

Pollack (*Pollachius pollachius*) in subareas 6–7 (Celtic Seas and the English Channel)

ICES advice on fishing opportunities

ICES advises that when the maximum sustainable yield (MSY) approach is applied, total removals in 2026 should be no more than 3 310 tonnes. This applies to the sum of the commercial and recreational catches (accounting for survival of released fish).

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

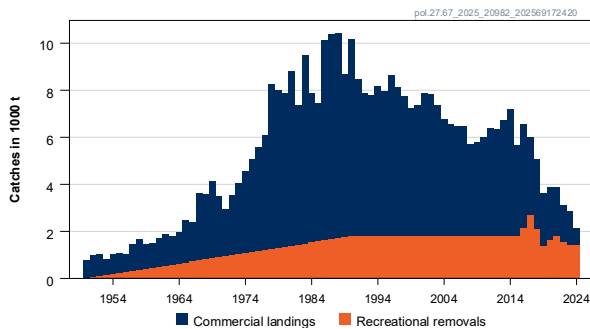
Non-fisheries conservation considerations

ICES has not identified any conservation aspects other than those related to the commercial and recreational fisheries.

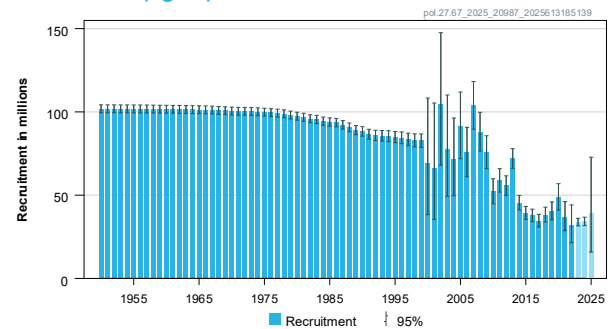
Stock development over time

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

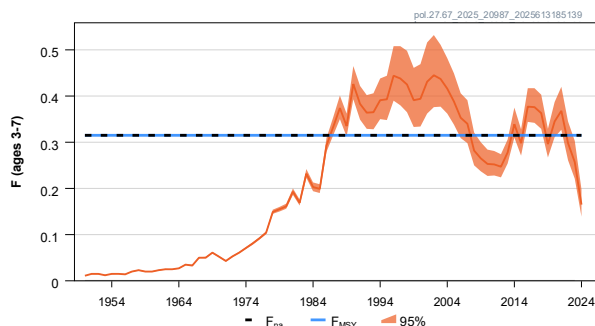
Total removals



Recruitment (age 0)



F



SSB

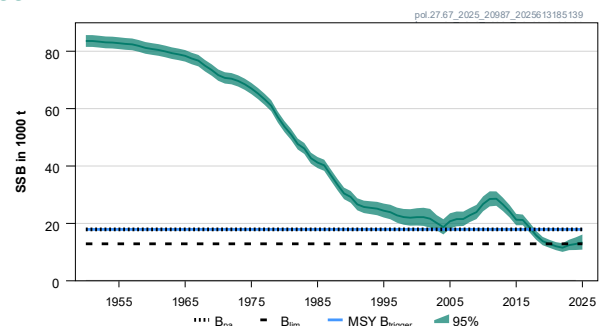


Figure 1 Pollack in subareas 6–7. Summary of the stock assessment. Commercial landings (official landings prior to 2003, when ICES landings became available; landings from 1973 to 1977 were interpolated because of missing data) and recreational removals (observed from 2016 to 2024 and estimated for the remaining time-series). Discards are considered negligible. The assumed recruitment values for 2023, 2024, and 2025 are shaded in a lighter colour.

Catch scenarios

Table 1 Pollack in subareas 6–7. Values in the forecast and for the interim year.

Variable	Value	Notes
$F_{ages\ 3-7}$ (2025)	0.165	Total F: F_{2024}
Spawning-stock biomass (SSB; 2026)	13 690	Short-term forecast; in tonnes
$R_{age\ 0}$ (2025)	39 255	Recruitment from stock-recruit relationship; in thousands
$R_{age\ 0}$ (2026)	39 602	Recruitment from stock-recruit relationship; in thousands

Variable	Value	Notes
Total removals (2025)	2281	Short-term forecast; sum of commercial landings and recreational removals; in tonnes
Projected commercial landings (2025)	757	Short-term forecast; in tonnes
Projected recreational removals (2025)	1524	Short-term forecast; in tonnes

Table 2 Pollack in subareas 6–7. Annual catch scenarios. All weights are in tonnes. Percentage change in advice relative to advice in 2025 (0 tonnes) is not provided because it cannot be calculated.

Basis	Total removals (2026)*	Projected commercial landings (2026)**	Projected recreational removals (2026)**	F _{ages 3–7} total* (2026)	F _{ages 3–7} projected commercial landings (2026)	F _{ages 3–7} Projected recreational removals (2026)	Spawning-stock biomass (SSB; 2027)	% SSB change ***	Probability SSB < B _{lim} in 2027 (%) ^
ICES advice basis									
Maximum sustainable yield (MSY) approach: F _{MSY} × SSB (2026)/MSY B _{trigger}	3310	1085	2225	0.24	0.091	0.149	13077	-4.5	46
Other scenarios									
F _{MSY lower} × SSB (2026)/MSY B _{trigger}	2386	784	1603	0.168	0.064	0.104	13895	1.50	21
F = 0	0	0	0	0	0	0	16028	17.1	1.00
F = F _{pa} = F _{MSY}	4195	1373	2822	0.315	0.119	0.196	12300	-10.2	71
F = F _{MSY lower}	3052	1001	2051	0.220	0.083	0.137	13305	-2.8	37
SSB (2027) = B _{lim}	3523	1155	2368	0.26	0.098	0.160	12890	-5.8	50
SSB (2027) = MSY B _{trigger} = B _{pa} ^^									
F = F ₂₀₂₅	2350	772	1578	0.165	0.063	0.103	13927	1.74	20

* Includes commercial landings and recreational removals.

** Assumed projections based on 2024 proportions of partial F of commercial and recreational removals.

*** SSB 2027 relative to SSB 2026.

^ 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. Uncertainty of modelled recruitment in 2023 and 2024 is underestimated, which increases the uncertainty of the probability estimation.

^^ The MSY B_{trigger} option was left blank because it cannot be achieved in 2027, even with zero catch in 2026.

The increase from zero catch advice is due to a change in assessment method and the new reference points following the benchmark (ICES, 2025a).

Basis of the advice

Table 3 Pollack in subareas 6–7. The basis of the advice.

Advice basis	Maximum sustainable yield (MSY) approach
Management plan	ICES is aware of the multiannual management plan (MAP) that has been adopted by the EU for this stock (EU, 2019) and that ICES considers to be precautionary. The MAP stipulates that when the F_{MSY} ranges are not available, fishing opportunities should be based on the best available advice. There is no agreed shared management plan between the EU and the UK for this stock, and ICES provides advice according to ICES MSY approach and precautionary considerations.

Quality of the assessment

The assessment was benchmarked in 2025 (ICES, 2025a), and the method for providing advice has changed to an age-structured analytical assessment (Stock Synthesis [SS3]). The application of SS3 allows for a better understanding of stock dynamics, integrating enhanced estimates of stock-recruitment relationships, and accounting for technological advancements in the fishery that influence catch rates. The new model includes updated life-history parameters, age-structured commercial landings, length-structured recreational removals, commercial LPUE indices and a combined scientific survey index. Reference points were also re-estimated (ICES, 2025b).

The scale of the recreational removals is estimated with considerable uncertainty; it is sensitive to the sampling coverage and methods, and in particular to estimates of post-release mortality and the amount of fish released. The benchmark explored several scenarios with various levels and historical trends in the recreational removals and found that the stock status relative to the reference points was robust to these scenarios (ICES, 2025a).

The three commercial LPUE indices were not calculated for 2024. Sensitivity to this missing data was explored and considered to have no impact on the assessment and advice for 2026.

The stock identity is poorly defined.

Historical assessment results are not shown as the stock was benchmarked in 2025, and estimates of spawning-stock biomass (SSB) and recruitment are not available from the previous assessments.

Issues relevant for the advice

Following the MSY approach, SSB at the start of 2027 is forecasted to be above B_{lim} with at least 50% probability. However, the recruitments in 2023 and 2024 are not based on observations but are estimated by the stock-recruitment relationship for the low productivity period (from 2014 onward) and contribute 39% to the SSB in 2027. Confidence intervals of these recruitments are underestimated, which leads to greater uncertainty in the estimated probability (46%) of SSB in 2027 being below B_{lim} .

The projected split of catches into values for recreational and commercial catches in Table 2 assumes that there will be no change in management from that in 2024.

Catch advice for 2026 includes both commercial catches and recreational removals.

Reference points

Table 4 Pollack in subareas 6–7. Reference points, values, and their technical basis.

Framework	Reference point	Value	Technical basis	Source
Maximum sustainable yield (MSY) approach	MSY $B_{trigger}$	17 912	B_{PA} ; in tonnes	ICES (2025b)
	F_{MSY}	0.315	Stochastic simulations (EqSim); constrained by the requirement that $F_{MSY} \leq F_{PA}$	ICES (2025b)
Precautionary approach	B_{lim}	12 890	Lowest observed spawning-stock biomass (SSB) with relatively high recruitment under low-recruitment regime; in tonnes	ICES (2025b)
	B_{PA}	17 912	$B_{lim} \times \exp(1.645 \times \sigma)$; $\sigma = 0.20$ (default setting); in tonnes	ICES (2025b)
	F_{PA}	0.315	F_{POS} ; the F that leads to $SSB \geq B_{lim}$ with 95% probability	ICES (2025b)
Management Plan*	MAP MSY $B_{trigger}$	17 912	MSY B_{PA} ; in tonnes	EU (2019), ICES (2025b)
	MAP B_{lim}	12 890	Lowest observed SSB; in tonnes	EU (2019), ICES (2025b)
	MAP F_{MSY}	0.315	F_{MSY}	EU (2019), ICES (2025b)
	MAP range F_{MSY} lower	0.220	Consistent with ranges resulting in no more than 5% reduction in long-term yield compared with MSY	EU (2019), ICES (2025b)
	MAP range F_{MSY} upper	0.315	Consistent with ranges resulting in no more than 5% reduction in long-term yield compared with MSY	EU (2019), ICES (2025b)

* EU multiannual plan (MAP) for the Western Waters and adjacent waters (EU, 2019).

Basis of the assessment

Table 5 Pollack in subareas 6–7. The basis of the assessment.

ICES stock data category	1 (ICES, 2023)
Assessment type	Age structured analytical assessment (Stock Synthesis [SS3]; Methot and Wetzel, 2013; ICES, 2025b) that uses commercial landings and recreational removals in the model and in the forecast
Input data	Commercial landings and age data; Recreational removals and length data; commercial LPUE indices (Irish gillnet; UK trawls, French trawls) [up to 2023]; sdmTMB survey index from 2003, utilizing Irish Groundfish Survey [G7212], Irish Anglerfish and Megrim Survey [G3098], French Southern Atlantic Bottom Trawl Survey [G9527], French Channel Groundfish Survey [G3425], Northern Ireland Groundfish Survey Q1 [G7144], Northern Ireland Groundfish Survey Q4 [G7655], Beam Trawl Survey - Q1 & Q3 - North Sea, Irish Sea and Western Channel [B2453], Scottish Westcoast Groundfish Survey Q1 (Old) [G1179], Scottish Westcoast Groundfish Survey Q4 (Old) [G4299], Scottish Westcoast Groundfish Survey Q1 [G4748], Scottish Westcoast Groundfish Survey Q4 [G4815]. Natural mortalities-at-age (Lorenzen, 1996). Maturity derived from Q1 age data. Length-weight parameters obtained by fitting a linear model to all available data.
Discards and bycatch	Negligible (less than 1% of the commercial catch)
Indicators	None
Other information	Last benchmarked in 2025 (ICES, 2025a)
Working group	Working Group for the Celtic Seas Ecoregion (WGCSE)

History of the advice, catch, and management

Table 6 Pollack in subareas 6–7. ICES advice, the agreed total allowable catch (TAC), ICES estimates of commercial landings and recreational removals. Weights are in tonnes.

Year	ICES advice	Commercial catch corresponding to advice	Agreed TAC Subarea 6*	Agreed TAC Subarea 7	Commercial landings			Recreational removals	Total removals
					Subarea 6	Subarea 7	Total		
2000		-	1100	17000	191	5377	5568	1794	7362
2001		-	1100	17000	217	5885	6102	1794	7896
2002		-	1100	17000	131	5922	6053	1794	7847
2003		-	880	17000	203	5388	5591	1794	7385
2004		-	704	17000	135	4832	4967	1794	6761
2005		-	563	17000	49	4706	4756	1794	6550
2006		-	450	15300	32	4636	4669	1794	6463
2007		-	450	15300	51	4612	4663	1794	6457
2008		-	450	15300	65	3860	3925	1794	5719
2009		-	450	15300	36	3962	3997	1794	5791
2010		-	450	13770	77	4135	4211	1794	6005
2011		-	397	13495	51	4541	4592	1794	6386
2012	No increase in catch	-	397	13495	43	4522	4565	1794	6359
2013	Catch should be no more than 1% more than recent catch (last three years)	< 4200	397	13495	58	4895	4953	1794	6747
2014	Same advice as 2013	< 4200	397	13495	44	5354	5397	1794	7191
2015	Same advised values as given for 2013	< 4200	397	13495	49	3811	3861	1794	5655
2016	Precautionary approach (same advised commercial landings value as given for 2015)	≤ 4200	397	13495	74	4334	4408	2144	6552
2017	Precautionary approach (same advised commercial landings value as provided for 2016)	≤ 4200	397	12146	45	3251	3295	2708	6003
2018	Precautionary approach	≤ 4200	397	12163	63	2881	2944	2112	5056
2019	Precautionary approach	≤ 3360	397	12163	54	2180	2234	1385	3619
2020	Precautionary approach	≤ 3360	238	12163	49	2241	2289	1612	3901
2021	Precautionary approach	≤ 3360	184	9426	77	2031	2108	1780	3888
2022	Precautionary approach	≤ 3360	156	8012	34	1546	1579	1546	3125
2023	Precautionary approach	≤ 3360	125	6410	25	1424	1449	1421	2870
2024	Maximum sustainable yield (MSY) approach	0	93	832	17	690	707	1437	2144
2025	MSY approach	0	77	689					
2026	MSY approach	≤ 3310**							

* Subarea 6, European Union and international waters of Division 5.b (EC until 2020; UK thereafter), and international waters of subareas 12 and 14.

** Total removals

Table 7 Pollack in subareas 6–7. Catch distribution by fleet in 2024 as estimated by ICES and estimated recreational removals.

Total removals	Commercial landings			Commercial discards	Recreational removals
	Lines	Otter trawlers	Static nets		
2 144 tonnes	37 %	29 %	34 %	Negligible	1 437 tonnes
	707 tonnes				

Table 8 Pollack in subareas 6–7. History of official landings (commercial) in **Subarea 6** by country. Weights are in tonnes.

Year	Belgium	Denmark	France	Germany	Ireland	Netherlands	Norway	Portugal	Spain	Sweden	UK	Total Subarea 6
1950	1	-	-	-	-	-	-	-	-	-	295	296
1951	-	-	-	-	-	-	-	-	-	-	484	484
1952	-	-	-	-	-	1	-	-	-	-	503	504
1953	-	-	-	-	-	-	-	-	-	-	422	422
1954	-	-	-	-	-	-	-	-	-	-	452	452
1955	-	-	-	-	-	-	-	-	-	-	566	566
1956	-	-	-	-	-	-	-	-	-	-	528	528
1957	-	-	-	-	-	-	-	-	-	-	547	547
1958	.	-	-	23	-	-	-	-	-	-	710	733
1959	1	-	-	6	-	-	-	-	-	-	607	614
1960	15	-	-	-	-	-	-	-	-	-	441	456
1961	1	-	-	1	125	-	-	-	-	-	259	386
1962	2	-	-	8	197	-	-	-	-	-	235	442
1963	6	-	-	2	204	-	-	-	-	-	320	532
1964	1	-	-	1	130	-	-	-	-	-	368	500
1965	1	-	-	1	402	-	-	-	-	-	496	900
1966	2	-	-	-	200	-	-	-	-	-	428	630
1967	1	-	-	1	263	-	-	-	-	1106	413	1784
1968	5	-	-	2	214	-	148	-	-	1012	500	1881
1969	1	-	-	4	282	-	-	-	-	1224	667	2178
1970	2	-	-	1	398	-	-	-	-	756	447	1604
1971	1	-	-	5	75	-	-	-	-	750	256	1087
1972	1	-	-	1	127	-	-	-	-	779	317	1225
1973	2	-	-	-	-	-	-	-	-	-	503	505
1974	6	-	-	-	-	3	-	-	-	-	359	368
1975	< 0.5	-	-	1	-	1	4	-	-	-	393	399
1976	7	-	-	-	-	1	-	-	-	-	519	527
1977	-	-	196	-	-	1	2	-	-	-	493	692
1978	-	-	196	-	-	-	4	-	-	-	553	753
1979	-	-	310	-	-	-	-	-	-	-	350	660
1980	-	-	36	-	-	-	-	-	-	-	233	269
1981	-	-	342	-	-	-	-	-	55	-	185	582
1982	-	< 0.5	272	-	-	-	-	-	95	-	103	470
1983	-	-	331	-	-	-	-	-	86	-	148	565
1984	-	-	212	-	-	-	-	-	222	-	194	628
1985	< 0.5	-	224	1	-	-	-	-	283	-	328	836
1986	-	-	145	-	223	-	-	-	2217	-	187	2772
1987	-	< 0.5	108	-	103	-	-	-	860	-	259	1330
1988	-	< 0.5	128	-	163	-	-	-	1925	-	221	2437
1989	-	< 0.5	111	1	103	-	-	-	-	-	179	394
1990	-	-	76	-	150	-	1	-	-	-	192	419
1991	-	-	31	-	145	-	-	-	4	-	189	369
1992	-	< 0.5	21	-	23	-	-	-	< 0.5	-	203	247
1993	-	-	39	-	12	-	-	-	-	-	273	324
1994	-	-	34	< 0.5	26	-	< 0.5	-	-	-	276	336
1995	-	-	64	3	83	-	-	-	-	-	354	504
1996	-	< 0.5	29	< 0.5	97	-	1	-	-	-	210	337
1997	-	-	14	1	69	-	2	-	-	-	162	248
1998	-	-	21	-	60	-	-	< 0.5	< 0.5	-	147	228
1999	-	-	-	-	73	-	3	-	< 0.5	-	136	212
2000	-	-	11	2	62	-	-	-	-	-	116	191
2001	-	-	8	-	108	-	-	-	-	-	101	217
2002	-	-	9	-	26	-	-	-	-	-	96	131
2003	< 0.5	-	3	-	88	-	1	-	-	-	111	203
2004	< 0.5	-	2	-	68	-	1	-	-	-	65	136
2005	-	-	23	-	28	-	-	-	-	-	16	67

Year	Belgium	Denmark	France	Germany	Ireland	Netherlands	Norway	Portugal	Spain	Sweden	UK	Total Subarea 6
2006	-	-	3	< 0.5	25	-	< 0.5	-	4	-	5	42
2007	-	-	10	< 0.5	22	-	7	-	-	-	21	64
2008	-	-	8	-	21	-	1	-	-	-	23	54
2009	-	-	7	-	5	-	< 0.5	-	-	-	25	38
2010	-	-	6	-	34	-	< 0.5	-	-	-	39	80
2011	-	-	2	-	12	-	1	-	-	-	36	51
2012	-	-	2	-	10	-	< 0.5	-	2	-	33	48
2013	-	-	1	-	34	-	< 0.5	-	-	-	22	58
2014	-	-	1	-	25	-	< 0.5	-	-	-	18	44
2015	-	-	< 0.5	-	23	-	< 0.5	-	-	-	25	49
2016	-	-	< 0.5	-	44	-	< 0.5	-	-	-	29	73
2017	-	-	< 0.5	-	30	-	< 0.5	-	-	-	14	44
2018	-	-	< 0.5	-	22 ^c	-	< 0.5	-	-	-	29	51 ^c
2019	-	-	3	-	22 ^c	-	< 0.5	-	-	-	27	52 ^c
2020	-	-	< 0.5	-	16 ^c	-	-	-	-	-	32	48 ^c
2021	-	-	2	-	30 ^c	-	-	-	< 0.5	-	43	75 ^c
2022	-	-	7	1	11 ^c	-	-	-	-	-	16	35 ^c
2023*	-	-	4	-	7	-	-	-	-	-	13	24
2024*	-	-	1	-	3	-	-	-	-	-	14	18

* Preliminary official landings.

^c Incomplete/missing as a result of part of the data being unavailable under data confidentiality clauses.

Table 9 Pollack in subareas 6–7. History of official landings (commercial) in **Subarea 7** by country. Weights are in tonnes.

Year	Belgium	Denmark	France	Germany	Ireland	Netherlands	Norway	Spain	UK	Total Subarea 7
1950	93	-	-	-	-	-	-	-	375	468
1951	74	-	-	2	-	-	-	-	380	456
1952	80	-	-	10	-	-	-	-	336	426
1953	34	-	-	-	-	-	-	-	252	286
1954	17	-	-	4	-	-	-	-	365	386
1955	38	-	-	-	-	-	-	-	247	285
1956	67	-	-	1	-	-	-	-	155	223
1957	219	-	-	6	-	-	-	-	367	592
1958	342	-	-	17	-	-	-	-	233	592
1959	158	-	-	32	-	-	-	-	251	441
1960	317	-	-	-	-	-	-	-	267	584
1961	268	-	-	-	360	-	-	-	210	838
1962	367	-	-	1	369	-	-	-	170	907
1963	95	-	-	-	411	-	-	-	176	682
1964	299	-	-	-	342	-	-	-	194	835
1965	362	-	-	-	335	-	-	-	231	928
1966	456	-	-	-	438	-	-	-	175	1069
1967	417	-	-	-	474	-	-	-	202	1093
1968	214	-	-	-	508	-	-	-	167	889
1969	142	-	-	-	794	-	-	-	161	1097
1970	165	-	-	1	724	-	-	-	120	1010
1971	114	-	-	-	673	-	-	-	116	903
1972	142	-	-	-	1073	-	-	-	123	1338
1973	89	-	-	-	-	3	-	-	127	219
1974	299	-	-	-	-	13	-	-	223	535
1975	295	-	-	-	-	17	-	-	290	602
1976	339	-	-	-	-	4	-	-	421	764
1977	157	1	3569	-	-	1	-	-	465	4193
1978	186	21	5496	14	-	8	-	-	515	6240
1979	151	18	5119	76	-	1	-	-	696	6061
1980	237	7	5242	-	-	1	-	1	769	6257

Year	Belgium	Denmark	France	Germany	Ireland	Netherlands	Norway	Spain	UK	Total Subarea 7
1981	244	-	5814	-	-	3	-	23	780	6864
1982	154	-	4253	-	-	-	-	32	1022	5461
1983	167	-	6214	-	-	-	-	26	1045	7452
1984	207	-	3927	-	-	-	-	486	1100	5720
1985	269	-	3741	-	-	-	-	20	1022	5052
1986	241	-	4574	-	1335	-	-	17	1795	7962
1987	149	-	5213	-	848	-	-	19	2010	8239
1988	191	-	5211	-	1066	-	-	22	1740	8230
1989	145	-	3893	-	994	-	-	18	1487	6537
1990	133	-	4831	-	1066	-	-	26	1914	7970
1991	76	-	3211	-	1045	-	-	22	1962	6316
1992	62	-	2849	-	1014	-	-	19	1889	5833
1993	55	-	2325	-	1137	-	-	7	2135	5659
1994	94	-	2621	-	921	-	-	8	2391	6035
1995	88	2	2315	-	1107	-	-	4	2168	5684
1996	94	-	2684	-	1190	6	-	5	2519	6498
1997	99	-	2443	-	984	4	< 0.5	7	2540	6077
1998	92	-	2375	-	886	1	-	11	2347	5712
1999	86	-	-	-	976	-	3	19	1703	2787
2000	71	-	2422	-	1069	-	-	5	1810	5377
2001	100	-	2515	-	1274	-	-	9	1987	5885
2002	117	-	2481	-	1308	-	-	17	1999	5922
2003	113	-	2284	-	1151	-	-	12	1788	5348
2004	104	-	1914	-	1049	1	-	13	1705	4786
2005	98	-	2198	-	728	1	-	16	1684	4725
2006	78	-	2223	-	809	1	-	50	1569	4730
2007	90	-	2003	-	782	3	-	2	1850	4730
2008	76	-	1606	-	738	1	-	20	1544	3985
2009	41	-	1686	-	828	4	-	5	1614	4178
2010	35	-	1859	-	942	2	-	6	1515	4359
2011	37	-	1801	-	967	2	-	8	1908	4723
2012	43	-	1430	-	1165	1	< 0.5	4	1898	4541
2013	39	-	1813	-	1249	1	-	22	1936	5060
2014	84	-	2068	-	1096	1	-	27	2184	5460
2015	32	-	1176	-	1070	1	-	25	1501	3805
2016	42	-	1257	-	1073	< 0.5	-	23	1958	4353
2017	19	-	960	-	935	< 0.5	-	23	1398	3335
2018	21	-	819	-	748 ^c	9	-	25	1267	2889 ^c
2019	12	-	550	-	14 ^c	2	-	5	988	1571 ^c
2020	17	-	584	-	602 ^c	2	-	3	974	2182 ^c
2021	7	-	588	-	590 ^c	2	-	1	802	1990 ^c
2022	7	-	493	-	355 ^c	1	-	< 0.5	671	1763 ^c
2023*	5	-	497	< 0.5	319	< 0.5	-	1	568	1366
2024*	6	-	452	-	76	< 0.5	-	1	156	690

* Preliminary landings.

^c Incomplete/missing as a result of part of the data being unavailable under data confidentiality clauses.

Summary of the assessment

Table 10 Pollack in subareas 6–7. Assessment summary. Recruitment in thousands. Commercial landings values used in the assessment, comprised of official landings prior to 2003 (landings from 1973 to 1977 were interpolated due to missing data) and ICES estimated landings since 2003. “Low” and “high” refer to 95% confidence intervals. Weights are in tonnes.

Year	Recruitment (age 0)			SSB			Fishing pressure (ages 3-7)			Removals	
	Low	Value	High	Low	Value	High	Low	Value	High	Commercial landings	Recreational removals
1950	99504	101962	104237	81510	83574	85629	0.011	0.011	0.012	764	0
1951	99502	101960	104235	81497	83561	85615	0.014	0.015	0.015	940	45
1952	99480	101938	104213	81280	83343	85397	0.014	0.015	0.016	930	90
1953	99454	101912	104187	81026	83087	85140	0.012	0.012	0.013	708	135
1954	99448	101906	104181	80963	83022	85073	0.014	0.015	0.015	838	179
1955	99425	101883	104158	80746	82803	84851	0.015	0.015	0.016	851	224
1956	99400	101858	104133	80501	82555	84600	0.014	0.014	0.015	751	269
1957	99384	101841	104115	80342	82393	84435	0.019	0.020	0.021	1139	314
1958	99328	101785	104059	79804	81851	83890	0.022	0.023	0.024	1325	359
1959	99255	101712	103986	79120	81162	83197	0.019	0.020	0.021	1055	404
1960	99215	101671	103945	78740	80778	82808	0.019	0.020	0.021	1040	448
1961	99178	101634	103907	78397	80430	82455	0.022	0.023	0.024	1224	493
1962	99123	101578	103851	77895	79923	81943	0.024	0.025	0.026	1349	538
1963	99058	101513	103785	77307	79331	81346	0.024	0.025	0.025	1214	583
1964	99012	101466	103738	76890	78909	80919	0.026	0.027	0.028	1335	628
1965	98955	101409	103681	76384	78398	80403	0.034	0.035	0.036	1827	673
1966	98847	101301	103572	75450	77457	79457	0.032	0.033	0.035	1700	718
1967	98762	101215	103486	74718	76720	78714	0.049	0.050	0.051	2877	762
1968	98549	101002	103273	72955	74950	76938	0.049	0.050	0.052	2771	807
1969	98363	100816	103087	71477	73464	75445	0.059	0.061	0.062	3275	852
1970	98128	100582	102854	69694	71674	73648	0.051	0.052	0.054	2615	897
1971	97998	100451	102722	68729	70701	72668	0.041	0.043	0.044	1990	942
1972	97961	100414	102685	68464	70429	72390	0.051	0.053	0.054	2563	987
1973	97851	100304	102575	67684	69644	71600	0.060	0.061	0.063	3028	1031
1974	97687	100140	102411	66536	68491	70441	0.069	0.071	0.073	3492	1076
1975	97469	99922	102194	65067	67016	68961	0.078	0.081	0.083	3957	1121
1976	97196	99651	101924	63313	65255	67195	0.089	0.092	0.094	4421	1166
1977	96867	99324	101600	61307	63243	65177	0.101	0.104	0.107	4885	1211
1978	96478	98939	101218	59079	61008	62937	0.145	0.149	0.154	6993	1256
1979	95717	98188	100476	55114	57035	58958	0.150	0.155	0.160	6721	1301
1980	95008	97490	99788	51822	53735	55653	0.156	0.161	0.167	6526	1345
1981	94356	96849	99159	49083	50991	52906	0.186	0.193	0.200	7446	1390
1982	93476	95989	98319	45765	47670	49584	0.163	0.169	0.176	5930	1435
1983	93019	95545	97886	44191	46097	48015	0.223	0.232	0.242	8016	1480
1984	91939	94498	96871	40816	42725	44650	0.194	0.203	0.213	6348	1525
1985	91395	93976	96369	39276	41195	43133	0.190	0.199	0.209	5888	1570
1986	91038	93635	96044	38315	40248	42201	0.279	0.293	0.309	8517	1614
1987	89637	92298	94768	34912	36859	38832	0.315	0.333	0.354	8709	1659
1988	88021	90769	93321	31562	33527	35526	0.350	0.374	0.401	8742	1704
1989	86248	89109	91770	28448	30435	32466	0.312	0.335	0.362	6931	1749
1990	85450	88382	91110	27199	29222	31295	0.393	0.426	0.465	8390	1794
1991	83565	86660	89546	24573	26638	28766	0.349	0.383	0.422	6685	1794
1992	82793	85993	88978	23603	25731	27931	0.329	0.364	0.402	6080	1794
1993	82485	85763	88822	23229	25430	27711	0.328	0.365	0.406	5983	1794
1994	82164	85532	88677	22847	25133	27508	0.350	0.391	0.438	6371	1794
1995	81461	84965	88242	22051	24425	26904	0.348	0.393	0.444	6189	1794
1996	80898	84534	87939	21440	23909	26496	0.390	0.444	0.508	6836	1794
1997	79715	83565	87176	20241	22803	25505	0.380	0.438	0.508	6325	1794
1998	78982	83013	86800	19542	22209	25036	0.365	0.425	0.498	5940	1794

Year	Recruitment (age 0)			SSB			Fishing pressure (ages 3-7)			Removals	
	Low	Value	High	Low	Value	High	Low	Value	High	Commercial landings	Recreational removals
1999	78623	82803	86734	19206	21988	24951	0.333	0.391	0.461	5438	1794
2000	38209	69400	108276	19268	22182	25295	0.334	0.394	0.469	5568	1794
2001	35412	66294	105321	19134	22183	25453	0.362	0.431	0.516	6102	1794
2002	67984	104933	147549	18471	21636	25052	0.376	0.445	0.532	6053	1794
2003	49303	77423	110133	17581	20145	22877	0.377	0.437	0.511	5591	1794
2004	49637	71697	96310	16156	18716	21462	0.362	0.416	0.482	4967	1794
2005	71882	91451	111889	18129	20742	23523	0.338	0.388	0.449	4756	1794
2006	61017	75638	90697	18992	21499	24151	0.309	0.353	0.406	4668	1794
2007	89573	103933	118197	19092	21530	24102	0.298	0.340	0.391	4663	1794
2008	76496	88172	99728	20471	22848	25340	0.250	0.282	0.321	3925	1794
2009	65860	75808	85645	21507	23927	26461	0.237	0.265	0.300	3998	1794
2010	44775	52308	59819	24229	26763	29403	0.227	0.253	0.284	4211	1794
2011	51815	58917	65893	25935	28504	31174	0.228	0.252	0.281	4592	1794
2012	49858	55795	61575	26134	28600	31155	0.224	0.247	0.274	4565	1794
2013	66089	72110	77889	24291	26583	28958	0.254	0.278	0.306	4954	1794
2014	41073	45519	49824	22086	24209	26410	0.310	0.339	0.375	5397	1794
2015	35479	39390	43182	19348	21298	23326	0.271	0.298	0.328	3861	1794
2016	34061	37865	41554	19366	21189	23078	0.344	0.377	0.417	4407	2144
2017	30844	34680	38424	16928	18607	20351	0.342	0.376	0.417	3296	2708
2018	33839	38345	42763	14340	15870	17466	0.329	0.363	0.403	2944	2112
2019	35103	40549	45945	12396	13813	15297	0.267	0.296	0.329	2234	1385
2020	41005	48894	56848	11535	12890	14312	0.311	0.345	0.387	2289	1612
2021	28589	37105	46095	10681	12042	13477	0.327	0.368	0.420	2108	1780
2022	21452	32054	44087	10076	11537	13092	0.261	0.298	0.345	1579	1546
2023	31538*	33856*	36060*	10691	12441	14323	0.221	0.257	0.303	1449	1421
2024	31700*	34274*	36732*	10732	12838	15140	0.139	0.165	0.198	706	1437
2025	15769*	39255*	72764*	10863	13357	16126					

* Estimated by the stock recruitment relationship for the low productivity period.

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