

Coastal Pelagic FMP and the other species in the table are included in the Groundfish FMP. Although under the jurisdiction of the PFMFC, there are no

fishery management objectives for Central Valley chinook salmon and Central California Coast coho salmon because of their ESA listing (NMFS,

2002). There are also no fishery management goals for steelhead because fishery impacts are considered inconsequential (NMFS, 2002).

TABLE X-19.—SUMMARY OF STOCK STATUS OF HARVESTED SPECIES OF THE NORTHERN CALIFORNIA REGION THAT ARE IMPINGED AND ENTRAINED AND ARE INCLUDED IN FEDERAL FMP'S

Stock (species in bold are major stocks, with annual landings over 200,000 pounds)	Overfishing? Is fishing mortality above threshold?)	Overfished? (Is stock size below threshold?)	Approaching overfished condition?
Aurora rockfish	Unknown	Unknown	Unknown
Black rockfish	No	No	No
Black-and-yellow rockfish	Unknown	Unknown	Unknown
Blue rockfish	Unknown	Unknown	Unknown
Bocaccio	No	Yes	N/A
Cabazon	Unknown	Unknown	Unknown
California scorpionfish	Unknown	Unknown	Unknown
Central California Coast coho salmon ^a	N/A	N/A	N/A
Central Valley chinook salmon ^a	N/A	N/A	N/A
Chilipepper rockfish	No	No	No
Copper rockfish	Unknown	Unknown	Unknown
Gopher rockfish	Unknown	Unknown	Unknown
Grass rockfish	Unknown	Unknown	Unknown
Kelp rockfish	Unknown	Unknown	Unknown
Northern anchovy-central subpopulation	Undefined	Unknown
Olive rockfish	Unknown	Unknown	Unknown
Shortbelly rockfish	No	No	No
Starry flounder	Unknown	Unknown	Unknown
Steelhead ^b	N/A	N/A	N/A
Yellowtail rockfish	No	No	No

Source: Table 4 in NMFS (2002).

^a There are no fishery management goals for Central Valley chinook salmon and Central California Coast coho salmon because of their ESA listing (NMFS, 2002).

^b There are no fishery management goals for steelhead because fishery impacts are considered inconsequential (NMFS, 2002).

3. Impingement and Entrainment Losses
Expressed as Age 1 Equivalents,
Foregone Yield, and Production
Foregone

Table X-20 provides EPA's estimate
of the annual age 1 equivalents,

foregone fishery yield, and production
foregone resulting from the
impingement of aquatic species at
facilities located on estuaries/tidal
rivers in the Northern California Region.
Table X-21 displays this information for
entrainment. Table X-22 provides EPA's

estimate of the annual age 1 equivalents,
foregone fishery yield, and production
foregone resulting from the
impingement of aquatic species at ocean
facilities in the Northern California
Region. Table X-23 displays this
information for entrainment.

TABLE X-20.—TOTAL ANNUAL IMPINGEMENT LOSSES FOR ALL ESTUARY/TIDAL RIVER FACILITIES IN THE NORTHERN CALIFORNIA REGION EXPRESSED AS AGE 1 EQUIVALENTS, FOREGONE FISHERY YIELD, AND PRODUCTION FOREGONE

Species group	Age 1 equivalents (#s)	Total yield (lbs)	Production foregone
Anchovies	6,483,908	10,156	86,487
Bay shrimps	310,400	22	169
Cabazon	968	1,882	4,569
Chinook salmon	1,880	0	50,674
Croakers	6,737	390	710
Delta smelt	18,454	0	25
Dungeness crab	1,028	404	995
Flounders	56,767	4,652	16,970
Gobies	10,819	0	47
Herrings	545,982	25,560	65,791
Longfin smelt	189,940	0	6,553
Rock crabs	840,492	165	115,125
Rockfishes	257,596	62,420	164,021
Sacramento splittail	24,188	0	11,166
Sculpins	128,009	1,304	9,151
Silversides	888,074	39,672	202,453
Smelts	71,279	1,620	13,400
Striped bass	762,529	277,119	1,270,930
Surfperches	725,358	45,156	109,915
Total	11,324,407	470,522	2,129,153