			tonnes						tonnes		
1978	465205	684778	1007987	62142	79408	101472	165134	50551		0.26	0.30	0.35
1979	473250	694675	1019700	73348	89715	109734	170628	51096		0.28	0.32	0.36
1980	588759	850803	1229476	76301	92150	111290	165966	57265		0.34	0.39	0.44
1981	884482	1183130	1582617	69041	84112	102472	152081	53918		0.32	0.38	0.44
1982	419029	608605	883948	61775	76105	93760	153938	54994		0.32	0.36	0.42
1983	258375	374763	543579	64882	78189	94226	161694	57507		0.33	0.37	0.42
1984	501125	640973	819848	70108	81910	95700	154305	63286		0.39	0.44	0.50
1985	933167	1117640	1338581	59271	69749	82081	128161	56099		0.42	0.48	0.54
1986	523399	658235	827807	45533	54995	66423	119307	57092		0.45	0.53	0.63
1987	718955	867279	1046203	41322	49495	59285	123592	63369		0.51	0.60	0.70
1988	653080	776921	924245	44013	51061	59238	126310	64823		0.53	0.60	0.69
1989	614239	718328	840055	44156	50300	57298	128306	66473	68	0.54	0.60	0.67
1990	591698	686878	797368	45074	50514	56611	122440	59954		0.49	0.54	0.59
1991	391796	461743	544177	45269	50414	56143	117898	58129		0.50	0.55	0.61
1992	555773	646673	752440	42732	47364	52497	107522	56617		0.55	0.60	0.66
1993	798965	897753	1008755	36736	40730	45158	92762	52144		0.58	0.64	0.71
1994	448230	520314	603991	29854	33414	37399	92532	51259	356	0.59	0.65	0.72
1995	259300	314494	381436	32208	35493	39112	96901	57621		0.66	0.72	0.78
1996	763320	849817	946116	32916	36046	39474	84262	47210		0.60	0.66	0.73
1997	343930	416531	504458	27137	30253	33726	78145	42465		0.56	0.62	0.69
1998	645592	736893	841107	26007	29079	32513	80114	35060		0.46	0.51	0.56
1999	301449	366309	445125	32068	35555	39420	89730	39814	349	0.47	0.52	0.58
2000	380998	451254	534465	34802	38507	42606	94513	42026	77	0.48	0.53	0.58
2001	656090	754011	866546	36360	40213	44475	90755	36675		0.41	0.46	0.51
2002	514987	597267	692693	35525	39549	44029	95703	40107		0.44	0.49	0.54
2003	384055	455155	539418	36948	41014	45527	100796	43162	2110	0.47	0.52	0.58
2004	991639	1106560	1234799	39327	43531	48185	101629	46417	2548	0.49	0.55	0.61
2005	482717	576806	689234	37291	41872	47014	105795	46550	4676	0.49	0.56	0.64
2006	1060547	1214290	1390320	38967	44397	50584	123374	41467	1816	0.36	0.41	0.47
2007	1982234	2249060	2551803	54849	62404	71000	153267	45028	2191	0.29	0.33	0.38

Year	Recruitment age 0			Spawning-stock biomass (SSB)				Landings	Discards [^]	Fishing pressure (ages 1–7)		
	Low	R	High	Low	SSB	High	Total stock biomass (TSB)**			Low	F	High
	Thousands			tonnes						tonnes		
2008	1443088	1676250	1947084	70343	80261	91578	212734	47739	3248	0.22	0.25	0.29
2009	455894	557256	681155	109980	123378	138409	327782	58818	10590	0.191	0.22	0.24
2010	815060	947346	1101102	182053	200107	219951	419543	72799	9978	0.168	0.186	0.21
2011	938527	1099330	1287684	230987	252064	275064	455655	87540	14156	0.173	0.189	0.21
2012	1825005	2025010	2246933	230729	253079	277594	452667	85677	12680	0.157	0.172	0.189
2013	786808	917222	1069252	225867	248665	273765	469173	77343	11098	0.147	0.159	0.173
2014	557744	649877	757230	243774	266745	291881	508290	89940	12131	0.157	0.171	0.186
2015	728989	835887	958460	269721	292773	317795	513787	95043	14446	0.172	0.186	0.20
2016	998964	1132910	1284816	264018	286700	311330	478455	107547	16041	0.20	0.22	0.24
2017	854524	985091	1135608	226825	248588	272439	425417	104670	10488	0.22	0.24	0.26
2018	574614	683554	813148	193924	215017	238404	384995	89695	9934	0.21	0.23	0.25
2019	595899	698300	818298	178753	200076	223943	362679	82298	6966	0.198	0.22	0.25
2020	298364	358415	430553	169626	191890	217076	343413	72579	6946	0.179	0.20	0.23
2021	329919	397029	477791	161275	184901	211987	320128	68061	6738	0.170	0.195	0.22
2022	468857	565089	681072	146264	171199	200385	286932	67433	3241	0.179	0.21	0.25
2023	410244	513303	642251	121423	146913	177755	250202	59380	2990	0.174	0.21	0.26
2024	313133	433392	599837	100863	127008	159930	222721	49572	4164	0.158	0.20	0.25
2025	445294*	813000*	1484343*	89363	116970	153105	208920					

* Recruitment predicted by the assessment model stock-recruitment relationship for the short-term forecast.

** Total stock size, both sexes, including immature fish.

[^] Raised discards.

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Recommended citation: ICES. 2025. Hake (*Merluccius merluccius*) in subareas 4, 6, and 7, and in divisions 3.a, 8.a–b, and 8.d, Northern stock (Greater North Sea, Celtic Seas, and the northern Bay of Biscay). *In* Report of the ICES Advisory Committee, 2025. ICES Advice 2025, hke.27.3a46-8abd. <https://doi.org/10.17895/ices.advice.27202644>