

National Marine Fisheries Service - 2015 Status of U.S. Fisheries  
Status Determination Criteria used in the Most Recent Status Determinations

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Stock	Overfishing Definition	Estimate of Overfishing	Overfished Definition	Estimate of Bmsy or Proxy	Estimate of Overfished
<b>ATLANTIC SEA SCALLOP FISHERY MANAGEMENT PLAN</b>					
Sea scallop - Northwestern Atlantic Coast	If stock biomass is equal or greater than Bmsy as measured by an absolute value of scallop meat (mt), overfishing occurs when fishing mortality exceeds Fmsy. If the total stock biomass is below Bmsy, overfishing occurs when fishing mortality exceeds the level that has a 50 percent probability to rebuild stock biomass to Bmsy in 10 years.	0.48	A scallop stock is in an overfished condition when stock biomass is below 1/2Bmsy.	96,480 mt	48,240 mt
<b>ATLANTIC SALMON FISHERY MANAGEMENT PLAN</b>					
Atlantic salmon - Gulf of Maine	Overfishing is currently not defined (fishing mortality is set equal to zero).	Undefined	A stock is overfished when the stock biomass falls below the Conservation Spawning Escapement (CSE).	54,000 fish	29,199 fish
<b>NORTHEAST MULTISPECIES FISHERY MANAGEMENT PLAN</b>					
Acadian redfish - Gulf of Maine / Georges Bank	Overfishing occurs when F exceeds F at 50% maximum spawning potential.	0.04	Overfished is defined as spawning stock biomass less than 1/2 Btarget; Btarget is defined as 40% MSP	281,112 mt	140,556 mt
American plaice - Gulf of Maine / Georges Bank	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.20	Overfished is defined as spawning stock biomass less than 1/2 Btarget; Btarget is defined as 40% MSP	13,107 mt	6,553 mt
Atlantic cod - Georges Bank	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.17	Overfished is defined as spawning stock biomass less than 1/2 Btarget; Btarget is defined as 40% MSP	201,152 mt	100,576 mt

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Atlantic cod - Gulf of Maine	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.18	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ Btarget; Btarget is defined as 40% MSP	40,187 mt (model 1) 59,045 mt (model 2)	20,093 mt (model 1) 29,522 mt (model 2)
Atlantic halibut - Northwestern Atlantic Coast	Overfishing occurs when F exceeds $F_{0.1}$ .	0.07	The stock is overfished when the total stock biomass is less than $\frac{1}{2}$ Btarget.	49,000 mt	24,500 mt
Atlantic wolffish - Gulf of Maine / Georges Bank	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.24	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ Btarget; Btarget is defined as 40% MSP	1,663 mt	832 mt
Haddock - Georges Bank	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.39	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ Btarget; Btarget is defined as 40% MSP	108,300 mt	54,150 mt
Haddock - Gulf of Maine	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.47	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ Btarget; Btarget is defined as 40% MSP	4,623 mt	2,312 mt

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Ocean pout - Northwestern Atlantic Coast	Overfishing occurs when the exploitation ratio is less than the median exploitation ratio from 1977-1985.	0.76 catch/ survey index	The stock is overfished when the 3-year moving average of the NEFSC spring survey is less than $\frac{1}{2} B_{MSY}$ proxy; where $B_{MSY}$ proxy = average observed 1977-1985.	4.94 kg/tow	2.47 kg/tow
Offshore hake - Northwestern Atlantic Coast	Undefined	undefined	Undefined	undefined	undefined
Pollock - Gulf of Maine / Georges Bank	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.28	Overfished is defined as spawning stock biomass less than $\frac{1}{2} B_{target}$ ; $B_{target}$ is defined as 40% MSP	105,226 mt	52,613 mt
Red Hake - Southern Georges Bank/Middle Atlantic	Overfishing occurs when the ratio between catch and survey biomass > AIM 1980-2009	3.038 kg/kt	3yr moving average of the spring suvery weight per tow < $\frac{1}{2} B_{MSY}$ proxy; where $B_{MSY}$ proxy = average observed 1980-2010	1.02 kg/tow	0.51 kg/tow
Red Hake - Gulf of Maine/Northern Georges Bank	Overfishing occurs when the ratio between catch and survey biomass > AIM 1980-2009	0.163 kg/kt	3yr moving average of the spring suvery weight per tow < $\frac{1}{2} B_{MSY}$ proxy; where $B_{MSY}$ proxy = average observed 1980-2010	2.53 kg/tow	1.27 kg/tow
Silver Hake - Gulf of Maine/Northern Georges Bank	Overfishing occurs when the ratio between catch and the arithmetic fall survey biomass index from the most recent three years exceeds the overfishing threshold	2.78 kg/kt	The stock is overfished when the 3-year moving average of the fall survey < $\frac{1}{2} B_{MSY}$ proxy; where $B_{MSY}$ proxy = average observed 1973-1982	6.42 kg/tow	3.21 kg/tow
Silver Hake - Southern Georges Bank/Middle Atlantic	Overfishing occurs when the ratio between catch and the arithmetic fall survey biomass index from the most recent three years exceeds the overfishing threshold	34.19 kg/kt	The stock is overfished when the 3-year moving average of the fall survey < $\frac{1}{2} B_{MSY}$ proxy; where $B_{MSY}$ proxy = average observed 1973-1982	0.83 kg/tow	0.415 kg/tow
White hake - Gulf of Maine / Georges Bank	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.20	Overfished is defined as spawning stock biomass less than $\frac{1}{2} B_{target}$ ; $B_{target}$ is defined as 40% MSP	32,550 mt	16,275 mt

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Windowpane - Gulf of Maine / Georges Bank	Overfishing occurs when the exploitation ratio is less than the median exploitation ratio from 1975-2007.	0.45 catch/ survey index	The stock is overfished when the 3-year moving average of the fall survey is less than $\frac{1}{2}$ B <sub>MSY</sub> proxy; where B <sub>MSY</sub> proxy = average observed 1975-2007.	1.6 kg/tow	0.8 kg/tow
Windowpane - Southern New England / Mid-Atlantic	Overfishing occurs when the exploitation ratio is less than the median exploitation ratio from 1975-2007.	2.03 catch/ survey index	The stock is overfished when the 3-year moving average of the fall survey is less than $\frac{1}{2}$ B <sub>MSY</sub> proxy; where B <sub>MSY</sub> proxy = average observed 1975-2007.	0.24 kg/tow	0.12 kg/tow
Winter flounder - Georges Bank	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.53	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ B <sub>target</sub> ; B <sub>target</sub> is defined as 40% MSP	6,700 mt	3,350 mt
Winter flounder - Gulf of Maine	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.23	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ B <sub>target</sub> ; B <sub>target</sub> is defined as 40% MSP	not estimated	not estimated
Winter flounder - Southern New England / Mid-Atlantic	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.33	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ B <sub>target</sub> ; B <sub>target</sub> is defined as 40% MSP	26,928 mt	13,464 mt
Witch flounder - Northwestern Atlantic Coast	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.28	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ B <sub>target</sub> ; B <sub>target</sub> is defined as 40% MSP	9,473 mt	4,736 mt
Yellowtail flounder - Cape Cod / Gulf of Maine	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.28	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ B <sub>target</sub> ; B <sub>target</sub> is defined as 40% MSP	5,259 mt	2,629 mt
Yellowtail flounder - Georges Bank	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.25	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ B <sub>target</sub> ; B <sub>target</sub> is defined as 40% MSP	43,200 mt	21,600 mt
Yellowtail flounder - Southern New England / Mid-Atlantic	Overfishing occurs when F exceeds F at 40% maximum spawning potential.	0.35	Overfished is defined as spawning stock biomass less than $\frac{1}{2}$ B <sub>target</sub> ; B <sub>target</sub> is defined as 40% MSP	1,959 mt	979 mt

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<b>NORTHEAST SKATE COMPLEX FISHERY MANAGEMENT PLAN</b>					
Barndoor skate - Georges Bank / Southern New England	Overfishing occurs when the 3-year moving average of the autumn survey mean weight per tow declines 30% or more, or when the autumn survey mean weight per tow declines for 3 consecutive years.	See Overfishing Definition	The stock is in an overfished condition when the 3-year moving average of the autumn survey mean weight per tow is less than one-half of the mean weight per tow observed in the autumn trawl survey from 1963-1966.	1.57 kg/tow	0.78 kg/tow
Clearnose skate - Southern New England / Mid-Atlantic	Overfishing occurs when the 3-year moving average of the autumn survey mean weight per tow declines 30% or more, or when the autumn survey mean weight per tow declines for 3 consecutive years.	See Overfishing Definition	The stock is in an overfished condition when the 3-year moving average of the autumn survey mean weight per tow is less than one-half of the mean weight per tow observed in the autumn trawl survey from 1975-2007.	0.66 kg/tow	0.33 kg/tow
Little skate - Georges Bank / Southern New England	Overfishing occurs when the 3-year moving average of the spring survey mean weight per tow declines 20% or more, or when the spring survey mean weight per tow declines for three consecutive years.	See Overfishing Definition	The stock is in an overfished condition when the 3-year moving average of the spring survey mean weight per tow is less than one-half of the mean weight per tow observed in the spring trawl survey from 1982-2008.	6.15 kg/tow	3.07 kg/tow
Rosette skate - Southern New England / Mid-Atlantic	Overfishing occurs when the 3-year moving average of the autumn survey mean weight per tow declines 60% or more, or when the autumn survey mean weight per tow declines for 3 consecutive years.	See Overfishing Definition	The stock is in an overfished condition when the 3-year moving average of the autumn survey mean weight per tow is less than one-half of the mean weight per tow observed in the autumn trawl survey from 1967-2007.	0.048 kg/tow	0.024 kg/tow
Smooth skate - Gulf of Maine	Overfishing occurs when the 3-year moving average of the autumn survey mean weight per tow declines 30% or more, or when the autumn survey mean weight per tow declines for 3 consecutive years.	See Overfishing Definition	The stock is in an overfished condition when the 3-year moving average of the autumn survey mean weight per tow is less than one-half of the mean weight per tow observed in the autumn trawl survey from 1963-2007.	0.27 kg/tow	0.13 kg/tow

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Thorny skate - Gulf of Maine	Overfishing occurs when the 3-year moving average of the autumn survey mean weight per tow declines 20% or more, or when the autumn survey mean weight per tow declines for 3 consecutive years.	See Overfishing Definition	The stock is in an overfished condition when the 3-year moving average of the autumn survey mean weight per tow is less than one-half of the mean weight per tow observed in the autumn trawl survey from 1963-2007.	4.13 kg/tow	2.06 kg/tow
Winter skate - Georges Bank / Southern New England	Overfishing occurs when the 3-year moving average of the autumn survey mean weight per tow declines 20% or more, or when the autumn survey mean weight per tow declines for 3 consecutive years.	See Overfishing Definition	The stock is in an overfished condition when the 3-year moving average of the autumn survey mean weight per tow is less than one-half of the mean weight per tow observed in the autumn trawl survey from 1967-2007.	5.6 kg/tow	2.8 kg/tow
<b>ATLANTIC HERRING FISHERY MANAGEMENT PLAN</b>					
Atlantic herring - Northwestern Atlantic Coast	If the stock biomass is equal to or greater than $B_{MSY}$ , overfishing occurs when $F$ exceeds $F_{MSY}$ . If the stock biomass is less than $B_{MSY}$ , overfishing occurs when $F$ exceeds the level that has a 50-percent probability of rebuilding the stock biomass to $B_{MSY}$ in 5 years ( $F_{THRESHOLD}$ ).	0.24	The stock is overfished when stock biomass is less than $\frac{1}{2} B_{MSY}$ .	311,145 mt	155,572 mt
<b>DEEP-SEA RED CRAB FISHERY MANAGEMENT PLAN</b>					
Red deepsea crab - Northwestern Atlantic	Overfishing is defined as any rate of exploitation such that the ratio of current exploitation to an idealized exploitation under MSY conditions exceeds a value of 1.0 (the actual measure of exploitation used is determined by the availability of suitable data).	2830 mt	The stock is overfished if current biomass is below $\frac{1}{2} B_{msy}$ , annual fleet average CPUE continues to decline below a baseline level for three or more consecutive years, or annual fleet average CPUE falls below a minimum threshold level in any single year.	not estimated	not estimated

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<b>MONKFISH FISHERY MANAGEMENT PLAN</b>					
Monkfish - Gulf of Maine / Northern Georges Bank	Overfishing occurs when F exceeds $F_{THRESHOLD}$ , which is set equal to $F_{MAX}$ .	0.44	The stock is overfished when total stock biomass is less than 1/2 Bmax.	46,074 mt	23,037 mt
Monkfish - Southern Georges Bank / Mid-Atlantic	Overfishing occurs when F exceeds $F_{THRESHOLD}$ , which is set equal to $F_{MAX}$ .	0.37	The stock is overfished when total stock biomass is less than 1/2 Bmax.	71,667 mt	35,834 mt
<b>SPINY DOGFISH FISHERY MANAGEMENT PLAN</b>					
Spiny dogfish - Atlantic Coast	Overfishing occurs when F exceeds $F_{msy}$ or a reasonable proxy thereof.	0.244	The stock is overfished when the biomass is less than 1/2 $B_{msy}$ or a reasonable proxy thereof.	159,288 mt	79,644 mt
<b>SUMMER FLOUNDER, SCUP, AND BLACK SEA BASS FISHERY MANAGEMENT PLAN</b>					
Black sea bass - Mid-Atlantic Coast	Overfishing occurs when F exceeds the threshold of $F_{msy}$ or reasonable proxy thereof.	0.44	The stock is overfished when the spawning stock biomass falls below the minimum biomass threshold of 1/2 $B_{msy}$ or reasonable proxy thereof.	10,880 mt	5,440 mt
Scup - Atlantic Coast	Overfishing occurs when F exceeds the threshold of $F_{msy}$ or reasonable proxy thereof.	0.22	The stock is overfished when the spawning stock biomass falls below the minimum biomass threshold of 1/2 $B_{msy}$ or reasonable proxy thereof.	87,302 mt	43,651 mt
Summer flounder - Mid-Atlantic Coast	Overfishing occurs when F exceeds the threshold of $F_{msy}$ or reasonable proxy thereof.	0.31	The stock is overfished when the spawning stock biomass falls below the minimum biomass threshold of 1/2 $B_{msy}$ or reasonable proxy thereof.	62,394 mt	31,197 mt

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<b>BLUEFISH FISHERY MANAGEMENT PLAN</b>					
Bluefish - Atlantic Coast	Overfishing occurs when F exceeds the threshold $F_{MSY}$ .	0.17	The stock is overfished when the minimum biomass is less than $\frac{1}{2}B_{MSY}$ .	111,228 mt	55,614 mt
<b>ATLANTIC SURFCLAM AND OCEAN QUAHOG FISHERY MANAGEMENT PLAN</b>					
Atlantic surfclam - Mid-Atlantic Coast	Overfishing occurs when F exceeds $F_{MSY} = M$ (the natural mortality rate).	0.15	The stock is overfished when the current biomass estimate is less than $\frac{1}{2}$ of the Bmsy proxy.	543,000 mt (meat weight)	272,000 mt (meat weight)
Ocean quahog - Atlantic Coast	Overfishing occurs when F exceeds F25% MSP.	0.02	The stock is overfished when the minimum biomass is less than the biomass threshold of $\frac{1}{2}B_{MSY}$ or $\frac{1}{4}$ of the virgin biomass.	1.73 million mt (meat weight).	1.39 million mt (meat weight)
<b>ATLANTIC MACKEREL, SQUID, AND BUTTERFISH FISHERY MANAGEMENT PLAN</b>					
Atlantic mackerel - Gulf of Maine / Cape Hatteras	Overfishing occurs when F exceeds the fishing mortality threshold of $F_{MSY}$ .	0.16	A stock is overfished when biomass falls below $\frac{1}{2}$ BMSY.	644,000 mt	322,000 mt
Butterfish - Gulf of Maine / Cape Hatteras	Overfishing occurs when F exceeds the fishing mortality threshold of $F_{MSY}$ . The 2009 assessment included three candidate values, but no preferred estimate.	0.52 0.72 1.04	The stock is overfished when the minimum biomass is less than the biomass threshold of $\frac{1}{2}B_{MSY}$ .	undefined	undefined
Longfin inshore squid - Georges Bank / Cape Hatteras	Overfishing occurs when fishing mortality exceeds FThreshold	not estimated	The stock is overfished when biomass is less than $\frac{1}{2}B_{MSY}$ .	42,405 mt	21,203 mt

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Northern shortfin squid - Northwestern Atlantic Coast	Overfishing occurs when fishing mortality exceeds $F_{Threshold}$	1.22	Undefined	undefined	undefined
<b>TILEFISH FISHERY MANAGEMENT PLAN</b>					
Tilefish - Mid-Atlantic Coast	Overfishing occurs when the catch associated with a threshold $F$ of $F_{MSY}$ is exceeded.	0.16	The stock is overfished when the total stock biomass falls below the minimum biomass threshold ( $B_{THRESHOLD}$ ) of $\frac{1}{2}B_{MSY}$ .	11,400 mt	5,700 mt

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<b>SHRIMP FISHERY OF THE SOUTH ATLANTIC FISHERY MANAGEMENT PLAN</b>					
Brown rock shrimp - Southern Atlantic Coast	Overfishing for rock shrimp is a fishing mortality rate that leads to annual landings larger than two standard deviations (9,774,848 pounds heads on) above MSY (4,912,927 + 9,774,848 = 14,687,775 //pounds heads on) for two consecutive years.	14,687,775 pounds heads on) for two consecutive years.	Undefined	Undefined	Undefined
Brown shrimp - Southern Atlantic Coast	Overfishing (MFMT) is a fishing mortality rate that diminishes the stock below the designated MSY stock abundance ( $B_{MSY}$ ) for two consecutive years.	9,200,000 lbs. tails	MSST is established with two thresholds: (1) if the stock diminishes to $\frac{1}{2}$ MSY abundance ( $\frac{1}{2} B_{MSY}$ ) in one year, or (b) if the stock is diminished below MSY abundance ( $B_{MSY}$ ) for two consecutive years. A proxy for $B_{MSY}$ would be established for each species using CPUE information from SEAMAP-SA data as the lowest values in the 1990-2003 time period that produced catches meeting MSY the following year.	CPUE = 2.000 individuals per hectare	The proxy for $B_{MSY}$ is CPUE = 2.000 individuals per hectare.
Pink shrimp - Southern Atlantic Coast	Overfishing (MFMT) is a fishing mortality rate that diminishes the stock below the designated MSY stock abundance ( $B_{MSY}$ ) for two consecutive years.	1,800,000 lbs. tails	MSST is established with two thresholds: (1) if the stock diminishes to $\frac{1}{2}$ MSY abundance ( $\frac{1}{2} B_{MSY}$ ) in one year, or (b) if the stock is diminished below MSY abundance ( $B_{MSY}$ ) for two consecutive years. A proxy for $B_{MSY}$ would be established for each species using CPUE information from SEAMAP-SA data as the lowest values in the 1990-2003 time period that produced catches meeting MSY the following year.	CPUE = 0.089 individuals per hectare	The proxy for $B_{MSY}$ = 0.089 individuals per hectare.

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White shrimp - Southern Atlantic Coast	Overfishing (MFMT) is a fishing mortality rate that diminishes the stock below the designated MSY stock abundance ( $B_{MSY}$ ) for two consecutive years.	14,500,000 lbs. tails	MSST is established with two thresholds: (1) if the stock diminishes to $\frac{1}{2}$ MSY abundance ( $\frac{1}{2} B_{MSY}$ ) in one year, or (b) if the stock is diminished below MSY abundance ( $B_{MSY}$ ) for two consecutive years. In addition a stock is overfished when the overwintering white shrimp population within a state's water declines by 80% or more following severe winter resulting in prolonged cold water temperatures. A proxy for $B_{MSY}$ would be established for each species using CPUE information from SEAMAP-SA data as the lowest values in the 1990-2003 time period that produced catches meeting MSY the following year.	CPUE = 5.868 individuals per hectare	The proxy for $B_{MSY}$ is CPUE = 5.868 individual per hectare.
<b>SNAPPER-GROUPER FISHERY OF THE SOUTH ATLANTIC REGION FISHERY MANAGEMENT PLAN</b>					
Black grouper - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.25	Overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{MSY}$ .	not estimated	not estimated
Black sea bass - Southern Atlantic Coast	Overfishing occurs if: a) the fishing mortality rate exceeds the $F_{msy}$ or $F_{msy}$ proxy only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed. $F_{msy}$ or $F_{msy}$ proxy are determined from the latest stock assessment.	0.61	Overfished is defined as a stock size less than MSST, where $MSST = 1-M*SSB_{MSY}$ .	2.56 trillion eggs	1.59 trillion eggs
Blueline tilefish - Southern Atlantic Coast	Overfishing occurs if: a) the fishing mortality rate exceeds the $F_{msy}$ or $F_{msy}$ proxy only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed. $F_{msy}$ or $F_{msy}$ proxy are determined from the latest stock assessment.	0.30	Overfished is defined as a stock size less than MSST, where $MSST = 1-M*SSB_{MSY}$ .	246.6 mt	185 mt
Gag - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ .	0.29	Overfished is defined as a stock size less than MSST, where $MSST = 1-M*SSB_{MSY}$ .	1,831,700 lbs	1,575,300 lbs

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Gray triggerfish - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.80	Overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{MSY}$ .	not estimated	not estimated
Greater amberjack - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.42	Overfished is defined as a stock size less than MSST, where $MSST = 1-M*B_{MSY}$ and $M = 0.25$ .	1,940 mt	1,455 mt
Red grouper - Southern Atlantic Coast	Overfishing occurs if: a) the fishing mortality rate exceeds the $F_{msy}$ or $F_{msy}$ proxy only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed. $F_{msy}$ or $F_{msy}$ proxy are determined from the latest stock assessment.	0.22	Overfished is defined as a stock size less than MSST. $MSST = 75\%SSB_{msy}$ . NOTE: The most recent assessment has not yet used this definition of overfished.	2,592 mt	2,229 mt
Red porgy - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ .	0.17	Overfished is defined as a stock size less than MSST. $MSST = (1-M)B_{MSY}$ and $M = 0.225$ .	3,933 mt	3,048 mt
Red snapper - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ .	0.20	Overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{MSY}$ .	168 mt	154 mt
Scamp - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.23	Overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{MSY}$ .	not estimated	not estimated
Snowy grouper - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ .	0.14	Overfished is defined as a stock size less than MSST. $MSST = SSB_{MSY}(0.75)$ .	872,318 lbs	654,238 lbs
Speckled hind - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.14	Overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{MSY}$ .	not estimated	not estimated
Tilefish - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ .	0.19	Overfished is defined as a stock size less than MSST. $MSST = SSB_{MSY}(0.75)$ .	25.304 mt	22.564 mt
Vermilion snapper - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ .	0.75	Overfished is defined as a stock size less than $MSST = (1-c)B_{MSY}$ , where c is the lesser of M or 0.5. $M = 0.25$ ; the best estimate of MSST is $0.75B_{MSY}$ .	5.98 trillion eggs	4.66 trillion eggs

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Warsaw grouper - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.18	Overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{MSY}$ .	not estimated	not estimated
Wreckfish - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.65	Overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{MSY}$ .	1,809 mt	1,743 mt
<b>SOUTH ATLANTIC SNAPPER-GROUPER AND REEF FISH RESOURCES OF THE GULF OF MEXICO FISHERY MANAGEMENT PLAN</b>					
Black grouper - Southern Atlantic Coast / Gulf of Mexico	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.22	Overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{30\%}$ .	5.92 million lbs.	5.12 million lbs.
Goliath grouper - Southern Atlantic Coast / Gulf of Mexico	Overfishing is defined as an F in excess of the fishing mortality rate corresponding to a 40% Static SPR in the South Atlantic and 50% Static SPR in the Gulf of Mexico.	Not available	South Atlantic - Overfished is defined as a stock size less than MSST. Gulf of Mexico - Overfished is undefined.	not estimated	not estimated
Mutton snapper - Southern Atlantic Coast / Gulf of Mexico	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.34	Overfished is defined as a stock size less than $MSST = (1-c)B_{MSY}$ , where c is the lesser of M or 0.5. $M = 0.2$ ; the best estimate of MSST for yellowtail snapper is $0.8B_{MSY}$ .	6,296 mt	5,603 mt
Yellowtail snapper - Southern Atlantic Coast / Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate exceeds the $F_{msy}$ or $F_{msy}$ proxy only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed. $F_{msy}$ or $F_{msy}$ proxy are determined from the latest stock assessment.	0.24	Overfished is defined as a stock size less than $MSST = (1-c)B_{MSY}$ , where c is the lesser of M or 0.5. $M = 0.2$	8.42 million lbs	6.79 million lbs

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<b>CORAL, CORAL REEFS, AND LIVE / HARD BOTTOM HABITATS OF THE SOUTH ATLANTIC REGION FISHERY MANAGEMENT PLAN</b>					
Fire Corals, Hydrocorals, Octocorals, Stony Corals, Black Corals	Overfishing is defined as an annual level of harvest that exceeds optimum yield (OY). OY for coral reefs, stony corals, hydrocorals, black corals, seafans, and live rock is zero, except as may be authorized for scientific and educational purposes. Harvest of allowable octocorals in the EEZ is specified by the South Atlantic Council each year.	0 for all species except octocorals ( $F/F_{MSY} < 1$ )	In South Atlantic overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{MSY}$ .	not estimated	not estimated
<b>PELAGIC SARGASSUM HABITAT OF THE SOUTH ATLANTIC REGION FISHERY MANAGEMENT PLAN</b>					
Sargassum - Southern Atlantic Coast	Overfishing is defined as the rate of harvest which compromises the stock's ability to produce MSY.	*not estimated	A stock is overfished when the stock is reduced below MSST.	50,000 mt	25,000 mt
	*Although the MFMT was disapproved, an examination of the rate of harvest (currently zero), relative to the approved MSY level (100,000 mt), indicates that overfishing is not occurring. In addition, no directed fishery for this stock currently exists. This species has the capacity to increase its biomass through vegetative growth by as much as 10 percent per day, thus doubling its biomass every two weeks.				
<b>DOLPHIN AND WAHOO FISHERY OF THE ATLANTIC / COASTAL MIGRATORY PELAGICS OF THE GULF OF MEXICO AND SOUTH ATLANTIC FISHERY MANAGEMENT PLAN</b>					
Dolphinfish - Southern Atlantic Coast / Gulf of Mexico	Overfishing is defined as a fishing mortality rate (F) in the excess of $F_{MSY}$ (F30% Static SPR).	0.49	A stock is overfished if current biomass ( $B_{curr}$ ) is less than MSST and would be recovered when current biomass was equal or greater than the biomass at MSY. MSST is defined $(1-M)*B_{MSY}$ , where 1-M should never be less than 0.5. Using the best estimates of natural mortality ( $M = 0.68-0.80$ ) in the formula results in a MSST of 50% $B_{MSY}$ .	$B_{1998}/B_{msy} = 1.56$ ; $B_{msy}$ not estimated.	$B_{1998}/MSST > 1$ ; MSST not estimated

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<b>COASTAL MIGRATORY PELAGIC RESOURCES OF THE GULF OF MEXICO AND SOUTH ATLANTIC FISHERY MANAGEMENT PLAN</b>					
Cobia - Gulf of Mexico	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.38	A stock is overfished when the stock size is less than the minimum stock size threshold. $MSST = (1-M)*B_{MSY}$ or 70% of $B_{MSY}$	2,065 mt	1,280 mt
Cobia - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.46	A stock is overfished when the stock size is less than the minimum stock size threshold. $MSST = (1-M)*B_{MSY}$ or 70% of $B_{MSY}$	536,000 lbs	397,000 lbs
King mackerel - Gulf of Mexico	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.11	A stock is overfished when the stock size is less than the minimum stock size threshold. For Gulf group King Mackerel, $MSST = (1-M)*B_{MSY}$ or 80% of $B_{MSY}$ .	1.81 trillion eggs	1.14 trillion eggs
King mackerel - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.16	A stock is overfished when the stock size is less than the minimum stock size threshold. For Atlantic group King Mackerel, $MSST = (1-M)*B_{MSY}$ or 85% of $B_{MSY}$ .	2.39 trillion eggs	2.18 trillion eggs
Spanish mackerel - Gulf of Mexico	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.36	A stock is overfished when the stock size is less than the minimum stock size threshold. $MSST = (1-M)*B_{MSY}$ or 70% of $B_{MSY}$	10,339 mt	6,410 mt
Spanish mackerel - Southern Atlantic Coast	Overfishing is defined as an F that exceeds MFMT = $F_{MSY}$ where $F_{MSY} = F_{30\%SPR}$ .	0.69	A stock is overfished when the stock size is less than the minimum stock size threshold. $MSST = (1-M)*B_{MSY}$ or 70% of $B_{MSY}$	3.27 million adult spawners	2.13 million adult spawners
<b>SPINY LOBSTER IN THE GULF OF MEXICO AND SOUTH ATLANTIC FISHERY MANAGEMENT PLAN</b>					
Caribbean spiny lobster - Southern Atlantic Coast / Gulf of Mexico	Overfishing is defined as an F in excess of the fishing mortality rate corresponding to a 20% SPR where $F_{MSY} = F_{20\%SPR}$ .	Not available	(Gulf) Overfished is defined as a stock size less than MSST. $MSST = 1-M*B_{MSY}$ .	not estimated	not estimated

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<b>SHRIMP FISHERY OF THE GULF OF MEXICO FISHERY MANAGEMENT PLAN</b>					
Brown shrimp - Gulf of Mexico	A stock is subject to overfishing if the annual fishing mortality rate exceeds the maximum fishing mortality threshold (MFMT). The MFMT is defined as the fishing mortality rate at MSY ( $F_{MSY}$ ).	9.12	A stock is overfished if the stock size is less than the minimum stock size threshold (MSST). The MSST for each penaeid shrimp stock is defined as the minimum total annual spawning biomass minus the 95% confidence limit for the fishing years 1984 to 2012.	6.1 million lbs. tails	6.1 million lbs. tails
Pink shrimp - Gulf of Mexico	A stock is subject to overfishing if the annual fishing mortality rate exceeds the maximum fishing mortality threshold (MFMT). The MFMT is defined as the fishing mortality rate at MSY ( $F_{MSY}$ ).	1.34	A stock is overfished if the stock size is less than the minimum stock size threshold (MSST). The MSST for each penaeid shrimp stock is defined as the minimum total annual spawning biomass minus the 95% confidence limit for the fishing years 1984 to 2012.	23.7 million lbs. tails	23.7 million lbs. tails
White shrimp - Gulf of Mexico	A stock is subject to overfishing if the annual fishing mortality rate exceeds the maximum fishing mortality threshold (MFMT). The MFMT is defined as the fishing mortality rate at MSY ( $F_{MSY}$ ).	3.48	A stock is overfished if the stock size is less than the minimum stock size threshold (MSST). The MSST for each penaeid shrimp stock is defined as the minimum total annual spawning biomass minus the 95% confidence limit for the fishing years 1984 to 2012.	365.7 million lbs. tails	365.7 million lbs. tails
Royal red shrimp - Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	392,000 lbs tails	Undefined	Undefined	Undefined
<b>REEF FISH RESOURCES OF THE GULF OF MEXICO FISHERY MANAGEMENT PLAN</b>					
Gag - Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate in one year or several years exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) landings exceeds the OFL in all other years when the stock is not assessed	0.29 (MFMT) 2,910,000 lbs (OFL)	Overfished is defined as a stock size less than $MSST = (1-M)*SSB_{MSY}$ .	6,309 mt	5,489 mt

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Gray triggerfish - Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate in one year or several years exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) landings exceeds the OFL in all other years when the stock is not assessed	0.39 (MFMT) 410,600 lbs (OFL)	Overfished is defined as a stock size less than $MSST = (1-M)*SSB_{MSY}$ .	17 trillion eggs	11.1 trillion eggs
Greater amberjack - Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate in one year or several years exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) landings exceeds the OFL in all other years when the stock is not assessed	0.2 (MFMT) 2,380,000 lbs (OFL)	Overfished is defined as a stock size less than $MSST = (1-M)*BMSY$ .	10.2 million lbs.	7.4 million lbs.
Hogfish - Eastern Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate in one year or several years exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) landings exceeds the OFL in all other years when the stock is not assessed	0.095 (MFMT) 272,000 lbs (OFL)	Overfished is defined as a stock size less than $MSST = (1-M)*BMSY$ .	382 million lbs.	466.3 million lbs.
Red grouper - Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate in one year or several years exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) landings exceeds the OFL in all other years when the stock is not assessed	0.187 (MFMT) 8,100,00 lbs (OFL)	Overfished is defined as a stock size less than $MSST = (1-M)*SSB_{MSY}$ .	712.7 mt	612.9 mt
Red snapper - Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate in one year or several years exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) landings exceeds the OFL in all other years when the stock is not assessed	0.078 (MFMT) 13,300,000 lbs (OFL)	A stock is overfished when the relative spawning potential drops below the $MSST = (1-M)*B26\%$ .	1.2 trillion eggs	not available

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Tilefish - Gulf of Mexico	Overfishing occurs if the fishing mortality rate in one year or several years exceeds the maximum fishing mortality rate.	2.07 or 1.30 (depending on model)	A stock is overfished when the relative spawning potential drops below the MSST = (1-M)*B30%.	17,986.44 lbs or 14,620.77 lbs	not available
Vermilion snapper - Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate in one year or several years exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) landings exceeds the OFL in all other years when the stock is not assessed	0.41 (MFMT) 4,080,000 lbs (OFL)	A stock is overfished when the relative spawning potential drops below the MSST = (1-M)*B30%.	120 trillion eggs	88 trillion eggs
Yellowedge grouper - Gulf of Mexico	Overfishing occurs if the fishing mortality rate in one year or several years exceeds the maximum fishing mortality rate.	1.06	A stock is overfished when the relative spawning potential drops below the MSST = (1-M)*B30%.	8.62 million lbs	7.99 million lbs
Gulf of Mexico Deep Water Grouper Complex	Overfishing is occurring if landings exceed the OFL.	1,220,000 lbs	Undefined	Undefined	Undefined
Gulf of Mexico Jacks Complex	Overfishing is occurring if landings exceed the OFL.	372,000 lbs	Undefined	Undefined	Undefined
Gulf of Mexico Mid-Water Snapper Complex	Overfishing is occurring if landings exceed the OFL.	209,000 mt	Undefined	Undefined	Undefined
Gulf of Mexico Shallow Water Grouper Complex	Overfishing is undefined because of incompatible OFLs for black grouper, also a stock that is assessed separately.	Undefined	Undefined	Undefined	Undefined

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Gulf of Mexico Tilefishes Complex	Overfishing is occurring if landings exceed the OFL.	747,000 lbs	Undefined	Undefined	Undefined
<b>RED DRUM FISHERY OF THE GULF OF MEXICO FISHERY MANAGEMENT PLAN</b>					
Red drum - Gulf of Mexico	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed. NOTE: Catch in federal waters is prohibited.	0.50	Undefined	Undefined	Undefined
<b>SPINY LOBSTER FISHERY OF PUERTO RICO AND THE U.S. VIRGIN ISLANDS FISHERY MANAGEMENT PLAN</b>					
Caribbean spiny lobster - Puerto Rico	Overfishing is occurring if landings exceed the OFL.	535,816 lbs	Undefined	Undefined	Undefined
Caribbean spiny lobster - St. Croix	Overfishing is occurring if landings exceed the OFL.	119,230 mt	Undefined	Undefined	Undefined
Caribbean spiny lobster - St. Thomas / St. John	Overfishing is occurring if landings exceed the OFL.	115,777 mt	Undefined	Undefined	Undefined
<b>QUEEN CONCH RESOURCES OF PUERTO RICO AND THE U.S. VIRGIN ISLANDS FISHERY MANAGEMENT PLAN</b>					
Queen conch - Caribbean	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate (MFMT) only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed.	0.3 (MFMT) 512,718 lbs (OFL)	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller. NOTE: The overfished determination was made using a combination of quantitative and qualitative data, not a stock assessment using estimates of Bmsy.	not estimated	not estimated

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<b>REEF FISH FISHERY OF PUERTO RICO AND THE U.S. VIRGIN ISLANDS FISHERY MANAGEMENT PLAN</b>					
Nassau grouper - Caribbean	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	0.86 0 (OFL)	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where c = the natural mortality rate (M) or 0.50, whichever is smaller. NOTE: The overfished determination was made using a combination of quantitative and qualitative data, not a stock assessment using estimates of Bmsy.	not estimated	not estimated
Goliath grouper - Caribbean	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	0.44 0 (OFL)	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where c = the natural mortality rate (M) or 0.50, whichever is smaller. NOTE: The overfished determination was made using a combination of quantitative and qualitative data, not a stock assessment using estimates of Bmsy.	not estimated	not estimated
Caribbean Angelfishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	Not available	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where c = the natural mortality rate (M) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Aquarium Trade Species Complex *	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	10,873 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where c = the natural mortality rate (M) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Boxfishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	141,460 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where c = the natural mortality rate (M) or 0.50, whichever is smaller.	not estimated	not estimated

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Caribbean Goatfishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	24,459 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Groupers	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	396,483 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Grunts Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	291,025 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Hogfish / Wrasses Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	Not available	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Jacks Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	228,284 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Parrotfishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	507,059 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller. NOTE: The overfished determination was made using a combination of quantitative and qualitative data, not a stock assessment using estimates of Bmsy.	not estimated	not estimated

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Caribbean Porgies Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	59,747 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Snappers	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	1,915,759 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Squirrelfishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	Not available	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Surgeonfishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	98,161 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Caribbean Tilefishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	45,553 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated
Puerto Rico Triggerfishes and Filefishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	89,337 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where $c$ = the natural mortality rate ( $M$ ) or 0.50, whichever is smaller.	not estimated	not estimated

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St. Croix Triggerfishes and Filefishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	27,755 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where c = the natural mortality rate (M) or 0.50, whichever is smaller.	not estimated	not estimated
St. Thomas / St. John Triggerfishes and Filefishes Complex	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	82,719 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where c = the natural mortality rate (M) or 0.50, whichever is smaller.	not estimated	not estimated
<b>CORALS AND REEF ASSOCIATED PLANTS AND INVERTEBRATES OF PUERTO RICO AND THE UNITED STATES VIRGIN ISLANDS FISHERY MANAGEMENT PLAN</b>					
Caribbean Aquarium Trade Species Complex *	Overfishing occurs if: a) the fishing mortality rate exceeds the maximum fishing mortality rate only in the year the stock is assessed; and b) catch exceeds the OFL in all other years when the stock is not assessed	10,873 lbs	Overfished is defined as a stock size less than MSST is set = $B_{MSY}(1-c)$ ; where c = the natural mortality rate (M) or 0.50, whichever is smaller.	not estimated	not estimated
*NOTE: The OFL for Aquarium Trade Species Complex is distributed between species in both the Reef Fish Fishery of Puerto Rico and the U.S. Virgin Islands and the Corals and Reef Associated Plants and Invertebrates of Puerto Rico and the United States Virgin Islands FMPs.					

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Stock	Overfishing Definition	Estimate of Overfishing	Overfished Definition	Estimate of Bmsy or Proxy	Estimate of Overfished
<b>WASHINGTON, OREGON, AND CALIFORNIA GROUND FISH FISHERY MANAGEMENT PLAN</b>					
Arrowtooth flounder - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is $F_{40\%}$ for flatfish and Whiting.	7,391 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	32,125 mt	20,078 mt
Aurora rockfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	1,050 mt	656.52 mt
Black rockfish - Northern Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (FMSY) on a continual basis. The default FMSY proxy used for setting acceptable biological catches (ABCs) is for F50% rockfish (including thornyheads).	430 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	928.4 mt	580.25 mt
Black rockfish - Southern Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (FMSY) on a continual basis. The default FMSY proxy used for setting acceptable biological catches (ABCs) is for F50% rockfish (including thornyheads).	1,159 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	1831.4 million larvae	1144 million larvae
Blackgill rockfish - Southern California	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	475,120 larvae	296,950 larvae
Blue rockfish - California	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	830.8 million larvae	519.25 million larvae

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Bocaccio - Southern Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is for $F_{50\%}$ rockfish (including thornyheads).	884 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	3,247.2 trillion eggs	2,029.5 trillion eggs
Brown rockfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	absolute estimates not calculated (only ratios)	absolute estimates not calculated (only ratios)
Cabazon - Southern Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (FMSY) on a continual basis. The default FMSY proxy used for setting acceptable biological catches (ABCs) is $F_{45\%}$ for other groundfish such as sablefish and lingcod.	219 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	519.72 mt	324.83 mt
California scorpionfish - Southern California	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (FMSY) on a continual basis. The default FMSY proxy used for setting acceptable biological catches (ABCs) is $F_{45\%}$ for other groundfish such as sablefish and lingcod.	126 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	409	256
Canary rockfish - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is for $F_{50\%}$ rockfish (including thornyheads).	752 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	2,996 mt	1,872 mt

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Stock	Overfishing Definition	Estimate of Overfishing	Overfished Definition	Estimate of Bmsy or Proxy	Estimate of Overfished
Chilipepper - Southern Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is for $F_{50\%}$ rockfish (including thornyheads).	1,786 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	2,816 mt	1,760 mt
China rockfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	280 mt	175 mt
Copper rockfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	absolute estimates not calculated (only ratios)	absolute estimates not calculated (only ratios)
Cowcod - Southern California	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (FMSY) on a continual basis. The default FMSY proxy used for setting acceptable biological catches (ABCs) is for $F_{50\%}$ rockfish (including thornyheads).	11 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	620 mt	387.35 mt
Darkblotched rockfish - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (FMSY) on a continual basis. The default FMSY proxy used for setting acceptable biological catches (ABCs) is for $F_{50\%}$ rockfish (including thornyheads).	541 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	1,281 million eggs	800 million eggs
Dover sole - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is $F_{40\%}$ for flatfish and Whiting.	92,955 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	117,466.5 mt	58,733.25 mt

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English sole - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is $F_{40\%}$ for flatfish and Whiting.	7,129 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	7320.75 mt	4,575.4 mt
Gopher rockfish - Northern California	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	798	499
Greenspotted rockfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	5.43 trillion eggs	3.39 trillion eggs
Greenstriped rockfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	2836	1,772
Kelp greenling - Oregon	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	159 mt	99 mt
Lingcod - North Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is $F_{45\%}$ for other groundfish such as sablefish and lingcod.	4,668 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	23,354 mt	14,597 mt
Longnose skate - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is $F_{45\%}$ for other groundfish such as sablefish and lingcod.	2,902 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	2,814 mt	1,759 mt

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Longspine thornyhead - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is for $F_{50\%}$ rockfish (including thornyheads).	3,391 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	15,654 mt	9,783.5 mt
Pacific Cod	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (FMSY) on a continual basis. The default FMSY proxy used for setting acceptable biological catches (ABCs) is $F_{45\%}$ for other groundfish.	3,200 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	Unknown	Unknown
Pacific ocean perch - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is for $F_{50\%}$ rockfish (including thornyheads).	844 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	2.622 trillion eggs	1.639 trillion eggs
Pacific hake - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is $F_{40\%}$ for flatfish and Whiting.	2012 US TAC = 186,037 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	0.907 million mt	not available
Petrale sole - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is $F_{40\%}$ for flatfish and Whiting.	2,711 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	8,369 mt	4,185 mt
Pacific sanddab - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	absolute estimates not calculated (only ratios)	absolute estimates not calculated (only ratios)

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Rex sole - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	absolute estimates not calculated (only ratios)	absolute estimates not calculated (only ratios)
Rougheye rockfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	2,158 mt	1,348.5 mt
Sablefish - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is $F_{45\%}$ for other groundfish such as sablefish and lingcod.	13,241 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	60,249 mt	37,656 mt
Sharpchin rockfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	absolute estimates not calculated (only ratios)	absolute estimates not calculated (only ratios)
Shortbelly rockfish	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is for $F_{50\%}$ rockfish (including thornyheads).	6,950 mt	The overfished determination is presumably based on the 1989 stock assessment where virgin spawning biomass was estimated from an acoustic survey and a potential yield model was used to estimate MSY. Because this assessment was conducted pre-SFA, neither current biomass estimates nor an overfished threshold were identified.	19,800 mt	12,375 mt
Shortspine thornyhead - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield ( $F_{MSY}$ ) on a continual basis. The default $F_{MSY}$ proxy used for setting acceptable biological catches (ABCs) is for $F_{50\%}$ rockfish (including thornyheads).	2,333 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	75,906 mt	47,441.25 mt
Spiny dogfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	28,289,600 fish	17,681,000 fish

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Splitnose rockfish - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (FMSY) on a continual basis. The default FMSY proxy used for setting acceptable biological catches (ABCs) is for F50% rockfish (including thornyheads).	1,684 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	5,141 million eggs	3,213 million eggs
Starry flounder - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (F <sub>MSY</sub> ) on a continual basis. The default F <sub>MSY</sub> proxy used for setting acceptable biological catches (ABCs) are is F40% for flatfish and whiting.	1,825 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	2,864	1,790
Stripetail rockfish - Pacific Coast	Currently undefined	undefined	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	absolute estimates not calculated (only ratios)	absolute estimates not calculated (only ratios)
Widow rockfish - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (FMSY) on a continual basis. The default FMSY proxy used for setting acceptable biological catches (ABCs) is for F50% rockfish (including thornyheads).	4,841 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	32,283 mt	20,177 mt
Yelloweye rockfish - Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (F <sub>MSY</sub> ) on a continual basis. The default F <sub>MSY</sub> proxy used for setting acceptable biological catches (ABCs) is for F <sub>50%</sub> rockfish (including thornyheads).	51 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	411.08 million eggs	256.92 million eggs
Yellowtail rockfish - Northern Pacific Coast	Overfishing occurs when the catch exceeds the fishing mortality rate needed to produce the maximum sustainable yield (F <sub>MSY</sub> ) on a continual basis. The default F <sub>MSY</sub> proxy used for setting acceptable biological catches (ABCs) is for F <sub>50%</sub> rockfish (including thornyheads).	4,579 mt	A stock is overfished if its current biomass is less than 25% of the unfished biomass level or if the current biomass is less than 50% of the biomass that would produce the maximum sustainable yield (MSY).	absolute estimates not calculated (only ratios)	absolute estimates not calculated (only ratios)

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<b>WEST COAST SALMON FISHERY MANAGEMENT PLAN</b>					
Chinook salmon - California Central Valley: Sacramento (fall)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	78% Proxy	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	122,000	91,500
Chinook salmon - Columbia River Basin: Upper River (summer)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	75%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	12,143	6,071
Chinook salmon - Columbia River Basin: Upper River Bright (fall)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	85.91%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	39,625	19,812
Chinook salmon - Northern California Coast: Klamath (fall)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	71%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	40,700	30,525
Chinook salmon - Oregon Coast: Central and Northern	Undefined	N/A	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	60 fish per mile in index streams	30 fish per mile in index streams
Chinook salmon - Oregon Coast: Southern	Undefined	N/A	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	60 fish per mile in index streams	30 fish per mile in index streams

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<b>Stock</b>	<b>Overfishing Definition</b>	<b>Estimate of Overfishing</b>	<b>Overfished Definition</b>	<b>Estimate of Bmsy or Proxy</b>	<b>Estimate of Overfished</b>
Chinook salmon - Washington Coast: Grays Harbor (fall)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	78% Proxy	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	11,388	5,694
Chinook salmon - Washington Coast: Grays Harbor (spring)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	78% Proxy	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	1,092	546
Chinook salmon - Washington Coast: Hoh (fall)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	90%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	1,200	600
Chinook salmon - Washington Coast: Hoh (spring/summer)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	78%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	900	450
Chinook salmon - Washington Coast: Hoko (summer/fall)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	78%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	850	425
Chinook salmon - Washington Coast: Queets (fall)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	87%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	2,500	1,250

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Chinook salmon - Washington Coast: Queets (spring/summer)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	78% Proxy	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	700	350
Chinook salmon - Washington Coast: Quillayute (fall)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	87%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	3,000	1,500
Chinook salmon - Washington Coast: Quillayute (spring/summer)	Currently undefined	undefined	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	1,200	600
Chinook salmon - Washington Coast: Willapa Bay Fall (natural)	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	78% Proxy	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	3,393	1,697
Coho salmon - Puget Sound: Hood Canal	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	65%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	14,350	10,750
Coho salmon - Puget Sound: Skagit	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	60%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	25,000	14,857

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Coho salmon - Puget Sound: Snohomish	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	60%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	50,000	31,000
Coho salmon - Puget Sound: Stillaguamish	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	50%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	10,000	6,100
Coho salmon - Washington Coast: Grays Harbor	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	65%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	24,426	18,320
Coho salmon - Washington Coast: Hoh	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	65%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	2,520	1,890
Coho salmon - Washington Coast: Queets	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	65%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	5,800	4,350
Coho salmon - Washington Coast: Quillayute (fall)	Undefined	N/A	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	6,300	4,725

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Coho salmon - Washington Coast: Strait of Juan de Fuca	A stock will be considered subject to overfishing when the postseason estimate of Ft exceeds the MFMT, where the MFMT is generally defined as less than or equal to FMSY.	60%	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	11,000	7,000
Pink salmon - Puget Sound (odd-numbered years)	Undefined	N/A	A stock will be considered overfished if the 3-year geometric mean of annual spawning escapements falls below the MSST, where MSST is generally defined as 0.5*SMSY or 0.75*SMSY, although there are some exceptions.	900,000	450,000
<p>1. An approaching overfished determination will be made if the geometric mean of the two most recent postseason estimates of spawning escapement, and the current preseason forecast of spawning escapement, is below the MSST.</p> <p>2. After an overfished status determination has been triggered, once the stock's 3-year geometric mean of spawning escapement exceeds the MSST, but remains below SMSY, or other identified rebuilding criteria, the stock status will be recognized as "not overfished-rebuilding". This status level requires no Council action, but rather is used to indicate that stock's status has improved from the overfished level but the stock has not yet rebuilt.</p> <p>3. The default criterion for determining that an overfished stock is rebuilt is when the 3-year geometric mean spawning escapement exceeds SMSY.</p>					
<b>COASTAL PELAGIC SPECIES FISHERY MANAGEMENT PLAN</b>					
Pacific chub mackerel - Pacific Coast	Overfishing occurs when F exceeds the Fmsy proxy.	44,346 mt	A stock is overfished when the biomass level is low enough to jeopardize the capacity of the stock to produce MSY on a continuing basis.	115,000 mt	18,200 mt
Pacific sardine - Pacific Coast	Overfishing occurs whenever catch exceeds ABC, which is the annual value of the MSY control rule	154,781 mt	A stock is overfished when the biomass level is low enough to jeopardize the capacity of the stock to produce MSY on a continuing basis. NOTE: Because Pacific sardine has boom and bust cycles that is largely driven by environmental conditions, B <sub>MSY</sub> is not estimated, but as long as the stock size is at least 3 times the Blimit level, the stock is considered to be sustainably managed.	not estimated	50,000 mt
Jack mackerel - Pacific Coast	Overfishing occurs whenever catch exceeds ABC, which, based on the default MSY control rule used for monitored species, is set at 25% of estimated MSY.	0.25	Undefined	Undefined	Undefined

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Northern anchovy - Southern Pacific Coast	Overfishing occurs whenever catch exceeds ABC, which, based on the default MSY control rule used for monitored species, is set at 25% of estimated MSY.	0.25	Undefined	Undefined	Undefined
Opalescent inshore squid - Pacific Coast	Overfishing occurs when market squid are harvested at a rate or level that results in egg escapement falling below 30 percent of the potential maximum level.	not estimated	A stock is overfished when the ratio of egg escapement compared to the potential maximum level results in a ratio below 30 percent.	not estimated	not estimated
<b>U.S. WEST COAST FISHERIES FOR HIGHLY MIGRATORY SPECIES FISHERY MANAGEMENT PLAN</b>					
Skipjack tuna - Eastern Tropical Pacific	Overfishing occurs if the fishing mortality rate exceeds MFMT or if catch exceeds overfishing limit (OFL) for 1 year or more.	not available	A stock is overfished when spawning stock biomass (SSB, or other reproductive potential) falls below the stock's MSST in a given year.	not available	not available
Yellowfin tuna - Eastern Tropical Pacific	Overfishing occurs if the fishing mortality rate exceeds MFMT or if catch exceeds overfishing limit (OFL) for 1 year or more.	not available	A stock is overfished when spawning stock biomass (SSB, or other reproductive potential) falls below the stock's MSST in a given year.	356,682 mt	not available
Bigeye tuna - Eastern Tropical Pacific	Overfishing occurs if the fishing mortality rate exceeds MFMT or if catch exceeds overfishing limit (OFL) for 1 year or more.	not available	A stock is overfished when spawning stock biomass (SSB, or other reproductive potential) falls below the stock's MSST in a given year.	320,818 mt	not available
Striped marlin - Eastern Tropical Pacific	Overfishing occurs if the fishing mortality rate exceeds MFMT or if catch exceeds overfishing limit (OFL) for 1 year or more.	not available	A stock is overfished when spawning stock biomass (SSB, or other reproductive potential) falls below the stock's MSST in a given year.	not available	not available
<b>U.S. WEST COAST FISHERIES FOR HIGHLY MIGRATORY SPECIES / PACIFIC PELAGICS FISHERIES OF THE WESTERN PACIFIC REGION FISHERY MANAGEMENT PLAN</b>					
Albacore tuna - North Pacific	Overfishing occurs if the fishing mortality rate exceeds MFMT or if catch exceeds overfishing limit (OFL) for 1 year or more.	not available	A stock is overfished when spawning stock biomass (SSB, or other reproductive potential) falls below the stock's MSST in a given year.	277,278 mt	not available
Blue shark - Pacific	Overfishing occurs if the fishing mortality rate exceeds MFMT or if catch exceeds overfishing limit (OFL) for 1 year or more.	0.14	A stock is overfished when spawning stock biomass (SSB, or other reproductive potential) falls below the stock's MSST in a given year.	299,800 mt	not available
Pacific bluefin tuna - Pacific	Overfishing occurs if the fishing mortality rate exceeds MFMT or if catch exceeds overfishing limit (OFL) for 1 year or more.	not estimated	A stock is overfished when spawning stock biomass (SSB, or other reproductive potential) falls below the stock's MSST in a given year.	124,498 mt	93,373.5 mt

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<b>PELAGIC FISHERIES OF THE WESTERN PACIFIC REGION FISHERY MANAGEMENT PLAN</b>					
Blue marlin - Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.8-1.6$ )	0.32	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.8-1.6$ )	19,436.5 mt	not available
Yellowfin Tuna - Central Western Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.8-1.6$ )	0.36	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.8-1.6$ )	1419	not available
Skipjack Tuna - Central Western Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M > 0.5$ )	0.8	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M > 0.5$ )	1.87	not available
Albacore - South Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.3$ )	0.16	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.3$ )	587,000 mt	not available
Striped marlin - Central Western Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.3$ )	0.61	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.3$ )	2,713 mt	not available
Indo-Pacific Blue Marlin - Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.2$ )	not available	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.2$ )	not available	not available

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<b>PELAGIC FISHERIES OF THE WESTERN PACIFIC REGION / WEST COAST HIGHLY MIGRATORY SPECIES FISHERY MANAGEMENT PLAN</b>					
Bigeye tuna - Central Western Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5.	0.16	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M=0.8$ ),	498,500 mt	not available
Swordfish - North Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.2$ )	not available	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.2$ )	not available	not available
Swordfish - Eastern Tropical Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.2$ )	0.13	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.2$ )	24,800 mt	17,360 mt
Swordfish - Central Western Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.2$ )	0.26	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. ( $M = 0.2$ )	57,300 mt	40,110 mt
Blue Shark - Pacific	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5.	0.14	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5.	not available	299,800 mt
<b>PRECIOUS CORAL FISHERIES OF THE WESTERN PACIFIC REGION FISHERY MANAGEMENT PLAN</b>					
Makapu'u Bed Precious Corals Multi-species Complex	Overfishing occurs when $F$ is greater than 0.066	0.066	A stock is overfished when the ratio of the total spawning stock biomass for all species combined to the estimated unfished total spawning stock biomass for all species combined (SPR) is less than 0.3, based on cohort analysis of the pink coral, <i>Corallium secundum</i> .	not estimated	not estimated

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<b>BOTTOMFISH AND SEAMOUNT GROUND FISH FISHERIES OF THE WESTERN PACIFIC REGION FISHERY MANAGEMENT PLAN</b>					
Main Hawaiian Islands Deep 7 Bottomfish Multi-species Complex	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. Effort ( $E$ ) is used as a proxy for $F$ . ( $M=0.3$ )	0.06	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. CPUE is used as a proxy for $B$ . ( $M=0.3$ )	14.59 million lbs	10.21 million lbs
American Samoa Bottomfish Multi-species Complex	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. Effort ( $E$ ) is used as a proxy for $F$ . ( $M=0.3$ )	0.24	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. CPUE is used as a proxy for $B$ . ( $M=0.3$ )	335,400 lbs	234,780 lbs
Northern Mariana Islands Bottomfish Multi-species Complex	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. Effort ( $E$ ) is used as a proxy for $F$ . ( $M=0.3$ )	0.26	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. CPUE is used as a proxy for $B$ . ( $M=0.3$ )	683,600 lbs	478,520 lbs
Guam Bottomfish Multi-species Complex	Overfishing occurs when $F$ is greater than $F_{MSY} B / c B_{MSY}$ if the stock biomass ( $B$ ) is less than or equal to $c B_{MSY}$ , or when $F$ is greater than $F_{MSY}$ if the stock biomass ( $B$ ) is greater than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. Effort ( $E$ ) is used as a proxy for $F$ . ( $M=0.3$ )	0.35	A stock is overfished when stock biomass ( $B$ ) is less than $c B_{MSY}$ , where $c$ is equal to the greater of 1 minus the natural mortality rate ( $M$ ) and 0.5. CPUE is used as a proxy for $B$ . ( $M=0.3$ )	162,200 lbs	113,540 lbs

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<b>GROUND FISH OF THE GULF OF ALASKA FISHERY MANAGEMENT PLAN</b>					
Arrowtooth flounder - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	229,248 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	347,295 mt	not available
Atka mackerel - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	6,200 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Dover sole - Gulf of Alaska (indicator stock for Deepwater Flatfish Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	16,159 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	19,855 mt	undefined
Dusky Rockfish (indicator species for Pelagic Shelf Rockfish Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	6,708 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	17,244 mt	not available
Flathead sole - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	50,664 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	32,258 mt	not available
Giant octopus - Gulf of Alaska (indicator stock for Octopus Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	2,009 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	not estimated	not available
Gulf of Alaska Blackspotted and Roughey Rockfish Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	1,497 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	7,198 mt	not available
Gulf of Alaska Deepwater Flatfish Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	7,823 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	24,690 mt	undefined

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Gulf of Alaska Octopus Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the “overfishing level” (OFL).	1,941 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined
Gulf of Alaska Other Deepwater Flatfish Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the “overfishing level” (OFL).	16,159 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined
Gulf of Alaska Other Rockfish Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the “overfishing level” (OFL).	5,347 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined
Gulf of Alaska Other Shallow Water Flatfish Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the “overfishing level” (OFL).	50,007 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined
Gulf of Alaska Sculpin Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the “overfishing level” (OFL).	7,448 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined
Gulf of Alaska Shallow Water Flatfish Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the “overfishing level” (OFL).	74,364 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined
Gulf of Alaska Shark Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the “overfishing level” (OFL).	7,986 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined
Gulf of Alaska Skate Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the “overfishing level” (OFL).	11,503 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined
Gulf of Alaska Squid Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the “overfishing level” (OFL).	1,530 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined

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Longnose skate - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	3,835 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Northern rock sole - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	50,007 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	18,100 mt	not available
Northern rockfish - Western / Central Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	6,349 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	24,485 mt	not available
Pacific cod - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	107,300 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	113,800 mt	not available
Pacific ocean perch - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	22,319 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	99,865 mt	not available
Rex sole - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	12,207 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	19,896 mt	not available
Rock sole - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	50,007 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	32,700 mt	not available
Shortraker rockfish - Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	1,764 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined

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Shortspine Thornyhead (indicator species for Thornyhead Rockfish Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	2,454 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Walleye pollock - Eastern Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	16,833 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Walleye pollock - Western / Central / West Yakutat Gulf of Alaska	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	211,998 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	262,344 mt	not available
Yelloweye Rockfish (indicator species for Demersal Shelf Rockfish Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	438 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
<b>GROUND FISH OF THE BERING SEA AND ALEUTIAN ISLANDS MANAGEMENT AREA FISHERY MANAGEMENT PLAN</b>					
Alaska plaice - Bering Sea / Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	66,800 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	115,087 mt	not available
Alaska skate - Bering Sea / Aleutian Islands (indicator for Bering Sea / Aleutian Islands Skate Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	41,849 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	65,423 mt	not available
Arrowtooth Flounder (indicator stock for Bering Sea / Aleutian Islands Arrowtooth Flounder Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	125,642 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	194,266 mt	not available
Atka mackerel - Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	74,492 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	118,697 mt	not available

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Bering Sea / Aleutian Islands Blackspotted and Rougheye Rockfish Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	505 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	9,977 mt	not available
Bering Sea / Aleutian Islands Other Flatfish Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	16,700 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Bering Sea / Aleutian Islands Other Rockfish Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	1,550 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Bering Sea / Aleutian Islands Other Skates Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	41,849 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Bering Sea / Aleutian Islands Sculpin Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	56,424 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Bering Sea / Aleutian Islands Shark Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	1,363 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Bering Sea / Aleutian Islands Squid Complex	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	2,624 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Flathead Sole (indicator stock for Bering Sea / Aleutian Islands Flathead Sole Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	79,633 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	111,722 mt	not available

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Giant octopus - Bering Sea / Aleutian Islands (indicator stock for Bering Sea - Aleutian Islands Octopus Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	3,450 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	undefined	undefined
Greenland halibut - Bering Sea / Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	2,647 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	44,255 mt	not available
Kamchatka flounder - Bering Sea / Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	8,270 mt	No $B_{MSY}$ estimate exists. Therefore, no MSST is defined.	46,400 mt	not available
Northern Rock Sole (indicator stock for Bering Sea / Aleutian Islands Rock Sole Complex)	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	228,700 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	257,000 mt	not available
Northern rockfish - Bering Sea / Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	12,077 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	50,547 mt	not available
Pacific cod - Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	20,100 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	not estimated	not available
Pacific cod - Bering Sea	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	299,000 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	282,000 mt	not available
Pacific ocean perch - Bering Sea / Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	39,585 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	148,053 mt	not available

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Shortraker rockfish - Bering Sea / Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	493 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Walleye Pollock - Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	42,811 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	72,437 mt	not available
Walleye Pollock - Bogoslof	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	13,413 mt	No B <sub>MSY</sub> estimate exists. Therefore, no MSST is defined.	undefined	undefined
Walleye Pollock - Eastern Bering Sea	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	2,795,000 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	1,984,200 mt	not available
Yellowfin sole - Bering Sea / Aleutian Islands	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	259,700 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	435,000 mt	not available
<b>GROUND FISH OF THE GULF OF ALASKA / GROUND FISH OF THE BERING SEA AND ALEUTIAN ISLANDS MANAGEMENT AREA FISHERY MANAGEMENT PLAN</b>					
Sablefish	Overfishing is defined as any rate of fishing in excess of the maximum fishing mortality threshold (MFMT). The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "overfishing level" (OFL).	16,225 mt	A stock is overfished when it falls below its MSST, defined as the minimum stock size at which rebuilding to the MSY level would be expected to occur within 10 years if the stock were exploited at the MFMT.	89,956 mt	not available
<b>BERING SEA / ALEUTIAN ISLANDS KING AND TANNER CRABS FISHERY MANAGEMENT PLAN</b>					
Blue King Crab - Pribilof Islands	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.2. The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	1.2 mt	A stock is overfished when it falls below MSST, which is equal to ½ the MSY stock size	4,002 mt	2,001 mt

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Blue King Crab - Saint Matthews Island	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.2. The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	562 mt	A stock is overfished when it falls below MSST, which is equal to 1/2 the MSY stock size	3,000 mt	1,500 mt
Golden King Crab - Aleutian Islands	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.2	5,690 mt	Overfished is not defined	undefined	undefined
Golden King Crab - Pribilof Islands	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.3. The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	91 mt	Overfished is not defined	undefined	undefined
Red King Crab - Bristol Bay	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.2. The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	7,070 mt	A stock is overfished when it falls below MSST, which is equal to 1/2 the MSY stock size	26,100 mt	13,050 mt
Red King Crab - Norton Sound	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.3. The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	180 mt	A stock is overfished when it falls below MSST, which is equal to 1/2 the MSY stock size	2,040 mt	1,020 mt
Red King Crab - Pribilof Islands	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.2. The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	903 mt	A stock is overfished when it falls below MSST, which is equal to 1/2 the MSY stock size	5,164 mt	2,582 mt
Red king crab - Western Aleutian Islands	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.3. The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	54 mt	Overfished is not defined	undefined	undefined
Snow Crab - Bering Sea	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.3. The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	78,100 mt	A stock is overfished when it falls below MSST, which is equal to 1/2 the MSY stock size	146,357 mt	73,178 mt
Southern Tanner Crab - Bering Sea	Overfishing is defined as any rate of fishing mortality in excess of M, where M = 0.3. The catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	31,480 mt	A stock is overfished when it falls below MSST, which is equal to 1/2 the MSY stock size	26,791 mt	13,395 mt

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<b>SCALLOP FISHERY OFF ALASKA FISHERY MANAGEMENT PLAN</b>					
Weathered Scallop - Alaska	Overfishing is defined as the catch corresponding to fishing at a rate equal to the MFMT is referred to as the "sustainable yield level" (SYL).	1,284,000 pounds of scallop meat	Overfished is not defined	undefined	undefined
<b>SALMON FISHERIES IN THE EEZ OFF THE COAST OF ALASKA FISHERY MANAGEMENT PLAN</b>					
Alaska Coho Salmon Assemblage	The Alaska coho salmon assemblage is subject to overfishing when the exploitation rate of any of the 4 indicator stocks is exceeded.		The Alaska coho salmon assemblage is overfished when adult spawner escapement (natural only) of any of the 4 indicator stocks is below the 50% MSY escapement goal from the most recent $T_{\text{coho}}$ years.		
	Indicator stock: Coho salmon - Auke Creeke	0.84	Indicator stock: Coho salmon - Auke Creeke	1360	680
	Indicator stock: Coho salmon - Berners River	0.76	Indicator stock: Coho salmon - Berners River	25,200	12,600
	Indicator stock: Coho salmon - Ford Arm Lake	0.85	Indicator stock: Coho salmon - Ford Arm Lake	8,200	4,100
	Indicator stock: Coho salmon - Hugh Smith Lake	0.91	Indicator stock: Coho salmon - Hugh Smith Lake	3,400	1,700
Chinook salmon - Eastern North Pacific Far North Migrating	The stock is subject to overfishing when catch of adult spawners (hatchery + natural) exceeds the level associated with the 50% escapement goal.	1,503,710	The stock is overfished when adult spawner escapement (hatchery + natural) is below the 50% escapement goal from the most recent $T_{\text{chin}}$ years.	1,299,545	649,773
<b>FISH RESOURCES OF THE ARCTIC MANAGEMENT AREA FISHERY MANAGEMENT PLAN</b>					
Arctic Cod - Arctic management area	Overfishing is defined as an annual catch in excess of the OFL, where the OFL is based on fishing at the arithmetic mean estimate of FMSY.	0.7	A stock is overfished if it falls below Bmsy.	8,298 mt	8,298 mt
Saffron Cod - Arctic management area	Overfishing is defined as an annual catch in excess of the OFL, where the OFL is based on fishing at the arithmetic mean estimate of FMSY.	0.62	A stock is overfished if it falls below Bmsy.	953 mt	953 mt
Snow Crab - Arctic management area	Overfishing is defined as an annual catch in excess of the OFL, where the OFL is based on fishing at the arithmetic mean estimate of FMSY.	0.36	A stock is overfished if it falls below $\frac{1}{2}$ Bmsy.	1,268 mt	634 mt

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<b>PACIFIC HALIBUT (Managed under International Agreement)</b>					
Pacific Halibut - Pacific Coast / Alaska	Overfishing is not defined	undefined	A stock is overfished if it falls below the minimum spawning biomass limit equal to 20% of the unfished level.	152.6 million lbs.	101.7 million lbs.

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Stock	Overfishing Definition	Estimate of Overfishing	Overfished Definition	Estimate of Bmsy or Proxy	Estimate of Overfished
<b>CONSOLIDATED ATLANTIC HIGHLY MIGRATORY SPECIES FISHERY MANAGEMENT PLAN</b>					
Albacore - North Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{limit} = F_{MSY}$ .	0.149	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{LIMIT} = (1-M)B_{MSY}$ when $M < 0.5$ ; $MSST = B_{LIMIT} = 0.5B_{MSY}$ when $M > 0.5$ .	81,110 mt	56,700 mt
Atlantic Sharpnose Shark - Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{limit} = F_{MSY}$ .	0.184	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{LIMIT} = (1-M)B_{MSY}$ when $M < 0.5$ ; $MSST = B_{LIMIT} = 0.5B_{MSY}$ when $M > 0.5$ . From 2002 stock assessment and 2003 Amendment 1.	4.86 million (numbers of sharks)	3.73 million (numbers of sharks)
Atlantic Sharpnose Shark - Gulf of Mexico	Overfishing occurs when the MFMT is exceeded, which is set at $F_{limit} = F_{MSY}$ .	0.331	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{LIMIT} = (1-M)B_{MSY}$ when $M < 0.5$ ; $MSST = B_{LIMIT} = 0.5B_{MSY}$ when $M > 0.5$ . From 2002 stock assessment and 2003 Amendment 1.	17.9 million (numbers of sharks)	13.3 million (numbers of sharks)
Bigeye Tuna - Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{limit} = F_{MSY}$ .	not available	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{LIMIT} = (1-M)B_{MSY}$ when $M < 0.5$ ; $MSST = B_{LIMIT} = 0.5B_{MSY}$ when $M > 0.5$ .	not available	not available
Blacknose Shark - Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{limit} = F_{MSY}$ .	0.01-0.15	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{LIMIT} = (1-M)B_{MSY}$ when $M < 0.5$ ; $MSST = B_{LIMIT} = 0.5B_{MSY}$ when $M > 0.5$ . From 2002 stock assessment and 2003 Amendment 1.	77,577-288,360 (number of sharks)	62,294-231,553 (number of sharks)
Blacktip Shark - Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{limit} = F_{MSY}$ .	not estimated	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{LIMIT} = (1-M)B_{MSY}$ when $M < 0.5$ ; $MSST = B_{LIMIT} = 0.5B_{MSY}$ when $M > 0.5$ . From 2006 stock assessment.	not estimated	not estimated
Blacktip Shark - Gulf of Mexico	Overfishing occurs when the MFMT is exceeded, which is set at $F_{limit} = F_{MSY}$ .	0.084	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{LIMIT} = (1-M)B_{MSY}$ when $M < 0.5$ ; $MSST = B_{LIMIT} = 0.5B_{MSY}$ when $M > 0.5$ . In 2006 stock assessment M ranged across ages; stock assessment unable to determine which model to use so range across all of them.	SSFmsy=1,570,000-6,440,000 (number of sharks)	1,327,697-5,446,093 (number of sharks)
Blue Marlin - Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{limit} = F_{MSY}$ .	0.07	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{LIMIT} = (1-M)B_{MSY}$ when $M < 0.5$ ; $MSST = B_{LIMIT} = 0.5B_{MSY}$ when $M > 0.5$ .	25,411 t (SSBmsy)	22,870 t

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NOTE: All criteria contained in this table are considered the best scientific information available. For some stocks, criteria have not yet been implemented in the Fishery Management Plan.

Stock	Overfishing Definition	Estimate of Overfishing	Overfished Definition	Estimate of Bmsy or Proxy	Estimate of Overfished
Blue Shark	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.19-0.20	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ . From ICCAT stock assessment.	not available	not available
Bluefin Tuna - West Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.17 (low recruitment) 0.064 (high recruitment)	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ .	SSB <sub>msy</sub> = 12,943 mt (low recruitment) SSB <sub>msy</sub> = 93,621 mt (high recruitment)	(11,131 mt, low recruitment) (80,514 mt, high recruitment)
Dusky Shark	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.01-0.05	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ . From 2006 Dusky Shark stock assessment; tables do not include M; used state space age structured model.	absolute estimates not calculated (only ratios)	not available
Finetooth Shark	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.03	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ . From 2002 stock assessment and 2003 Amendment 1.	3,200,000 (number of sharks)	2,400,000 (number of sharks)
Large Coastal Shark Complex	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	not estimated	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ . From 2006 stock assessment.	not estimated	not estimated
Longbill Spearfish - West Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	not estimated	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ .	not estimated	not estimated
Pelagic Shark Complex	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	not estimated	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ .	not estimated	not estimated
Porbeagle Shark	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.025-0.075	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ . From 2005 Canadian stock assessment; Assessment provides only Z, not M.	29,382 - 40,676 mt	not available
Sailfish - West Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	not estimated	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ .	not estimated	not estimated

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NOTE: All criteria contained in this table are considered the best scientific information available. For some stocks, criteria have not yet been implemented in the Fishery Management Plan.

Stock	Overfishing Definition	Estimate of Overfishing	Overfished Definition	Estimate of Bmsy or Proxy	Estimate of Overfished
Sandbar Shark	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.004-0.06	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ . In 2006 stock assessment M ranged from 0.1 to 0.2 depending on age.	349,330-1,377,800 (number of sharks)	301,821-1,190,419 (number of sharks)
Scalloped hammerhead - Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.11	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ .	62,000 (number of sharks)	not available
Shortfin Mako Shark	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.029-0.104	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ . From ICCAT stock assessment.	183,612-863,655 mt	not available
Skipjack Tuna - West Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	not estimated	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ .	not estimated	not estimated
Swordfish - North Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.222	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ .	61,860 mt	49,488 mt
White Marlin - Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	0.03	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ .	29,240 mt	23,171 - 26,112 mt
Yellowfin Tuna - Atlantic	Overfishing occurs when the MFMT is exceeded, which is set at $F_{\text{limit}} = F_{\text{MSY}}$ .	absolute estimates not calculated (only ratios)	A stock is overfished when the stock level biomass falls below MSST, which is set at $MSST = B_{\text{LIMIT}} = (1-M)B_{\text{MSY}}$ when $M < 0.5$ ; $MSST = B_{\text{LIMIT}} = 0.5B_{\text{MSY}}$ when $M > 0.5$ . For Yellowfin Tuna, $MSST = 0.5B_{\text{MSY}}$ .	absolute estimates not calculated (only ratios)	absolute estimates not calculated (only ratios)