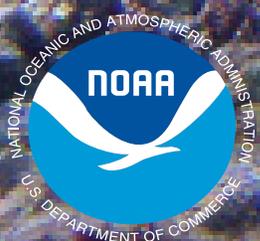
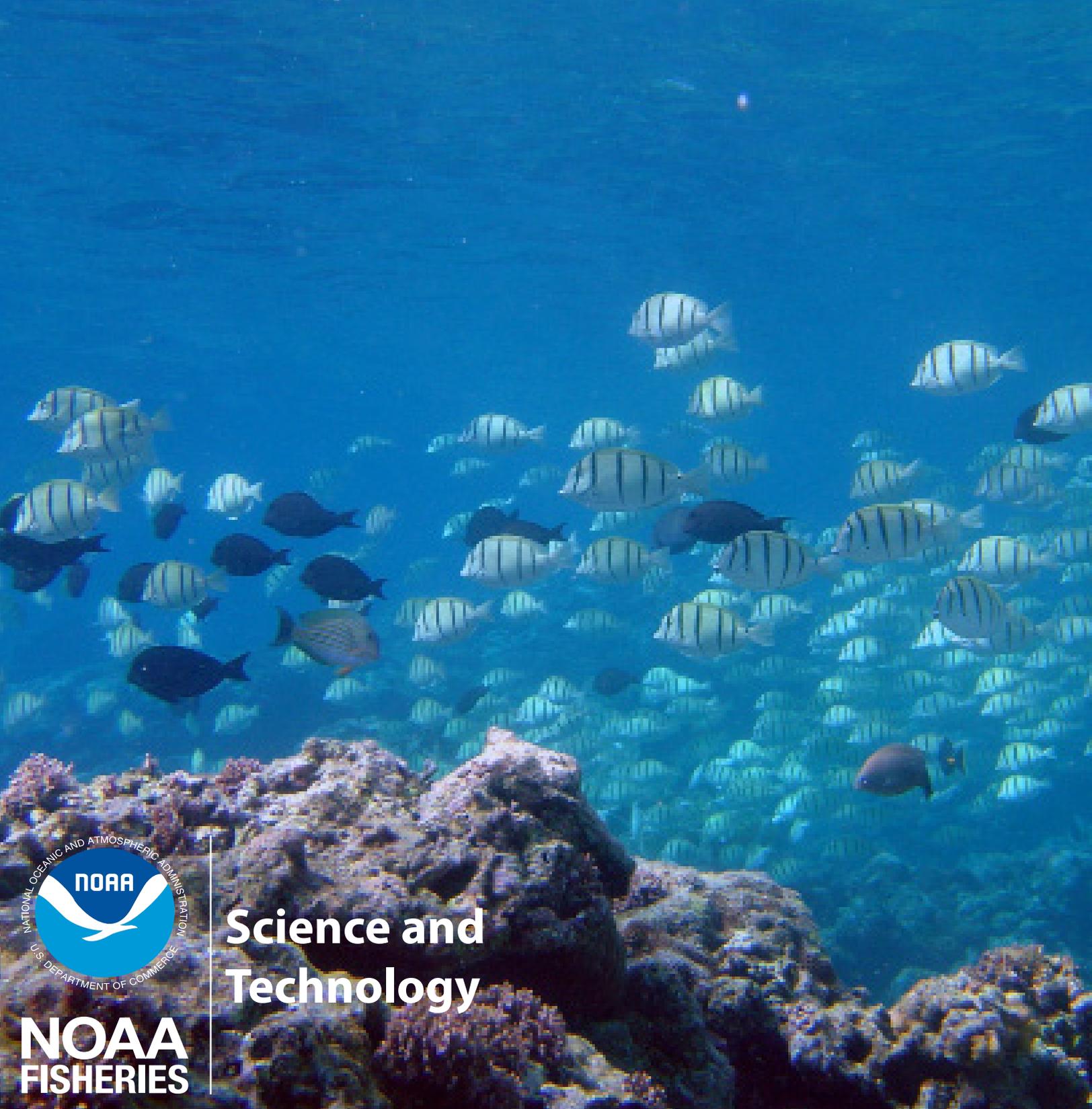


Fish Assessment Report

FY 2017 Quarter 3 Update

3



NOAA
FISHERIES

**Science and
Technology**

Overview

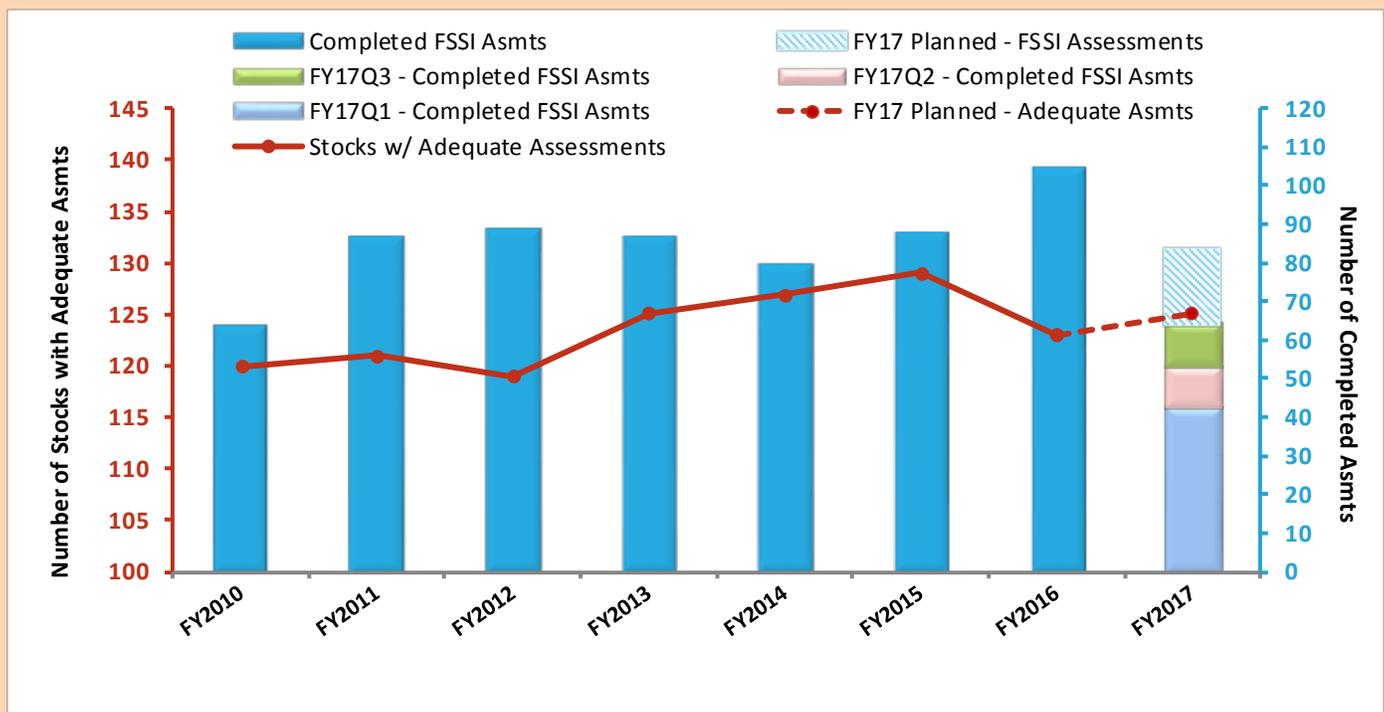
Stock assessments are key to sustainable fisheries management. They provide scientific information to determine the status of fish stocks and to set annual catch limits (ACLs) that prevent overfishing and optimize yield from our Nation's fisheries. This Fish Assessment Report provides a quarterly update on the status of NOAA Fisheries assessment activities for federally managed fish stocks. For more information on stock assessments and how they are conducted, please see the FAQ's on Page 7 of this report.



Black sea bass, *Centropristis striata*

NOAA Fisheries works with state and federal partners in each management area to conduct assessments for each fish stock or stock complex, selecting assessment level, type, and frequency based on a variety of factors such as fishery importance, ecosystem importance, stock biology, status of the stock, data availability, and assessment capacity. U.S. fish stocks are divided into two general categories for developing national reports. The most commercially and recreationally important domestic stocks are tracked as components of the Fish Stock Sustainability Index (FSSI). These 199 stocks are collectively referred to as 'FSSI stocks' and account for 85 percent of total fisheries catch. In FY 2017 NOAA Fisheries plans to complete assessments for 85 of the 199 FSSI stocks. The remaining (non-FSSI) stocks consist of 275 federally managed stocks and stock complexes. While there is often a high priority for assessing FSSI stocks, stock status and ACLs must be set for non-FSSI stocks as well. In FY 2017 NOAA Fisheries plans to complete 137 assessments for non-FSSI stocks, complexes, or stock complex members.

NOAA Fisheries Assessment Trends for FSSI Stocks



Recent and projected assessment activity for federally managed stocks in the Fish Stock Sustainability Index (FSSI). By the end of quarter 3 FY 2017, 124 of 199 (62.3 percent) FSSI stocks had adequate assessments. This is projected to increase to 125 of 199 (62.8 percent) by the end of FY 2017.

Completed and Planned Assessments

During Quarter 3, 17 stocks were assessed, including 11 FSSI and six non-FSSI stocks

NOAA Fisheries completed 11 assessments for FSSI stocks and six for non-FSSI stocks this quarter (Table 1).

The Northeast Fisheries Science Center (NEFSC) completed three stock assessments this quarter, all for FSSI stocks. It assessed ocean quahog along the Atlantic coast, and butterfish and longfin inshore squid in the Gulf of Maine and Cape Hatteras. The NEFSC also completed data updates for Atlantic mackerel in the Gulf of Maine and Cape Hatteras, bluefish along the Atlantic coast, and northwest Atlantic northern inshore squid.

The Alaska Fisheries Science Center (AFSC) completed stock assessments for the Alaska weathervane scallop stock (non-FSSI) and the golden king crab stocks off the Aleutian Islands (FSSI) and Pribilof Islands (non-FSSI) during quarter three. The North Pacific Fishery Management Council's Scientific and Statistical Committee accepted a new level four assessment model in the stock assessment of golden king crab off the Aleutian Islands. The AFSC developed the model over several years and its acceptance means that the stock is now adequately assessed (see page five for descriptions of model level and assessment adequacy).

The West Coast Region completed six FSSI stock assessments this quarter. It assessed four groundfish stocks: the Pacific coast stocks of arrowtooth flounder and darkblotched rockfish and the Southern Pacific coast stocks of blackgill rockfish and bocaccio. The other two assessments were the Pacific coast stocks of Pacific sardine and Pacific chub mackerel.

The Southeast Fisheries Science Center (SEFSC) completed one FSSI assessment of the South Atlantic Coast red grouper stock. It also completed assessments of the Gulf of Mexico almaco jack, lane snapper, lesser amberjack, and speckled hind stocks using a new data-limited approach. The SEFSC is evaluating a Data-Limited Methods Toolkit (DLM Toolkit) as a means of identifying management options for data-limited stocks. It utilizes a multiple model approach that allows assessment scientists to investigate a diverse set of methods with the goal of determining catch recommendations that are robust to the uncertainties and assumptions inherent in data-limited situations.

Several delays and schedule changes altered the count of assessments anticipated for this fiscal year. Four

SEFSC data-limited assessments were unsuccessful, and the assessments of gag in the Gulf of Mexico and black sea bass off the South Atlantic Coast experienced delays. The gag assessment was indefinitely delayed because of issues with gag landings data. The black sea bass assessment was delayed to incorporate an additional year of data and the SEFSC anticipates completing it during FY 2018. The West Coast region added partial updates of canary rockfish along the Pacific Coast and chilipepper rockfish along the Southern Pacific Coast to its quarter 4 schedule in response to errors discovered in the landings data. The assessment of Chinook salmon in the Klamath river was removed from the count of assessments.

At the end of quarter 3 FY 2017, 62.3 percent (124/199) of FSSI stocks have adequate assessments. This number increased from quarter 2 because of the assessments completed for golden king crab off the Aleutian Islands and blackgill rockfish off the southern California coast.

NOAA Fisheries plans to complete 21 assessments for FSSI stocks and 10 assessments of non-FSSI stocks in quarter four. They will bring the FY 2017 total count of stock assessments up to 222, the largest number completed by NOAA Fisheries in one year. This report's appendices provide detailed information on the assessments completed and planned for this year. Appendix A details FY 2017 completed assessments for FSSI stocks. Appendix B details FY 2017 completed assessments for non-FSSI stocks. Appendix C provides a list of the planned assessments remaining for FSSI and non-FSSI stocks in FY 2017. Appendix D provides the assessment status of FSSI stocks. These appendices provide the best information available at the time of reporting and are subject to change. Changes, other than those related to assessment completion, are shown in red.

Many stock assessments rely on data collected by NOAA's scientific surveys of fish stocks. NOAA Fisheries completed 21 scientific surveys of fish stocks during quarter 3 FY 2017 (Table 2).¹ There are 30 additional surveys planned for the remainder of FY 2017.

For more information on NOAA Fisheries' stock assessments, please visit the NOAA Fisheries' National Stock Assessment Program website.²

1 <http://www.st.nmfs.noaa.gov/finss/>

2 <http://www.st.nmfs.noaa.gov/stock-assessment/reports>

Completed and Planned Assessments pg. 2

Table 1. FY 2017 Completed and Planned Assessments

Region	Quarter 1		Quarter 2		Quarter 3		Quarter 4*		Quarter 3 Highlights
	FSSI	Non - FSSI	FSSI	Non - FSSI	FSSI	Non - FSSI	FSSI	Non - FSSI	
Northeast	0	0	4	0	3	0	8	1	Atlantic coast ocean quahog, Gulf of Maine / Cape Hatteras longfin inshore squid and butterfish
Southeast	5	4	4	0	1	4	5	1	Southern Atlantic Coast red grouper, Gulf of Mexico almaco jack, lane snapper, lesser amberjack, and speckled hind
West Coast ¹	0	0	2	65	6	0	8	4	Pacific Coast Pacific sardine, Pacific chub mackerel, arrowtooth flounder, and darkblotched rockfish and Southern Pacific Coast blackgill rockfish and bocaccio
West Pacific ²	0	0	0	27	0	0	0	3	None Planned
Alaska	37	23	1	0	1	2	0	4	Alaska weathervane scallop and golden king crab off the Aleutian Islands and Pribilof Islands
TOTAL	42	27	11	92	11	6	21	13	FY 2017 Anticipated Total: 223

Table 2. FY 2017 Completed and Planned Surveys

Region	Quarter 1		Quarter 2		Quarter 3		Quarter 4*		Quarter 3 Highlights
	NOAA	Charter	NOAA	Charter	NOAA	Charter	NOAA	Charter	
Northeast	1	1	1	0	4	1	2	2	Northeast ecosystem monitoring, Bluefin tuna slope sea survey, Northeast deep water coral habitat
Southeast	3	0	0	0	5	0	6	3	Experimental longline survey, SEAMAP reef fish video, SEAMAP spring plankton survey
West Coast ¹	2	4	3	0	4	1	3	5	Groundfish bottom trawl survey, northern California Current ecosystem forecasting survey
West Pacific ²	1	0	1	0	3	0	3	0	Fisheries oceanography ecosystem characterization and IEA, MARMAP
Alaska	1	0	2	0	2	1	1	5	Larval groundfish survey, snow crab growth collection
TOTAL	8	5	7	0	18	3	15	15	FY 2017 Anticipated Total: 48 / 23

Footnotes:

* Planned

¹ The west coast region includes assessments conducted by the northwest and southwest Fisheries Science Centers and by international commissions for the eastern Pacific Ocean in which those centers participate. This includes Pacific coast groundfish, Pacific coast salmon, and highly migratory species.

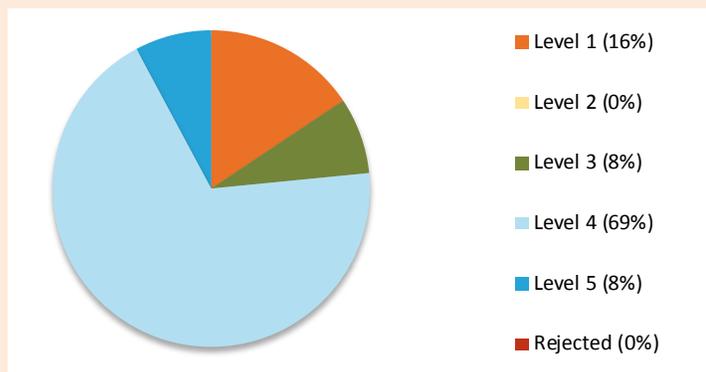
² The west Pacific region includes assessments conducted by the Pacific Islands Fisheries Science Center and international commissions for the U.S. west coast fisheries for highly migratory species and Pacific pelagic fisheries of the Western Pacific Regional Ecosystem.

Model Complexity and Assessment Type

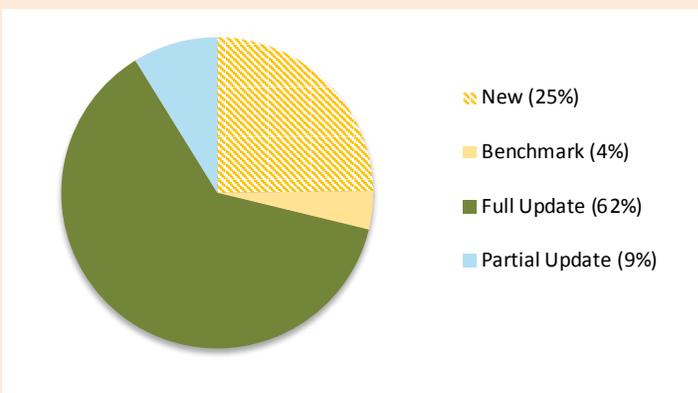
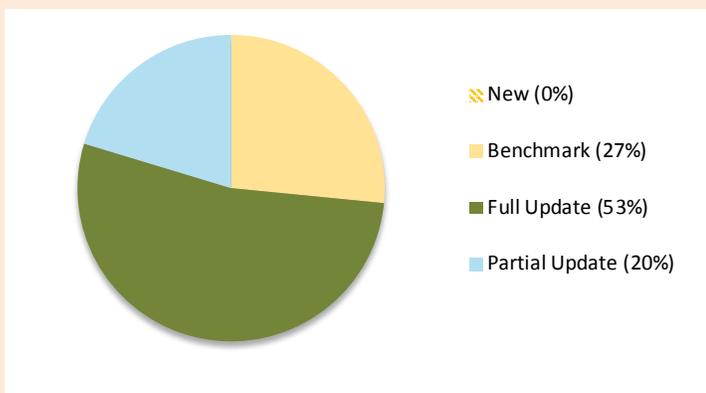
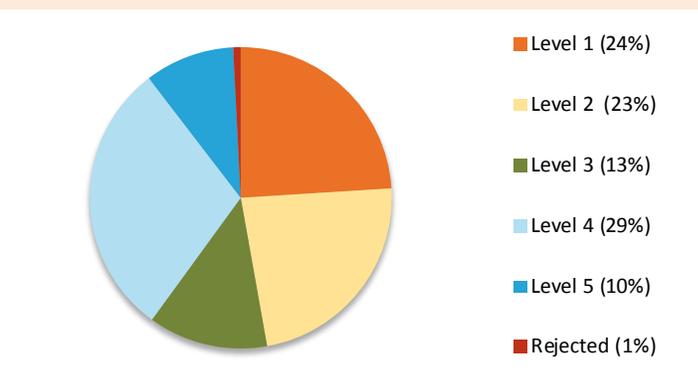
In quarter 3 FY2017, 11 FSSI stocks were assessed. Three assessments were conducted as benchmarks and eight were full updates. Ten of those assessments provide the full suite of assessment advice and are considered adequate (level 3 or higher). Six non-FSSI stock assessments were completed, none of which were completed at level three or higher (“adequacy” is reported only for FSSI stocks). Index-based and simple life history approaches (level 1 and 2), along with indicator analyses (level 1), were conducted for one FSSI stock. These assessments provide important science-based advice for the management of data-limited stocks but fall below the “adequate” threshold. Assessment levels and types for all assessments completed during FY 2017 are shown in the figures below.

Assessment Levels and Assessment Types for Assessments Completed in FY 2017

FSSI Stocks



Non-FSSI Stocks



Assessment Level	Description
1	An indicator analysis using time series of survey data, catch and effort, or a onetime abundance estimate
2	Simple equilibrium models applied to life history information; e.g. yield per recruit based on mortality
3	Equilibrium and non-equilibrium production models aggregated over age and/or over size
4	Size, stage, or age structured models
5	Level 3 or 4 models that directly include ecosystem considerations

Assessment Type*	Description
New	First assessment conducted for a given stock
Benchmark	Comprehensive investigations using assessment approaches that substantially differ from previous iterations
Full Update	Assessments that include the most recent year of survey data and minor revisions to the assessment model
Partial Update	Assessments that used the latest catch estimates to advance the previous projections by one or more years to develop catch advice

* Data updates are updates of survey indices and catch time series that are tracked for record-keeping purposes, but do not constitute stock assessments.

Quarterly Highlight: Stock Synthesis

NOAA Fisheries uses quantitative models of fish and fishery dynamics to conduct stock assessments. Where available, these models utilize data on fish stock abundance, biology, and catch gathered by NOAA Fisheries, its collaborative partners, and from commercial and recreational fisheries to estimate the condition of fish stocks and to provide harvest advice to fishery managers. NOAA Fisheries scientists consider regional needs and available data when selecting the appropriate modeling approach for a stock assessment. They then make internal adjustments to that approach to tailor it to a specific stock. Stock Synthesis is a highly adaptable stock assessment model that NOAA Fisheries developed and currently maintains.



Figure 1: this figure shows the number of federally managed stocks for which SS provided the assessment model framework.

Stock Synthesis (SS) is a statistical age-structured population-modeling framework initially developed in the 1980's for the assessment of northern anchovy along the Pacific coast. It has since undergone two major redevelopments, and continues to evolve to meet user needs. The modeling software centers on the use of integrated analysis, which considers a broader range of data than other approaches and produces complex assessment results in situations where robust data are lacking (e.g. stocks without survey-provided age or length composition data). One of its central tenets is that in fish stock assessments, different kinds of data can provide complementary information about a stock of fish and one source by itself may not sufficiently provide a complete picture of a stock's abundance and the impact of fishing upon it. In keeping with this, the SS framework is highly dynamic and is constantly incorporating new features to expand the types of data it can consider and analyses it can perform.

NOAA Fisheries released the newest version of SS in June of 2017. It includes improvements to SS's capability to incorporate environmental factors into stock assessment results and to analyze diverse assessment situations. The popularity of SS has resulted in the development of several add-on packages that provide a graphical user interface, options for processing and summarizing model outputs, data simulators, and even the ability to conduct management strategy evaluations.

Currently, the SS framework provides the basis of 85 stock assessments for federally managed US fish stocks. The majority of those stocks (40) are Pacific Coast groundfish stocks. They also include highly migratory species (tunas, billfishes, sharks) and coastal pelagic stocks on both the east (10) and west (10) coasts, groundfish off the Alaska coast (10), Gulf of Mexico reef fish (10) and shrimp stocks (3), and clam stocks (2) in the northeast.

Use of SS has grown markedly over time in both domestic (Figure 1) and international arenas and today it is one of the most popular assessment frameworks in the world. It contributes to numerous European, Australian, and internationally fished billfish and tuna stock assessments. This is attributable to both the cutting-edge developments that NOAA Fisheries staff continue to incorporate into the software and to the training opportunities that they have organized. Since 2015, there have been four SS workshops around the US as well as four international workshops conducted in Europe and South America. These workshops introduce new users to the software, demonstrate its capabilities, and provide hands-on training to participants.

The adaptability of SS ensures its continued use and utility for domestic stock assessment activities. Furthermore, as NOAA Fisheries begins exploring the utility of multi-model assessment approaches, SS will undoubtedly see its role expand further in domestic fisheries management.

Frequently Asked Questions

What is a stock assessment?

A stock assessment is the process of collecting, analyzing, and reporting demographic information to determine the effects of fishing (and other drivers) on fish populations and, to the extent possible, predict future catch and stock status.

What data are used in stock assessments?

Stock assessments are typically based on models of fish populations that require three primary categories of data inputs: catch, abundance, and biology, although data-limited assessments can be conducted when one or more of these data types are missing. Data inputs must be accurate and timely to ensure the highest quality stock assessments. To the extent feasible, ecosystem and environmental factors that affect fish stocks are included.

Why do we assess stocks?

NOAA Fisheries' stock assessments provide high-quality science information needed by managers to support sustainable fisheries as components of resilient ecosystems, communities, and economies. Assessments provide the scientific basis for determining if a stock is overfished or experiencing overfishing, calculating sustainable harvest rates, and forecasting catch levels that would implement that rate.

What is an adequate assessment?

Assessments are considered adequate when they use modeling approaches that are able to address long-term population dynamics of the stock (i.e. assessment level of 3 or above according to the 2001 Marine Fisheries Stock Assessment Improvement Plan), have been updated within five years, and are recommended as best scientific information available after being subjected to regional peer review processes. The definition of an adequate assessment will change as NOAA Fisheries finalizes and implements a new Stock Assessment Improvement Plan (draft expected by the end of FY 2017).

Why does the schedule of planned assessments change?

The schedule of planned assessments is provided by each region at the beginning of the fiscal year and updated in this report as new information becomes available. Changes to the schedule may occur as the feasibility and time needed to conduct assessments are refined, particularly for stocks previously unassessed or assessments using innovative methods, and as assessment needs are updated in coordination with our regional and international partners.

Where can I find more information?

<http://www.st.nmfs.noaa.gov/stock-assessment>

<https://www.st.nmfs.noaa.gov/sisPortal/sisPortalMain.jsp>

<http://www.st.nmfs.noaa.gov/StockAssessment/>

Alaska Fisheries Science Center --

<http://www.afsc.noaa.gov/>

Northwest Fisheries Science Center --

<https://www.nwfsc.noaa.gov/>

Southwest Fisheries Science Center --

<https://swfsc.noaa.gov/>

Pacific Island Fisheries Science Center --

<http://www.pifsc.noaa.gov/>

Southeast Fisheries Science Center --

<http://www.sefsc.noaa.gov/>

Northeast Fisheries Science Center --

<http://www.nefsc.noaa.gov/>

Appendix A. Assessment activity for stocks and stock complexes included on the FSSI by quarter for FY2017.

Completed Assessments for FSSI Stocks - FY2017 Quarter 1 (October - December, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Adequate	Notes
AFSC	NPFMC	Alaska plaice - Bering Sea / Aleutian Islands	4	Full Update	Y	
AFSC	NPFMC	Arrowtooth flounder - Bering Sea / Aleutian Islands	5	Benchmark	Y	
AFSC	NPFMC	Arrowtooth flounder - Gulf of Alaska	4	Partial Update	Y	
AFSC	NPFMC	Atka mackerel - Bering Sea / Aleutian Islands	4	Benchmark	Y	
AFSC	NPFMC	Bering Sea / Aleutian Islands Blackspotted and Rougheye Rockfish Complex	4	Benchmark	Y	
AFSC	NPFMC	Flathead sole - Bering Sea / Aleutian Islands	5	Full Update	Y	
AFSC	NPFMC	Northern rock sole - Bering Sea / Aleutian Islands	4	Full Update	Y	
AFSC	NPFMC	Alaska skate - Bering Sea / Aleutian Islands	4	Full Update	Y	
AFSC	NPFMC	Bering Sea / Aleutian Islands Other Skates Complex	3	Full Update	Y	
AFSC	NPFMC	Blue king crab - Pribilof Islands	1	Full Update	N	
AFSC	NPFMC	Blue king crab - Saint Matthew Island	4	Full Update	Y	
AFSC	NPFMC	Dusky rockfish - Gulf of Alaska	4	Partial Update	Y	
AFSC	NPFMC	Flathead sole - Gulf of Alaska	4	Partial Update	Y	
AFSC	NPFMC	Greenland halibut - Bering Sea / Aleutian Islands	4	Benchmark	Y	
AFSC	NPFMC	Gulf of Alaska Blackspotted and Rougheye Rockfish Complex	4	Partial Update	Y	
AFSC	NPFMC	Dover sole - Gulf of Alaska	4	Partial Update	Y	
AFSC	NPFMC	Gulf of Alaska Other Deepwater Flatfish Complex	1	Partial Update	N	
AFSC	NPFMC	Yelloweye rockfish - Gulf of Alaska	3	Partial Update	Y	
AFSC	NPFMC	Northern rock sole - Gulf of Alaska	4	Partial Update	Y	
AFSC	NPFMC	Gulf of Alaska Other Shallow Water Flatfish Complex	3	Partial Update	Y	
AFSC	NPFMC	Shortspine thornyhead - Gulf of Alaska	3	Partial Update	Y	
AFSC	NPFMC	Northern rockfish - Bering Sea / Aleutian Islands	4	Benchmark	Y	
AFSC	NPFMC	Northern rockfish - Western / Central Gulf of Alaska	4	Partial Update	Y	

National Marine Fisheries Service

Updated FY2017 Quarter 3

Completed Assessments for FSSI Stocks - FY2017 Quarter 1 (October - December, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Adequate	Notes
AFSC	NPFMC	Pacific cod - Bering Sea	4	Benchmark	Y	CIE Reviewed
AFSC	NPFMC	Pacific cod - Gulf of Alaska	4	Benchmark	Y	
AFSC	NPFMC	Pacific ocean perch - Bering Sea / Aleutian Islands	4	Benchmark	Y	
AFSC	NPFMC	Pacific ocean perch - Gulf of Alaska	4	Partial Update	Y	
AFSC	NPFMC	Red king crab - Bristol Bay	4	Full Update	Y	
AFSC	NPFMC	Red king crab - Pribilof Islands	1	Full Update	N	
AFSC	NPFMC	Rex sole - Gulf of Alaska	4	Partial Update	Y	
AFSC	NPFMC	Sablefish - Eastern Bering Sea / Aleutian Islands / Gulf of Alaska	5	Benchmark	Y	CIE Reviewed
AFSC	NPFMC	Snow crab - Bering Sea	4	Full Update	Y	
AFSC	NPFMC	Southern Tanner crab - Bering Sea	4	Full Update	Y	
AFSC	NPFMC	Walleye pollock - Aleutian Islands	4	Full Update	Y	
AFSC	NPFMC	Walleye pollock - Eastern Bering Sea	4	Benchmark	Y	CIE Reviewed
AFSC	NPFMC	Walleye pollock - Western / Central Gulf of Alaska	4	Benchmark	Y	
AFSC	NPFMC	Yellowfin sole - Bering Sea / Aleutian Islands	5	Full Update	Y	
SEFSC	GMFMC	Royal red shrimp - Gulf of Mexico	1	Full Update	N	Omitted from Q1 Report
SEFSC	SAFMC	Brown rock shrimp - Southern Atlantic Coast	1	Full Update	N	
SEFSC	SAFMC	Brown shrimp - Southern Atlantic Coast	1	Full Update	N	
SEFSC	SAFMC	Pink shrimp - Southern Atlantic Coast	1	Full Update	N	
SEFSC	SAFMC	White shrimp - Southern Atlantic Coast	1	Full Update	N	

Completed Assessments for FSSI Stocks - FY2017 Quarter 2 (January - March, 2017)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Adequate	Notes
AFSC	NPFMC	Red king crab - Norton Sound	4	Full Update	Y	
NEFSC	MAFMC	Atlantic surfclam - Mid-Atlantic Coast	4	Benchmark	Y	Delayed from Q4 FY16, Q4 Data Update scheduled
NEFSC	MAFMC	Black sea bass - Mid-Atlantic Coast	4	Benchmark	Y	
NEFSC	MAFMC	Tilefish - Mid-Atlantic Coast	4	Full Update		Assessment completed in March, planned for Q3, omitted from Q2 report
NEFSC	NEFMC	Witch flounder - Northwestern Atlantic Coast	1	Benchmark	N	Initially planned for level 4

National Marine Fisheries Service

Updated FY2017 Quarter 3

Completed Assessments for FSSI Stocks - FY2017 Quarter 2 (January - March, 2017)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Adequate	Notes
NW/SW	PFMC	Chinook salmon - California Central Valley: Sacramento (fall)	3	Full Update	Y	
NW/SW	PFMC	Chinook salmon - Northern California Coast: Klamath (fall)	4	Full Update	Y	
SEFSC	GMFMC	Brown shrimp - Gulf of Mexico	4	Full Update	Y	
SEFSC	GMFMC	Greater amberjack - Gulf of Mexico	4	Full Update	Y	
SEFSC	GMFMC	Pink shrimp - Gulf of Mexico	4	Full Update	Y	
SEFSC	GMFMC	White shrimp - Gulf of Mexico	4	Full Update	Y	

Completed Assessments for FSSI Stocks - FY2017 Quarter 3 (April - June, 2017)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Adequate	Notes
AFSC	NPFMC	Golden king crab - Aleutian Islands	4	Benchmark	Y	
NEFSC	MAFMC	Atlantic mackerel - Gulf of Maine / Cape Hatteras	NA	Data Update	NA	
NEFSC	MAFMC	Bluefish - Atlantic Coast	NA	Data Update	NA	2015 Level 4 Benchmark
NEFSC	MAFMC	Butterfish - Gulf of Maine / Cape Hatteras	5	Full Update	Y	
NEFSC	MAFMC	Longfin inshore squid - Georges Bank / Cape Hatteras	1	Full Update	N	
NEFSC	MAFMC	Northern shortfin squid - Northwestern Atlantic Coast	NA	Data Update	N	
NEFSC	MAFMC	Ocean quahog - Atlantic Coast	4	Benchmark	Y	
NW/SW	PFMC	Arrowtooth flounder - Pacific Coast	4	Full Update	Y	Planned for Q4
NW/SW	PFMC	Blackgill rockfish - Southern California	4	Full Update	Y	
NW/SW	PFMC	Bocaccio - Southern Pacific Coast	4	Full Update	Y	
NW/SW	PFMC	Darkblotched rockfish - Pacific Coast	4	Full Update	Y	
SEFSC	SAFMC	Red grouper - Southern Atlantic Coast	4	Standard	Y	
SWFSC	PFMC	Pacific sardine - Pacific Coast	4	Benchmark	Y	
SWFSC	PFMC	Pacific chub mackerel - Pacific Coast	4	Full Update	Y	Not on initial schedule

Footnotes

¹NOAA Fisheries Science Centers include Alaska Fisheries Science Center (AFSC), Northeast Fisheries Science Center (NEFSC), Northwest Fisheries Science Center (NWFSC), Pacific Islands Fisheries Science Center (PIFSC), Southeast Fisheries Science Center (SEFSC) and Southwest Fisheries Science Center (SWFSC). In some cases, assessments are conducted by multiple science centers (e.g. NW/SW and SW/PI).

²Jurisdictions include Caribbean Fishery Management Council (CFMC), Gulf of Mexico Fishery Management Council (GMFMC), Atlantic Highly Migratory Species Division (HMS), Mid-Atlantic Fishery Management Council (MAFMC), New England Fishery Management Council (NEFMC), North Pacific Fishery Management Council (NPFMC), Pacific Fishery Management Council (PFMC), South Atlantic Fishery Management Council (SAFMC) and Western Pacific Fishery Management Council (WPFMC).

³Level of complexity of assessment methods used for the particular stock. Generally reflects the availability of data and the value or importance of the fishery. Levels are described in the Stock Assessment Improvement Plan (<http://www.st.nmfs.noaa.gov/StockAssessment/index.html>). A negative level indicates that an assessment was attempted at that level of complexity, but the effort was not accepted in its technical review.

⁴Data Updates are not counted as stock assessments.

* Changes in the assessment schedule are indicated by red font.

**Appendix B. Assessment activity for non-FSSI stocks, stock complexes
and complex members in FY2017.**

Completed Assessments for Non-FSSI Stocks - FY2017 Quarter 1 (October - December, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Notes on Assessment
AFSC	NPFMC	Atka mackerel - Gulf of Alaska	1	Benchmark	
AFSC	NPFMC	Giant octopus - Bering Sea / Aleutian Islands	1	Full Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Other Flatfish Complex	3	Full Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Other Rockfish Complex	1	Full Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Sculpin Complex	3	Full Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Shark Complex	1	Full Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Squid Complex	1	Full Update	
AFSC	NPFMC	Giant octopus - Gulf of Alaska	1	Partial Update	
AFSC	NPFMC	Gulf of Alaska Other Rockfish Complex	3	Partial Update	
AFSC	NPFMC	Gulf of Alaska Sculpin Complex	3	Partial Update	
AFSC	NPFMC	Rock sole - Gulf of Alaska	4	Partial Update	
AFSC	NPFMC	Gulf of Alaska Shark Complex	1	Partial Update	
AFSC	NPFMC	Gulf of Alaska Skate Complex	3	Partial Update	
AFSC	NPFMC	Big skate - Gulf of Alaska	3	Partial Update	Split from Alaska Skate Complex
AFSC	NPFMC	Gulf of Alaska Squid Complex	1	Partial Update	
AFSC	NPFMC	Kamchatka flounder - Bering Sea / Aleutian Islands	4	Full Update	
AFSC	NPFMC	Longnose skate - Gulf of Alaska	3	Partial Update	Split from Alaska Skate Complex
AFSC	NPFMC	Pacific cod - Aleutian Islands	3	Full Update	
AFSC	NPFMC	Red king crab - Western Aleutian Islands	1	Full Update	Omitted from Q1 Report in error
AFSC	NPFMC	Shortraker rockfish - Bering Sea / Aleutian Islands	3	Full Update	
AFSC	NPFMC	Shortraker rockfish - Gulf of Alaska	3	Partial Update	
AFSC	NPFMC	Walleye pollock - Bogoslof	3	Full Update	
AFSC	NPFMC	Walleye pollock - Southeast Gulf of Alaska	3	Partial Update	
SEFSC	HMS	Albacore - North Atlantic	4	Benchmark	
SEFSC	HMS	Sailfish - Western Atlantic	4	Benchmark	
SEFSC	HMS	Yellowfin tuna - Atlantic	4	Benchmark	

National Marine Fisheries Service
Updated FY2017 Quarter 3

Completed Assessments for Non-FSSI Stocks - FY2017 Quarter 1 (October - December, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Notes on Assessment
SEFSC	SAFMC / GMFMC	Goliath grouper - Southern Atlantic Coast / Gulf of Mexico	-1	Benchmark	Assessment was rejected due to model uncertainty

Completed Assessments for Non-FSSI Stocks - FY2017 Quarter 2 (January - March, 2017)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Notes on Assessment
NW/SW	PFMC	Pacific hake - Pacific Coast	4	Full Update	
NW/SW	PFMC	Chinook salmon - California Central Valley: Sacramento (spring)	1	Full Update	
NW/SW	PFMC	Chinook salmon - California Central Valley: Sacramento (winter)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Lower River Hatchery (fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Lower River Hatchery (spring)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Mid-River Bright Hatchery (fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: North Lewis (fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Snake (fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Snake (spring/summer)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Spring Creek Hatchery (fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Upper River (spring)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Upper River (summer)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Upper River Bright (fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Upper Willamette (spring)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Northern California Coast: Eel, Mattole, and Mad (fall/spring) (<i>California Coastal</i>)	1	Full Update	
NW/SW	PFMC	Chinook salmon - Northern California Coast: Klamath (spring)	4	Full Update	Stock was listed in error. No assessment conducted.
NW/SW	PFMC	Chinook salmon - Oregon Coast: Central and Northern	3	Full Update	
NW/SW	PFMC	Chinook salmon - Oregon Coast: Southern	3	Full Update	

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Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Notes on Assessment
NW/SW	PFMC	Chinook salmon - Puget Sound: Cedar (summer/fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Eastern Strait of Juan de Fuca (summer/fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Green (summer/fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Mid Hood Canal (summer/fall)	1	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Nisqually (summer/fall)	1	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Nooksack (spring early)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Puyallup (summer/fall)	3	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Skagit (spring)	3	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Skagit (summer/fall)	5	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Skokomish (summer/fall)	1	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Snohomish (summer/fall)	5	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: Stillaguamish (summer/fall)	5	Full Update	
NW/SW	PFMC	Chinook salmon - Puget Sound: White River (spring)	3	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Grays Harbor (fall)	1	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Grays Harbor (spring)	1	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Hoh (fall)	1	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Hoh (spring/summer)	1	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Hoko (summer/fall)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Queets (fall)	5	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Queets (spring/summer)	2	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Quillayute (fall)	2	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Quillayute (spring/summer)	1	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Quinault Fall (hatchery)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Willapa Bay Fall (hatchery)	4	Full Update	

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Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Notes on Assessment
NW/SW	PFMC	Chinook salmon - Washington Coast: Willapa Bay Fall (natural)	4	Full Update	
NW/SW	PFMC	Coho salmon - Oregon Production Index Area: Central California Coast	1	Full Update	
NW/SW	PFMC	Coho salmon - Oregon Production Index Area: Columbia (early hatchery)	4	Full Update	
NW/SW	PFMC	Coho salmon - Oregon Production Index Area: Columbia (late hatchery)	4	Full Update	
NW/SW	PFMC	Coho salmon - Oregon Production Index Area: Columbia (natural)	4	Full Update	
NW/SW	PFMC	Coho salmon - Oregon Production Index Area: Southern Oregon / Northern California Coast	1	Full Update	
NW/SW	PFMC	Coho salmon - Oregon Production Index Area: Oregon Coastal (hatchery)	1	Full Update	
NW/SW	PFMC	Coho salmon - Oregon Production Index Area: Oregon Coastal (natural)	5	Full Update	
NW/SW	PFMC	Coho salmon - Puget Sound: Hood Canal	4	Full Update	
NW/SW	PFMC	Coho salmon - Puget Sound: Skagit	5	Full Update	
NW/SW	PFMC	Coho salmon - Puget Sound: Snohomish	4	Full Update	
NW/SW	PFMC	Coho salmon - Puget Sound: South Puget Sound (hatchery)	4	Full Update	
NW/SW	PFMC	Coho salmon - Puget Sound: Stillaguamish	4	Full Update	
NW/SW	PFMC	Coho salmon - Washington Coast: Grays Harbor	5	Full Update	
NW/SW	PFMC	Coho salmon - Washington Coast: Hoh	5	Full Update	
NW/SW	PFMC	Coho salmon - Washington Coast: Queets	5	Full Update	
NW/SW	PFMC	Coho salmon - Washington Coast: Quillayute (fall)	4	Full Update	
NW/SW	PFMC	Coho salmon - Washington Coast: Quillayute (summer)	4	Full Update	
NW/SW	PFMC	Coho salmon - Washington Coast: Quinault	1	Full Update	
NW/SW	PFMC	Coho salmon - Washington Coast: Strait of Juan de Fuca	5	Full Update	
NW/SW	PFMC	Coho salmon - Washington Coast: Willapa Bay	5	Full Update	
NW/SW	PFMC	Coho salmon - Washington Coast: Willapa Bay (natural)	5	Full Update	

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Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Notes on Assessment
NW/SW	PFMC	Pink salmon - Puget Sound (odd-numbered years)	1	Full Update	
PIFSC	WPFMC	<i>Parupeneus insularis</i> - Doublebar goatfish - Main Hawaiian Islands	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Parupeneus porphyreus</i> : Whitesaddle goatfish - Main Hawaiian Islands	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Mulloidichthys vanicolensis</i> : Yellowfin goatfish - Main Hawaiian Islands	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Mulloidichthys flavolineatus</i> - Yellowstripe goatfish	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Cephalopholis argus</i> - Peacock hind - Main Hawaiian Islands	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Caranx ignobilis</i> - Main Hawaiian Islands Jack	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Caranx melampygus</i> - Main Hawaiian Islands Jack -	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Chlorurus spilurus</i> -Bullethead parrotfish	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Lutjanus fulvus</i> - Blacktail snapper	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Scarus rubroviolaceus</i> - Redlip parrotfish - Main Hawaiian Islands	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Scarus psittacus</i> - Palenose parrotfish	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Acanthurus dussumieri</i> (Eyestripe surgeonfish)	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Naso brevirostris</i>	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Naso hexacanthus</i>	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Naso lituratus</i>	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Naso unicornis</i>	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Mulloidichthys pflugeri</i> - Orange goatfish - Main Hawaiian Islands	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Parupeneus cyclostomus</i> - Yellowsaddle goatfish - Main Hawaiian Islands	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Monotaxis grandoculis</i> -Bigeye Emperor	2	New	Completed early - expected Q3
PIFSC	WPFMC	Bigscale soldierfish - Main Hawaiian Islands (<i>Myripristis berntdi</i>)	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Acanthurus blochii</i>	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Calotomus carolinus</i>	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Chlorurus perspicillatus</i> - Main Hawaiian Islands	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Scarus dubius</i> - Main Hawaiian Islands	2	New	Completed early - expected Q3
PIFSC	WPFMC	<i>Carangoides orthogrammus</i>	2	New	Completed early - expected Q3

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Completed Assessments for Non-FSSI Stocks - FY2017 Quarter 2 (January - March, 2017)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Notes on Assessment
PIFSC	WPFMC	<i>Aprion Virescens</i> - Green jobfish - Main Hawaiian Islands	2	New	Completed early - expected Q3, not planned
PIFSC	WPFMC	<i>Lutjanus kasmira</i> - Common bluestripe snapper - Main Hawaiian Islands	2	New	Completed early - expected Q3, not planned

Completed Assessments for Non-FSSI Stocks - FY2017 Quarter 3 (April - June, 2017)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type ⁴	Notes on Assessment
AFSC	NPFMC	Golden king crab - Pribilof Islands	1	Full Update	
AFSC	NPFMC	Weathervane scallop - Alaska	1	Full Update	
SEFSC	GMFMC	Almaco jack - Gulf of Mexico	1	New	Accepted - not used in management
SEFSC	GMFMC	Lane snapper - Gulf of Mexico	1	New	
SEFSC	GMFMC	Lesser amberjack - Gulf of Mexico	1	New	Accepted - not used in management
SEFSC	GMFMC	Red drum - Gulf of Mexico	NA	NA	Unable to assess
SEFSC	GMFMC	Snowy Grouper - Gulf of Mexico	NA	NA	Unable to assess
SEFSC	GMFMC	Speckled hind - Gulf of Mexico	1	New	Accepted - not used in management
SEFSC	GMFMC	Wenchman - Gulf of Mexico	NA	NA	Unable to assess
SEFSC	GMFMC	Yellowmouth grouper - Gulf of Mexico	NA	NA	Unable to assess

Footnotes

¹NOAA Fisheries Science Centers include Alaska Fisheries Science Center (AFSC), Northeast Fisheries Science Center (NEFSC), Northwest Fisheries Science Center (NWFSC), Pacific Islands Fisheries Science Center (PIFSC), Southeast Fisheries Science Center (SEFSC) and Southwest Fisheries Science Center (SWFSC). In some cases, assessments are conducted by multiple science centers (e.g. NW/SW and SW/PI).

²Jurisdictions include Caribbean Fishery Management Council (CFMC), Gulf of Mexico Fishery Management Council (GMFMC), Atlantic Highly Migratory Species Division (HMS), Mid-Atlantic Fishery Management Council (MAFMC), New England Fishery Management Council (NEFMC), North Pacific Fishery Management Council (NPFMC), Pacific Fishery Management Council (PFMC), South Atlantic Fishery Management Council (SAFMC) and Western Pacific Fishery Management Council (WPFMC).

³Level of complexity of assessment methods used for the particular stock. Generally reflects the availability of data and the value or importance of the fishery. Levels are described in the Stock Assessment Improvement Plan (<http://www.st.nmfs.noaa.gov/StockAssessment/index.html>). A negative level indicates that an assessment was attempted at that level of complexity, but the effort was not accepted in its technical review.

⁴Data Updates are not counted as stock assessments.

* Changes in the assessment schedule are indicated by red font.

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Appendix C. Planned assessments for FSSI and non-FSSI stocks in Q4 FY2017. Information is best available provided by NOAA Fisheries Science Centers and subject to change.

Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 4 (July - September, 2017)						
Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type ⁵	Notes
AFSC	NPFMC	Non - FSSI	Coho salmon - Auke Creek	4	Full Update	Initially on schedule for Q3
AFSC	NPFMC	Non - FSSI	Coho salmon - Berners River	4	Full Update	Initially on schedule for Q3
AFSC	NPFMC	Non - FSSI	Coho salmon - Hugh Smith Lake	4	Full Update	Initially on schedule for Q3
AFSC	NPFMC	Non - FSSI	Chinook salmon - Eastern North Pacific Far North Migrating	4	Full Update	Initially on schedule for Q3
NEFSC	NEFMC	Non - FSSI	Atlantic salmon - Gulf of Maine	4	Full Update	
NEFSC	NEFMC	FSSI	Barndoor skate - Georges Bank / Southern New England	1	Full Update	
NEFSC	NEFMC	FSSI	Clearnose skate - Southern New England / Mid-Atlantic	1	Full Update	
NEFSC	NEFMC	FSSI	Little skate - Georges Bank / Southern New England	1	Full Update	
NEFSC	NEFMC	FSSI	Rosette skate - Southern New England / Mid-Atlantic	1	Full Update	
NEFSC	NEFMC	FSSI	Sea scallop - Northwestern Atlantic Coast	1	Partial Update	
NEFSC	NEFMC	FSSI	Smooth skate - Gulf of Maine	1	Full Update	
NEFSC	NEFMC	FSSI	Thorny skate - Gulf of Maine	1	Full Update	
NEFSC	NEFMC	FSSI	Winter skate - Georges Bank / Southern New England	1	Full Update	
NW/SW	PFMC	FSSI	Blue rockfish - California	4	Benchmark	
NW/SW	PFMC	FSSI	California scorpionfish - Southern California	4	Benchmark	
NW/SW	PFMC	FSSI	Canary rockfish - Pacific Coast	4	Partial Update	Not on initial schedule
NW/SW	PFMC	FSSI	Chilipepper - Southern Pacific Coast	4	Partial Update	Not on initial schedule
NW/SW	PFMC	FSSI	Lingcod - Pacific Coast	4	Benchmark	
NW/SW	PFMC	FSSI	Pacific ocean perch - Pacific Coast	4	Benchmark	
NW/SW	PFMC	FSSI	Yelloweye rockfish - Pacific Coast	4	Benchmark	
NW/SW	PFMC	FSSI	Yellowtail rockfish - Northern Pacific Coast	3	Benchmark	
SEFSC	CFMC	FSSI	St.Croix (Caribbean) spotlight parrotfish	2	New	Delayed from Q4 FY16
SEFSC	CFMC	FSSI	Yellowtail snapper - Puerto Rico	2	New	Delayed from Q4 FY16
SEFSC	CFMC	FSSI	Caribbean spiny lobster - St. Croix (formerly Caribbean)	2	Benchmark	Delayed from Q4 FY16
SEFSC	CFMC	FSSI	Caribbean spiny lobster - St Thomas (formerly Caribbean)	2	Benchmark	Delayed from Q4 FY16

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 4 (July - September, 2017)						
Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type ⁵	Notes
SEFSC	CFMC	Non - FSSI	Hogfish - Puerto Rico	2	New	Delayed from Q4 FY16
SEFSC	CFMC	FSSI	St. Thomas / St. John Queen Triggerfish	2	New	Delayed from Q4 FY16
SEFSC	GMFMC	FSSI	Gag - Gulf of Mexico	4	Update	DELAYED INDEFINITELY
SEFSC	SAFMC	FSSI	Black sea bass - Southern Atlantic Coast	4	Standard	DELAYED TO FY18
SW/PI	PFMC / WPFMC	INT	Bigeye tuna - Eastern Pacific	4	Full Update	Delayed from Q3 FY17
SW/PI	PFMC / WPFMC	INT	Yellowfin tuna - Eastern Pacific	4	Full Update	Delayed from Q3 FY18
SW/PI	PFMC / WPFMC	INT	Striped marlin - Eastern Pacific	NA	Data Update	Delayed from Q4 FY16, Assessment Type Under Review
SW/PI	PFMC / WPFMC	INT	Swordfish - Eastern Pacific	NA	Data Update	Assessment Type Under Review
SW/PI	PFMC / WPFMC	INT	Albacore - North Pacific	4	Full Update	
SW/PI	PFMC / WPFMC	INT	Blue shark - North Pacific	3	Full Update	
SW/PI	PFMC / WPFMC	INT	Thresher shark - North Pacific	UNK	New	
Footnotes						
<p>¹ NOAA Fisheries Science Centers include Alaska Fisheries Science Center (AFSC), Northeast Fisheries Science Center (NEFSC), Northwest Fisheries Science Center (NWFSC), Pacific Islands Fisheries Science Center (PIFSC), Southeast Fisheries Science Center (SEFSC) and Southwest Fisheries Science Center (SWFSC). In some cases, assessments are conducted by multiple science centers (e.g. NW/SW and SW/PI).</p> <p>² Jurisdictions include Caribbean Fishery Management Council (CFMC), Gulf of Mexico Fishery Management Council (GMFMC), Atlantic Highly Migratory Species Division (HMS), Mid-Atlantic Fishery Management Council (MAFMC), New England Fishery Management Council (NEFMC), North Pacific Fishery Management Council (NPFMC), Pacific Fishery Management Council (PFMC), South Atlantic Fishery Management Council (SAFMC) and Western Pacific Fishery Management Council (WPFMC).</p> <p>³ FSSI refers to federally managed stocks and stock complexes included on the Fish Stock Sustainability Index. Non-FSSI refers to federally managed stocks and stock complexes not included on the Fish Stock Sustainability Index. INT refers to international stocks.</p> <p>⁴ Level of complexity of assessment methods used for the particular stock. Generally reflects the availability of data and the value or importance of the fishery. Levels are described in the Stock Assessment Improvement Plan (http://www.st.nmfs.noaa.gov/StockAssessment/index.html). A negative level indicates that an assessment was attempted at that level of complexity, but the effort was not accepted in its technical review.</p> <p>⁵ Data Updates are not counted as stock assessments.</p> <p>* Changes in the assessment schedule are indicated by red font.</p>						

Appendix D. Assessment status for FSSI stocks and stock complexes at the end of Q3 FY2017. Changes in assessment information relative to the previous fish assessment quarterly report are highlighted with red text. For more information, please see the Species Information System Public Portal at www.st.nmfs.noaa.gov/sisPortal/.

Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
AFSC	NPFMC	Alaska plaice - Bering Sea / Aleutian Islands	2017	4	Full Update	Yes	
AFSC	NPFMC	Arrowtooth flounder - Bering Sea / Aleutian Islands	2017	5	Full Update	Yes	
AFSC	NPFMC	Arrowtooth flounder - Gulf of Alaska	2017	4	Partial Update	Yes	
AFSC	NPFMC	Atka mackerel - Bering Sea / Aleutian Islands	2017	4	Benchmark	Yes	
AFSC	NPFMC	Bering Sea / Aleutian Islands Blackspotted and Rougheye Rockfish Complex	2017	4	Benchmark	Yes	
AFSC	NPFMC	Bering Sea / Aleutian Islands Flathead Sole Complex	2017	5	Full Update	Yes	The assessment is for the Flathead Sole Complex indicator stock, flathead sole.
AFSC	NPFMC	Bering Sea / Aleutian Islands Rock Sole Complex	2017	4	Full Update	Yes	The assessment listed is for the Rock Sole Complex indicator stock, Northern rock sole.
AFSC	NPFMC	Bering Sea / Aleutian Islands Skate Complex	2017	4	Full Update	Yes	The assessment is for the Bering Sea / Aleutian Islands Skate Complex indicator stock, Alaska skate.
AFSC	NPFMC	Blue king crab - Pribilof Islands	2017	1	Full Update	No	
AFSC	NPFMC	Blue king crab - Saint Matthew Island	2017	4	Full Update	Yes	
AFSC	NPFMC	Dusky rockfish - Gulf of Alaska	2017	4	Partial Update	Yes	
AFSC	NPFMC	Flathead sole - Gulf of Alaska	2017	4	Partial Update	Yes	
AFSC	NPFMC	Golden king crab - Aleutian Islands	2017	4	Benchmark	Yes	
AFSC	NPFMC	Greenland halibut - Bering Sea / Aleutian Islands	2017	4	Benchmark	Yes	
AFSC	NPFMC	Gulf of Alaska Blackspotted and Rougheye Rockfish Complex	2017	4	Partial Update	Yes	
AFSC	NPFMC	Gulf of Alaska Deepwater Flatfish Complex	2017	4	Partial Update	Yes	The assessment is for Deepwater Flatfish Complex indicator stock, Dover sole.

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
AFSC	NPFMC	Gulf of Alaska Demersal Shelf Rockfish Complex	2017	3	Partial Update	Yes	The assessment is for Demersal Shelf Rockfish Complex indicator stock, yelloweye rockfish.
AFSC	NPFMC	Gulf of Alaska Shallow Water Flatfish Complex	2017	4	Partial Update	Yes	The assessment is for Gulf of Alaska Shallow Water Flatfish Complex indicator stocks, rock sole and Northern rock sole.
AFSC	NPFMC	Gulf of Alaska Thornyhead Rockfish Complex	2017	3	Partial Update	Yes	The assessment is for the Thornyhead Rockfish Complex indicator stock, shortspine thornyhead.
AFSC	NPFMC	Northern rockfish - Bering Sea / Aleutian Islands	2017	4	Benchmark	Yes	
AFSC	NPFMC	Northern rockfish - Western / Central Gulf of Alaska	2017	4	Partial Update	Yes	
AFSC	NPFMC	Pacific cod - Bering Sea / Aleutian Islands	2017	4	Benchmark	Yes	CIE Reviewed
AFSC	NPFMC	Pacific cod - Gulf of Alaska	2017	4	Benchmark	Yes	
AFSC	NPFMC	Pacific ocean perch - Bering Sea / Aleutian Islands	2017	4	Benchmark	Yes	
AFSC	NPFMC	Pacific ocean perch - Gulf of Alaska	2017	4	Partial Update	Yes	
AFSC	NPFMC	Red king crab - Bristol Bay	2017	4	Full Update	Yes	
AFSC	NPFMC	Red king crab - Norton Sound	2017	4	Full Update	Yes	
AFSC	NPFMC	Red king crab - Pribilof Islands	2017	1	Full Update	No	
AFSC	NPFMC	Rex sole - Gulf of Alaska	2017	4	Partial Update	Yes	
AFSC	NPFMC	Sablefish - Eastern Bering Sea / Aleutian Islands / Gulf of Alaska	2017	5	Benchmark	Yes	CIE Reviewed
AFSC	NPFMC	Snow crab - Bering Sea	2017	4	Full Update	Yes	
AFSC	NPFMC	Southern Tanner crab - Bering Sea	2017	4	Full Update	Yes	
AFSC	NPFMC	Walleye pollock - Aleutian Islands	2017	4	Full Update	Yes	
AFSC	NPFMC	Walleye pollock - Eastern Bering Sea	2017	4	Benchmark	Yes	
AFSC	NPFMC	Walleye pollock - Western / Central / West Yakutat Gulf of Alaska	2017	4	Benchmark	Yes	
AFSC	NPFMC	Yellowfin sole - Bering Sea / Aleutian Islands	2017	5	Full Update	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
NEFSC	MAFMC	Atlantic mackerel - Gulf of Maine / Cape Hatteras	2010	(-4)	Full Update	No	
			2016	1	Data Update		
NEFSC	MAFMC	Atlantic surfclam - Mid-Atlantic Coast	2017	4	Benchmark	Yes	
			2016	NA	Data Update		
NEFSC	MAFMC	Black sea bass - Mid-Atlantic Coast	2017	4	Benchmark	Yes	
			2016	NA	Data Update		
NEFSC	MAFMC	Bluefish - Atlantic Coast	2015	4	Benchmark	Yes	
			2017	NA	Data Update		
NEFSC	MAFMC	Butterfish - Gulf of Maine / Cape Hatteras	2017	5	Full Update	Yes	
			2016	NA	Data Update		
NEFSC	MAFMC	Longfin inshore squid - Georges Bank / Cape Hatteras	2017	1	Full Update	No	
			2016	NA	Data Update		
NEFSC	MAFMC	Northern shortfin squid - Northwestern Atlantic Coast	2005	2	Benchmark	No	
			2017	NA	Data Update		
NEFSC	MAFMC	Ocean quahog - Atlantic Coast	2017	4	Benchmark	Yes	
			2016	NA	Data Update		
NEFSC	MAFMC	Scup - Atlantic Coast	2015	4	Benchmark	Yes	
			2016	NA	Data Update		
NEFSC	MAFMC	Summer flounder - Mid-Atlantic Coast	2016	4	Full Update	Yes	
NEFSC	MAFMC	Tilefish - Mid-Atlantic Coast	2017	4	Full Update	Yes	
			2016	NA	Data Update		
NEFSC	NEFMC	Acadian redfish - Gulf of Maine / Georges Bank	2016	4	Full Update	Yes	
NEFSC	NEFMC	Atlantic cod - Georges Bank	2016	(-4)	Full Update	Yes	Stock considered adequately assessed
		Substock: Eastern Georges Bank	2016	4	Full Update		
NEFSC	NEFMC	Atlantic cod - Gulf of Maine	2016	4	Full Update	Yes	
NEFSC	NEFMC	Atlantic halibut - Northwestern Atlantic Coast	2016	(-3)	Full Update	See note	Previous assessment for Atlantic halibut (FY 2012) still considered adequate.
NEFSC	NEFMC	Atlantic herring - Northwestern Atlantic Coast	2015	5	Full Update	Yes	
NEFSC	NEFMC	Atlantic wolffish - Gulf of Maine / Georges Bank	2016	4	Full Update	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
NEFSC	NEFMC	Barndoor skate - Georges Bank / Southern New England	2016	1	Full Update	No	
NEFSC	NEFMC	Clearnose skate - Southern New England / Mid-Atlantic	2016	1	Full Update	No	
NEFSC	NEFMC	Haddock - Georges Bank	2016	4	Full Update	Yes	Stock considered adequately assessed
		<i>Substock:</i> Eastern Georges Bank	2016	4	Partial Update		
NEFSC	NEFMC	Haddock - Gulf of Maine	2016	4	Full Update	Yes	
NEFSC	NEFMC	Little skate - Georges Bank / Southern New England	2016	1	Full Update	No	
NEFSC	NEFMC	Ocean pout - Northwestern Atlantic Coast	2016	1	Full Update	No	
NEFSC	NEFMC	Offshore hake - Northwestern Atlantic Coast	2011	-1	Benchmark	No	
NEFSC	NEFMC	Pollock - Gulf of Maine / Georges Bank	2016	4	Full Update	Yes	
NEFSC	NEFMC	Red deepsea crab - Northwestern Atlantic	2006	1	Benchmark	No	
NEFSC	NEFMC	Red hake - Gulf of Maine / Northern Georges Bank	2015	1	Full Update	No	
NEFSC	NEFMC	Red hake - Southern Georges Bank / Mid-Atlantic	2015	1	Full Update	No	
NEFSC	NEFMC	Rosette skate - Southern New England / Mid-Atlantic	2016	1	Full Update	No	
NEFSC	NEFMC	Sea scallop - Northwestern Atlantic Coast	2016	4	Partial Update	Yes	
NEFSC	NEFMC	Silver hake - Gulf of Maine / Northern Georges Bank	2014	1	Full Update	No	
NEFSC	NEFMC	Silver hake - Southern Georges Bank / Mid-Atlantic	2014	1	Full Update	No	
NEFSC	NEFMC	Smooth skate - Gulf of Maine	2016	1	Full Update	No	
NEFSC	NEFMC	Thorny skate - Gulf of Maine	2016	1	Full Update	No	
NEFSC	NEFMC	White hake - Gulf of Maine / Georges Bank	2016	4	Full Update	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
NEFSC	NEFMC	Windowpane - Gulf of Maine / Georges Bank	2016	1	Full Update	No	
NEFSC	NEFMC	Windowpane - Southern New England / Mid-Atlantic	2016	1	Full Update	No	
NEFSC	NEFMC	Winter flounder - Georges Bank	2016	4	Full Update	Yes	
NEFSC	NEFMC	Winter flounder - Gulf of Maine	2016	1	Full Update	No	
NEFSC	NEFMC	Winter flounder - Southern New England / Mid-Atlantic	2016	4	Full Update	Yes	
NEFSC	NEFMC	Winter skate - Georges Bank / Southern New England	2016	1	Full Update	No	
NEFSC	NEFMC	Witch flounder - Northwestern Atlantic Coast	2017	1	Benchmark	No	Retrospective patters in the assessment model pushed the Center to adopt an index method
NEFSC	NEFMC	Yellowtail flounder - Cape Cod / Gulf of Maine	2016	4	Full Update	Yes	
NEFSC	NEFMC	Yellowtail flounder - Georges Bank	2016	1	Full Update	No	
NEFSC	NEFMC	Yellowtail flounder - Southern New England / Mid-Atlantic	2016	4	Benchmark	Yes	
NEFSC	NEFMC/MAFMC	Goosefish - Gulf of Maine / Northern Georges Bank	2013	4	Full Update	Yes	
			2016	NA	Data Update		
NEFSC	NEFMC/MAFMC	Goosefish - Southern Georges Bank / Mid-Atlantic	2013	4	Full Update	Yes	
			2016	NA	Data Update		
NEFSC	NEFMC/MAFMC	Spiny dogfish - Atlantic Coast	2015	4	Full Update	Yes	
			2016	NA	Data Update		
NWFSC/SWFSC	PFMC	Arrowtooth flounder - Pacific Coast	2017	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Black rockfish - Northern Pacific Coast	2016	4	Benchmark	Yes	
NWFSC/SWFSC	PFMC	Black rockfish - Southern Pacific Coast	2016	4	Benchmark	Yes	
NWFSC/SWFSC	PFMC	Blackgill rockfish - Southern California	2017	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Blue rockfish - California	2008	4	New	No	
NWFSC/SWFSC	PFMC	Bocaccio - Southern Pacific Coast	2017	4	Full Update	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
NWFSC/SWFSC	PFMC	Brown rockfish - Pacific Coast	2014	3	New	Yes	
NWFSC/SWFSC	PFMC	Cabezon - California	2009	4	Benchmark	No	
NWFSC/SWFSC	PFMC	California scorpionfish - Southern California	2016	4	Partial Update	Yes	
NWFSC/SWFSC	PFMC	Canary rockfish - Pacific Coast	2015	4	Benchmark	Yes	
NWFSC/SWFSC	PFMC	Chilipepper - Southern Pacific Coast	2015	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Chinook salmon - Sacramento River Fall	2017	4	Full Update	Yes	Accidentally Reversed
NWFSC/SWFSC	PFMC	Chinook salmon - Klamath River Fall	2017	3	Full Update	Yes	Accidentally Reversed
NWFSC/SWFSC	PFMC	Cowcod - Southern California	2013	3	Benchmark	Yes	
NWFSC/SWFSC	PFMC	Darkblotched rockfish - Pacific Coast	2017	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Dover sole - Pacific Coast	2011	4	Benchmark	No	
NWFSC/SWFSC	PFMC	English sole - Pacific Coast	2013	3	Benchmark	Yes	
NWFSC/SWFSC	PFMC	Gopher rockfish - Northern California	2006	4	Full Update	No	
NWFSC/SWFSC	PFMC	Greenspotted rockfish - Pacific Coast	2011	3	New	No	
NWFSC/SWFSC	PFMC	Greenstriped rockfish - Pacific Coast	2009	4	New	No	
NWFSC/SWFSC	PFMC	Kelp greenling - Oregon	2015	4	Benchmark	Yes	
NWFSC/SWFSC	PFMC	Lingcod - Pacific Coast	2009	4	Benchmark	No	
NWFSC/SWFSC	PFMC	Longnose skate - Pacific Coast	2007	4	Full Update	No	
NWFSC/SWFSC	PFMC	Longspine thornyhead - Pacific Coast	2013	3	Benchmark	Yes	
NWFSC/SWFSC	PFMC	Pacific ocean perch - Pacific Coast	2011	4	Benchmark	No	
NWFSC/SWFSC	PFMC	Pacific sanddab - Pacific Coast	2013	4	New	Yes	Partial acceptance -- status determinations only
NWFSC/SWFSC	PFMC	Petrale sole - Pacific Coast	2015	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Rex sole - Pacific Coast	2013	3	Full Update	Yes	
NWFSC/SWFSC	PFMC	Rougheye rockfish - Pacific Coast	2013	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Sablefish - Pacific Coast	2015	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Shortbelly rockfish - Pacific Coast	2007	4	New	No	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
NWFSC/ SWFSC	PFMC	Shortspine thornyhead - Pacific Coast	2013	4	Benchmark	Yes	
NWFSC/ SWFSC	PFMC	Spiny dogfish - Pacific Coast	2011	4	New	No	
NWFSC/ SWFSC	PFMC	Splitnose rockfish - Pacific Coast	2009	4	New	No	
NWFSC/ SWFSC	PFMC	Starry flounder - Pacific Coast	2005	4	New	No	
NWFSC/ SWFSC	PFMC	Vermilion rockfish - California	2005	4	New	No	
NWFSC/ SWFSC	PFMC	Widow rockfish - Pacific Coast	2015	4	Benchmark	Yes	
NWFSC/ SWFSC	PFMC	Yelloweye rockfish - Pacific Coast	2016	4	Partial Update	Yes	
NWFSC/ SWFSC	PFMC	Yellowtail rockfish - Northern Pacific Coast	2013	3	Benchmark	Yes	
PIFSC	WPFMC	American Samoa Bottomfish Multi-species Complex	2015	3	Full Update	Yes	
PIFSC	WPFMC	Guam Bottomfish Multi-species Complex	2015	3	Full Update	Yes	
PIFSC	WPFMC	Main Hawaiian Islands Deep Bottomfish Multi-species Complex	2015	3	Full Update	Yes	
PIFSC	WPFMC	Northern Mariana Islands Bottomfish Multi-species Complex	2015	3	Full Update	Yes	
SEFSC	CFMC	Caribbean Groupers	2015	2	Benchmark	No	Assessment of complex component red hind
SEFSC	CFMC	Caribbean Parrotfish Complex	NA			No	Assessment planned for FY16 Delayed
SEFSC	CFMC	Caribbean Snappers	2012	2	New	No	Assessment of complex component silk snapper, Assessment planned for FY16 Delayed
SEFSC	CFMC	Caribbean spiny lobster - Puerto Rico	2009	2	New	No	Basin-wide assessment of Caribbean spiny lobster.
SEFSC	CFMC	Caribbean spiny lobster - St. Croix	2009	2	New	No	Assessment planned for FY16 Delayed
SEFSC	CFMC	Caribbean spiny lobster - St. Thomas/St. John	2009	2	New	No	Assessment planned for FY16 Delayed
SEFSC	CFMC	Queen conch - Caribbean	2009	2	New	No	
SEFSC	CFMC	Triggerfish and Filefish Complex - Puerto Rico	2013	-1	Benchmark	No	Assessment of queen triggerfish in the Caribbean
SEFSC	CFMC	Triggerfish and Filefish Complex - St. Croix	2013	-1	Benchmark	No	Assessment of queen triggerfish in the Caribbean

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
SEFSC	CFMC	Triggerfish and Filefish Complex - St. Thomas/St. John	2013	-1	Benchmark	No	Assessment of queen triggerfish in the Caribbean, Assessment planned for FY16 Delayed
SEFSC	GMFMC	Brown shrimp - Gulf of Mexico	2017	4	Full Update	Yes	
SEFSC	GMFMC	Gag - Gulf of Mexico	2014	4	Benchmark	Yes	
SEFSC	GMFMC	Gray triggerfish - Gulf of Mexico	2015	4	Full Update	Yes	
SEFSC	GMFMC	Greater amberjack - Gulf of Mexico	2017	4	Benchmark	Yes	
SEFSC	GMFMC	Hogfish - Eastern Gulf of Mexico	2015	4	Benchmark	Yes	
SEFSC	GMFMC	Pink shrimp - Gulf of Mexico	2017	4	Full Update	Yes	
SEFSC	GMFMC	Red grouper - Gulf of Mexico	2016	4	Benchmark	No	
SEFSC	GMFMC	Red snapper - Gulf of Mexico	2015	4	Full Update	Yes	
SEFSC	GMFMC	Royal red shrimp - Gulf of Mexico	2017	1	Full Update	No	
SEFSC	GMFMC	Tilefish - Gulf of Mexico	2011	4	Benchmark	No	
SEFSC	GMFMC	Vermilion snapper - Gulf of Mexico	2016	4	Full Update	Yes	
SEFSC	GMFMC	White shrimp - Gulf of Mexico	2017	4	Full Update	Yes	
SEFSC	GMFMC	Yellowedge grouper - Gulf of Mexico	2011	4	Benchmark	No	
SEFSC	HMS	Atlantic sharpnose shark - Atlantic	2014	4	Full Update	Yes	Partial acceptance -- status determinations only
SEFSC	HMS	Atlantic sharpnose shark - Gulf of Mexico	2014	4	Full Update	Yes	Partial acceptance -- status determinations only
SEFSC	HMS	Blacknose shark - Atlantic	2011	4	Full Update	No	
SEFSC	HMS	Blacknose shark - Gulf of Mexico	2011	-4	Full Update	No	
SEFSC	HMS	Blacktip shark - Atlantic	2006	-4	Full Update	No	
SEFSC	HMS	Blacktip shark - Gulf of Mexico	2012	4	Full Update	Yes	
SEFSC	HMS	Blue shark - North Atlantic	2016	4	Benchmark	No	
SEFSC	HMS	Bonnethead - Atlantic	2013	-4	Full Update	No	Rejected -- results too uncertain to be considered adequate
SEFSC	HMS	Bonnethead - Gulf of Mexico	2013	-4	Full Update	No	Rejected -- results too uncertain to be considered adequate
SEFSC	HMS	Dusky shark - Atlantic	2016	4	Full Update	Yes	
SEFSC	HMS	Finetooth shark - Atlantic	2008	3	Benchmark	No	
SEFSC	HMS	Porbeagle - Atlantic	2010	4	New	No	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
SEFSC	HMS	Sandbar shark - Atlantic	2011	4	Full Update	No	
SEFSC	HMS	Scalloped Hammerhead Complex - Atlantic	2010	3	Unknown	No	
SEFSC	HMS	Shortfin mako - Atlantic	2013	4	Benchmark	Yes	
SEFSC	SAFMC	Black grouper - Southern Atlantic Coast	2010	4	Benchmark	No	Asmt sunset at end of FY15
SEFSC	SAFMC	Black sea bass - Southern Atlantic Coast	2013	4	Full Update	Yes	
SEFSC	SAFMC	Blueline tilefish - Southern Atlantic Coast	2014	4	Benchmark	Yes	
SEFSC	SAFMC	Brown rock shrimp - Southern Atlantic Coast	2017	1	Full Update	No	
SEFSC	SAFMC	Brown shrimp - Southern Atlantic Coast	2017	1	Full Update	No	
SEFSC	SAFMC	Dolphinfish - Southern Atlantic Coast	2000	2	Unknown	No	
SEFSC	SAFMC	Gag - Southern Atlantic Coast	2014	4	Full Update	Yes	
SEFSC	SAFMC	Gray triggerfish - Southern Atlantic Coast	2016	-4	Benchmark	No	2016 Benchmark was rejected due to poor model fit. 2001 Was last accepted assessment
SEFSC	SAFMC	Greater amberjack - Southern Atlantic Coast	2008	4	Benchmark	No	
SEFSC	SAFMC	Hogfish - Southeast Florida	2015	4	Benchmark	Yes	
SEFSC	SAFMC	Pink shrimp - Southern Atlantic Coast	2017	1	Full Update	No	
SEFSC	SAFMC	Red grouper - Southern Atlantic Coast	2017	4	Standard	Yes	
SEFSC	SAFMC	Red porgy - Southern Atlantic Coast	2013	4	Full Update	Yes	
SEFSC	SAFMC	Red snapper - Southern Atlantic Coast	2016	4	Benchmark	Yes	
SEFSC	SAFMC	Snowy grouper - Southern Atlantic Coast	2014	4	Unknown	Yes	
SEFSC	SAFMC	Speckled hind - Southern Atlantic Coast	2002	2	Unknown	No	
SEFSC	SAFMC	Tilefish - Southern Atlantic Coast	2016	4	Full Update	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
SEFSC	SAFMC	Vermilion snapper - Southern Atlantic Coast	2013	4	Full Update	Yes	
SEFSC	SAFMC	Warsaw grouper - Southern Atlantic Coast	2002	2	Unknown	No	
SEFSC	SAFMC	White shrimp - Southern Atlantic Coast	2017	1	Full Update	No	
SEFSC	SAFMC/ GMFMC	Caribbean spiny lobster - Southern Atlantic Coast / Gulf of Mexico	2011	(-4)	Full Update	No	Rejected -- results too uncertain to be considered adequate
SEFSC	SAFMC/ GMFMC	Cobia - Gulf of Mexico	2013	4	Benchmark	Yes	
SEFSC	SAFMC/ GMFMC	Cobia - Southern Atlantic Coast	2013	4	Benchmark	Yes	
SEFSC	SAFMC/ GMFMC	King mackerel - Gulf of Mexico	2014	4	Benchmark	Yes	
SEFSC	SAFMC/ GMFMC	King mackerel - Southern Atlantic Coast	2014	4	Benchmark	Yes	
SEFSC	SAFMC/ GMFMC	Mutton snapper - Southern Atlantic Coast / Gulf of Mexico	2015	4	Full Update	Yes	
SEFSC	SAFMC/ GMFMC	Spanish mackerel - Gulf of Mexico	2013	4	Benchmark	Yes	
SEFSC	SAFMC/ GMFMC	Spanish mackerel - Southern Atlantic Coast	2013	4	Benchmark	Yes	
SEFSC	SAFMC/ GMFMC	Yellowtail snapper - Southern Atlantic Coast / Gulf of Mexico	2013	4	Benchmark	Yes	
SWFSC	PFMC	Northern anchovy - Southern Pacific Coast	1995	0	Unknown	No	
SWFSC	PFMC	Opalescent inshore squid - Pacific Coast	2007	2	New	No	
SWFSC	PFMC	Pacific chub mackerel - Pacific Coast	2017	4	Full Update	Yes	
SWFSC	PFMC	Pacific sardine - Pacific Coast	2017	5	Benchmark	Yes	

Footnotes

¹ NOAA Fisheries Science Centers include Alaska Fisheries Science Center (AFSC), Northeast Fisheries Science Center (NEFSC), Northwest Fisheries Science Center (NWFSC), Pacific Islands Fisheries Science Center (PIFSC), Southeast Fisheries Science Center (SEFSC) and Southwest Fisheries Science Center (SWFSC). In some cases, assessments are conducted by multiple science centers (e.g. NW/SW and SW/PI).

² Jurisdictions include Caribbean Fishery Management Council (CFMC), Gulf of Mexico Fishery Management Council (GMFMC), Atlantic Highly Migratory Species Division (HMS), Mid-Atlantic Fishery Management Council (MAFMC), New England Fishery Management Council (NEFMC), North Pacific Fishery Management Council (NPFMC), Pacific Fishery Management Council (PFMC), South Atlantic Fishery Management Council (SAFMC) and Western Pacific Fishery Management Council (WPFMC).

³ Level of complexity of assessment methods used for the particular stock. Generally reflects the availability of data and the value or importance of the fishery. Levels are described in the Stock Assessment Improvement Plan <http://www.st.nmfs.noaa.gov/StockAssessment/index.html>). A negative level indicates that an assessment was attempted at that level of complexity, but the effort was not accepted in its technical review.

* Changes are indicated by red font.



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