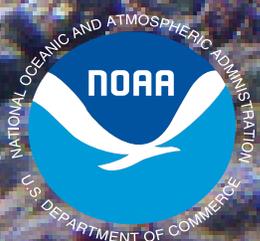
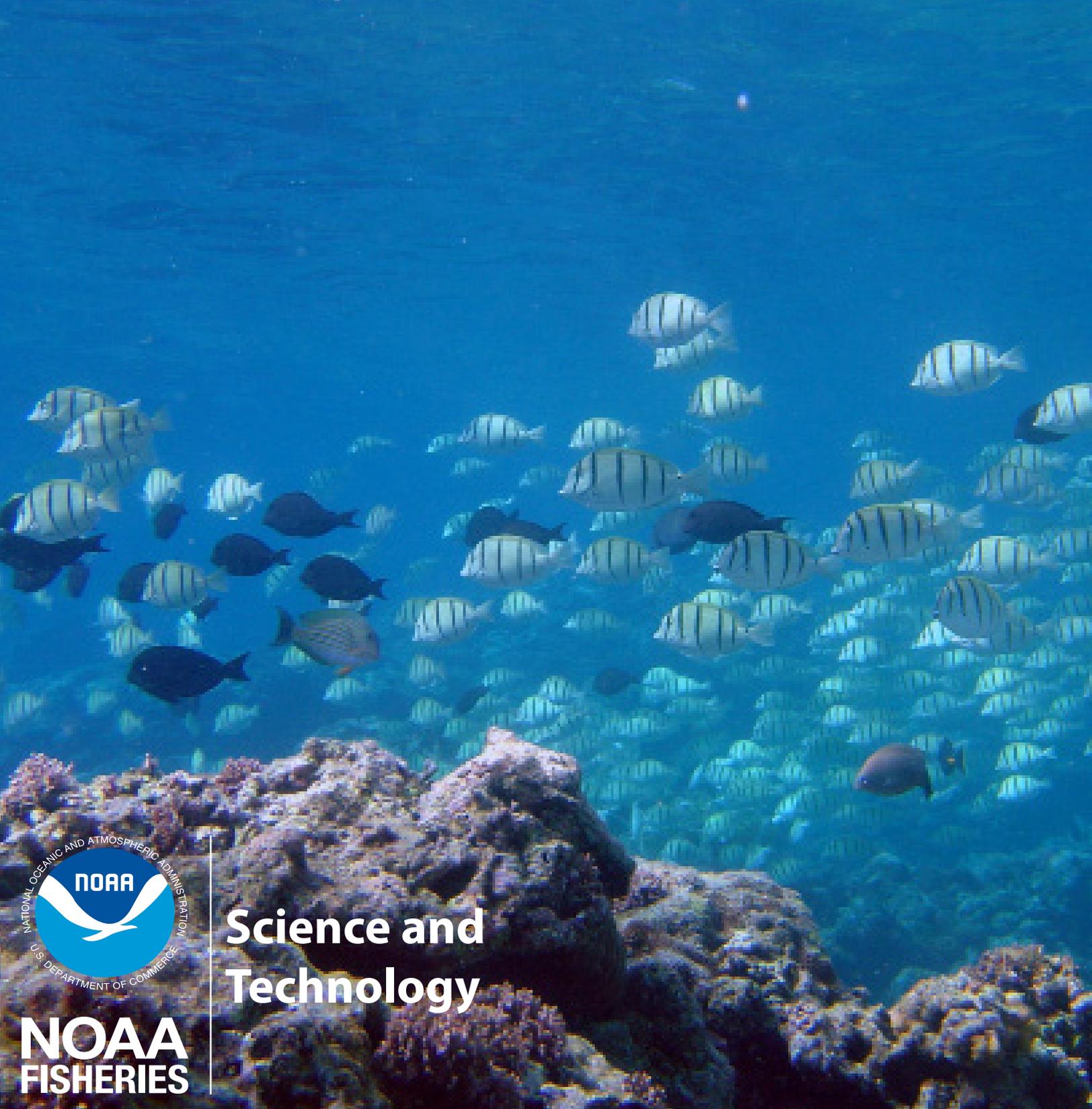


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Fish Assessment Report

FY 2017 Quarter 1 Update



NOAA
FISHERIES

**Science and
Technology**

Overview

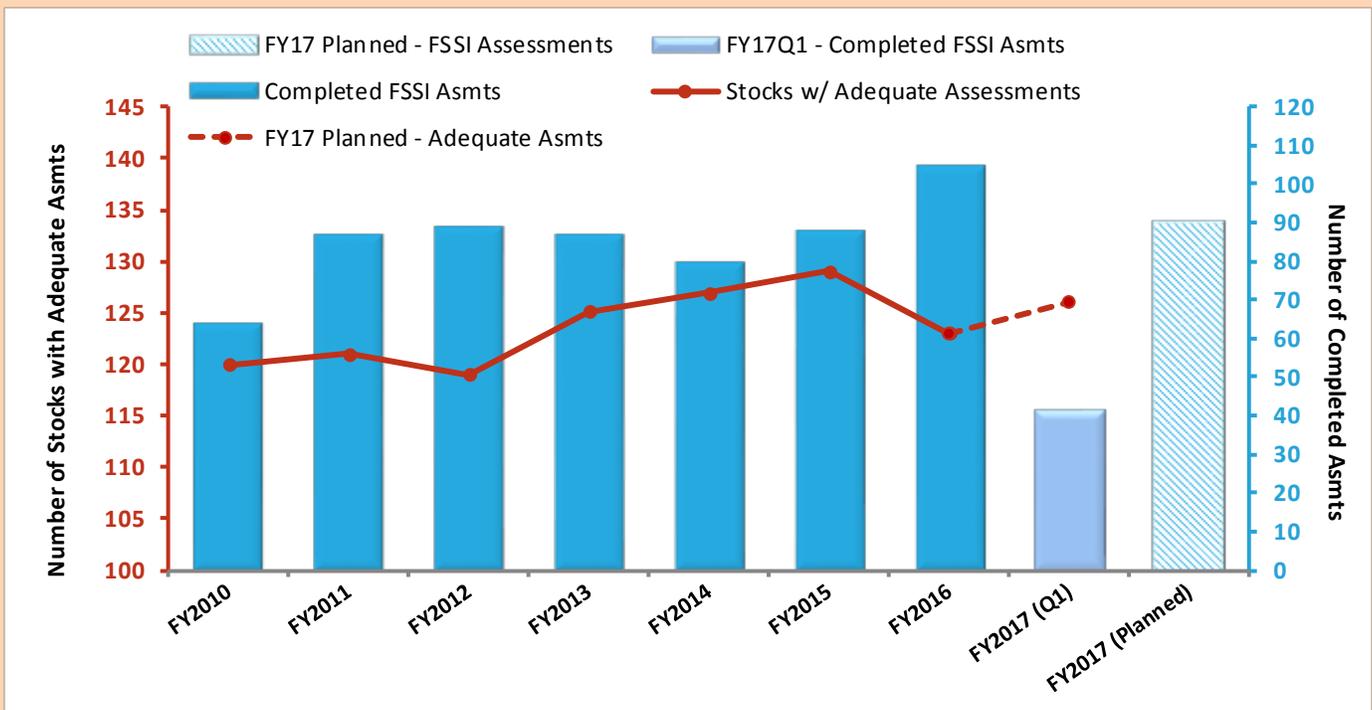
Stock assessments are key to sustainable fisheries management. They provide scientific information to determine the status of fish stocks and to set annual catch limits (ACLs) that prevent overfishing and optimize yield from our Nation's fisheries. This Fish Assessment Report provides a quarterly update 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 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 tracked as components of 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 FY2017 NOAA Fisheries plans to complete assessments for 90 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 FY2017 NOAA Fisheries plans to complete 139 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). At the end of Q1 FY2017 123 of 199 (61.8%) FSSI stocks have adequate assessments. This is projected to increase to 126 of 199 (63.3%) by the end of the fiscal year.

Assessments this Quarter

During Quarter 1, 67 stocks were assessed, including 41 FSSI and 26 non-FSSI stocks

During Quarter 1, 41 assessments were completed for FSSI stocks and stock complexes. In addition, 26 assessments were completed for non-FSSI stocks and stock complexes (see Table 1). All of the assessments completed this quarter were conducted at either the Alaska Fisheries Science Center (AFSC) or the Southeast Fisheries Science Center (SEFSC).

The AFSC completes its annual groundfish assessments in Q1 for 31 FSSI and 22 non-FSSI stocks and stock complexes. This process has been in place for over 35 years, and has helped to make Alaska's groundfish stocks a model of sustainable management. Currently, none of Alaska's groundfish stocks are overfished or undergoing overfishing, and the status of the stocks continues to appear favorable. The AFSC also assessed six crab stocks in Q1 FY2017. All of them were FSSI stocks and included two blue king crab stocks, two red king crab stocks, and the Bering Sea stocks of snow crab and southern tanner crab.

Eight stocks assessments were conducted at the SEFSC during Q1 FY2017. Four of those were the

Southern Atlantic Coast shrimp stocks of brown, pink, white, and brown rock shrimp. These stocks are all FSSI stocks that are assessed annually. The remaining non-FSSI assessments included three HMS stocks: Albacore - North Atlantic, Sailfish - Western Atlantic, and Yellowfin tuna - Atlantic. An assessment of Goliath grouper - Southern Atlantic Coast / Gulf of Mexico was also completed but was not successful due to concerns regarding data quality.

Five assessments initially planned for Q1 FY2017 were delayed. Four of those assessments were for the Gulf of Mexico shrimp stocks of brown, pink, white, and royal red shrimp, which are all FSSI stocks. These delays occurred because of an error in the catch database used to inform the assessment. The issue is now resolved, and the assessments are now planned for Q2. The other delayed assessment was the Mid-Atlantic coast stock of Atlantic surfclam due to timing of the assessment review process.

At the end of Q1 FY2017, the percentage of FSSI stocks with adequate assessments is 61.8% (123/199). See description of "adequate" on the following page.

Table 1. FY2017 Completed Assessments

Science Center(s)	Quarter 1		Quarter 1 Highlights
	FSSI	Non - FSSI	
Northeast	0	0	None planned
Southeast	4	4	Southern Atlantic coast shrimp stocks, Albacore - North Atlantic, Sailfish - Western Atlantic, and Yellowfin tuna - Atlantic
Northwest and Southwest ¹	0	0	None planned
Southwest	0	0	None planned
Alaska	37	22	Alaska groundfish stocks including CIE reviews ³ for Pacific cod - Bering Sea, Sablefish - Eastern Bering Sea / Aleutian Islands / Gulf of Alaska, and Walleye pollock - Western / Central Gulf of Alaska
Pacific Islands	0	0	None planned
Southwest and Pacific Islands ²	0	0	None planned

Footnotes:

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

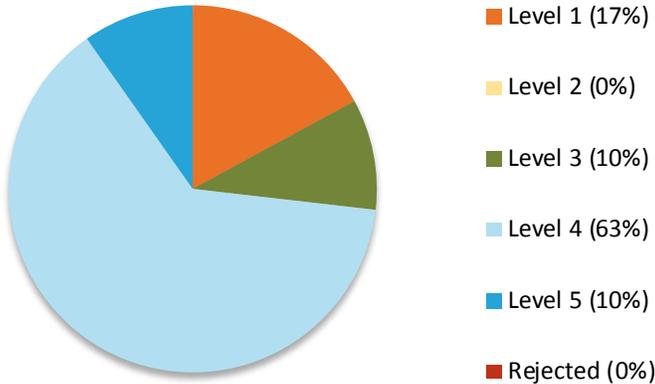
² The Southwest and Pacific Islands Fisheries Science Centers jointly conduct assessments for U.S. West Coast Fisheries for Highly Migratory Species and Pacific Pelagic Fisheries of the Western Pacific Region Ecosystem.

³ The Center for Independent Experts (CIE) provides external, independent and expert reviews of the agency's influential science used for policy decisions.

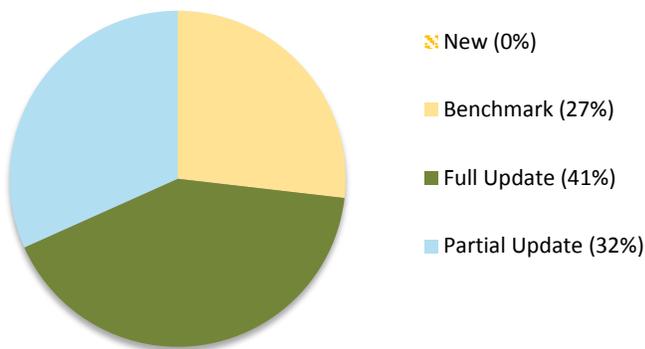
Model Complexity and Assessment Type

In Q1 FY2017, 41 FSSI stocks were assessed. Eleven assessments were conducted as benchmarks, 17 were full updates, and 13 were partial updates. Thirty-four of those assessments provide the full suite of assessment advice and are considered adequate (level 3 or higher). Twenty-six non-FSSI stock assessments were completed, of which 18 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 seven FSSI stocks. 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 FY2017 are shown in the figures below.

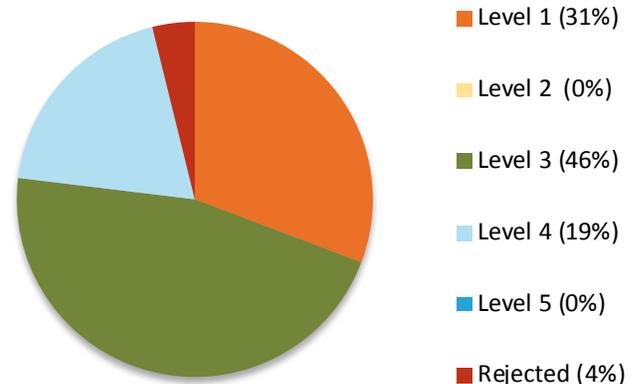
FSSI Assessment Levels



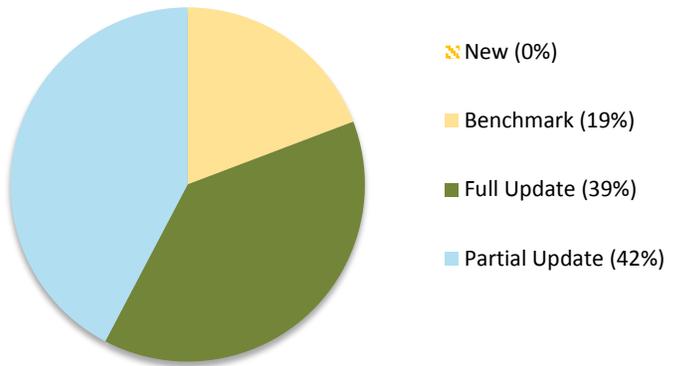
FSSI Assessment Types



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 to develop catch advice

Quarterly Highlight: Alaska Sablefish

Alaska Sablefish (*Anoplopoma fimbria*) is one of the deepest dwelling commercially valuable species in the North Pacific. The stock has been harvested commercially since the beginning of the 20th century and has been valued at an average of \$110 million (ex-vessel) over the past five years. Sablefish is managed using an individual fishing quota system, whereby individual fishermen receive annual catch allotments. The quantity of those allotments is determined using the results of an annual stock assessment.



Sablefish (*Anoplopoma fimbria*)

The latest stock assessment for sablefish included improvements that resulted in a more holistic, ecosystem-linked approach. The assessment model incorporated the effects of depredation by Alaska's whale populations. Depredation refers to the consumption of sablefish off fishing gear during its retrieval and is a behavior observed in killer whales and sperm whales. Killer whale depredation is overt and relatively easy to detect. Sperm whale depredation is more subtle; however, evidence of its presence has increased over time. Alaska Fisheries Science Center staff used data collected from survey longline sets to estimate that sperm whale depredation reduced catch rates by 12% - 18% at affected sets. They also examined the effects of depredation upon commercial fishery catch rates. At affected sites, killer whale depredation reduced catch by 45% - 70% and sperm whale depredation reduced catch by 24% - 29%.



Evidence of whale depredation.

This year's stock assessment model incorporated the effects of depredation upon both the longline survey and the commercial fishery catch totals. The changes in the survey catch rates resulted in a 3% increase in the model's estimate of female spawning biomass. Accounting for whale depredation in the commercial longline fishery increased the estimated total annual mortality related to fishing activity. From 1995 - 2016 this increase ranged from 69 t - 683 t due to killer whales in western Alaska and from 2001 - 2016 this increase ranged from 48 t - 328 t due to sperm whales in the Gulf of Alaska. In the end, the improvements made to the stock assessment model resulted in increased quota recommendations for all of Alaska's management areas that ranged from 6% - 12%.



Killer Whale (*Orcinus orca*) Credit: Kari Fenske

This stock assessment highlights how improved science can directly result in economic benefits. With a more holistic and ecosystem-linked understanding of a stock, the management advice produced by scientific stock assessments can more accurately estimate current abundance. These improved estimates result in harvest recommendations that are more likely to optimize yield while preventing overfishing.

While research on whale depredation has improved our understanding of sablefish stock dynamics, overall abundance has declined in recent years. Harvest quotas have fallen by approximately 50% over the past 10 years to account for this. Fortunately, the stock is currently not overfished nor undergoing overfishing. Sablefish was recently identified as a focal species in a Gulf of Alaska Integrated Ecosystem Research Project (involving government agencies and academic institutions). The scientists working on this project hope to increase our understanding of the connections between sablefish stock productivity and environmental processes. The results of this work will continue to improve the sablefish stock assessment and help maintain the health of this important resource.

Upcoming Assessments & Survey Activity

During the remainder of FY2017 NOAA Fisheries plans to complete an additional 49 assessments for FSSI stocks and 113 assessments of non-FSSI stocks, for a total of 229 assessments. This is the second-largest total it has ever attempted during one fiscal year, and if completed would be its largest single-year assessment total. 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 FY2017 can be found in the supporting appendices of this report. Appendix A details FY2017 completed assessments for FSSI stocks. Appendix B details FY2017 completed assessments for non-FSSI stocks. Appendix C provides a list of the planned assessments remaining for both FSSI and non-FSSI stocks in FY2017. Appendix D provides the assessment status of FSSI stocks. These appendices

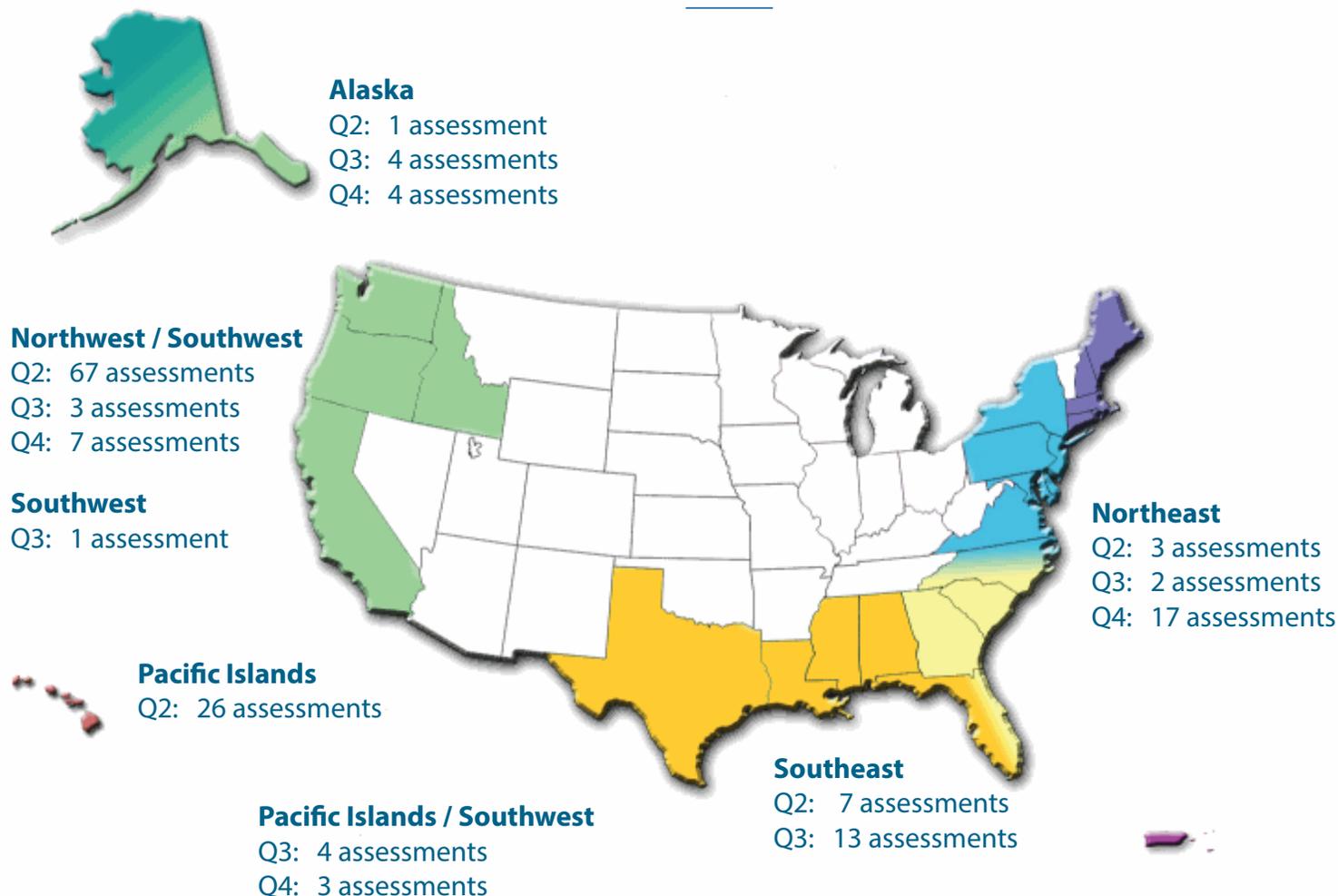
provide the best available information available at the time of reporting and are subject to change. Changes, other than those related to assessment completion, are noted in red.

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 Q1 FY2017.¹ For the remainder of the year, a total of 50 additional surveys are planned.

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>



FY2017 assessments to be conducted, by quarter, 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 FY17).

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	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	

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

Science Center(s) ¹	Jurisdiction ²	Stock	Asmt Level ³	Asmt Type	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		
AFSC	NPFMC	Southern Tanner crab - Bering Sea	4	Full Update		
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	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	
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 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	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	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	
SEFSC	SAFMC / GMFMC	Goliath grouper - Southern Atlantic Coast / Gulf of Mexico	-1	Benchmark	Assessment was rejected due to model uncertainty

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Footnotes

¹NOAA Fisheries Science Centers include Alaska Fisheries Science Center (AFSC), Northeast Fisheries Science Center (NEFSC), Northwest Fisheries Science Center (NWFS), 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 FY2017 by quarter. Information is best available provided by NOAA Fisheries Science Centers and subject to change.

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

Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
AFSC	IPHC	NF	Pacific halibut - Pacific Coast / Alaska	5	Full Update	
AFSC	NPFMC	FSSI	Red king crab - Norton Sound	4	Full Update	
NEFSC	MAFMC	FSSI	Atlantic surfclam - Mid-Atlantic Coast	4	Benchmark	Delayed from Q4 FY16, Q4 Data Update scheduled
NEFSC	MAFMC	FSSI	Black sea bass - Mid-Atlantic Coast	4	Benchmark	
NEFSC	NEFMC	FSSI	Witch flounder - Northwestern Atlantic Coast	4	Benchmark	
NW/SW	PFMC	INT	Pacific hake - Pacific Coast	4	Update	
NW/SW	PFMC	FSSI	Chinook salmon - California Central Valley: Sacramento (fall)	3	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - California Central Valley: Sacramento (spring)	1	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - California Central Valley: Sacramento (winter)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Columbia River Basin: Lower River Hatchery (fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Columbia River Basin: Lower River Hatchery (spring)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Columbia River Basin: Mid-River Bright Hatchery (fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Columbia River Basin: North Lewis (fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Columbia River Basin: Snake (fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Columbia River Basin: Snake (spring/summer)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Columbia River Basin: Spring Creek Hatchery (fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Columbia River Basin: Upper River (spring)	4	Update	
NW/SW	PFMC	INT	Chinook salmon - Columbia River Basin: Upper River (summer)	4	Update	
NW/SW	PFMC	INT	Chinook salmon - Columbia River Basin: Upper River Bright (fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Columbia River Basin: Upper Willamette (spring)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Northern California Coast: Eel, Mattole, and Mad (fall/spring) <i>(California Coastal)</i>	1	Update	
NW/SW	PFMC	FSSI	Chinook salmon - Northern California Coast: Klamath (fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Northern California Coast: Klamath (spring)	4	Update	

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 2 (January - March, 2017)						
Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
NW/SW	PFMC	INT	Chinook salmon - Oregon Coast: Central and Northern	3	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Oregon Coast: Southern	3	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Cedar (summer/fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Eastern Strait of Juan de Fuca (summer/fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Green (summer/fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Mid Hood Canal (summer/fall)	1	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Nisqually (summer/fall)	1	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Nooksack (spring early)	4	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Puyallup (summer/fall)	3	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Skagit (spring)	3	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Skagit (summer/fall)	5	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Skokomish (summer/fall)	1	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Snohomish (summer/fall)	5	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: Stillaguamish (summer/fall)	5	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Puget Sound: White River (spring)	3	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Grays Harbor (fall)	1	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Grays Harbor (spring)	1	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Hoh (fall)	1	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Hoh (spring/summer)	1	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Hoko (summer/fall)	4	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Queets (fall)	5	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Queets (spring/summer)	2	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Quillayute (fall)	2	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Quillayute (spring/summer)	1	Update	
NW/SW	PFMC	Non - FSSI	Chinook salmon - Washington Coast: Quinault Fall (hatchery)	4	Update	

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 2 (January - March, 2017)						
Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
NW/SW	PFMC	Non - FSSI	Chinook salmon - Washington Coast: Willapa Bay Fall (hatchery)	4	Update	
NW/SW	PFMC	INT	Chinook salmon - Washington Coast: Willapa Bay Fall (natural)	4	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Oregon Production Index Area: Central California Coast	1	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Oregon Production Index Area: Columbia (early hatchery)	4	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Oregon Production Index Area: Columbia (late hatchery)	4	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Oregon Production Index Area: Columbia (natural)	4	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Oregon Production Index Area: Southern Oregon / Northern California Coast	1	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Oregon Production Index Area: Oregon Coastal (hatchery)	1	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Oregon Production Index Area: Oregon Coastal (natural)	5	Update	
NW/SW	PFMC	INT	Coho salmon - Puget Sound: Hood Canal	4	Update	
NW/SW	PFMC	INT	Coho salmon - Puget Sound: Skagit	5	Update	
NW/SW	PFMC	INT	Coho salmon - Puget Sound: Snohomish	4	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Puget Sound: South Puget Sound (hatchery)	4	Update	
NW/SW	PFMC	INT	Coho salmon - Puget Sound: Stillaguamish	4	Update	
NW/SW	PFMC	INT	Coho salmon - Washington Coast: Grays Harbor	5	Update	
NW/SW	PFMC	INT	Coho salmon - Washington Coast: Hoh	5	Update	
NW/SW	PFMC	INT	Coho salmon - Washington Coast: Queets	5	Update	
NW/SW	PFMC	INT	Coho salmon - Washington Coast: Quillayute (fall)	4	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Washington Coast: Quillayute (summer)	4	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Washington Coast: Quinalt	1	Update	
NW/SW	PFMC	INT	Coho salmon - Washington Coast: Strait of Juan de Fuca	5	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Washington Coast: Willapa Bay	5	Update	
NW/SW	PFMC	Non - FSSI	Coho salmon - Washington Coast: Willapa Bay (natural)	5	Update	
NW/SW	PFMC	INT	Pink salmon - Puget Sound (odd-numbered years)	1	Update	
PIFSC	WPFMC	Non - FSSI	Doublebar goatfish - Main Hawaiian Islands	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Parupeneus porphyreus: Whitesaddle goatfish - Main Hawaiian Islands	2	New	Delayed from Q1 FY16

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 2 (January - March, 2017)						
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: Yellowfin goatfish - Main Hawaiian Islands	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Mulloidichthys flavolineatus- Yellowstripe goatfish	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Cephalopholis argus - Peacock hind - Main Hawaiian Islands	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Caranx ignobilis - Main Hawaiian Islands Jack	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Caranx melampygus - Main Hawaiian Islands Jack -	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Chlorurus spilurus -Bullethead parrotfish	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Lutjanus fulvus - Blacktail snapper	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Bicolor parrotfish - Main Hawaiian Islands (Scarus psittacus)	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Scarus psittacus - Palenose parrotfish	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Acanthurus dussumieri (Eyestripe surgeonfish)	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Naso brevirostris	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Naso hexacanthus	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Naso lituratus	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Naso unicornis	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Mulloidichthys pflugeri - Orange goatfish - Main Hawaiian Islands	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Parupeneus cyclostomus - Yellowsaddle goatfish - Main Hawaiian Islands	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Monotaxis grandoculis-Bigeye Emperor	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Bigscale soldierfish - Main Hawaiian Islands (Myripristis berntdi)	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	<i>Acanthurus blochii</i>	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	<i>Calotomus carolinus</i>	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Chlorurus perspicillatus - Main Hawaiian Islands	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	Scarus dubius - Main Hawaiian Islands	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	<i>Carangoides orthogrammus</i>	2	New	Delayed from Q1 FY16
PIFSC	WPFMC	Non - FSSI	<i>Seriola dumerili</i>	2	New	Delayed from Q1 FY16
SEFSC	GMFMC	FSSI	Brown shrimp - Gulf of Mexico	4	Full Update	

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 2 (January - March, 2017)						
Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
SEFSC	GMFMC	FSSI	Gag - Gulf of Mexico	4	Update	
SEFSC	GMFMC	FSSI	Greater amberjack - Gulf of Mexico	4	Update	
SEFSC	GMFMC	FSSI	Pink shrimp - Gulf of Mexico	4	Full Update	
SEFSC	SAFMC	FSSI	Red grouper - Southern Atlantic Coast	4	Standard	
SEFSC	GMFMC	FSSI	Royal red shrimp - Gulf of Mexico	1	Full Update	
SEFSC	GMFMC	FSSI	White shrimp - Gulf of Mexico	4	Full Update	
Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 3 (April - June, 2017)						
Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
AFSC	NPFMC	FSSI	Golden king crab - Aleutian Islands	1	Full Update	
AFSC	NPFMC	Non - FSSI	Golden king crab - Pribilof Islands	1	Full Update	
AFSC	NPFMC	Non - FSSI	Red king crab - Western Aleutian Islands	1	Full Update	
AFSC	NPFMC	Non - FSSI	Weathervane scallop - Alaska	1	Full Update	
NEFSC	MAFMC	FSSI	Ocean quahog - Atlantic Coast	4	Benchmark	
NEFSC	MAFMC	FSSI	Tilefish - Mid-Atlantic Coast	4	Full Update	
NW/SW	PFMC	FSSI	Blackgill rockfish - Southern California	4	Full Update	
NW/SW	PFMC	FSSI	Bocaccio - Southern Pacific Coast	4	Full Update	
NW/SW	PFMC	FSSI	Darkblotched rockfish - Pacific Coast	4	Full Update	
Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 3 (April - June, 2017)						
Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
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
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	Non - FSSI	Speckled hind - Gulf of Mexico	4	New	
SEFSC	GMFMC	Non - FSSI	Snowy Grouper - Gulf of Mexico	4	New	
SEFSC	GMFMC	Non - FSSI	Almaco jack - Gulf of Mexico	4	New	
SEFSC	GMFMC	Non - FSSI	Lesser amberjack - Gulf of Mexico	4	New	
SEFSC	GMFMC	Non - FSSI	Wenchman -Gulf of Mexico	4	New	
SEFSC	GMFMC	Non - FSSI	Lane snapper - Gulf of Mexico	4	New	
SEFSC	SAFMC	FSSI	Black sea bass - Southern Atlantic Coast	4	Standard	
SW/PI	PFMC / WPFMC	INT	Bigeye tuna - Eastern Pacific	4	Full Update	

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 3 (April - June, 2017)						
Science Center(s) ¹	Jurisdiction ²	FSSI / Non-FSSI ³	Stock	Planned Asmt Level ⁴	Planned Asmt Type	Notes
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	Yellowfin tuna - Eastern Pacific	4	Full Update	
SWFSC	PFMC	FSSI	Pacific sardine - Pacific Coast	4	Benchmark	
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 - Hugh Smith Lake	4	Full Update	
AFSC	NPFMC	Non - FSSI	Chinook salmon - Eastern North Pacific Far North Migrating	4	Full Update	
NEFSC	MAFMC	FSSI	Atlantic mackerel - Gulf of Maine / Cape Hatteras	NA	Data Update	Assessment Type Under Review
NEFSC	MAFMC	FSSI	Atlantic surfclam - Mid-Atlantic Coast	NA	Data Update	Assessment Type Under Review
NEFSC	MAFMC	FSSI	Bluefish - Atlantic Coast	4	Full Update	
NEFSC	MAFMC	FSSI	Butterfish - Gulf of Maine / Cape Hatteras	5	Full Update	
NEFSC	MAFMC	FSSI	Longfin inshore squid - Georges Bank / Cape Hatteras	1	Full Update	
NEFSC	MAFMC	FSSI	Northern shortfin squid - Northwestern Atlantic Coast	NA	Data Update	Assessment Type Under Review
NEFSC	MAFMC	FSSI	Scup - Atlantic Coast	NA	Data Update	Assessment Type Under Review
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	Notes
NEFSC	MAFMC	FSSI	Summer flounder - Mid-Atlantic Coast	NA	Data Update	Assessment Type Under Review
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	

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Planned Assessments for FSSI and Non-FSSI Stocks - FY2017 Quarter 4 (July - September, 2017)						
Science Center(s)¹	Jurisdiction²	FSSI / Non-FSSI³	Stock	Planned Asmt Level⁴	Planned Asmt Type	Notes
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	Arrowtooth flounder - Pacific Coast	4	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	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	
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</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>						

Appendix D. Assessment status for FSSI stocks and stock complexes at the end of Q1 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	2017	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 Roughey 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	2016	1	Full Update	No	
AFSC	NPFMC	Greenland halibut - Bering Sea / Aleutian Islands	2017	4	Benchmark	Yes	
AFSC	NPFMC	Gulf of Alaska Blackspotted and Roughey 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	2016	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	Indicator Analysis		
NEFSC	MAFMC	Atlantic surfclam - Mid-Atlantic Coast	2013	4	Benchmark	Yes	Planned 2016 Benchmark delayed to FY 2017 Q2
			2016	1	Indicator Analysis		
NEFSC	MAFMC	Black sea bass - Mid-Atlantic Coast	2012	4	Full Update	No	
			2016	1	Indicator Analysis		
NEFSC	MAFMC	Bluefish - Atlantic Coast	2015	4	Benchmark	Yes	
			2016	1	Indicator Analysis		
NEFSC	MAFMC	Butterfish - Gulf of Maine / Cape Hatteras	2014	5	Benchmark	Yes	
			2016	1	Indicator Analysis		
NEFSC	MAFMC	Longfin inshore squid - Georges Bank / Cape Hatteras	2016	1	Indicator Analysis	No	
NEFSC	MAFMC	Northern shortfin squid - Northwestern Atlantic Coast	2005	2	Benchmark	No	
			2016	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	
			2016	1	Indicator Analysis		
NEFSC	MAFMC	Summer flounder - Mid-Atlantic Coast	2016	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	2016	4	Full Update	Yes	
NEFSC	NEFMC	American plaice - Gulf of Maine / Georges Bank	2016	4	Full Update	Yes	
NEFSC	NEFMC	Atlantic cod - Georges Bank	2016	(-4)	Full Update	Yes	Asmts conducted on Eastern Georges Bank substock (4, Full Update, 2016) and Georges Bank (-4). Previous asmt for Georges Bank still considered adequate.
NEFSC	NEFMC	Atlantic cod - Gulf of Maine	2016	4	Full Update	Yes	
NEFSC	NEFMC	Atlantic halibut - Northwestern Atlantic Coast	2016	(-3)	Full Update	No	
NEFSC	NEFMC	Atlantic herring - Northwestern Atlantic Coast	2015	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	NEFMC	Atlantic wolffish - Gulf of Maine / Georges Bank	2016	4	Full Update	Yes	
NEFSC	NEFMC	Barndoor skate - Georges Bank / Southern New England	2016	1	Full Update	No	
NEFSC	NEFMC	Clearence skate - Southern New England / Mid-Atlantic	2016	1	Full Update	No	
NEFSC	NEFMC	Haddock - Georges Bank	2016	4	Full Update	Yes	Asmts conducted on Eastern Georges Bank substock (4, Partial Update, 2016) and Georges Bank
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	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	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	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
NEFSC	NEFMC	White hake - Gulf of Maine / Georges Bank	2016	4	Full Update	Yes	
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	2016	4	Full Update	Yes	
NEFSC	NEFMC	Yellowtail flounder - Cape Cod / Gulf of Maine	2016	4	Full Update	Yes	
NEFSC	NEFMC	Yellowtail flounder - Georges Bank	2013	4	Full Update	Yes	
			2016	1	Indicator Analysis		
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	1	Indicator Analysis		
NEFSC	NEFMC/MAFMC	Goosefish - Southern Georges Bank / Mid-Atlantic	2013	4	Full Update	Yes	
			2016	1	Indicator Analysis		
NEFSC	NEFMC/MAFMC	Spiny dogfish - Atlantic Coast	2014	4	Full Update	Yes	
			2016	1	Indicator Analysis		
NWFSC/SWFSC	PFMC	Arrowtooth flounder - Pacific Coast	2015	4	Partial 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	2011	4	Benchmark	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	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	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	2016	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Chinook salmon - Klamath River Fall	2016	3	Full Update	Yes	
NWFSC/SWFSC	PFMC	Cowcod - Southern California	2013	3	Benchmark	Yes	
NWFSC/SWFSC	PFMC	Darkblotched rockfish - Pacific Coast	2015	4	Benchmark	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	2005	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	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
NWFSC/SWFSC	PFMC	Sablefish - Pacific Coast	2015	4	Full Update	Yes	
NWFSC/SWFSC	PFMC	Shortbelly rockfish - Pacific Coast	2007	4	New	No	
NWFSC/SWFSC	PFMC	Shortspine thornyhead - Pacific Coast	2013	3	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	Rejected -- results too uncertain to be considered adequate
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	Benchmark	No	
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	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	

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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 - 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, Assessment planned for FY16 Delayed
SEFSC	GMFMC	Brown shrimp - Gulf of Mexico	2016	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	2014	4	Benchmark	Yes	
SEFSC	GMFMC	Hogfish - Eastern Gulf of Mexico	2014	4	Benchmark	Yes	
SEFSC	GMFMC	Pink shrimp - Gulf of Mexico	2016	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	2016	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	2016	4	Full Update	Yes	
SEFSC	GMFMC	Yellowedge grouper - Gulf of Mexico	2010	4	Benchmark	No	
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	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	No	
SEFSC	HMS	Blue shark - 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

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
SEFSC	HMS	Dusky shark - Atlantic	2016	4	Full Update	Yes	
SEFSC	HMS	Finetooth shark - Atlantic	2007	3	Benchmark	No	
SEFSC	HMS	Porbeagle - Atlantic	2009	4	New	No	
SEFSC	HMS	Sandbar shark - Atlantic	2011	4	Full Update	No	
SEFSC	HMS	Scalloped Hammerhead Complex - Atlantic	2009	3	Unknown	No	
SEFSC	HMS	Shortfin mako - Atlantic	2012	4	Benchmark	No	
SEFSC	SAFMC	Black grouper - Southern Atlantic Coast	2010	4	Benchmark	No	
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	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	2014	4	Benchmark	Yes	
SEFSC	SAFMC	Pink shrimp - Southern Atlantic Coast	2017	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	No	
SEFSC	SAFMC	Red snapper - Southern Atlantic Coast	2016	4	Benchmark	Yes	
SEFSC	SAFMC	Snowy grouper - Southern Atlantic Coast	2014	4	Unknown	Yes	

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Science Center(s) ¹	Jurisdiction ²	Stock	Last Assessment				Assessment Notes
			Fiscal Year	Level ³	Type	Adequate?	
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	No	
SEFSC	SAFMC	Warsaw grouper - Southern Atlantic Coast	2001	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	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	No	
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

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			Fiscal Year	Level ³	Type	Adequate?	

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.htm>). 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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