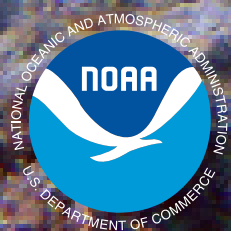
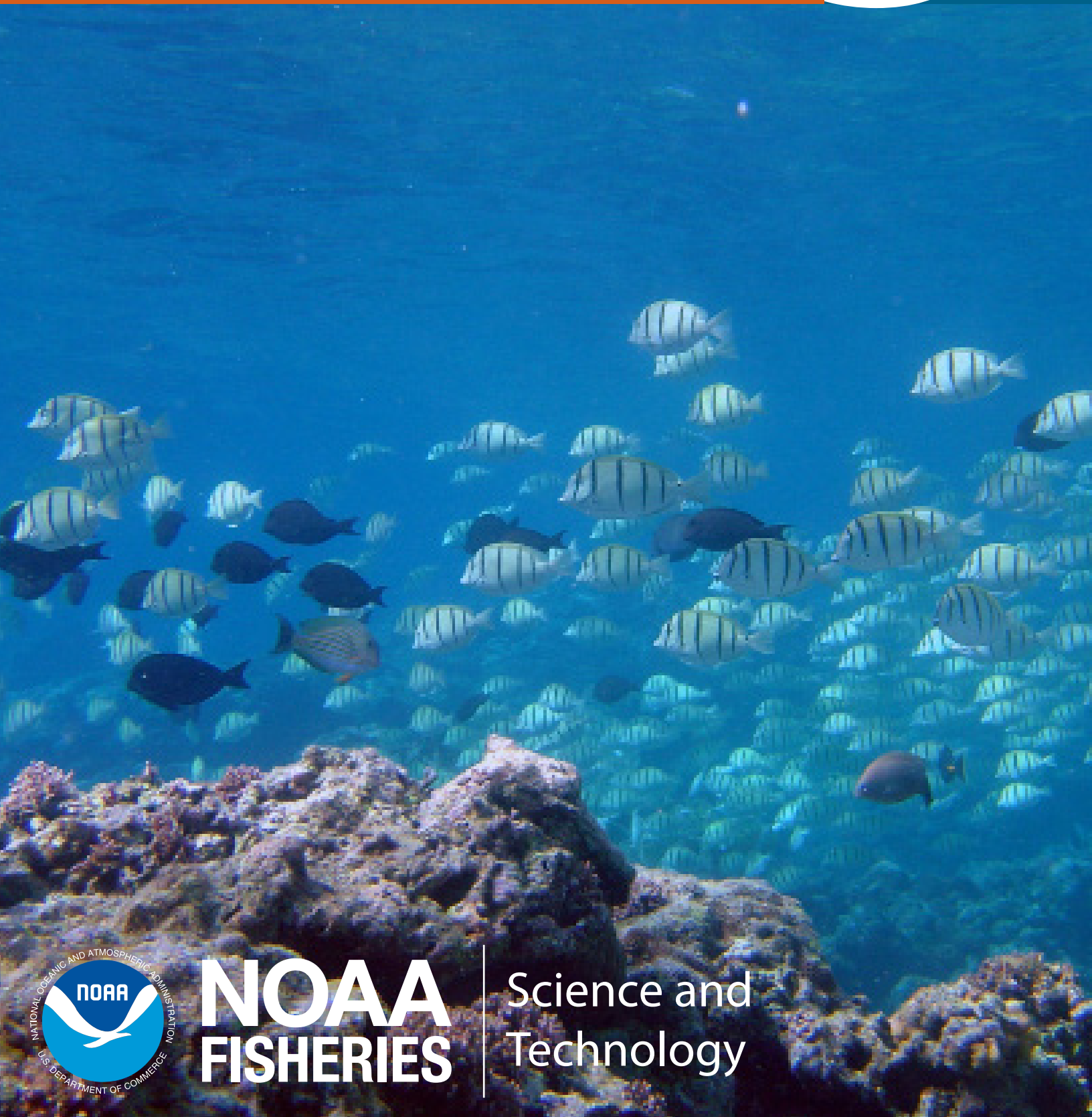


Fish Assessment Report

FY 2016 Quarter 3 Update

3

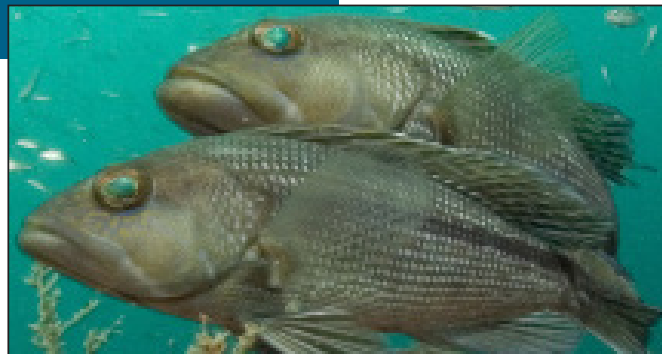


NOAA
FISHERIES

Science and
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Overview

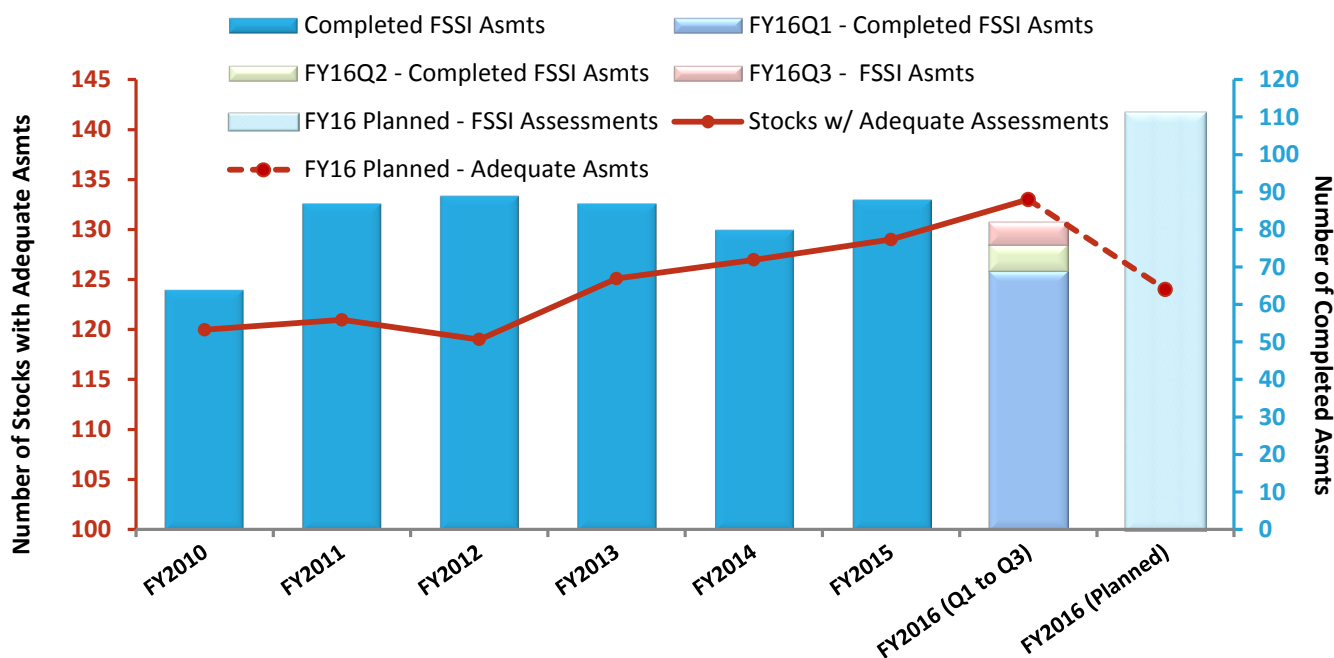
Stock assessments are key to sustainable fisheries management. They provide scientific information to determine the status of fish stocks and to set annual catch limits (ACLs) that prevent overfishing and optimize yield from our Nation's fisheries. This Fish Assessment Report provides a quarterly update 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 its 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 placed on the Fish Stock Sustainability Index (FSSI). These 199 stocks are collectively referred to as 'FSSI stocks' and account for 85% of total fisheries catch. In FY2016 NOAA Fisheries plans to complete assessments of 111 of the 199 FSSI stocks. The remaining (non-FSSI) stocks consist of 274 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 FY2016 NOAA Fisheries has planned 122 assessments for non-FSSI stocks, complexes, or stock complex members, many of which are first time assessments and will improve the overall quality of the science provided for fishery management.

NOAA Fisheries Assessment Trends for FSSI Stocks



Recent and projected assessment activity for federally managed stocks in the Fish Stock Sustainability Index (FSSI) at the end of Q3 FY2016 (132/199 or 66.3%). This number is anticipated to decrease at the end of FY2016 due to 11 assessments sunsetting (i.e. will be greater than 5 years old) and an increased effort to provide scientific information for many non-FSSI stocks, for which first time assessments will be conducted.

Assessments this Quarter

During Quarter 3, 14 stocks were assessed, including 7 FSSI and 7 non-FSSI stocks

During Quarter 3, seven assessments were completed for FSSI stocks and stock complexes. In addition, seven assessments were completed for non-FSSI stocks and stock complexes bringing the total number of assessments conducted during FY2016 to 177 (see Table 1). Fifty-six assessments are planned for the remainder of the year including 28 assessments for FSSI stocks and stock complexes and 28 for non-FSSI stocks and stock complexes.

The assessments completed this quarter were primarily for crab stocks in Alaska, several South Atlantic stocks, and international assessments of Pacific highly migratory species. The remaining assessments included an Atlantic mackerel indicator analysis, a Pacific sardine full update, a weathervane scallop full update in Alaska, and an update of Atlantic salmon in the Northeast. One Southeast assessment, Gray triggerfish - South Atlantic Coast, was not successful due to insufficient data being available with which to estimate all model parameters.

One non-FSSI assessment conducted by the Alaska Fisheries Science Center, Coho salmon - Ford Arm Lake, was dropped from the schedule due to a lack of available funds at the Alaska Department of Fish

and Game. This decreased the number of planned non-FSSI assessments to 122 for the year.

Two assessments were delayed. Striped marlin - Eastern Pacific was delayed to Q4 due to delays in transferring the results of the international assessment to the appropriate management councils. Goliath grouper - Southern Atlantic Coast / Gulf of Mexico, which is led by Florida, was delayed to Q4 due to delays in the stock assessment review process.

Ongoing reviews of our stock assessment information occasionally reveal the need to verify or correct assessment records. It was recently realized that one FSSI stock, Blacknose shark - Gulf of Mexico, has been erroneously reported as adequately assessed since 2011. This error is now corrected, however the change caused a decrease in the percentage of FSSI stocks with adequate assessments between Q2 and Q3 FY2016.

At the end of Q3 FY2016, the percentage of FSSI stocks with adequate assessments is 66.3% (132/199). See description of "adequate" on the following page.

Table 1. FY2016 Completed Assessments

Science Center(s)	Quarter 1		Quarter 2		Quarter 3		Highlights for Q3
	FSSI	Non-FSSI	FSSI	Non-FSSI	FSSI	Non-FSSI	
Northeast	19	0	3	0	1	1	Atlantic mackerel and Atlantic salmon
Southeast	9	1	1	0	4	0	Vermilion snapper - Gulf of Mexico; Red snapper + Tilefish - South Atlantic Coast
Northwest and Southwest ¹	4	0	2	64	0	0	None planned for Q3
Southwest	0	0	0	0	1	0	Pacific Sardine - Pacific Coast
Alaska	37	22	1	0	1	3	Golden king crab - Aleutian Islands
Pacific Islands	0	0	0	0	0	0	None planned for Q3
Southwest and Pacific Islands ²	0	0	0	0	0	3	Bigeye tuna; Skipjack tuna; Yellowfin tuna - Eastern Pacific

Footnotes:

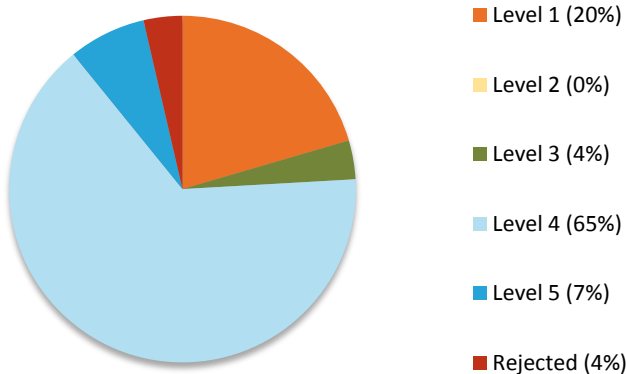
¹ The Northwest and Southwest Fisheries Science Centers jointly conduct assessments for Pacific coast groundfish and Pacific coast salmon.

² The Southwest and Pacific Islands Fisheries Science Centers jointly conduct assessments for U.S. West Coast Fisheries for Highly Migratory Species and Pacific Pelagic Fisheries of the Western Pacific Region Ecosystem.

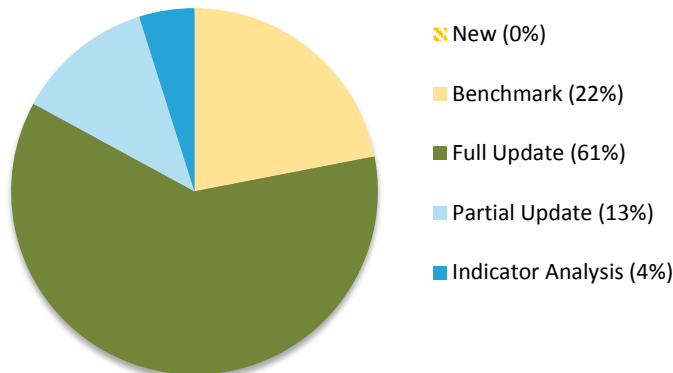
Model Complexity and Assessment Type

In Q3 FY2016, four of the assessments conducted for FSSI stocks were considered adequate (level 3 or higher). Three were full updates and one was a benchmark assessment. For non-FSSI stocks, three of the assessments were completed at level three or higher (“adequacy” is reported for FSSI stocks). Index-based and simple life history approaches (level 1 and 2), along with indicator analyses (level 1), were conducted for six stocks (two FSSI and four non-FSSI) providing important science-based advice for the management of data-limited stocks but falling below the “adequate” threshold. Assessment levels and types for all assessments completed during Q1, Q2, and Q3 FY2016 are shown in the charts below.

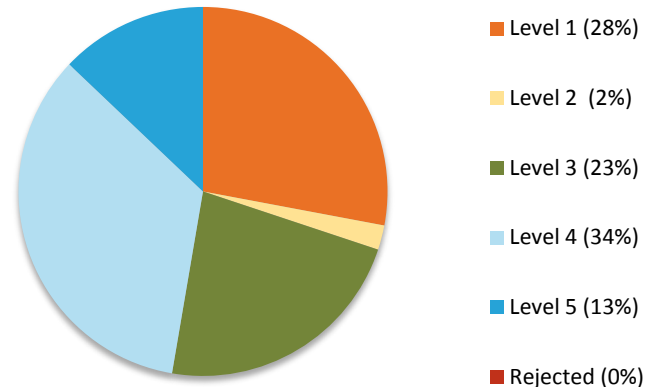
FSSI Assessment Levels



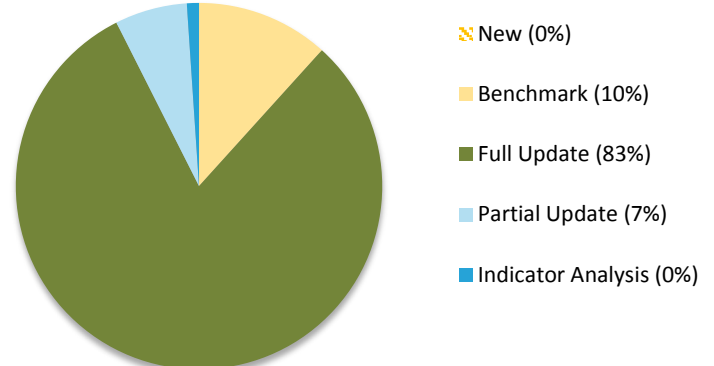
FSSI Assessment Types



Non-FSSI Assessment Levels



Non-FSSI Assessment Types



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
Indicator Analysis	Examination of recent trends in fishery independent survey data, catch estimates, or other possible indicators

Regional Highlight: Stock Assessment Prioritization

Fisheries data collection and stock assessments constitute a significant portion of NOAA Fisheries’ annual budget. These resources enable NOAA Fisheries scientists to facilitate approximately 200 assessments conducted each year, but it isn’t practical or affordable to assess all fish stocks annually. NOAA Fisheries recently developed a national framework for prioritizing stock assessments that is being implemented at the regional level to ensure available resources are used to develop the most needed science information to sustainably manage fisheries¹. This process establishes an approach for each region to determine assessment targets and set annual priorities to best meet those targets. Stock assessment prioritization incorporates many of the existing processes for determining assessment schedules and establishes an objective and transparent national framework for prioritizing stocks in need of assessment.



Canary rockfish, *Sebastes pinniger*

Stock assessment priorities are developed by scoring stocks using 12 factors in five themes: fishery importance, stock status, ecosystem importance, assessment information, and stock biology. Those scores are then weighted by a steering committee of regional managers to calculate final prioritization ranks. These ranks are not prescriptive, but serve as a starting position from which the committee can subsequently determine the final set of stocks to be assessed. The prioritization process was rolled out by NOAA Fisheries in 2015 and is being phased in regionally in coordination with existing processes and planning bodies. The inaugural run was completed in June 2016 to develop a priority list of assessments for stocks managed under the Pacific Coast Groundfish Fishery Management Plan.

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

The prioritization process was completed cooperatively by staff from the Northwest and Southwest Fisheries Science Centers along with staff, advisors, and members of the Pacific Fisheries Management Council (PFMC). They held extensive discussions to develop target assessment frequencies for groundfish and develop and review scoring approaches for the prioritization factors. All stocks were assigned assessment frequencies that ranged from two to ten years, and the factors weighted the heaviest were the commercial value of a stock and the number years its assessment is overdue (relative to its target assessment frequency). The final list of stock assessment priorities was used as the basis for scheduling assessments of groundfish in the 2017 assessment cycle (see table).



Prioritization of fisheries stock assessments continues to move forward across all of the regions. As implementation continues, NOAA Fisheries and its partners will use the results from the PFMC groundfish stocks and additional regional results to evaluate potential changes that could be implemented to improve the process. For more detailed information on the prioritization process, please see the PFMC’s website².

Assessment Type	Assessed Stocks
Full Assessments	Yelloweye rockfish Lingcod Blue / Deacon rockfish (combined) California scorpionfish Pacific ocean perch Yellowtail rockfish
Update Assessments	Darkblotched rockfish Bocaccio Arrowtooth flounder Blackgill rockfish
Catch Report	Cowcod

Pacific Coast Groundfish stocks selected by the PFMC for assessments inFY2017 and the type of assessment that will be conducted.

2 <http://www.pcouncil.org/groundfish/background/>

Upcoming Assessments & Survey Activity

During FY2016 NOAA Fisheries plans to complete 111 assessments of FSSI stocks and 122 assessments of non-FSSI stocks, for a total of 233 assessments. This is the largest total it has ever attempted during one fiscal year. The total number of assessments planned to be completed in each region for the remainder of the year is shown in the map below. Detailed information for the assessments completed during Q1 to Q3 of FY2016 and planned for Q4 of FY2016 can be found in the supporting appendices of this report. Appendix A includes Q1 to Q3 FY2016 completed assessments for FSSI stocks. Appendix B includes Q1 to Q3 FY2016 completed assessments for non-FSSI stocks. Appendix C includes a list of the assessments planned for the remainder of FY2016, including FSSI and non-FSSI stocks. Appendix D provides the assessment status of FSSI stocks. The information in these appendices represents the best available at the time of reporting and is subject to change.

Many stock assessments rely on data collected by NOAA's scientific surveys of fish stocks. NOAA Fisheries completed 13 scientific surveys of fish stocks during Q2 FY2016 and plans to complete an additional 27 surveys during the remainder of the FY2016.¹ The majority of these surveys will be conducted by the Southeast and Alaska Fisheries Science Centers. The Southeast has six remaining planned surveys, and Alaska has nine. All of the remaining centers have between one and three surveys planned for the remainder of the year.

For more information on assessment activities, including the assessment status for all FSSI stocks, 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>



Q4 FY2016 assessments to be conducted for each NOAA Fisheries Fisheries Science Center. The map colors correspond to the jurisdictions of the eight US Fisheries Management Councils.

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 FY16).

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>

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 FY2016.

Completed Assessments for FSSI Stocks - FY2016 Quarter 1 (October - December, 2015)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Adequate	Notes
AFSC	NPFMC	Alaska plaice - Bering Sea / Aleutian Islands	4	Partial Update	Yes	
AFSC	NPFMC	Arrowtooth flounder - Bering Sea / Aleutian Islands	5	Partial Update	Yes	
AFSC	NPFMC	Arrowtooth flounder - Gulf of Alaska	4	Benchmark	Yes	
AFSC	NPFMC	Atka mackerel - Bering Sea / Aleutian Islands	4	Full Update	Yes	
AFSC	NPFMC	Bering Sea / Aleutian Islands Blackspotted and Rougheye Rockfish Complex	4	Partial Update	Yes	
AFSC	NPFMC	Bering Sea / Aleutian Islands Flathead Sole Complex	5	Partial Update	Yes	Flathead sole asmt serves as indicator stock
AFSC	NPFMC	Bering Sea / Aleutian Islands Rock Sole Complex	4	Full Update	Yes	Northern rock sole asmt serves as indicator stock
AFSC	NPFMC	Bering Sea / Aleutian Islands Skate Complex	4	Partial Update	Yes	Two assessments serve as indicators for this stock complex; Alaska skate (level 4) and other skate complex remainder (level 3)
			3	Partial Update	Yes	
AFSC	NPFMC	Dusky rockfish - Gulf of Alaska	4	Benchmark	Yes	
AFSC	NPFMC	Flathead sole - Gulf of Alaska	4	Full Update	Yes	
AFSC	NPFMC	Greenland halibut - Bering Sea / Aleutian Islands	4	Benchmark	Yes	
AFSC	NPFMC	Gulf of Alaska Blackspotted and Rougheye Rockfish Complex	4	Benchmark	Yes	
AFSC	NPFMC	Gulf of Alaska Deepwater Flatfish Complex	4	Benchmark	Yes	Two assessments serve as indicators for stock complex: Dover sole (level 4 benchmark and other deepwater flatfish complex remainder (level 1 full update)
			1	Full Update	Yes	
AFSC	NPFMC	Gulf of Alaska Demersal Shelf Rockfish Complex	3	Full Update	Yes	Yelloweye rockfish asmt serves as indicator stock

National Marine Fisheries Service
Updated FY2016 Quarter 3

Completed Assessments for FSSI Stocks - FY2016 Quarter 1 (October - December, 2015)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Adequate	Notes
AFSC	NPFMC	Gulf of Alaska Shallow Water Flatfish Complex	4	Benchmark	Yes	Two benchmark assessments serve as indicators for this stock complex: Northern rock sole (level 4), and rock sole (level 4)
			4	Benchmark	Yes	
AFSC	NPFMC	Gulf of Alaska Thornyhead Rockfish Complex	3	Benchmark	Yes	Shortspine thornyhead asmt serves as indicator stock for stock complex.
AFSC	NPFMC	Northern rockfish - Bering Sea / Aleutian Islands	4	Partial Update	Yes	
AFSC	NPFMC	Northern rockfish - Western / Central Gulf of Alaska	4	Benchmark	Yes	
AFSC	NPFMC	Pacific cod - Bering Sea	4	Full Update	Yes	
AFSC	NPFMC	Pacific cod - Gulf of Alaska	4	Benchmark	Yes	
AFSC	NPFMC	Pacific ocean perch - Bering Sea / Aleutian Islands	4	Partial Update	Yes	
AFSC	NPFMC	Pacific ocean perch - Gulf of Alaska	4	Benchmark	Yes	
AFSC	NPFMC	Rex sole - Gulf of Alaska	4	Benchmark	Yes	
AFSC	NPFMC	Sablefish - Eastern Bering Sea / Aleutian Islands / Gulf of Alaska	4	Full Update	Yes	
AFSC	NPFMC	Walleye pollock - Aleutian Islands	4	Full Update	Yes	
AFSC	NPFMC	Walleye pollock - Eastern Bering Sea	4	Full Update	Yes	
AFSC	NPFMC	Walleye pollock - Western / Central Gulf of Alaska	4	Full Update	Yes	
AFSC	NPFMC	Yellowfin sole - Bering Sea / Aleutian Islands	5	Full Update	Yes	
AFSC	NPFMC	Blue king crab - Pribilof Islands	1	Full Update	No	
AFSC	NPFMC	Blue king crab - Saint Matthew Island	4	Full Update	Yes	
AFSC	NPFMC	Red king crab - Bristol Bay	4	Full Update	Yes	
AFSC	NPFMC	Red king crab - Pribilof Islands	1	Full Update	No	
AFSC	NPFMC	Snow crab - Bering Sea	4	Full Update	Yes	
AFSC	NPFMC	Southern tanner crab - Bering Sea	4	Full Update	Yes	
NEFSC	NEFMC	Acadian redfish - Gulf of Maine / Georges Bank	4	Full Update	Yes	
NEFSC	NEFMC	American plaice - Gulf of Maine / Georges Bank	4	Full Update	Yes	

National Marine Fisheries Service
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Completed Assessments for FSSI Stocks - FY2016 Quarter 1 (October - December, 2015)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Adequate	Notes
NEFSC	NEFMC	Atlantic cod - Georges Bank	-4	Full Update	No	Assessment results were too uncertain to be considered adequate for management.
NEFSC	NEFMC	Atlantic cod - Gulf of Maine	4	Full Update	Yes	
NEFSC	NEFMC	Atlantic halibut - Northwestern Atlantic Coast	-3	Full Update	No	Assessment results were too uncertain to be considered adequate for management.
NEFSC	NEFMC	Atlantic wolffish - Gulf of Maine / Georges Bank	4	Full Update	Yes	
NEFSC	NEFMC	Haddock - Georges Bank	4	Full Update	Yes	
NEFSC	NEFMC	Haddock - Gulf of Maine	4	Full Update	Yes	
NEFSC	NEFMC	Ocean pout - Northwestern Atlantic Coast	1	Full Update	No	
NEFSC	NEFMC	Pollock - Gulf of Maine / Georges Bank	4	Full Update	Yes	
NEFSC	NEFMC	White hake - Gulf of Maine / Georges Bank	4	Full Update	Yes	
NEFSC	NEFMC	Windowpane - Gulf of Maine / Georges Bank	1	Full Update	No	
NEFSC	NEFMC	Windowpane - Southern New England / Mid-Atlantic	1	Full Update	No	
NEFSC	NEFMC	Winter flounder - Georges Bank	4	Full Update	Yes	
NEFSC	NEFMC	Winter flounder - Gulf of Maine	1	Full Update	No	
NEFSC	NEFMC	Winter flounder - Southern New England / Mid-Atlantic	4	Full Update	Yes	
NEFSC	NEFMC	Witch flounder - Northwestern Atlantic Coast	4	Full Update	Yes	
NEFSC	NEFMC	Yellowtail flounder - Cape Cod / Gulf of Maine	4	Full Update	Yes	
NEFSC	NEFMC	Yellowtail flounder - Southern New England / Mid-Atlantic	4	Benchmark	Yes	
NWFSC	PFMC	Yelloweye rockfish - Pacific Coast	4	Partial Update	Yes	Omitted from Q1 Report
NWFSC	PFMC	California scorpionfish - Southern California	4	Partial Update	Yes	Omitted from Q1 Report
NW/SW	PFMC	Black rockfish - Northern Pacific coast	4	Benchmark	Yes	Black rockfish stocks were assessed using three area models (WA, OR, CA).
NW/SW	PFMC	Black rockfish - Southern Pacific coast	4	Benchmark	Yes	

National Marine Fisheries Service
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Completed Assessments for FSSI Stocks - FY2016 Quarter 1 (October - December, 2015)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Adequate	Notes
SEFSC	GMFMC	Brown shrimp - Gulf of Mexico	4	Full Update	Yes	
SEFSC	GMFMC	Pink shrimp - Gulf of Mexico	4	Full Update	Yes	
SEFSC	GMFMC	Royal red shrimp - Gulf of Mexico	1	Full Update	Yes	
SEFSC	GMFMC	White shrimp - Gulf of Mexico	4	Full Update	Yes	
SEFSC	HMS	Blue shark - North Atlantic	4	Benchmark	Yes	
SEFSC	SAFMC	Brown rock shrimp - Southern Atlantic Coast	1	Full Update	Yes	
SEFSC	SAFMC	Brown shrimp - Southern Atlantic Coast	1	Full Update	Yes	
SEFSC	SAFMC	Pink shrimp - Southern Atlantic Coast	1	Full Update	Yes	
SEFSC	SAFMC	White shrimp - Southern Atlantic Coast	1	Full Update	Yes	

Completed Assessments for FSSI Stocks - FY2016 Quarter 2 (January - March, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Adequate	Notes
AFSC	NPFMC	Red king crab - Norton Sound	4	Full Update	Yes	
NEFSC	MAFMC	Atlantic surfclam - Mid-Atlantic Coast	1	Indicator Analysis	Yes	Last benchmark was in 2013
NEFSC	MAFMC	Ocean quahog - Atlantic Coast	1	Indicator Analysis	Yes	Last full update was in 2013
NEFSC	MAFMC	Tilefish - Mid-Atlantic Coast	1	Indicator Analysis	Yes	Last benchmark was in 2014
NW/SW	PFMC	Chinook salmon - California Central Valley: Sacramento (fall)	3	Full Update	Yes	
NW/SW	PFMC	Chinook salmon - Northern California Coast: Klamath (fall)	4	Full Update	Yes	
SEFSC	GMFMC	Red grouper - Gulf of Mexico	5	Benchmark	Yes	

Completed Assessments for FSSI Stocks - FY2016 Quarter 3 (April - June, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Adequate	Notes
AFSC	NPFMC	Golden king crab - Aleutian Islands	1	Full Update	No	Asmt conducted annually
NEFSC	MAFMC	Atlantic mackerel - Gulf of Maine / Cape Hatteras	1	Indicator Analysis	No	
SEFSC	GMFMC	Vermilion snapper - Gulf of Mexico	4	Full Update	Yes	Delayed from Q2
SEFSC	SAFMC	Gray triggerfish - Southern Atlantic Coast	-4	Benchmark	No	Rejected - Concerns regarding model fit
SEFSC	SAFMC	Red snapper - Southern Atlantic Coast	4	Benchmark	Yes	Delayed from FY2015
SEFSC	SAFMC	Tilefish - Southern Atlantic Coast	4	Full Update	Yes	

National Marine Fisheries Service
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Completed Assessments for FSSI Stocks - FY2016 Quarter 3 (April - June, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Adequate	Notes
SWFSC	PFMC	Pacific sardine - Pacific Coast	4	Full Update	Yes	

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.

Appendix B. Assessment activity for non-FSSI stocks, stock complexes and complex members in FY2016.

Completed Assessments for Non-FSSI Stocks - FY2016 Quarter 1 (October - December, 2015)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Notes on Assessment
AFSC	NPFMC	Atka mackerel - Gulf of Alaska	1	Full Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Octopus Complex	1	Partial Update	Giant octopus - Bering Sea /Aleutian Islands asmt serves as indicator for stock complex
AFSC	NPFMC	Bering Sea / Aleutian Islands Other Flatfish Complex	3	Full Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Other Rockfish Complex	3	Partial Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Sculpin Complex	3	Partial Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Shark Complex	1	Partial Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Squid Complex	1	Full Update	
AFSC	NPFMC	Gulf of Alaska Octopus Complex	1	Benchmark	Giant Octopus Gulf of Alaska asmt serves as indicator for stock complex
AFSC	NPFMC	Gulf of Alaska Other Rockfish Complex	3	Benchmark	
AFSC	NPFMC	Gulf of Alaska Other Shallow Water Flatfish Complex	3	Benchmark	
AFSC	NPFMC	Gulf of Alaska Sculpin Complex	3	Benchmark	
AFSC	NPFMC	Gulf of Alaska Shark Complex	1	Benchmark	
AFSC	NPFMC	Gulf of Alaska - Big skate	3	Full Update	These three assessments are included one Gulf of Alaska Skate Asmt Chapter in the SAFE
AFSC	NPFMC	Gulf of Alaska - Longnose skate	3	Full Update	
AFSC	NPFMC	Gulf of Alaska Other Skate Complex	3	Full Update	
AFSC	NPFMC	Gulf of Alaska Squid Complex	1	Full Update	
AFSC	NPFMC	Kamchatka flounder - Bering Sea / Aleutian Islands	4	Partial Update	
AFSC	NPFMC	Pacific cod - Aleutian Islands	3	Full Update	
AFSC	NPFMC	Shortraker rockfish - Bering Sea / Aleutian Islands	3	Partial Update	
AFSC	NPFMC	Shortraker rockfish - Gulf of Alaska	3	Benchmark	
AFSC	NPFMC	Walleye pollock - Bogoslof	3	Benchmark	
AFSC	NPFMC	Walleye pollock - Southeast Gulf of Alaska	3	Full Update	
SEFSC	HMS	Bigeye tuna - Atlantic	3	Benchmark	

Completed Assessments for Non-FSSI Stocks - FY2016 Quarter 2 (January - March, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Notes on Assessment
NW/SW	PFMC	Chinook salmon - California Central Valley: Sacramento (spring)	1	Full Update	

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Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Notes on Assessment
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	International
NW/SW	PFMC	Chinook salmon - Columbia River Basin: Upper River Bright (fall)	4	Full Update	International
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 - Oregon Coast: Central and Northern	3	Full Update	International
NW/SW	PFMC	Chinook salmon - Oregon Coast: Southern	3	Full Update	
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	

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Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Notes on Assessment
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	International
NW/SW	PFMC	Chinook salmon - Washington Coast: Grays Harbor (spring)	1	Full Update	International
NW/SW	PFMC	Chinook salmon - Washington Coast: Hoh (fall)	1	Full Update	International
NW/SW	PFMC	Chinook salmon - Washington Coast: Hoh (spring/summer)	1	Full Update	International
NW/SW	PFMC	Chinook salmon - Washington Coast: Hoko (summer/fall)	4	Full Update	International
NW/SW	PFMC	Chinook salmon - Washington Coast: Queets (fall)	5	Full Update	International
NW/SW	PFMC	Chinook salmon - Washington Coast: Queets (spring/summer)	2	Full Update	International
NW/SW	PFMC	Chinook salmon - Washington Coast: Quillayute (fall)	2	Full Update	International
NW/SW	PFMC	Chinook salmon - Washington Coast: Quillayute (spring/summer)	1	Full Update	International
NW/SW	PFMC	Chinook salmon - Washington Coast: Quinalt Fall (hatchery)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Willapa Bay Fall (hatchery)	4	Full Update	
NW/SW	PFMC	Chinook salmon - Washington Coast: Willapa Bay Fall (natural)	4	Full Update	International
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: Northern California	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	International

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Completed Assessments for Non-FSSI Stocks - FY2016 Quarter 2 (January - March, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Notes on Assessment
NW/SW	PFMC	Coho salmon - Puget Sound: Skagit	5	Full Update	International
NW/SW	PFMC	Coho salmon - Puget Sound: Snohomish	4	Full Update	International
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	International
NW/SW	PFMC	Coho salmon - Washington Coast: Grays Harbor	5	Full Update	International
NW/SW	PFMC	Coho salmon - Washington Coast: Hoh	5	Full Update	International
NW/SW	PFMC	Coho salmon - Washington Coast: Queets	5	Full Update	International
NW/SW	PFMC	Coho salmon - Washington Coast: Quillayute (fall)	4	Full Update	International
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	International
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	
NW/SW	PFMC	Pink salmon - Puget Sound (odd-numbered years)	1	Full Update	International
NW/SW	PFMC	Pacific hake - Pacific Coast	4	Benchmark	Conducted through Joint U.S. Canadian P. Whiting Agreement

Completed Assessments for Non-FSSI Stocks - FY2016 Quarter 3 (April - June, 2016)

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	Notes on Assessment
AFSC	NPFMC	Golden king crab - Pribilof Islands	1	Full Update	Asmt conducted annually
AFSC	NPFMC	Red king crab - Western Aleutian Islands	1	Full Update	Asmt conducted annually
AFSC	NPFMC	Weathervane scallop - Alaska	1	Full Update	
NEFSC	NEFMC	Atlantic salmon - Gulf of Maine	3	Full Update	Asmt conducted through ICES and AS committee
SW/PI	PFMC / WPFMC	Bigeye tuna - Eastern Pacific	4	Benchmark	IATTC asmt
SW/PI	PFMC / WPFMC	Skipjack tuna - Eastern Pacific	1	Indicator Analysis	IATTC asmt
SW/PI	PFMC / WPFMC	Yellowfin tuna - Eastern Pacific	4	Benchmark	IATTC asmt

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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.

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Appendix C. Planned assessments for FSSI and non-FSSI stocks in FY2016 by quarter. Information is best available provided by NOAA Fisheries Science Centers and subject to change.

Planned Assessments for FSSI and Non-FSSI Stocks - FY2016 Quarter 4 (July - September, 2016)

Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
AFSC	NPFMC	Non-FSSI	Chinook salmon - Eastern North Pacific Far North Migrating	4	Full Update	
AFSC	NPFMC	Non-FSSI	Coho salmon - Auke Creek	4	Full Update	
AFSC	NPFMC	Non-FSSI	Coho salmon - Berners River	4	Full Update	
AFSC	NPFMC	Non-FSSI	Coho salmon - Ford Arm Lake	4	Full Update	Assessment Dropped
AFSC	NPFMC	Non-FSSI	Coho salmon - Hugh Smith Lake	4	Full Update	
NEFSC	MAFMC	FSSI	Atlantic surfclam - Mid-Atlantic Coast	4	Benchmark	
NEFSC	MAFMC	FSSI	Black sea bass - Mid-Atlantic Coast	1	Indicator analysis	
NEFSC	MAFMC	FSSI	Bluefish - Mid-Atlantic Coast	1	Indicator analysis	
NEFSC	MAFMC	FSSI	Butterfish - Gulf of Maine / Cape Hatteras	1	Indicator analysis	
NEFSC	MAFMC	FSSI	Longfin inshore squid - Georges Bank / Cape Hatteras	1	Indicator analysis	
NEFSC	MAFMC	FSSI	Northern shortfin squid - Northwestern Atlantic Coast	1	Indicator analysis	
NEFSC	MAFMC	FSSI	Scup - Atlantic Coast	1	Indicator analysis	
NEFSC	MAFMC	FSSI	Summer flounder - Mid-Atlantic Coast	4	Full Update	
NEFSC	NEFMC	FSSI	Atlantic cod - Eastern Georges Bank	4	Full Update	Reviewed through the TRAC process
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	Haddock - Eastern Georges Bank	4	Partial Update	Reviewed through the TRAC process
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	4	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	
NEFSC	NEFMC	FSSI	Yellowtail flounder - Georges Bank	1	Indicator Analysis	Reviewed through the TRAC process
NEFSC	NEFMC / MAFMC	FSSI	Goosefish - Gulf of Maine / Northern Georges Bank	1	Indicator Analysis	Assessment planned as benchmark

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2016 Quarter 4 (July - September, 2016)

Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
NEFSC	NEFMC / MAFMC	FSSI	Goosefish - Southern Georges Bank / Mid-Atlantic	1	Indicator Analysis	Assessment planned as benchmark
NEFSC	NEFMC / MAFMC	FSSI	Spiny dogfish - Atlantic Coast	1	Indicator Analysis	
PIFSC	WPFMC	Non-FSSI	Acanthurus blochii (Ringtail surgeonfish)	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Acanthurus dussumieri (Eyestripe surgeonfish)	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Aprion virescens: Green jobfish (Blue-gray snapper)- Main Hawaiian Islands	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	INT	Blue marlin - Pacific	4	Full Update	ISC is lead for asmt.
PIFSC	WPFMC	Non-FSSI	Caranx ignobilis - Main Hawaiian Islands Jack	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Caranx melampygus - Main Hawaiian Islands Jack	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Cephalopholis argus - Peacock hind - Main Hawaiian Islands	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Chlorurus spilurus	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Lutjanus kasmira	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Mulloidichthys flavolineatus	2	New	Coral reef fish stock data poor assessment; delayed from Q1

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2016 Quarter 4 (July - September, 2016)

Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
PIFSC	WPFMC	Non-FSSI	Mulloidichthys vanicolensis - Main Hawaiian Islands	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Myripristis berndti	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Naso brevirostris	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Naso hexacanthus	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Naso lituratus	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Naso unicornis	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Parupeneus porphyreus -Main Hawaiian Islands	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Scarus psittacus	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Scarus rubroviolaceus	2	New	Coral reef fish stock data poor assessment; delayed from Q1
PIFSC	WPFMC	Non-FSSI	Seriola dumerili	2	New	Coral reef fish stock data poor assessment; delayed from Q1
SEFSC	CFMC	FSSI	Caribbean spiny lobster - St Croix	2	Benchmark	
SEFSC	CFMC	FSSI	Caribbean spiny lobster - St Thomas	2	Benchmark	

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2016 Quarter 4 (July - September, 2016)

Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
SEFSC	CFMC	FSSI	Caribbean Parrotfishes Complex (spotlight parrotfish -- St. Croix)	2	Benchmark	
SEFSC	CFMC	FSSI	Caribbean snappers (yellowtail snapper - Puerto Rico)	2	Benchmark	
SEFSC	SAFMC / GMFMC	Non-FSSI	Goliath grouper - Southern Atlantic Coast / Gulf of Mexico	3	Benchmark	Asmt led by FI, delayed from Q3
SEFSC	CFMC	FSSI	St. Thomas/St. John Triggerfishes and Filefishes Complex (St. Thomas / St. John Queen Triggerfish)	2	New	
SEFSC	CFMC	Non-FSSI	Puerto Rico Wrasces Complex (Hogfish -Puerto Rico)	2	New	
SEFSC	HMS	FSSI	Dusky shark - Atlantic and Gulf of Mexico	4	Full Update	
SW/PI	PFMC / WPFMC	INT	Striped marlin - Eastern Pacific	4	TBD	IATTC is lead, delayed from Q3
SW/PI	PFMC / WPFMC	INT	Pacific bluefin tuna - Pacific	4	Benchmark	ISC asmt

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 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.

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.

Appendix D. Assessment status for FSSI stocks and stock complexes at the end of Q3 FY2016. 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
			Year	Level ³	Type	Adequate?	
AFSC	NPFMC	Alaska plaice - Bering Sea / Aleutian Islands	2015	4	Partial Update	Yes	
AFSC	NPFMC	Arrowtooth flounder - Bering Sea / Aleutian Islands	2015	5	Partial Update	Yes	
AFSC	NPFMC	Arrowtooth flounder - Gulf of Alaska	2015	4	Benchmark	Yes	
AFSC	NPFMC	Atka mackerel - Bering Sea / Aleutian Islands	2015	4	Full Update	Yes	
AFSC	NPFMC	Bering Sea / Aleutian Islands Blackspotted and Rougheye Rockfish Complex	2015	4	Partial Update	Yes	
AFSC	NPFMC	Bering Sea / Aleutian Islands Flathead Sole Complex	2015	5	Partial Update	Yes	The assessment is for the Flathead Sole Complex indicator stock, flathead sole.
AFSC	NPFMC	Bering Sea / Aleutian Islands Rock Sole Complex	2015	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	2015	4	Partial Update	Yes	The assessment is for the Bering Sea / Aleutian Islands Skate Complex indicator stock, Alaska skate.
AFSC	NPFMC	Blue king crab - Pribilof Islands	2015	1	Full Update	No	
AFSC	NPFMC	Blue king crab - Saint Matthew Island	2015	4	Full Update	Yes	
AFSC	NPFMC	Dusky rockfish - Gulf of Alaska	2015	4	Benchmark	Yes	
AFSC	NPFMC	Flathead sole - Gulf of Alaska	2015	4	Full Update	Yes	
AFSC	NPFMC	Golden king crab - Aleutian Islands	2016	1	Full Update	No	
AFSC	NPFMC	Greenland halibut - Bering Sea / Aleutian Islands	2015	4	Benchmark	Yes	
AFSC	NPFMC	Gulf of Alaska Blackspotted and Rougheye Rockfish Complex	2015	4	Benchmark	Yes	
AFSC	NPFMC	Gulf of Alaska Deepwater Flatfish Complex	2015	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
			Year	Level ³	Type	Adequate?	
AFSC	NPFMC	Gulf of Alaska Demersal Shelf Rockfish Complex	2015	3	Full Update	Yes	The assessment is for Demersal Shelf Rockfish Complex indicator stock, yelloweye rockfish.
AFSC	NPFMC	Gulf of Alaska Shallow Water Flatfish Complex	2015	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	2015	3	Full Update	Yes	The assessment is for the Thornyhead Rockfish Complex indicator stock, shortspine thornyhead.
AFSC	NPFMC	Northern rockfish - Bering Sea / Aleutian Islands	2015	4	Partial Update	Yes	
AFSC	NPFMC	Northern rockfish - Western / Central Gulf of Alaska	2015	4	Benchmark	Yes	
AFSC	NPFMC	Pacific cod - Bering Sea / Aleutian Islands	2015	4	Full Update	Yes	
AFSC	NPFMC	Pacific cod - Gulf of Alaska	2015	4	Benchmark	Yes	
AFSC	NPFMC	Pacific ocean perch - Bering Sea / Aleutian Islands	2015	4	Partial Update	Yes	
AFSC	NPFMC	Pacific ocean perch - Gulf of Alaska	2015	4	Benchmark	Yes	
AFSC	NPFMC	Red king crab - Bristol Bay	2015	4	Full Update	Yes	
AFSC	NPFMC	Red king crab - Norton Sound	2016	4	Full Update	Yes	
AFSC	NPFMC	Red king crab - Pribilof Islands	2015	1	Full Update	No	
AFSC	NPFMC	Rex sole - Gulf of Alaska	2015	4	Benchmark	Yes	
AFSC	NPFMC	Sablefish - Eastern Bering Sea / Aleutian Islands / Gulf of Alaska	2015	4	Full Update	Yes	
AFSC	NPFMC	Snow crab - Bering Sea	2015	4	Full Update	Yes	
AFSC	NPFMC	Southern Tanner crab - Bering Sea	2015	4	Full Update	Yes	
AFSC	NPFMC	Walleye pollock - Aleutian Islands	2015	4	Full Update	Yes	
AFSC	NPFMC	Walleye pollock - Eastern Bering Sea	2015	4	Full Update	Yes	
AFSC	NPFMC	Walleye pollock - Western / Central / West Yakutat Gulf of Alaska	2015	4	Full Update	Yes	
AFSC	NPFMC	Yellowfin sole - Bering Sea / Aleutian Islands	2015	5	Full Update	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Year	Level ³	Type	Adequate?	
NEFSC	MAFMC	Atlantic mackerel - Gulf of Maine / Cape Hatteras	2010	(-4)	Full Update	No	
			2016	1	Indicator Analysis		
NEFSC	MAFMC	Atlantic surfclam - Mid-Atlantic Coast	2013	4	Benchmark	Yes	
			2016	1	Indicator Analysis		
NEFSC	MAFMC	Black sea bass - Mid-Atlantic Coast	2012	4	Full Update	Yes	
			2015	1	Indicator Analysis		
NEFSC	MAFMC	Bluefish - Atlantic Coast	2015	4	Benchmark	Yes	
NEFSC	MAFMC	Butterfish - Gulf of Maine / Cape Hatteras	2014	5	Benchmark	Yes	
			2015	1	Indicator Analysis		
NEFSC	MAFMC	Longfin inshore squid - Georges Bank / Cape Hatteras	2015	1	Indicator Analysis	No	
NEFSC	MAFMC	Northern shortfin squid - Northwestern Atlantic Coast	2005	2	Benchmark	No	
			2015	1	Indicator Analysis		
NEFSC	MAFMC	Ocean quahog - Atlantic Coast	2013	4	Full Update	Yes	
			2016	1	Indicator Analysis		
NEFSC	MAFMC	Scup - Atlantic Coast	2015	4	Benchmark	Yes	
NEFSC	MAFMC	Summer flounder - Mid-Atlantic Coast	2015	4	Full Update	Yes	
NEFSC	MAFMC	Tilefish - Mid-Atlantic Coast	2014	4	Benchmark	Yes	
			2016	1	Indicator Analysis		
NEFSC	NEFMC	Acadian redfish - Gulf of Maine / Georges Bank	2015	4	Full Update	Yes	
NEFSC	NEFMC	American plaice - Gulf of Maine / Georges Bank	2015	4	Full Update	Yes	
NEFSC	NEFMC	Atlantic cod - Georges Bank	2015	(-4)	Full Update	See note	Asmts conducted on Eastern Georges Bank substock (4) and Georges Bank (-4). Previous asmt for Georges Bank still considered adequate.
NEFSC	NEFMC	Atlantic cod - Gulf of Maine	2015	4	Full Update	Yes	
NEFSC	NEFMC	Atlantic halibut - Northwestern Atlantic Coast	2015	(-3)	Full Update	See note	Previous asmt for Atlantic halibut still considered adequate.
NEFSC	NEFMC	Atlantic herring - Northwestern Atlantic Coast	2015	5	Full Update	Yes	
NEFSC	NEFMC	Atlantic wolffish - Gulf of Maine / Georges Bank	2012	4	Full Update	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Year	Level ³	Type	Adequate?	
NEFSC	NEFMC	Barndoor skate - Georges Bank / Southern New England	2015	1	Full Update	No	
NEFSC	NEFMC	Clearnose skate - Southern New England / Mid-Atlantic	2015	1	Full Update	No	
NEFSC	NEFMC	Haddock - Georges Bank	2015	4	Full Update	Yes	Asmt conducted on Eastern Georges Bank substock
NEFSC	NEFMC	Haddock - Gulf of Maine	2014	4	Full Update	Yes	
NEFSC	NEFMC	Little skate - Georges Bank / Southern New England	2015	1	Full Update	No	
NEFSC	NEFMC	Ocean pout - Northwestern Atlantic Coast	2015	1	Full Update	No	
NEFSC	NEFMC	Offshore hake - Northwestern Atlantic Coast	2011	-1	Benchmark	No	
NEFSC	NEFMC	Pollock - Gulf of Maine / Georges Bank	2015	4	Full Update	Yes	
NEFSC	NEFMC	Red deepsea crab - Northwestern Atlantic	2008	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	2015	1	Full Update	No	
NEFSC	NEFMC	Sea scallop - Northwestern Atlantic Coast	2015	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	2015	1	Full Update	No	
NEFSC	NEFMC	Thorny skate - Gulf of Maine	2015	1	Full Update	No	
NEFSC	NEFMC	White hake - Gulf of Maine / Georges Bank	2015	4	Full Update	Yes	
NEFSC	NEFMC	Windowpane - Gulf of Maine / Georges Bank	2015	1	Full Update	No	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Year	Level ³	Type	Adequate?	
NEFSC	NEFMC	Windowpane - Southern New England / Mid-Atlantic	2015	1	Full Update	No	
NEFSC	NEFMC	Winter flounder - Georges Bank	2015	4	Full Update	Yes	
NEFSC	NEFMC	Winter flounder - Gulf of Maine	2015	1	Full Update	No	
NEFSC	NEFMC	Winter flounder - Southern New England / Mid-Atlantic	2015	4	Full Update	Yes	
NEFSC	NEFMC	Winter skate - Georges Bank / Southern New England	2015	1	Full Update	No	
NEFSC	NEFMC	Witch flounder - Northwestern Atlantic Coast	2015	4	Full Update	Yes	
NEFSC	NEFMC	Yellowtail flounder - Cape Cod / Gulf of Maine	2015	4	Full Update	Yes	
NEFSC	NEFMC	Yellowtail flounder - Georges Bank	2013	4	Full Update	Yes	2015 indicator analysis now counted as level one assessment
			2015	1	Indicator Analysis		
NEFSC	NEFMC	Yellowtail flounder - Southern New England / Mid-Atlantic	2015	4	Benchmark	Yes	
NEFSC	NEFMC/MAFMC	Goosefish - Gulf of Maine / Northern Georges Bank	2013	4	Full Update	Yes	
NEFSC	NEFMC/MAFMC	Goosefish - Southern Georges Bank / Mid-Atlantic	2013	4	Full Update	Yes	
NEFSC	NEFMC/MAFMC	Spiny dogfish - Atlantic Coast	2014	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Arrowtooth flounder - Pacific Coast	2015	4	Partial Update	Yes	
NWFSC/SWFSC	PFMC	Black rockfish - Northern Pacific Coast	2015	4	Benchmark	No	Benchmark asmt scheduled for FY15 delayed to Q1FY16
NWFSC/SWFSC	PFMC	Black rockfish - Southern Pacific Coast	2015	4	Benchmark	No	Benchmark asmt scheduled for FY15 delayed to Q1FY16
NWFSC/SWFSC	PFMC	Blackgill rockfish - Southern California	2011	4	Benchmark	Yes	
NWFSC/SWFSC	PFMC	Blue rockfish - California	2007	4	New	No	
NWFSC/SWFSC	PFMC	Bocaccio - Southern Pacific Coast	2015	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Brown rockfish - Pacific Coast	2013	3	New	Yes	
NWFSC/SWFSC	PFMC	Cabazon - California	2009	4	Benchmark	No	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Year	Level ³	Type	Adequate?	
NWFSC/ SWFSC	PPMC	California scorpionfish - Southern California	2015	4	Partial Update	Yes	
NWFSC/ SWFSC	PPMC	Canary rockfish - Pacific Coast	2015	4	Benchmark	Yes	
NWFSC/ SWFSC	PPMC	Chilipepper - Southern Pacific Coast	2015	4	Full Update	Yes	
NWFSC/ SWFSC	PPMC	Chinook salmon - Sacramento River Fall	2016	4	Full Update	Yes	Accidentally Reversed
NWFSC/ SWFSC	PPMC	Chinook salmon - Klamath River Fall	2016	3	Full Update	Yes	Accidentally Reversed
NWFSC/ SWFSC	PPMC	Cowcod - Southern California	2013	3	Benchmark	Yes	
NWFSC/ SWFSC	PPMC	Darkblotched rockfish - Pacific Coast	2015	4	Benchmark	Yes	
NWFSC/ SWFSC	PPMC	Dover sole - Pacific Coast	2011	4	Benchmark	Yes	
NWFSC/ SWFSC	PPMC	English sole - Pacific Coast	2013	3	Benchmark	Yes	
NWFSC/ SWFSC	PPMC	Gopher rockfish - Northern California	2005	4	Full Update	No	
NWFSC/ SWFSC	PPMC	Greenspotted rockfish - Pacific Coast	2011	3	New	Yes	
NWFSC/ SWFSC	PPMC	Greenstriped rockfish - Pacific Coast	2009	4	New	No	
NWFSC/ SWFSC	PPMC	Kelp greenling - Oregon	2015	4	Benchmark	Yes	
NWFSC/ SWFSC	PPMC	Lingcod - Pacific Coast	2009	4	Benchmark	No	
NWFSC/ SWFSC	PPMC	Longnose skate - Pacific Coast	2007	4	Full Update	No	
NWFSC/ SWFSC	PPMC	Longspine thornyhead - Pacific Coast	2013	3	Benchmark	Yes	
NWFSC/ SWFSC	PPMC	Pacific ocean perch - Pacific Coast	2011	4	Benchmark	Yes	
NWFSC/ SWFSC	PPMC	Pacific sanddab - Pacific Coast	2013	4	New	Yes	Partial acceptance -- status determinations only
NWFSC/ SWFSC	PPMC	Petrale sole - Pacific Coast	2015	4	Full Update	Yes	
NWFSC/ SWFSC	PPMC	Rex sole - Pacific Coast	2013	3	Full Update	Yes	
NWFSC/ SWFSC	PPMC	Rougheye rockfish - Pacific Coast	2013	4	Full Update	Yes	
NWFSC/ SWFSC	PPMC	Sablefish - Pacific Coast	2015	4	Full Update	Yes	
NWFSC/ SWFSC	PPMC	Shortbelly rockfish - Pacific Coast	2007	4	New	No	
NWFSC/ SWFSC	PPMC	Shortspine thornyhead - Pacific Coast	2013	3	Benchmark	Yes	
NWFSC/ SWFSC	PPMC	Spiny dogfish - Pacific Coast	2011	4	New	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Year	Level ³	Type	Adequate?	
NWFSC/SWFSC	PPMC	Splitnose rockfish - Pacific Coast	2009	4	New	No	
NWFSC/SWFSC	PPMC	Starry flounder - Pacific Coast	2005	4	New	No	
NWFSC/SWFSC	PPMC	Vermilion rockfish - California	2005	-4	New	No	Rejected -- results too uncertain to be considered adequate
NWFSC/SWFSC	PPMC	Widow rockfish - Pacific Coast	2015	4	Benchmark	Yes	
NWFSC/SWFSC	PPMC	Yelloweye rockfish - Pacific Coast	2015	4	Partial Update	Yes	
NWFSC/SWFSC	PPMC	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	Benchmark	No	The 2015 assessment was not accepted as the best scientific information available for use by management, however, 2011 assessment is still considered adequate.
PIFSC	WPFMC	Northern Mariana Islands Bottomfish Multi-species Complex	2015	3	Full Update	Yes	
SEFSC	CFMC	Caribbean Groupers	2014	1	Benchmark	No	Assessment of complex component red hind
SEFSC	CFMC	Caribbean Parrotfish Complex	NA			No	
SEFSC	CFMC	Caribbean Snappers	2012	2	New	No	Assessment of complex component silk snapper
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	Basin-wide assessment of Caribbean spiny lobster.
SEFSC	CFMC	Caribbean spiny lobster - St. Thomas/St. John	2009	2	New	No	Basin-wide assessment of Caribbean spiny lobster.
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
SEFSC	CFMC	Triggerfish and Filefish Complex - St. Thomas/St. John	2013	-1	Benchmark	No	Assessment of queen triggerfish in the Caribbean
SEFSC	GMFMC	Brown shrimp - Gulf of Mexico	2015	4	Full Update	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Year	Level ³	Type	Adequate?	
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	2014	4	Benchmark	Yes	
SEFSC	GMFMC	Hogfish - Eastern Gulf of Mexico	2014	4	Benchmark	Yes	
SEFSC	GMFMC	Pink shrimp - Gulf of Mexico	2015	4	Full Update	Yes	
SEFSC	GMFMC	Red grouper - Gulf of Mexico	2016	4	Benchmark	No	FY15 asmt delayed until FY16.
SEFSC	GMFMC	Red snapper - Gulf of Mexico	2015	4	Full Update	Yes	
SEFSC	GMFMC	Royal red shrimp - Gulf of Mexico	2015	1	Full Update	No	
SEFSC	GMFMC	Tilefish - Gulf of Mexico	2011	4	Benchmark	Yes	
SEFSC	GMFMC	Vermilion snapper - Gulf of Mexico	2016	4	Full Update	Yes	
SEFSC	GMFMC	White shrimp - Gulf of Mexico	2015	4	Full Update	Yes	
SEFSC	GMFMC	Yellowedge grouper - Gulf of Mexico	2010	4	Benchmark	Yes	
SEFSC	HMS	Atlantic sharpnose shark - Atlantic	2013	4	Full Update	Yes	Partial acceptance -- status determinations only
SEFSC	HMS	Atlantic sharpnose shark - Gulf of Mexico	2013	4	Full Update	Yes	Partial acceptance -- status determinations only
SEFSC	HMS	Blacknose shark - Atlantic	2011	4	Full Update	Yes	
SEFSC	HMS	Blacknose shark - Gulf of Mexico	2011	-4	Full Update	No	Assessment previously counted as adequate
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 - Atlantic	2015	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	2011	4	Full Update	Yes	
SEFSC	HMS	Finetooth shark - Atlantic	2007	3	Benchmark	No	
SEFSC	HMS	Porbeagle - Atlantic	2009	4	New	No	Asmt sunset at end of FY15
SEFSC	HMS	Sandbar shark - Atlantic	2011	4	Full Update	Yes	
SEFSC	HMS	Scalloped Hammerhead Complex - Atlantic	2009	3	Unknown	No	Asmt sunset at end of FY15
SEFSC	HMS	Shortfin mako - Atlantic	2012	4	Benchmark	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Year	Level ³	Type	Adequate?	
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	2013	4	Benchmark	Yes	
SEFSC	SAFMC	Brown rock shrimp - Southern Atlantic Coast	2015	1	Full Update	No	
SEFSC	SAFMC	Brown shrimp - Southern Atlantic Coast	2015	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	2014	4	Benchmark	Yes	
SEFSC	SAFMC	Pink shrimp - Southern Atlantic Coast	2014	1	Full Update	No	
SEFSC	SAFMC	Red grouper - Southern Atlantic Coast	2010	4	Benchmark	No	Asmt sunset at end of FY15. Next asmt has been rescheduled for FY2017
SEFSC	SAFMC	Red porgy - Southern Atlantic Coast	2012	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	2001	2	Unknown	No	
SEFSC	SAFMC	Tilefish - Southern Atlantic Coast	2016	4	Full Update	Yes	
SEFSC	SAFMC	Vermilion snapper - Southern Atlantic Coast	2012	4	Full Update	Yes	
SEFSC	SAFMC	Warsaw grouper - Southern Atlantic Coast	2001	2	Unknown	No	
SEFSC	SAFMC	White shrimp - Southern Atlantic Coast	2015	1	Full Update	No	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Year	Level ³	Type	Adequate?	
SEFSC	SAFMC/ GMFMC	Caribbean spiny lobster - Southern Atlantic Coast / Gulf of Mexico	2010	(-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	2012	4	Benchmark	Yes	
SWFSC	PFMC	Northern anchovy - Southern Pacific Coast	1995	0	Unknown	No	
SWFSC	PFMC	Opalescent inshore squid - Pacific Coast	2006	2	New	No	
SWFSC	PFMC	Pacific chub mackerel - Pacific Coast	2015	4	Benchmark	Yes	
SWFSC	PFMC	Pacific sardine - Pacific Coast	2016	5	Full Update	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.



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