

Assessment of North Sea herring (*Clupea harengus*)

Assessment ID:HAWG-HERRNS-1960-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/370>

Area ID: multinational-ICES-IV

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for the Area South of 62N
Assessment authors	Anon
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1960-2007
Document	ICES-HAWG-2007.pdf (pdf in database)
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Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

			primary LME	secondary LME	tertiary LME
			22 - North Sea	na	na
Parameter	Value	Units			
A50-yr	2	yr			
SSB-AGE-yr	2+	yr			
REC-AGE-yr	0	yr			
TB-AGE-yr	0+	yr			
F-AGE-yr-yr	2-6	yr-yr			
M-1/T	0.1 for 4+	1/T			
SSB-SEX-sex					
M					
L50-cm					

			Reference points		
Parameter	Value	Units	Parameter	Value	Units
			F0.1-1/T	0.22	1/T
			Fpa-1/T (F)	0.25	1/T
			SSBpa-MT (SSB)	1300000	MT
			SSBlim-MT (SSB)	800000	MT
			SSB_{2006}/SSB_{lim}	1.510	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1960	1960	1960	1960	1960
Maximum year	2006	2007	2006	2006	2006
Time series minimum	47975	2732.61	0.053	211261	11000
Time series maximum	2183501	109000	1.4676	4792818	1168800
Units	MT	E03	1/T	MT	MT

