

Sole (Solea solea) in divisions 7.b and 7.c (West of Ireland)

ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, catches should be no more than 19 tonnes in each of the years 2021, 2022, and 2023.

Note: This advice sheet is abbreviated due to the COVID-19 disruption. The previous advice issued for 2018–2020 is attached as Annex 1.

Stock development over time

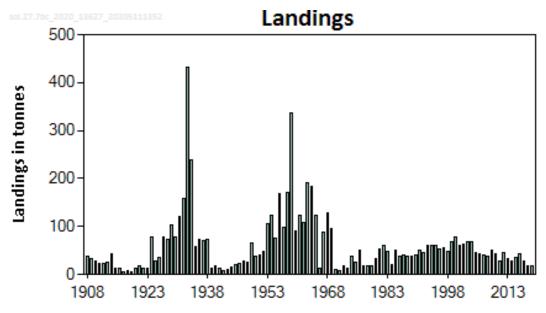


Figure 1 Sole in divisions 7.b and 7.c. Official landings.

Stock and exploitation status

Table 1 Sole in divisions 7.b and 7.c. State of the stock and the fishery relative to reference points.

		Fishing pressure				Stock size					
		2017	2018		2019			2017	2018		2019
Maximum sustainable yield	F _{MSY}	3	3	3	Unknown		MSY B _{trigger}	3	?	3	Unknown
Precautionary approach	F_{pa}, F_{lim}	?	?	3	Unknown		B _{pa} ,B _{lim}	?	?	8	Unknown
Management plan	F _{MGT}	_	_	_	Not applicable		B _{MGT}	_	_	_	Not applicable

Catch scenarios

The precautionary buffer has been applied as it was last applied in 2017.

Table 2 Sole in divisions 7.b and 7.c. The basis for the catch scenarios. *

Advised catches for 2020		24 tonnes
Discard rate		Negligible
Precautionary buffer	Applied	0.8
Catch advice **		19 tonnes
% advice change ***		-20

^{*} The figures in the table are rounded. Calculations were done with unrounded inputs and computed values may not match exactly when calculated using the rounded figures in the table.

History of the advice, catch, and management

Table 3 Sole in divisions 7.b and 7.c. ICES advice and official landings. All weights are in tonnes.

Year ICES advice 1993 - 1994 -	Predicted catch corresp. to advice	Agreed TAC	Official landings 60
1994 -	-	-	
	-		00
		-	61
1995 -	-	-	61
1996 -	-	-	54
1997 -	-	-	55
1998 -	-	-	49
1999 -	-	-	68
2000 -	-	-	77
2001 -	-	80	60
2002 No advice	-	80	64
2003 Reduce TAC to recent landings	65	80	69
2004 Reduce TAC to recent landings (1998–2002)	65	65	67
2005 Reduce TAC to recent landings (1999–2003)	62	65	45
2006 No increase in catches	64	65	44
2007 No increase in catches	64	65	42
2008 No increase in catches	50	59	39
2009 Same advice as last year	50	50	50
2010 No advice	-	45	44
2011 No advice	-	44	27
2012 No increase in catch	-	44	45
2013 20% reduction in catches (last 3 years' average)	< 30	42	33
2014 Same catch advice as for 2013	< 30	42	28
2015 Same catch advice as for 2013	< 30	42	35
2016 Precautionary approach (same advised catch value a	s given for 2015) ≤ 30	42	42
2017 Precautionary approach (same advised catch value a	s provided for 2016) ≤ 30	42	27
2018 Precautionary approach	≤ 24	42	18 *
2019 Precautionary approach (same advised catch value a	s provided for 2018) ≤ 24	42	18 *
2020 Precautionary approach (same advised catch value a	s provided for 2018) ≤ 24	42	
2021 Precautionary approach	≤ 19		
2022 Precautionary approach (same advised catch value a			
2023 Precautionary approach (same advised catch value a	s provided for 2021) ≤ 19		

^{*} Preliminary.

^{** [}Recent advised catch] × [precautionary buffer].

^{***} Advice value for 2021 relative to the advice value for 2020.

History of the catch and landings

Table 4 Sole in divisions 7.b and 7.c. History of official landings presented by country; ICES unallocated and estimated values. All weights are in tonnes.

	All weights are						
Vasa	Offical landings					Unallagatad	ICEC antimates
Year	France	UK	Ireland	Other countries	Total	Unallocated	ICES estimates
1908	0	1	37	0	38		
1909	0	0	32	0	32		
1910	0	0	28	0	28		
1911	0	1	22	0	23		
1912	0	1	22	0	23		
1913	0	1	25	0	26		
1914	0	1	43	0	44		
1915	0	1	12	0	13		
1916	0	0	14	0	14		
1917	0	0	6	0	6		
1918	0	0	7	0	7		
1919	0	0	6	0	6		
1920	0	9	5	0	14		
1921	0	10	9	0	19		
1922	0	4	9	0	13		
1923	0	2	10	0	12		
1924	0	15	64	0	79		
1925	0	11	18	0	29		
1926	7	10	18	0	35		
1927	47	11	19	0	77		
1928	49	8	16	0	73		
1929	74	11	18	0	103		
1930	52	5	22	0	79		
1931	82	9	29	0	120		
1932	122	10	27	0	159		
1933	411	10	10	0	431		
1934	217	10	13	0	240		
1935	40	7	11	0	58		
1936	43	20	9	0	72		
1937	32	25	14	0	71		
1938	44	21	7	0	72		
1939	0	0	13	0	13		
1940	0	0	19	0	19		
1941	0	0	14	0	14		
1942	0	0	8	0	8		
1943	0	0	11	0	11		
1944	0	0	16	0	16		
1945	0	0	20	0	20		
1946	0	12	10	0	22		
1947	0	6	8	15	29		
1948	0	11	14	0	25		
1949	41	12	12	0	65		
1950	24	9	6	0	39		
1951	27	7	6	0	40		
1952	40	2	6	0	48		
1953	99	2	4	0	105		
1954	116	1	7	0	124		
1955	66	1	9	0	76		
1956	161	1	6	0	168		
1957	94	1	4	0	99		
1958	163	2	6	0	171		
1959	327	1	8	0	336		
1960	80	1	9	0	90		

	Offical landings						
Year	France	UK	Ireland	Other countries	er countries Total		ICES estimates
1961	110	1	12	0	123		
1962	100	0	8	0	108		
1963	172	0	19	0	191		
1964	159	1	24	0	184		
1965	95	5	24	0	124		
1966	0	1	11	0	12		
1967	78	0	11	0	89		
1968	121	0	8	0	129		
1969	86	1	9	0	96		
1970	3	0	8	0	11		
1971	0	2	5	0	7		
1972	4	0	13	0	17		
1973	0	0	12	0	12		
1974	25	0	12	0	37		
1975	7	0	19	0	26		
1976	6	0	44	0	50		
1977	3	0	14	0	17		
1978	3	0	16	0	19		
1979	6	0	13	0	19		
1980	9	0	24	0	33		
1981	6	0	47	0	53		
1982	5	1	55	0	61		
1983	9	0	40	0	49		
1984	3	0	17	0	20		
1985	6	0	44	0	50		
1986	8	0	29	0	37		
1987	2	0	39	0	41		
1988	2	1	34	0	37		
1989	0	0	38	0	38		
1990	0	0	41	0	41		
1991	5	0	46	0	51		
1992	2	0	43	0	45		
1993	1	0	59	0	60	0	60
1994	1	0	60	0	61	9	70
1995	2	0	59	0	61	-2	59
1996	2	0	52	0	54	3	57
1997	3	1	51	0	55	0	55
1998	0	0	49	0	49	17	66
1999	0	0	68	0	68	4	72
2000	12	0	65	0	77	-9	68
2000	7	0	53	0	60	0	60
2001	14	0	50	0	64	-3	61
2002	19	0	50	0	69	-5	64
2003	18	0	49	0	67	2	69
2004	7	0	38	0	45	-1	44
2005	12	0	31	0	43	1	43
2006	7	0	34	0	43	1	43
2007	6	0	31	0	37	2	42
2008	5	0	46	0	51	0	51
	8	0	35	0	43	0	43
2010	5		22		27	5	
2011	7	0		0			22
2012	/	0	38	0	45	2	43

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Voor			Unallacated	ICEC actimates			
Year	France	UK	Ireland	Other countries	Total	Unallocated	ICES estimates
2013	3	0	30	0	33	0	33
2014	3	0	23	0	26	1	27
2015	3	0	31	0	34	0	34
2016	6	0	36	0	42	0	42
2017	5	0	22	0	27	0	27
2018 *	2	0	16	0	18	0	18
2019 *	3	0	15	< 1	18	0	18

^{*} Preliminary.

Sources and references

ICES. 2020. Working Group for the Celtic Seas Ecoregion (WGCSE). Draft report. ICES Scientific Reports. 2:40. xx pp. http://doi.org/10.17895/ices.pub.5978. Publication of the full report is expected end of 2020.

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ICES Advice on fishing opportunities, catch, and effort Celtic Seas and Oceanic Northeast Atlantic ecoregions sol.27.7bc



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Sole (Solea solea) in divisions 7.b and 7.c (West of Ireland)

ICES stock advice

ICES advises that when the precautionary approach is applied, catches should be no more than 24 to the in each of the years 2018, 2019 and 2020.

Stock development over time

The state of the stock is unknown. Landings have been at a low level for several decades.

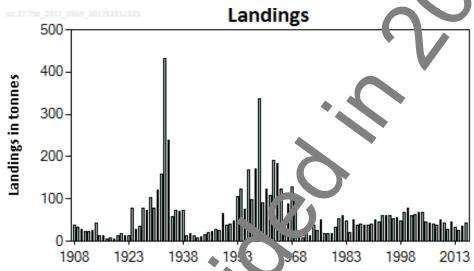


Figure 1 Sole in divisions 7.b and 7.c. Official landing

Stock and exploitation status

 Table 1
 Sole in divisions 7.b and 7.c. State (ithe stack and fishery relative to reference points.)

		Funing resture			Stock size				
	2014	71,5	2016			2015	2016		2017
Maximum sustainable yield	F _{MSY}	9	? Unknown		MSY B _{trigger}	3	3	3	Unknown
Precautionary approach	F _{pa} ,F _{lim} ?	10	? Unknown		B _{pa} ,B _{lim}	?	?	8	Unknown
Management plan	F _{N sT} —	_ -	 Not applicable 		B _{MGT}	_	-	-	Not applicable
Qualitative evaluation	9	0	? Unknown		-	?	?	8	Unknown

Catch options

The ICES framework for category 6 stocks was applied (ICES, 2012). For stocks without information on abundance or exploitation, ICES considers that a precautionary reduction of catches should be implemented unless there is ancillary information clearly indicating that the current level of exploitation is appropriate for the stock. The precautionary buffer was last applied in 2012 (for the 2013 advice) and with no new information available to support the current invel of catches the precautionary buffer is applied for the 2018 advice.

Table 2 Sole in divisions 7.b and 7.c. The basis for the catch options.

Recent advised catches			30 tonnes
Discard rate			Negligble
Precautionary buffer	Applied		0.8
Catch advice*			24 tonnes

^{*} Recent advised catch × precautionary buffer.

Basis of the advice

Table 3 Sole in divisions 7.b and 7.c. The basis of the advice.

Advice basis	Precautionary approach
Management plan	ICES is not aware of any agreed precautionary managemen. Jan for sole in this area.

Quality of the assessment

Catches in this area are too low to support the collection of the pocess. Information for an assessment of the stock status.

Issues relevant for the advice

There are no issues relevant for the advice.

Reference points

No reference points are defined for this stock.

Basis of the assessment

Table 4 Sole in divisions 7.b and 7 :. Basis of assessment and advice.

6 (ICES, 2016)
0 (1013, 2010)
No assessment
Official and ing
Conside. Iner igible
N/ne
None None
Morking Group for the Celtic Seas Ecoregion (<u>WGCSE</u>)

Information from stak holders

There is no ad lition. 'available information for this stock.

History of the advice, catch, and management

 Table 5
 Sole in divisions 7.b and 7.c. ICES advice and official landings. All weights are in tonnes.

Table 5	ble 5 Sole in divisions 7.b and 7.c. ICES advice and official landings. All weights are in tonnes.						
Year	ICES advice	Predicted catch	Agreed	Official			
rear	TOLO GAVICE	corresp. to advice	TAC	landings			
1993	-	-	-	60			
1994	-	-	-	61			
1995	-	-	-	61			
1996	-	-		54			
1997	-	-		55			
1998	-		-	49			
1999	-		-	68			
2000	-		-	77			
2001	-		80	60			
2002	No advice	V .	80	64			
2003	Reduce TAC to recent landings	65	80	69			
2004	Reduce TAC to recent landings (1998–2002)	65	65	67			
2005	Reduce TAC to recent landings (1999–2003)	62	65	45			
2006	No increase in catches	64	65	43			
2007	No increase in catches	64	65	41			
2008	No increase in catches	50	59	37			
2009	Same advice as last year	50	50	51			
2010	No advice	-	45	43			
2011	No advice	-	44	27			
2012	No increase in catch	-	44	45			
2013	20% reduction in catches (last 3 years' average)	<30	42	33			
2014	Same catch advice as for 2013	<30	42	27			
2015	Same catch advice as for 2013	<30	42	34			
2016	Precautionary approach (same advised catch value as given for 20.5)	≤30	42	43			
2017	Precautionary approach (same advised catch value as provided for	≤30	42				
2018	Precautionary approach	≤24					
2019	Precautionary approach (same advised catch value as provided for	≤24					
2020	Precautionary approach (same advised catch value and yided for	≤24					
-							

History of the catch and landings

 Table 6
 Sole in divisions 7.b and 7.c. Cate distribution in 2016 as estimated by ICES.

Catch		Landings	Discards
43 tonnes	4	43 tonnes	Negligible



Table 7 Sole in divisions 7.b and 7.c. History of official landings presented by country; ICES unallocated and estimated values. All weights are in tonnes.

	values. All we	eights are in tonn	es.				
Year			Unallocated	ICES estimates			
Teal	France	UK	Ireland	Other Countries	Total	Offanocated	ices estimates
1908	0	1	37	0	38		
1909	0	0	32	0	32		
1910	0	0	28	0	28		
1911	0	1	22	0	23		
1912	0	1	22	0	23		
1913	0	1	25	0	26		
1914	0	1	43	0	44		
1915	0	1	12	0	13		
1916	0	0	14	0	1		
1917	0	0	6	0	6		
1918	0	0	7	0	7		
1919	0	0	6	0	6		
1920	0	9	5	0	14		
					9		
1921	0	10	9	0			
1922	0	4	9	0 4	13		
1923	0	2	10	0	12		
1924	0	15	64	0	79		
1925	0	11	18		29		
1926	7	10	18	0	35		
1927	47	11	19	0	77		
1928	49	8	16	U	73		
1929	74	11	18		103		
1930	52	5	22	3	79		
1931	82	9	29	0	120		
1932	122	10	27	0	159		
1933	411	10	10	0	431		
1934	217	10	1	0	240		
1935	40	7	11	0	58		
1936	43	20	7	0	72		
1937	32	25	14	0	71		
1938	44	21	7	0	72		
1939	0	0	13	0	13		
1940	0	0	19	0	19		
1941	0	5	14	0	14		
1942	0	0	8	0	8		
1943	0		11	0	11		
1944	0	0	16	0	16		
1945	0	0	20	0	20		
1945	0	12	10	0	22		
1946	0	6	8	15	29		
1947		11	14	0	25		
1948	41	12	12	0	65		
		9		0			
1950	27	7	6		39		
1951	27		6	0	40		
1952	2	2	6	0	48		
1953	99	2	4	0	105		
1954	116	1	7	0	124		
1955	66	1	9	0	76		
1. 0	161	1	6	0	168		
195	94	1	4	0	99		
1958	163	2	6	0	171		
1959	327	1	8	0	336		
1960	80	1	9	0	90		
1961	110	1	12	0	123		
1962	100	0	8	0	108		

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Year							
	France	UK	Landings Ireland	Other Countries	Total	Unallocated	ICES estimates
1963	172	0	19	0	191		
1964	159	1	24	0	184		
1965	95	5	24	0	124		
1966	0	1	11	0	12		
1967	78	0	11	0	89		
1968	121	0	8	0	129		
1969	86	1	9	0	96		
1970	3	0	8	0	11		
1971	0	2	5	0	7		
1972	4	0	13	0	17		
1973	0	0	12	0	1		
1974	25	0	12	0	37		
1975	7	0	19	0	26		
1976	6	0	44	0	50	V	
1977	3	0	14	0	17	•	
1978	3	0	16	0	9		
1979	6	0	13	0 4	19		
1980	9	0	24	0	33		
1981	6	0	47	0	53		
1982	5	1	55		61		
1983	9	0	40	0	49		
1984	3	0	17	0	20		
1985	6	0	44	6	50		
1986	8	0	29		37		
1987	2	0	39	0	41		
1988	2	1	34	0	37		
1989	0	0	38	0	38		
1990	0	0	41	0	41		
1991	5	0	4	0	51		
1992	2	0	43	0	45		
1993	1	0	55	0	60	0	60
1994	1	0	50	0	61	9	70
1995	2	0	9	0	61	-2	59
1996	2	0	52	0	54	3	57
1997	3	1	51	0	55	0	55
1998	0	0	49	0	49	17	66
1999	0	0	68	0	68	4	72
2000	12	0	65	0	77	-9	68
2001 2002	7 14	0	53 50	0	60 64	-3	60 61
	19	0		0			
2003 2004	19	0	50 49	0	69 67	-5 2	64 69
2004	18	0	38	0	45	-1	44
	13	0	31				
2006	12	0		0	43	0	43
2007		0	34 31	0	41 37	3	42
2008	6		46	0	51		40
2009	5	0		0	43	0	51
2010	8 5	0	35 22	0	27	-5	43 22
2011							
2012	7	0	38	0	45	-2	43
26 3	3	0	30	0	33	0	33
201	3	0	23	0	26	1	27
2015* 2016*	3	0	31 36	0	34 43	0	34 43
* Preliminary.	1 6	l 0	30	0	43	0	43

^{*} Preliminary.

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Summary of the assessment

There is no assessment for sole in this area.

Sources and references

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