White anglerfish (*Lophius piscatorius*) in Subarea 7 and divisions 8.a–b and 8.d (Celtic Seas, Bay of Biscay)

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 36 980 tonnes.

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

The use of a combined species total allowable catch (TAC) for the two anglerfish species, black-bellied anglerfish (*Lophius budegassa*) and white anglerfish (*Lophius piscatorius*), prevents effective control of the single-species exploitation rates and could lead to the overexploitation of either species.

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

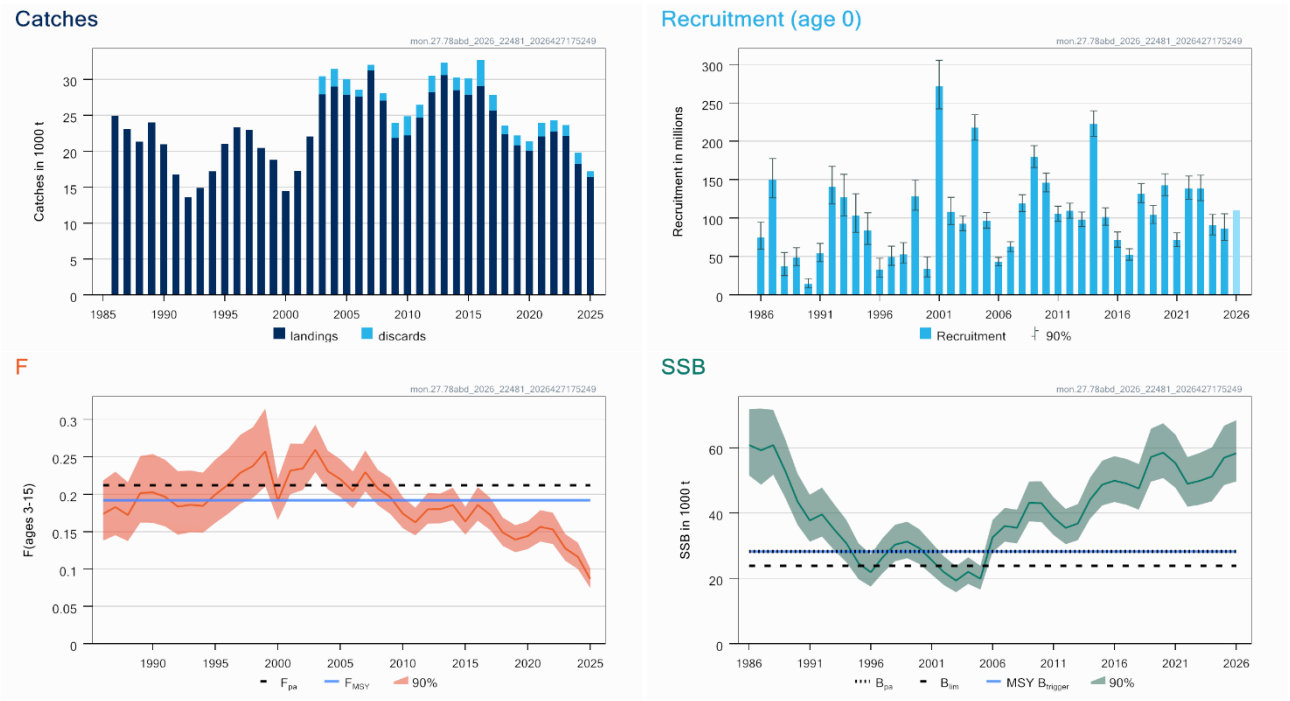

Figure 1 White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. Summary of the stock assessment. Results are shown from 1986 onwards to more effectively visualize recent trends. Discard observations are available since 2003. The assumed recruitment value for 2026 is shaded in a lighter colour.

Catch scenarios

Table 1 White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. Values for the forecast and the interim year.

Variable	Value	Notes
$F_{ages\ 3–15}$ (2026)	0.087	Average exploitation pattern (2023–2025), scaled to $F_{ages\ 3–15}$ in 2025
Spawning-stock biomass (SSB; 2027)	65874	Short-term forecast (STF); in tonnes
$R_{age\ 0}$ (2026)	110492	Predicted from stock-recruitment relationship; in thousands
$R_{age\ 0}$ (2027)	111407	Predicted from stock-recruitment relationship; in thousands
Catch (2026)	17099	STF; in tonnes
Projected landings (2026)	15394	STF assuming mean landings ratio-at-age, last three years, 2023–2025; in tonnes
Projected discards (2026)	1705	STF assuming mean discards ratio-at-age, last three years, 2023–2025; in tonnes

Table 2 White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. Annual catch scenarios. Weights are in tonnes. Note: there is no TAC rollover scenario and the change in TAC is not computed because the TAC is for both species of anglerfish. Calculation of the probability of the stock being below Blim in 2028 is not possible with this deterministic forecast.

Basis	Total catch (2027)	Projected landings (2027)	Projected discards (2027)	$F_{ages\ 3–15}$ total (2027)	$F_{ages\ 3–15}$ projected landings (2027)	$F_{ages\ 3–15}$ projected discards (2027)	Spawning-stock biomass (SSB) (2028)	% SSB change *	% advice change^
ICES advice basis									
Maximum sustainable yield (MSY) approach = F_{MSY}	36980	32978	4002	0.192	0.19	0.00153	66744	1.32	2.5
Other scenarios									
F = MAP^^ $F_{MSY\ lower}$	26015	23204	2811	0.131	0.13	0.00104	71154	8.02	-28
F = MAP^^ $F_{MSY\ upper}$	40429	36051	4378	0.212	0.21	0.00168	65359	-0.78	12.0
F = 0	0	0	0	0	0	0	81641	24	-100
F_{PA}	40429	36051	4378	0.212	0.21	0.00168	65359	-0.78	12.0
$SSB_{2028} = B_{lim}$	145694	129434	16259	1.176	1.17	0.0093	23868	-64	303
$SSB_{2028} = B_{PA} = MSY\ B_{trigger}$	134169	119280	14890	1.013	1.01	0.0080	28275	-57	271
$SSB_{2028} = SSB_{2027}$	39146	34908	4238	0.205	0.2	0.00163	65874	0	8.5
$F = F_{2026}$	17621	15719	1902	0.087	0.086	0.00069	74534	13.2	-51
Catch advice 2027 = catch advice 2026	36090	32185	3905	0.187	0.185	0.00149	67102	1.86	0

* SSB 2028 relative to SSB 2027 (65 874 tonnes).
^ Advice value for 2027 relative to advice value for 2026 (36 090 tonnes).
^^ EU multiannual plan (MAP) for the Western Waters and adjacent waters (EU, 2019).

Basis of the advice

Table 3 White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. The basis of the advice.

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 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 perception of stock status is consistent with previous assessments. Spawning-stock biomass (SSB) tends to be revised downwards each year, and fishing mortality revised upwards.

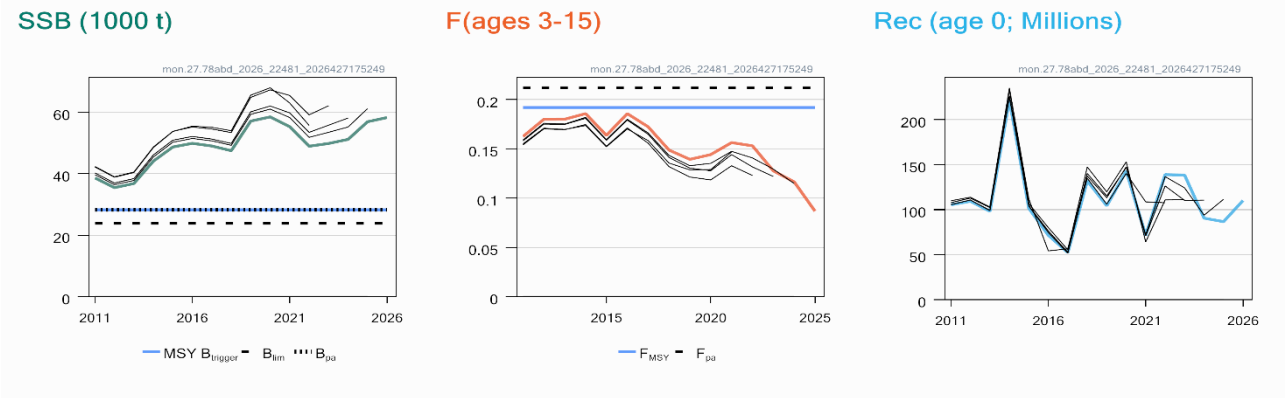

Figure 2 White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. Historical assessment results. The final year recruitment assumption is included for each line.

Issues relevant for the advice

The two anglerfish species (*Lophius budegassa* and *Lophius piscatorius*) are not separated in the landings statistics, and species-specific landings are estimated by ICES. The TACs are set separately for Subarea 7 and divisions 8.a, 8.b, 8.d, and 8.e, with each TAC covering catches of both species. ICES considers that management of the catches of the two anglerfish species under a combined TAC prevents effective control of the single-species exploitation rates and could lead to the overexploitation of either species.

Reference points

Table 4 White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. Reference points, values, and their technical basis.

Framework	Reference point	Value	Technical basis	Source
Maximum sustainable yield (MSY) approach	MSY $B_{trigger}$	28275	B_{PA}; in tonnes	ICES (2022)
	F_{MSY}	0.192	Stochastic simulations (EqSim) with Beverton–Holt stock-recruitment relationship estimated by the assessment model with variability introduced by resampling residuals from the stock–recruitment fit.	ICES (2022)
Precautionary approach	B_{lim}	23868	Spawning-stock biomass $(SSB)_{2004}$; lowest observed SSB with high recruitment; in tonnes	ICES (2022)
	B_{PA}	28275	$B_{lim} \times \exp(\sigma \times 1.645)$, where $\sigma = 0.103$; in tonnes	ICES (2022)
	F_{PA}	0.212	F_{P05} with advice rule (AR): the F that provides a 95% probability for SSB to be above B_{lim}	ICES (2022)
Management plan	MAP MSY $B_{trigger}$	28275	MSY $B_{trigger}$; in tonnes	ICES (2022)
	MAP B_{lim}	23868	B_{lim}; in tonnes	ICES (2022)
	MAP F_{MSY}	0.192	F_{MSY}	ICES (2022)
	MAP range F_{lower}	0.131	Consistent with ranges resulting in no more than 5% reduction in long-term yield compared with F_{MSY}	ICES (2022)
	MAP range F_{upper}	0.212	Capped by F_{PA}	ICES (2022)

Basis of the assessment

Table 5 White anglerfish in Subarea 7 and divisions 8.a–b and 8.d. The basis of the assessment.

ICES stock data category	1 (ICES, 2025)
Assessment type	Length-based, sex-disaggregated and age-structured Stock Synthesis model used in the assessment and FLR and FLasher for the forecast (ICES, 2026)
Input data	Commercial landings and discards; three survey indices consisting of a combined French Southern Atlantic Bottom trawl survey (EVHOE-WIBTS-Q4 [G9527])/Irish Groundfish Survey (IGFS-WIBTS-Q4 [G7212]) index, the Spanish Porcupine Bottom Trawl Survey (SpPGFS-WIBTS-Q3 [G5768]), and the Irish Anglerfish and Megrim Survey (IE-IAMS [G3098]). Constant length dependent maturity, sex- and age-dependent natural mortality, and growth and length-weight parameters.
Discards and bycatch	Discards are available since 2003 and included in the assessment and forecast
Indicators	None
Other information	Last benchmarked in 2022 (ICES, 2023)
Working group report	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion (WGBIE)

History of the advice, catch, and management

Table 6 White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. History of ICES advice, the agreed total allowable catch (TAC), and ICES estimates of landings and catch. Weights are in tonnes.

Year	*L. piscatorius*		Combined *L. budegassa* + *piscatorius*			*L. piscatorius*	
	ICES advice**, #	Catch corresponding to advice **, #	Landings corresponding to advice**, #	Agreed TAC *	ICES landings***	ICES estimated landings	ICES estimated catches
1987	Not assessed	-	< 27600	39080	30710	23090	-
1988	Not assessed	-	< 19900	42990	29696	21314	-
1989	Not assessed	-	< 16400	42990	32835	24015	-
1990	Not assessed	-	< 26700	42990	30615	20983	-
1991	No advice	-	< 37800	42990	25543	16763	-
1992	No advice	-	< 33900	42990	21793	13617	-
1993	Concern about *L. pisc.* spawning-stock biomass (SSB) decrease	-	< 36000	25100	21461	14895	-
1994	SSB decreasing, still inside safe biological limits	-	< 33000	23900	22945	17201	-
1995	No increase in F	-	< 33000	23200	27987	21033	-
1996	No increase in F	-	-	30400	31426	23333	-
1997	No increase in F	-	-	34300	31097	22983	-
1998	No increase in F	-	-	34300	29073	20474	-
1999	No increase in F	-	< 24800	34300	25531	18792	-
2000	At least 20% decrease in F	-	< 37448	29600	21096	14451	-
2001	Reduce F below F_{PA}	-	< 37448	27600	23021	17293	-
2002	Reduce F below F_{PA}	-	< 37448	23700	28588	22083	-
2003	At least 30% decrease in F	-	< 37448	21000	36104	27933	30444
2004	At least 10% decrease in F	-	< 37448	26700	36565	29028	31439
2005	Maintain F below F_{PA}	-	< 27600	31200	35056	27869	29980
2006	Maintain F below F_{PA}	-	< 19900	34000	33783	27652	28545
2007	Maintain F below F_{PA}	-	< 16400	36000	37821	31213	32029
2008	Less than average landings	-	< 26700	36000	34452	27053	28046
2009	Same advice as last year	-	< 37800	36000	30122	21835	23913
2010	No increase in effort	-	< 33900	41400	30841	22215	24886
2011	No increase in effort	-	< 36000	40900	34005	24657	26489
2012	Reduce catch	-	< 33000	38900	36617	28188	30519
2013	Reduce catch by the rate of biomass decrease (14% for *L. piscatorius* and 20% for *L. budegassa*)	17900		36953	41086	30611	32295

Year	*L. piscatorius*		Combined *L. budegassa* + *piscatorius*			*L. piscatorius*	
	ICES advice**, #	Catch corresponding to advice **, #	Landings corresponding to advice**, #	Agreed TAC *	ICES landings***	ICES estimated landings	ICES estimated catches
2014	Increase landings by the rate of biomass increase (20% for *L. piscatorius* and 20% for *L. budegassa*)	< 26691	< 37448	42496	38306	28474	30333
2015	Same landings advice for *L. piscatorius* as in 2014	< 26691	< 37448	42496	37508	27859	30183
2016	Precautionary approach (same landings value as advised for 2014)	≤ 26691	≤ 37448	42496	39303	29083	32668
2017	Precautionary approach (same landings value as advised for 2016)	≤ 26691	≤ 37448	42496	37324	25634	27808
2018	Precautionary approach (same landings value as advised for 2016)	≤ 26691	≤ 37448	42496	32421	22345	23595
2019	Maximum sustainable yield (MSY) approach	≤ 31042	≤ 41841	41370	30512	20832	22196
2020	Management plan	31798 (range 21248–42331) ##	≤ 44757	44307	29377	20702	22057^
2021	Management plan	34579 (range 23320–45996) ##	≤ 50130	48338	31031^	21776^	23674^
2022	MSY approach	≤ 34275	≤ 52936	52205	32781^	22480^	24091^
2023	MSY approach	≤ 34540	≤ 57976	57976	32996^	20716^	22227^
2024	MSY approach	≤ 35502	≤ 61081	61081	31758	18212	19821
2025	MSY approach	≤ 34983	≤ 60300	60300	28200	16409	17228
2026	MSY approach	≤ 36090	≤ 58480	58480			
2027	MSY approach	≤ 36980	≤ 56110				

* Combined TACs for Subarea 7 and divisions 8.a–b and 8.d–e (note that 8.e is not part of the assessment area; however, catches are negligible).
** Includes Division 7.a since 2018 (ICES, 2018).
^ *L. piscatorius* landings and discards were revised for 2021, 2022, and 2023 because of changes to the data provided by UK.
# Advice refers to landings up to 2018 and to catches since 2019.
Catches corresponding to F_{MSY}, EU MAP range in brackets.

History of catch and landings

Table 7 White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. Catch distribution by fleet in 2025 as estimated by ICES.

Catch (2025)	Landings					Discards
17228 tonnes	61% otter trawl demersal fish	4% otter trawl *Nephrops*	13% beam trawl	18% gillnet	4% other gears	819 tonnes
	16409 tonnes					

Table 8a White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. History of commercial catch and landings; ICES estimated values are presented for **Subarea 7** for each country participating in the fishery. Weights are in tonnes. Minor differences in total values are due to rounding.

Year	France	Ireland	Spain	UK	Others	Unallocated	Landings in Subarea 7	Discards in Subarea 7
1986	9180	950	5831	3145	1753	0	20859	-
1987	7998	868	5059	3164	1272	0	18361	-
1988	7677	608	4291	3415	1375	0	17366	-
1989	8233	1482	4253	3746	3411	0	21126	-
1990	8161	1371	3985	2647	1440	0	17603	-
1991	6930	1012	3554	2454	655	0	14604	-
1992	5206	1050	2484	2570	946	0	12255	-
1993	5611	1147	2543	2346	1660	0	13308	-
1994	6834	1891	2652	2117	1663	0	15156	-
1995	8867	1541	3004	2374	2134	0	17921	-
1996	9237	1289	3849	2999	1971	0	19345	-
1997	8895	1855	3302	3143	1871	0	19066	-
1998	8052	1896	3403	3049	1287	0	17688	-
1999	7623	3076	2954	2812	853	0	17318	-
2000	6167	1660	2187	2574	831	0	13420	-
2001	7780	1535	2395	2903	1057	0	15669	-
2002	9195	1884	3084	2985	1397	0	18546	-
2003	12081	1456	4662	2850	1569	0	22619	2077
2004	12281	1646	4507	2906	1743	0	23083	1968
2005	11137	2071	4663	3032	1469	0	22371	1779
2006	10607	2656	4589	3137	1375	0	22366	674
2007	12253	2902	5065	4036	1596	0	25852	620
2008	10871	2419	4107	2928	1062	0	21387	743
2009	8691	2048	2754	3013	857	0	17363	1509
2010	8188	2523	2353	3675	993	0	17732	2038
2011	9546	2304	920	4287	1174	1313	19544	1443
2012	12225	2648	1398	4028	1835	1167	23302	1833
2013	12775	2557	3316	4629	1625	1148	26051	1405
2014	11410	2707	1892	6129	1055	337	23529	1443
2015	11721	2582	1693	5644	1284	414	23338	1796
2016	12667	2761	1754	6052	1578	351	25164	3056
2017	11473	2543	1744	5222	1498	0	22479	1912
2018	10360	2148	1810	4156	770	85	19327	1192
2019	9379	2388	1473	4553	858	0	18651	1314
2020	9372	2171	1477	4836	994	0	18850	810
2021*	9673	2696	1567	4515	1173	0	19623	1187
2022*	9970	2219	1596	5426	1149	0	20360	1042
2023*	10328	1980	1364	3874	970	0	18516	1233
2024^	7113	1804	1179	4458	990	0	15544	1377
2025^	7039	1373	1238	3223	983	0	13857	651

^ Preliminary ICES estimated data.

* UK revised landings and discards data

Table 8b White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. History of commercial catch and landings. For **divisions 8.a, 8.b, and 8.d**, ICES estimated values are presented by country participating in the fishery. The final column shows the total for divisions 8.a–b and 8.d. Weights are in tonnes. Minor differences in total values are due to rounding.

Year	France	Spain	Others	Unallocated	Total landings in divisions 8.a–b and 8.d	Total discards in divisions 8.a–b and 8.d
1986	3265	858	0	0	4122	-
1987	3955	774	0	0	4729	-
1988	3129	819	0	0	3948	-
1989	2264	625	0	0	2889	-
1990	2580	800	0	0	3379	-
1991	1657	502	0	0	2158	-
1992	1066	296	0	0	1362	-
1993	1314	274	0	0	1587	-
1994	1564	481	0	0	2045	-
1995	2402	482	0	228	3113	-
1996	2216	834	0	938	3988	-
1997	2143	707	0	1068	3917	-
1998	1534	711	0	542	2787	-
1999	924	549	0	0	1473	-
2000	690	341	0	0	1032	-
2001	1240	384	0	0	1624	-
2002	3023	514	0	0	3537	-
2003	4806	508	0	0	5315	434
2004	5227	718	0	0	5945	443
2005	4927	571	0	0	5498	332
2006	4819	420	48	0	5287	219
2007	4935	401	25	0	5361	197
2008	5132	527	7	0	5666	250
2009	4065	374	33	0	4472	569
2010	4043	367	73	0	4483	634
2011	4569	422	93	30	5114	388
2012	4221	430	194	41	4887	497
2013	4105	318	137	0	4560	279
2014	4279	408	174	84	4945	416
2015	4153	293	65	10	4521	528
2016	3561	283	69	5	3919	529
2017	2886	203	66	0	3154	263
2018	2844	156	15	3	3018	58
2019	1987	130	64	0	2181	50
2020	1666	129	57	0	1852	545
2021	1973	151	29	0	2153	706
2022*	1850	219	51	0	2120	570
2023	2012	188	0	0	2200	278
2024^	2499	168	0	0	2667	232
2025^	2371	173	9	0	2553	168

^ Preliminary landings data.
* UK revised landings data

Summary of the assessment

Table 9 White anglerfish in Subarea 7 and in divisions 8.a–b and 8.d. Assessment summary. Weights are in tonnes, recruitment in thousands. "High" and "Low" refer to 90% confidence intervals.

Year	Recruitment			Spawning-stock biomass (SSB)			Catch		Fishing pressure		
	Low	R_{age0}	High	Low	SSB	High	Landings	Discards	Low	$F_{ages3–15}$	High
1950	111651	116475	121507	195158	203612	212432	1528		0.0032	0.0042	0.0055
1951	111640	116464	121496	194304	202755	211572	1892		0.0040	0.0052	0.0066
1952	111627	116451	121483	193246	201691	210505	1593		0.0033	0.0044	0.0058
1953	111616	116440	121472	192333	200772	209581	1745		0.0037	0.0048	0.0064
1954	111603	116427	121459	191356	199786	208588	1747		0.0037	0.0049	0.0065
1955	111593	116416	121448	190460	198882	207676	449		0.00088	0.00119	0.00162
1956	111592	116415	121447	190459	198875	207663	488		0.00094	0.00129	0.00176
1957	111593	116416	121448	190569	198982	207766	511		0.00098	0.00135	0.00185
1958	111595	116418	121450	190762	199173	207955	452		0.00087	0.00119	0.00163
1959	111599	116422	121454	191035	199446	208227	2658		0.0055	0.0074	0.0101
1960	111586	116409	121441	190037	198449	207233	2751		0.0057	0.0078	0.0106
1961	111572	116395	121427	188967	197381	206169	3105		0.0064	0.0088	0.0121
1962	111555	116378	121410	187721	196138	204932	2925		0.0061	0.0083	0.0114
1963	111541	116364	121396	186647	195064	203860	3222		0.0067	0.0092	0.0127
1964	111526	116349	121380	185533	193952	202752	3812		0.0080	0.0109	0.0149
1965	111508	116331	121362	184249	192671	201478	4441		0.0094	0.0128	0.0175
1966	111488	116311	121342	182749	191180	200000	4906		0.0104	0.0143	0.0196
1967	111464	116287	121318	181118	189563	198402	6049		0.0129	0.0177	0.024
1968	111435	116257	121288	178968	187442	196317	15961		0.037	0.047	0.060
1969	111325	116147	121178	171529	180134	189172	17604		0.043	0.054	0.069
1970	111191	116013	121045	163252	172023	181265	17293		0.044	0.056	0.070
1971	111049	115872	120905	155255	164168	173593	19230		0.051	0.065	0.082
1972	110874	115699	120733	146349	155437	165090	20083		0.055	0.070	0.090
1973	110683	115510	120547	137665	146906	156768	14541		0.041	0.052	0.067
1974	110567	115396	120435	132996	142270	152191	17492		0.051	0.064	0.082
1975	110431	115262	120304	127864	137177	147169	18113		0.054	0.068	0.087
1976	110302	115136	120181	123440	132778	142821	18770		0.057	0.072	0.093
1977	110179	115016	120065	119502	128871	138975	16114		0.049	0.063	0.080
1978	110111	114949	120000	117524	126890	137002	18417		0.057	0.073	0.093
1979	110016	114857	119911	114741	124131	134288	20314		0.065	0.083	0.106
1980	26557	50810	97215	111213	120668	130927	26518		0.089	0.114	0.147
1981	32287	64021	126946	104250	113891	124424	24600		0.089	0.116	0.150
1982	88731	163558	301487	97600	107457	118310	26727		0.110	0.141	0.181
1983	111060	174328	273638	88795	98853	110051	30015		0.135	0.172	0.22
1984	19463	34726	61958	78364	88373	99660	29214		0.133	0.168	0.21
1985	34886	46639	62350	64077	73666	84690	28561		0.140	0.177	0.22
1986	59530	75105	94756	51555	60869	71867	24981		0.138	0.174	0.22
1987	126565	149972	177708	48669	59205	72022	23090		0.145	0.183	0.23
1988	25372	37492	55403	51700	60839	71594	21314		0.137	0.172	0.22
1989	38258	48560	61636	44543	52768	62511	24015		0.162	0.20	0.25
1990	9374	14105	21224	36356	43512	52078	20983		0.162	0.20	0.25
1991	43419	53994	67145	31230	37753	45638	16763		0.157	0.197	0.25
1992	118480	140919	167608	32807	39618	47844	13617		0.146	0.184	0.23
1993	103039	127256	157165	28661	35013	42773	14895		0.149	0.186	0.23
1994	81602	103676	131721	24961	30791	37983	17201		0.149	0.185	0.23
1995	65872	83967	107033	19775	24666	30767	21033		0.162	0.200	0.25
1996	22988	33204	47959	17517	21917	27423	23333		0.174	0.21	0.26
1997	38596	49557	63631	21691	26544	32482	22983		0.187	0.23	0.28
1998	41229	53036	68223	25274	30360	36469	20474		0.195	0.24	0.29
1999	110370	128560	149748	26178	31283	37384	18792		0.21	0.26	0.31
2000	23523	34170	49637	24413	29260	35068	14451		0.165	0.191	0.22
2001	242322	272104	305546	21187	25621	30984	17293		0.20	0.23	0.27

Year	Recruitment			Spawning-stock biomass (SSB)			Catch		Fishing pressure		
	Low	R_{age0}	High	Low	SSB	High	Landings	Discards	Low	$F_{ages3–15}$	High
2002	91685	108002	127223	17976	21956	26817	22083		0.21	0.23	0.27
2003	83773	92888	102994	15786	19367	23761	27933	2511	0.23	0.26	0.29
2004	201622	217519	234669	18334	22041	26498	29028	2411	0.21	0.23	0.26
2005	87176	96758	107394	16586	19921	23927	27869	2110	0.196	0.22	0.25
2006	37953	43109	48964	28002	32589	37927	27652	892	0.181	0.20	0.23
2007	56582	62672	69418	31255	36064	41612	31213	816	0.20	0.23	0.26
2008	108617	119077	130544	30710	35516	41076	27053	993	0.186	0.21	0.23
2009	165958	179663	194499	37453	43143	49699	21835	2078	0.174	0.196	0.22
2010	134315	145995	158691	37287	43061	49729	22215	2672	0.155	0.174	0.196
2011	95983	105386	115710	33288	38658	44894	24657	1832	0.145	0.163	0.182
2012	99907	109313	119605	30489	35490	41313	28188	2330	0.161	0.180	0.20
2013	89080	98130	108098	31712	36842	42803	30611	1684	0.161	0.180	0.20
2014	206248	222361	239733	38261	44128	50895	28474	1859	0.165	0.186	0.21
2015	90876	101534	113441	42337	48720	56064	27859	2324	0.146	0.164	0.183
2016	62322	71531	82101	43390	49921	57435	29083	3585	0.165	0.186	0.21
2017	45339	52265	60248	42502	49041	56586	25634	2175	0.152	0.172	0.195
2018	120190	132057	145096	41046	47519	55014	22345	1250	0.131	0.149	0.169
2019	93125	104216	116628	49596	57156	65868	20832	1364	0.122	0.139	0.159
2020	129359	142888	157831	50715	58509	67501	20037	1356	0.127	0.144	0.164
2021	63015	71442	80996	47765	55330	64094	22040	1897	0.137	0.156	0.179
2022	124627	138968	154959	41948	48971	57169	22706	1611	0.134	0.153	0.176
2023	122749	138384	156010	42559	49871	58438	22101	1512	0.111	0.128	0.147
2024	78125	90550	104952	43617	51202	60106	18212	1609	0.100	0.117	0.136
2025	71027	86645	105698	48571	56946	66766	16409	819	0.074	0.087	0.101
2026		110492*		49667	58303	68439					

* Predicted from stock–recruitment relationship.

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