## Assessment of Gulf of Maine northern shrimp (Pandalus borealis)

Assessment ID:ASMFC-PANDALGOM-1960-2009-IDOINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/331

Area ID: USA-NMFS-5Y

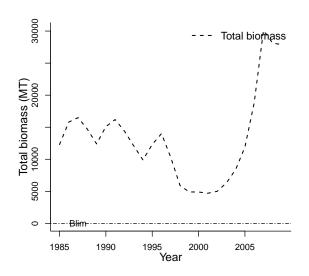
## General assessment details.

Detail	Value					
Management body	NMFS					
Assessment group	Atlantic States Marine Fisheries Com-					
	mission					
Assessment authors	Atlantic States Marine Fisheries Com-					
	mission					
Assessment method	Catch-Survey Analysis (like a state space					
	approach)					
Publication year	2008					
Timeseries span	1960-2009					
Document	2008ShrimpAssessment.pdf (pdf in					
	database)					
Recorder	IDOINE					
Date entered	2009-04-22					
Date last loaded	2011-06-14					
QA/QC complete	YES					
Date approved	2011-06-10					

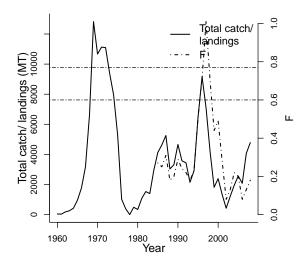
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME tertiary LM			
7 - Northeast U.S	8. Conti	nental Sl	nelf na	na		
	Reference points					
Parameter	Value	Units	Parameter	Value	Units	
SSB-AGE-yr	3.5	yr	Blim-MT (TB)	1.54	MT	
SSB-SEX-sex	1	sex	Bpa-MT (TB)	9	MT	
F-AGE-yr-yr	1.5-6	yr-yr	F0.1-1/yr (F)	0.46	1/yr	
TB-AGE-yr	1.5+	yr	Flim-1/T (F)	0.6	1/T	
M-1/yr	0.25	1/yr	Fmsy-1/yr (F)	0.77	1/yr	
REC-AGE			Fpa-1/T (F)	0.28	1/T	
M			MORATOR-yr-yr	1978	yr-yr	
A50-yr			F40%-1/T	0.34	1/T	
L50-cm			$F_{2008}/F_{lim}$	0.300		
			$F_{2008}/F_{msy}$	0.234		

Time series minima and maxima								
	SSB	R	F	TB	Catch			
Minimum year			1985	1985	1960			
Maximum year			2008	2009	2008			
Time series minimum			0.08	4700	0			
Time series maximum			1.01	30100	12823.9			
Units			1/T	MT	MT			



No recruitment data available



No SSB-recruit data available