

National Marine Fisheries Service

Quarter 3 Fiscal Year 2021

Appendix B. Completed sock assessments of Non-FSSI stocks in quarters one, two, and three of fiscal year 2021. Information represents the best available knowledge at the time of reporting, and is subject to change.

Completed Assessments for Non-FSSI Stocks - FY 2021 Quarter 1 (October - December, 2020)

Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Notes
AFSC	NPFMC	Bering Sea / Aleutian Islands Blackspotted and Rougheye Rockfish Complex	6	Stock Monitoring Update	
AFSC	NPFMC	Bering Sea / Aleutian Islands Other Flatfish Complex	2	Operational Stock Assessment	
AFSC	NPFMC	Bering Sea / Aleutian Islands Other Rockfish Complex	2	Operational Stock Assessment	
AFSC	NPFMC	Dover sole - Gulf of Alaska	6	Operational Stock Assessment	
AFSC	NPFMC	Gulf of Alaska Shark Complex	2	Operational Stock Assessment	
AFSC	NPFMC	Shortraker rockfish - Bering Sea / Aleutian Islands	2	Operational Stock Assessment	
AFSC	NPFMC	Walleye pollock - Southeast Gulf of Alaska	2	Operational Stock Assessment	
AFSC	Non-Federal	Pacific halibut - Pacific Coast / Alaska	6	Operational Stock Assessment	Does not count toward assessment totals for FY21
AFSC	Non-Federal	Pacific grenadier - Bering Sea / Aleutian Islands	2	Operational Stock Assessment	Not on initial schedule, does not count toward assessment totals for FY21
AFSC	Non-Federal	Pacific grenadier - Gulf of Alaska	2	Operational Stock Assessment	Not on initial schedule, does not count toward assessment totals for FY22
SEFSC	HMS	Albacore - North Atlantic	5	Operational Stock Assessment	Not on initial schedule
SEFSC	HMS	Bluefin tuna - Western Atlantic	6	Operational Stock Assessment	Not on initial schedule
SWFSC / PIFSC	PFMC	Yellowfin tuna - Eastern Pacific	6	Operational Stock Assessment	Completed early, Scheduled for Quarter 3
SWFSC / PIFSC	WPFMC	Yellowfin tuna - Western and Central Pacific	6	Operational Stock Assessment	Completed early, Scheduled for Quarter 3, absent from Q2 Report

Completed Assessments for Non-FSSI Stocks - FY 2021 Quarter 2 (January - March, 2021)

Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Notes
NWFSC / SWFSC	PFMC	Chinook salmon - California Central Valley: Sacramento River Spring	2	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - California Central Valley: Sacramento River Winter	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Lower River Hatchery Fall	4	Operational Stock Assessment	

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NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Lower River Hatchery Spring	2	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Mid-River Bright Hatchery Fall	4	Operational Stock Assessment	
Completed Assessments for Non-FSSI Stocks - FY 2021 Quarter 2 (January - March, 2021)					
Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Notes
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: North Lewis River Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Snake River Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Snake River Spring/Summer	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Spring Creek Hatchery Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Upper River Bright Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Upper River Spring	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Upper River Summer	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Columbia River Basin: Upper Willamette Spring	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Northern California Coast: California Coastal	2	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Oregon Coast: Central and Northern Oregon	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Oregon Coast: Southern Oregon	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Cedar River Summer/Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Eastern Strait of Juan de Fuca Summer/Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Green River Summer/Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Mid Hood Canal Summer/Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Nisqually River Summer/Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Nooksack Spring Early	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Puyallup Summer/Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Skagit Spring	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Skagit Summer/Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Skokomish Summer/Fall	2	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Snohomish Summer/Fall	4	Operational Stock Assessment	

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NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: Stillaguamish Summer/Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Puget Sound: White River Spring	3	Operational Stock Assessment	
Completed Assessments for Non-FSSI Stocks - FY 2021 Quarter 2 (January - March, 2021)					
Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Notes
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Grays Harbor Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Grays Harbor Spring	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Hoh Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Hoh Spring/Summer	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Hoko Summer/Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Queets Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Queets Spring/Summer	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Quillayute Fall	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Quillayute Spring/Summer	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Quinalt Fall Hatchery	2	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Willapa Bay Fall Hatchery	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Chinook salmon - Washington Coast: Willapa Bay Fall Natural	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Oregon Production Index Area: Central California Coast	2	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Oregon Production Index Area: Columbia River Early Hatchery	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Oregon Production Index Area: Columbia River Late Hatchery	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Oregon Production Index Area: Lower Columbia Natural	2	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Oregon Production Index Area: Oregon Coast Hatchery	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Oregon Production Index Area: Oregon Coast Natural	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Oregon Production Index Area: Southern Oregon/Northern California Coast	2	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Puget Sound: Hood Canal	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Puget Sound: Skagit	3	Operational Stock Assessment	

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NWFSC / SWFSC	PFMC	Coho salmon - Puget Sound: Snohomish	3	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Puget Sound: South Puget Sound Hatchery	3	Operational Stock Assessment	
Completed Assessments for Non-FSSI Stocks - FY 2021 Quarter 2 (January - March, 2021)					
Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Notes
NWFSC / SWFSC	PFMC	Coho salmon - Puget Sound: Stillaguamish	4	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Washington Coast: Grays Harbor	3	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Washington Coast: Hoh	3	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Washington Coast: Queets	3	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Washington Coast: Quillayute Fall	3	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Washington Coast: Quillayute Summer Hatchery	3	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Washington Coast: Quinault Hatchery	2	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Washington Coast: Strait of Juan de Fuca	3	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Washington Coast: Willapa Bay Hatchery	3	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Coho salmon - Washington Coast: Willapa Bay Natural	3	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Pacific hake - Pacific Coast	6	Operational Stock Assessment	
NWFSC / SWFSC	PFMC	Pink salmon - Pacific Coast	2	Operational Stock Assessment	
SEFSC	HMS	Porbeagle - Atlantic	1	Operational Stock Assessment	ICES - led assessment
Completed Assessments for Non-FSSI Stocks - FY 2021 Quarter 3 (April - June, 2021)					
Science Center(s) ¹	Jurisdiction ²	Stock	Model Class ⁴	Planned Asmt Type ⁵	Notes
AFSC	NPFMC	Blue king crab - Pribilof Islands	2	Operational Stock Assessment	
AFSC	NPFMC	Weathervane scallop - Alaska	2	Operational Stock Assessment	

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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 Assessment Model Category: Category of stock assessment model accepted for use in management, as described in the 2018 Next Generation Stock Assessment Improvement Plan document.

1 = Data-Limited (e.g. DBSRA, DCAC, Surplus Production MSY, Egg-Escapement, Mean Length Estimation)

2 = Index-Based (e.g. AIM, basic linear models and time series analyses)

3 = Aggregate Biomass Dynamics (e.g. Schaefer or Pella-Tomlinson Production Models, ASPIC, delay-difference models)

4 = Virtual Population Update (e.g. ADAPT, VPA-2BOX)

5 = Statistical Catch-at-Length (e.g. SCALE, SS, MultifanCL)

6 = Statistical Catch-at-Age (e.g. SS, ASAP, AMAK, BAM, MultifanCL, CASAL)

5 For FY19, the National Stock Assessment Program is adapting how it tracks and classifies its activities related to the provision of harvest recommendations. The changes reflect the guidance established in the 2018 Next Generation Stock Assessment Improvement Plan document.

Operational Stock Assessment - Activities labeled "Operational Stock Assessments" include analyses that utilize one or more of the categories of stock assessment models described in the "Model Class" field (Footnote 4). Within the range of Operational Stock Assessments will be first time applications of previously researched methods ("new" or "benchmark" assessments); applications with updated data streams and minor revisions to methods within the scope of previously researched themes; and applications that simply update the model with the most recent data.

Stock Monitoring Update - Activities labeled "Stock Monitoring Analyses" generally include activities that provide stock-level advice to fishery managers between stock assessments. These analyses include the methods described in the "Model Class" field (Footnote 4), but only when they are updated using the most recent catch information to develop new catch advice. These are sometimes called partial updates. Because there are no changes in the methods or data series in stock monitoring updates, just updated catch data, the conduct and review of these analyses does not warrant intense scrutiny.

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