## Stock Name: Red grouper - Gulf of Mexico Assessed in: January 2016

Parameter Name	Abundance	Recruitment	Spawners	Catch
Туре	Biomass	Age	Female_Matur	Kill_Bio
Source	Model	Model	Model	Model
Basis	Biomass - mt	Numbers	Eggs	Biomass - mt
Range	Age_0+	Age_0	Mature	Exploitable_de ad
Statistic	Mean	Mean	Mean	Mean
Scale	1	1000	1	1
Year				
1993	24603	23641	1460000	6789
1994	23235	4972	1370000	4973
1995	22897	40719	1360000	5010
1996	23331	9880	1340000	4255
1997	24222	2960	1360000	4041
1998	24838	87624	1440000	3112
1999	28874	8270	1580000	4935
2000	31346	9291	1630000	4835
2001	33890	48812	1860000	4347
2002	37720	10787	2160000	5546
2003	39876	23860	2310000	4665
2004	42709	2724	2530000	5964
2005	43477	119817	2650000	24345
2006	26703	34456	1520000	4350
2007	29079	22626	1500000	3311
2008	33110	19915	1710000	4144
2009	36695	21534	2010000	3486
2010	40780	12759	2360000	3043
2011	44736	7270	2680000	4539
2012	46403	12838	2860000	5405
2013	46544	13100	2910000	5844

## TIME SERIES HEADER DESCRIPTIONS

Type: Provides a more detailed definition of the data being entered.

Source: Describes where a particular type of data comes from. Typical data sources include Model (output from an assessment model), Survey (index of survey observations), or Fishery (e.g.

## NOAA NMFS Stock Assessment Time Series Data

reported catch rather than a model estimate of catch).

Basis: Describes the units for the values being reported. For example: biomass-mt means stock weight in metric tons.

Range: Used in conjunction with type to refine the description of the data being entered. The range specifies a subset of the population to which the data apply. For example, Age 3+ means fish that are age 3 and older, or mature means just the mature portion of the stock.

Statistic: Describes the statistical characteristics of a time series column, and may include mean, median, index, observed, official, MCMC, lower 95% CI, upper 95% CI, etc.

Scalar: Describes a multiplier by which the reported values should be multiplied to restore them to their natural units. For example, if biomass is reported in 1000 mt, then a value of 1000 is entered in this field.