

## Appendix A

### Determining the Species List for the *Annual Status of the Fisheries Reports*

The *Annual Status of the Fisheries Report* (ASFR) editors used the list of state-managed marine life in the MLMA Master Plan (*The Master Plan: A Guide for the Development of Fishery Management Plans*, Appendix D, August 2001) as the starting point for determining the species of marine life to include in the ASFRs. The ASFR editors included species or groups of species that appear on the MLMA Master Plan list for review in the ASFRs unless:

1. The species or group is not the subject of a directed recreational or commercial fishery, or harvest of the species or group is relatively minor or periodic.
2. Harvest of the species or group is prohibited.
3. The species or group is included in a Pacific Fishery Management Council fishery management plan and is not the subject of a State recovery or fishery management plan.
4. The group is not well defined (i.e., not a single species, or a list of a number of species).
5. The species or group is primarily estuarine or freshwater, or resides primarily outside of state waters.

Some species on the ASFR list are taken incidentally as bycatch or were formerly the subject of a directed fishery; these species will be monitored and given limited reviews. All other species on the ASFR list will receive a detailed review (full review) every four years.

List of all marine algae, vascular plants, invertebrates, and fishes that are managed by the State of California <sup>1</sup>				
Common name	Scientific name	FMP <sup>2</sup>	Reason(s) for exclusion <sup>3</sup> (notes)	Type of review <sup>4</sup> (review title for reviews covering multiple species)
<b>ALGAE</b>				
kelp, bull	<i>Nereocystis luetkeana</i>			Full
kelp, giant	<i>Macrocystis pyrifera</i>			Full
sea palm	<i>Postelsia palmaeformis</i>			Full
	Chlorophyta		1,4	
	<i>Fucus</i> spp.		1,4	
	<i>Gelidium</i>		1,4	
	<i>Gigartina</i>		1,4	
	<i>Gloiopeltis</i>		1,4	
	<i>Gracliaria</i>		1,4	
	<i>Laminaria</i>		1,4	
	<i>Mastocarpus</i>		1,4	
	<i>Mazaella (Iridaea)</i>		1,4	

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	<i>Monostrema</i>		1,4	
	Phaeophyta		1,4	
	<i>Porphyra</i>		1,4	
	<i>Pterocladia</i>		1,4	
	<i>Rhodoglossum</i>		1,4	
	Rhodophyta		1,4	
	<i>Sarcodiotheca</i>		1,4	
	Spermatophyta		1,4	
<b>VASCULAR PLANTS</b>				
eelgrass	<i>Zostera marina</i>		2	
surfgrass	<i>Phyllospadix</i> spp.		2	
<b>INVERTEBRATES</b>				
abalone, black	<i>Haliotis cracherodii</i>	AB		Full (abalones)
abalone, flat	<i>Haliotis walallensis</i>	AB		Full (abalones)
abalone, green	<i>Haliotis fulgens</i>	AB		Full (abalones)
abalone, pink	<i>Haliotis corrugata</i>	AB		Full (abalones)
abalone, pinto	<i>Haliotis kamtschatkana</i>	AB		Full (abalones)
abalone, red	<i>Haliotis rufescens</i>	AB		Full (abalones)
abalone, threaded	<i>Haliotis assimilis</i>	AB	No longer considered a separate species; synonymous with pinto abalone	
abalone, white	<i>Haliotis sorenseni</i>	AB		Full (abalones)
amphipod	Amphipoda		1,4	
anemone	Coelenterata		1,4 (commercial take prohibited)	
barnacle, acorn	<i>Balanus nubilus, B. aquila</i>		1 (commercial take prohibited)	

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barnacle, gooseneck	<i>Pollicipes polymerus</i>		1 (commercial take prohibited)	
barnacle, stalked	<i>Pollicipes</i> spp.		1 (commercial take prohibited)	
chione, banded	<i>Chione californiensis</i>			Full (littleneck clams)
chione, smooth	<i>Chione fluctifraga</i>			Full (littleneck clams)
chione, wavy	<i>Chione undatella</i>			Full
chiton	Polyplacophora		1,4	
clam, butter	<i>Saxidomus giganteus</i>		Minor fishery in Humboldt Bay	Limited
clam, California jackknife	<i>Tagelus californianus</i>			Limited
clam, common littleneck	<i>Protothaca staminea</i>			Full (littleneck clams)
clam, common Washington	<i>Saxidomus nuttalli</i>			Full (Washington clams)
clam, Pacific gaper	<i>Tresus nuttalli</i>			Full (gaper clams)
clam, fat gaper	<i>Tresus capax</i>			Full (gaper clams)
clam, geoduck	<i>Panopea generosa</i>			Full
clam, Japanese littleneck	<i>Tapes japonica, T. philippinarum</i>			Full (littleneck clams)
clam, northern quahog	<i>Mercenaria mercenaria</i>			Limited
clam, northern razor	<i>Siliqua patula</i>		commercial take prohibited	Limited
clam, Pismo	<i>Tivela stultorum</i>		commercial take prohibited	Full
clam, rosy razor	<i>Solen sicarius</i>		1	
clam, rough-sided littleneck	<i>Protothaca laciniata</i>			Full (littleneck clams)

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clam, softshell	<i>Mya arenaria</i>			Limited
clam, thin-shelled littleneck	<i>Protothaca tenerrima</i>			Full (littleneck clams)
cockle, basket	<i>Clinocardium nuttallii</i>		1	
coral	Coelenterata		1,4 (commercial take prohibited)	
cowrie, chestnut	<i>Cypraea spadicea</i>		1	
crab, box	<i>Lopholithodes foraminatus</i>			Limited
crab, brown rock	<i>Cancer antennarius</i>			Full (rock crabs)
crab, California king	<i>Paralithodes californiensis</i>		1	
crab, California hermit	<i>Pagurus spp., Isochelis sp.</i>		1	
crab, claws	<i>Cancer spp., Loxorhynchus grandis</i>		4	
crab, Dungeness	<i>Cancer magister</i>			Full
crab, fiddler	<i>Uca crenulata</i>		1 (commercial take prohibited)	
crab, forknose king	<i>Paralithodes rathbuni</i>		1	
crab, king	<i>Paralithodes spp.</i>		1	
crab, pelagic red	<i>Pleuroncodes planipes</i>		1	
crab, red rock	<i>Cancer productus</i>			Full (rock crabs)
crab, sand (mole crab)	<i>Emerita analoga</i>			Limited
crab, sheep	<i>Loxorhynchus grandis</i>			Full
crab, shore	<i>Pachygrapsus crassipes</i>		1	
crab, slender	<i>Cancer gracilis</i>			Limited
crab, tanner	<i>Chionoecetes tanneri</i>			Limited
crab, umbrella	<i>Cryptolithodes stichensis</i>		1 (commercial take prohibited)	
crab, yellow rock	<i>Cancer anthonyi</i>			Full (rock crabs)
cucumber, California sea	<i>Parastichopus californicus</i>			Full (sea cucumbers)
cucumber, sea	Holothuroidea		4	
cucumber, warty sea	<i>Parastichopus parvimensis</i>			Full (sea cucumbers)

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gorgonians	Gorgonacea		1,4 (commercial take prohibited)	
invertebrate, colonial	Cnidaria, Porifera		1,4 (commercial take prohibited)	
jellyfish	<i>Pelagia</i> spp.		1,4 (commercial take prohibited)	
limpet, owl	<i>Lottia gigantea</i>		commercial take prohibited	Full (intertidal invertebrates)
limpet, unspecified	Archaeogastropoda		1,4	
lobster, California spiny	<i>Panulirus interruptus</i>			Full
mantis shrimp, blueleg	<i>Hemisquilla ensigera</i>		1	
mussel	<i>Mytilus galloprovincialis</i> , <i>M. trossulus</i> , <i>M. californianus</i>			Limited
nudibranch, hermissenda	<i>Hemissenda crassicornis</i>			Limited
nudibranch, lion's mouth	<i>Melibe leonina</i>		1	
nudibranch, shagg rug	<i>Aeolidia papillosa</i>		1	
nudibranch, spanish shawl	<i>Flabellinopsis iodinea</i>		1	
octopus, two-spot	<i>Octopus bimaculoides</i> , <i>O. bimaculatus</i>			Limited
octopus, unspecified	<i>Octopus</i> spp.		4	
ophistobranch	Ophistobranchia		1,4	
oyster, unspecified	Ostreidae		1,4	
polychaete	Polychaeta		1,4	
prawn, golden	<i>Penaeus californiensis</i>			Full (prawns)
prawn, ridgeback	<i>Sicyonia ingentis</i>			Full (prawns)
prawn, spot	<i>Pandalus platyceros</i>			Full (prawns)
rock, live	Invertebrata		1,4 (commercial take prohibited)	
sand dollar	<i>Dendraster</i> spp.		1,4	
scallop, rock	<i>Crassadoma gigantea</i>		commercial take prohibited	Limited

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scallop, speckled (bay)	<i>Argopecten aequisulcatus</i>		1 (commercial take prohibited)	
sea hare, black	<i>Aplysia vaccaria</i>		1	
sea hare, California	<i>Aplysia californica</i>		1	
sea pansy	<i>Renilla kollikeri</i>		1	
sea pen	Pennatulacea		1,4	
sea slug	Opisthobranchia		1,4	
shrimp, bay	<i>Crangon franciscorum</i> , <i>C. nigricauda</i> , <i>C. nigromaculata</i> , <i>Palaemon macrodactylus</i>			Full (bay shrimp)
shrimp, blue mud	<i>Upogebia pugettensis</i>			Limited
shrimp, brine	<i>Artemia salina</i>		5	
shrimp, coonstriped	<i>Pandalus danae</i>			Full
shrimp, ghost	<i>Callinassa californiensis</i> , <i>Callinassa affinis</i> , <i>C. gigas</i>			Limited
shrimp, Pacific ocean (pink shrimp)	<i>Pandalus jordani</i>			Full
shrimp, red rock	<i>Lysmata californica</i>			Full
snail, moon	<i>Polinices</i> spp.			Limited
snail, sea	Gastropoda		1,4	
snail, three-winged murex	<i>Pteropurpura trialata</i>		1 (commercial take prohibited)	
snail, trivia	<i>Trivia solandri</i> , <i>T. californiana</i>		1 (commercial take prohibited)	
shell, top	Trochidae, Turbinidae, <i>Tegula</i> spp.			Full (intertidal invertebrates)
shell, wavy top	<i>Astraea undosa</i>			Full (subtidal snails)
spider, sea	Pycnogonida		1,4	
sponge	Porifera		1,4 (commercial take prohibited)	
squid, Humboldt (jumbo squid)	<i>Dosidicus gigas</i>		1,4	
squid, market	<i>Loligo opalescens</i>	CP**		Full
star, brittle	Ophiuroidea		1,4	
star, sea	Asteroidea		4	
tunicate	Urochordata		1,4	

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urchin, purple sea	<i>Strongylocentrotus purpuratus</i>			Full
urchin, red sea	<i>Strongylocentrotus franciscanus</i>			Full
urchin, white sea	<i>Lytechinus anamesus</i>		1	
whelk, kelle's	<i>Kelletia kelletii</i>			Full (subtidal snails)
worm, feather-duster	<i>Eudistylia polymorpha</i>		1 (commercial take prohibited)	
worm, marine	Polychaeta		1,4	
<b>FISHES</b>				
anchovy, northern	<i>Engraulis mordax</i>	CP	3	
barracuda, Pacific	<i>Sphyraena argentea</i>			Full
bass, barred sand	<i>Paralabrax nebulifer</i>			Full (sea basses)
bass, giant sea	<i>Stereolepis gigas</i>		2	
bass, kelp	<i>Paralabrax clathratus</i>			Full (sea basses)
bass, spotted sand	<i>Paralabrax maculatofasciatus</i>			Full (sea basses)
bass, striped	<i>Morone saxatilis</i>		5	
blacksmith	<i>Chromis punctipinnis</i>			Limited
bonito, Pacific	<i>Sarda chiliensis</i>			Full
butterfish (Pacific pompano)	<i>Peprilus simillimus</i>			Full
cabezon	<i>Scorpaenichthys marmoratus</i>	GF, NS		Full
cod, Pacific	<i>Gadus macrocephalus</i>	GF	3	
corbina, California	<i>Menticirrhus undulatus</i>		commercial take prohibited	Full (drums)
croaker, black	<i>Cheilotrema saturnum</i>		1 (covered in review of drums)	
croaker, spotfin	<i>Roncador stearnsi</i>		commercial take prohibited	Full (drums)
croaker, white	<i>Genyonemus lineatus</i>			Full (drums)
croaker, yellowfin	<i>Umbrina roncadore</i>		commercial take prohibited	Full (drums)
dolphin (fish)	<i>Coryphaena hippurus</i>	HM	3	
eel, California moray	<i>Gymnothorax mordax</i>		1	

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eel, monkeyface- (prickleback)	<i>Cebidichthys violaceus</i>	NS		Full
eel, wolf-	<i>Anarrhichthys ocellatus</i>		commercial take prohibited	Limited
escolar	<i>Lepidocybium flavobrunneum</i>	HM*	3	
eulachon	<i>Thaleichthys pacificus</i>		1 (covered in review of true smelts)	
flatnose, Pacific (finescale codling)	<i>Antimora microlepis</i>	GF	3	
flounder, arrowtooth	<i>Atheresthes stomias</i>	GF	3	
flounder, starry	<i>Platichthys stellatus</i>	GF	3	
flyingfish	<i>Exocoetidae spp.</i>		1	
garibaldi	<i>Hypsypops rubicundus</i>		2	
goby, blackeye	<i>Coryphopterus nicholsi</i>		1	
goby, bluebanded	<i>Lythrypnus dalli</i>		1	
goby, chameleon (oriental goby)	<i>Tridentiger trionocephalus</i>		1	
goby, yellowfin (oriental goby)	<i>Acanthogobius flavimanus</i>		1	
greenling, kelp	<i>Hexagrammos decagrammus</i>	NS		Full (greenlings)
greenling, painted	<i>Oxylebius pictus</i>		1 (covered in review of greenlings)	
greenling, rock	<i>Hexagrammos lagocephalus</i>	NS		Full (greenlings)
grenadier, Pacific rattail	<i>Coryphaenoides acrolepis</i>	GF	3	
grouper, broomtail	<i>Mycteroperca xenarcha</i>		5	
grouper, gulf	<i>Mycteroperca jordani</i>		5	
grunion, California	<i>Leuresthes tenuis</i>			Full (silversides)
guitarfish, shovelnose	<i>Rhinobatos productus</i>			Full (nearshore sharks and rays)
hagfish	<i>Eptatretus spp.</i>			Limited
halfmoon	<i>Medialuna californiensis</i>			Full (sea chubs)
halibut, California	<i>Paralichthys californicus</i>			Full
halibut, Greenland	<i>Reinhardtius hippoglossoides</i>		5	
halibut, Pacific	<i>Hippoglossus stenolepis</i>	GF	3	
herring roe on algae (sport)	<i>Clupea pallasii/ Algae</i>		4	
herring roe on kelp	<i>Clupea pallasii/ Macrocystis</i>		4	
herring, Pacific	<i>Clupea pallasii</i>			Full

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jacksmelt	<i>Atherinopsis californiensis</i>			Full (silversides)
kelpfish, giant	<i>Heterostichus rostratus</i>		1	
kelpfish, island	<i>Alloclinus holderi</i>		1	
killifish, California	<i>Fundulus parvipinnis</i>		1	
lamprey, Pacific	<i>Lampetra tridentata</i>		1	
lamprey, western river	<i>Lampetra ayresii</i>		1	
lingcod	<i>Ophiodon elongatus</i>	GF	3	
lizardfish, California	<i>Synodus lucioceps</i>		1 (bycatch)	Limited
louvar	<i>Luvarus imperialis</i>	HM*	3	
mackerel, bullet	<i>Auxis rochei</i>	HM*	3	
mackerel, chub (Pacific mackerel)	<i>Scomber japonicus</i>	CP	3	
mackerel, jack	<i>Trachurus symmetricus</i>	CP	3	
marlin, striped	<i>Tetrapturus audax</i>	HM	3	
midshipman, plainfin	<i>Porichthys notatus</i>		1	
mudsucker, longjaw	<i>Gillichthys mirabilis</i>		1	
mullet, striped	<i>Mugil cephalus</i>			Limited
needlefish, California	<i>Strongylura exilis</i>		1	
oilfish	<i>Ruvettus pretiosus</i>		1	
opah	<i>Lampris guttatus</i>	HM*	3	
opaleye	<i>Girella nigricans</i>			Full (sea chubs)
poacher	Agonidae		4 (commercial take prohibited)	
queenfish	<i>Seriphus politus</i>			Full (drums)
ratfish, spotted	<i>Hydrolagus colliei</i>	GF	3	
ray, bat	<i>Myliobatis californica</i>			Full (nearshore sharks and rays)
ray, Pacific electric	<i>Torpedo californica</i>			Limited
rockfish, aurora	<i>Sebastes aurora</i>	GF	3	
rockfish, bank	<i>Sebastes rufus</i>	GF	3	
rockfish, black	<i>Sebastes melanops</i>	GF, NS		Full (nearshore rockfishes and scorpion-fishes)

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rockfish, black-and-yellow	<i>Sebastes chrysomelas</i>	GF, NS		Full (nearshore rockfishes and scorpionfishes)
rockfish, blackgill	<i>Sebastes melanostomus</i>	GF	3	
rockfish, blue	<i>Sebastes mystinus</i>	GF, NS		Full (nearshore rockfishes and scorpionfishes)
rockfish, bocaccio	<i>Sebastes paucispinis</i>	GF	3	
rockfish, bronzespotted	<i>Sebastes gilli</i>	GF	3	
rockfish, brown	<i>Sebastes auriculatus</i>	GF, NS		Full (nearshore rockfishes and scorpionfishes)
rockfish, calico	<i>Sebastes dalli</i>	GF, NS		Full (nearshore rockfishes and scorpionfishes)
rockfish, canary	<i>Sebastes pinniger</i>	GF	3	
rockfish, chameleon	<i>Sebastes phillipsi</i>	GF	3	
rockfish, chilipepper	<i>Sebastes goodei</i>	GF	3	
rockfish, China	<i>Sebastes nebulosus</i>	GF, NS		Full (nearshore rockfishes and scorpionfishes)
rockfish, copper	<i>Sebastes caurinus</i>	GF, NS		Full (nearshore rockfishes and scorpionfishes)
rockfish, cowcod	<i>Sebastes levis</i>	GF	3	
rockfish, darkblotched	<i>Sebastes crameri</i>	GF	3	

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rockfish, dusky	<i>Sebastes ciliatus</i>	GF	3	
rockfish, dwarf-red	<i>Sebastes rufinanus</i>	GF	3	
rockfish, flag	<i>Sebastes rubrivinctus</i>	GF	3	
rockfish, freckled	<i>Sebastes lentiginosus</i>	GF	3	
rockfish, gopher	<i>Sebastes carnatus</i>	GF, NS		Full (nearshore rockfishes and scorpion-fishes)
rockfish, grass	<i>Sebastes rastrelliger</i>	GF, NS		Full (nearshore rockfishes and scorpion-fishes)
rockfish, greenblotched	<i>Sebastes rosenblatti</i>	GF	3	
rockfish, greenspotted	<i>Sebastes chlorostictus</i>	GF	3	
rockfish, greenstriped	<i>Sebastes elongatus</i>	GF	3	
rockfish, halfbanded	<i>Sebastes semicinctus</i>	GF	3	
rockfish, harlequin	<i>Sebastes variegatus</i>	GF	3	
rockfish, honeycomb	<i>Sebastes umbrosus</i>	GF	3	
rockfish, kelp	<i>Sebastes atrovirens</i>	GF, NS		Full (nearshore rockfishes and scorpion-fishes)
rockfish, Mexican	<i>Sebastes macdonaldi</i>	GF	3	
rockfish, olive	<i>Sebastes serranoides</i>	GF, NS		Full (nearshore rockfishes and scorpion-fishes)
rockfish, Pacific ocean perch	<i>Sebastes alutus</i>	GF	3	
rockfish, pink	<i>Sebastes eos</i>	GF	3	
rockfish, pinkrose	<i>Sebastes simulator</i>	GF	3	
rockfish, pygmy	<i>Sebastes wilsoni</i>	GF	3	

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rockfish, quillback	<i>Sebastes maliger</i>	GF, NS		Full (nearshore rockfishes and scorpionfishes)
rockfish, redbanded	<i>Sebastes babcocki</i>	GF	3	
rockfish, redstriped	<i>Sebastes proriger</i>	GF	3	
rockfish, rosethorn	<i>Sebastes helvomaculatus</i>	GF	3	
rockfish, rosy	<i>Sebastes rosaceus</i>	GF	3	
rockfish, roughey	<i>Sebastes aleutianus</i>	GF	3	
rockfish, sharpchin	<i>Sebastes zacentrus</i>	GF	3	
rockfish, shortbelly	<i>Sebastes jordani</i>	GF	3	
rockfish, shorttraker	<i>Sebastes borealis</i>	GF	3	
rockfish, silvergray	<i>Sebastes brevispinis</i>	GF	3	
rockfish, speckled	<i>Sebastes ovalis</i>	GF	3	
rockfish, splitnose	<i>Sebastes diploproa</i>	GF	3	
rockfish, squarespot	<i>Sebastes hopkinsi</i>	GF	3	
rockfish, starry	<i>Sebastes constellatus</i>	GF	3	
rockfish, stripetail	<i>Sebastes saxicola</i>	GF	3	
rockfish, swordspine	<i>Sebastes ensifer</i>	GF	3	
rockfish, tiger	<i>Sebastes nigrocinctus</i>	GF	3	
rockfish, treefish	<i>Sebastes serriceps</i>	GF, NS		Full (nearshore rockfishes and scorpionfishes)
rockfish, vermilion	<i>Sebastes miniatus</i>	GF	3	
rockfish, widow	<i>Sebastes entomelas</i>	GF	3	
rockfish, yelloweye	<i>Sebastes ruberrimus</i>	GF	3	
rockfish, yellowmouth	<i>Sebastes reedi</i>	GF	3	
rockfish, yellowtail	<i>Sebastes flavidus</i>	GF	3	
sablefish	<i>Anoplopoma fimbria</i>	GF	3	
salema	<i>Xenistius californiensis</i>		1	
salmon, chinook	<i>Oncorhynchus tshawytscha</i>	S	3	
salmon, coho	<i>Oncorhynchus kisutch</i>	S	2, 3	
salmon, pink	<i>Oncorhynchus gorbuscha</i>	S	3	
salmon, roe	<i>Oncorhynchus spp.</i>	S	3	
sanddab, longfin	<i>Citharichthys xanthostigma</i>			Full (sanddabs)
sanddab, Pacific	<i>Citharichthys sordidus</i>	GF	3	
sanddab, speckled	<i>Citharichthys stigmaeus</i>			Full (sanddabs)

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sardine, Pacific	<i>Sardinops sagax caeruleus</i>	CP	3	
sargo	<i>Anisotremus davidsoni</i>			Full
saury, Pacific	<i>Cololabis saira</i>		1	
scad, Mexican	<i>Decapterus scombrinus</i>		1	
scorpionfish, California	<i>Scorpaena guttata</i>	GF, NS		Full (nearshore rockfishes and scorpionfishes)
sculpin, buffalo	<i>Enophrys bison</i>		1	
sculpin, Pacific staghorn	<i>Leptocottus armatus</i>			Full
sculpin, prickly	<i>Cottus asper</i>		1	
sculpin, unspecified	Cottidae		1,4	
seabass, white	<i>Atractoscion nobilis</i>	WS		Full
senorita	<i>Oxyjulis californica</i>		1	
shad, American	<i>Alosa sapidissima</i>		5-fishery primarily in freshwater	
shark, basking	<i>Cetorhinus maximus</i>	HM*	3	
shark, blue	<i>Prionace glauca</i>	HM	3	
shark, brown smoothhound	<i>Mustelus henlei</i>			Full (nearshore sharks and rays)
shark, gray smoothhound	<i>Mustelus californicus</i>			Full (nearshore sharks and rays)
shark, horn	<i>Heterodontus francisci</i>		1	
shark, leopard	<i>Triakis semifasciata</i>	GF	3	
shark, Pacific angel	<i>Squatina californica</i>			Full (nearshore sharks and rays)
shark, salmon	<i>Lamna ditropis</i>	HM*	3	
shark, sevengill	<i>Notorynchus cepedianus</i>			Full (cow sharks)
shark, shortfin mako	<i>Isurus oxyrinchus</i>	HM	3	
shark, sixgill	<i>Hexanchus griseus</i>			Full (cow sharks)
shark, soupfin	<i>Galeorhinus zyopterus</i>	GF	3	
shark, spiny dogfish	<i>Squalus acanthias</i>	GF	3	
shark, swell	<i>Cephaloscyllium ventriosum</i>		1	

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shark, thresher	<i>Alopias vulpinus</i>	HM	3	
shark, thresher bigeye	<i>Alopias superciliosus</i>	HM*	3	
shark, thresher pelagic	<i>Alopias pelagicus</i>	HM*	3	
shark, white	<i>Carcharodon carcharias</i>	HM	2, 3	
shark/ray egg cases	Elasmobranch		4 (commercial take prohibited)	
sheephead, California	<i>Semicossyphus pulcher</i>	NS		Full
skate, big	<i>Raja binoculata</i>	GF	3	
skate, California	<i>Raja inornata</i>	GF	3	
skate, longnose	<i>Raja rhina</i>	GF	3	
skate, sandpaper	<i>Bathyraja interruptus (Raja kincaidii)</i>		1	
skate, starry	<i>Raja stellulata</i>		1	
smelt, delta	<i>Hypomesus transpacificus</i>		5	
smelt, longfin	<i>Spirinchus thaleichthys</i>		1 (covered in review of true smelts)	
smelt, night	<i>Spirinchus starksi</i>			Full (true smelts)
smelt, surf	<i>Hypomesus pretiosus</i>			Full (true smelts)
smelt, whitebait	<i>Allosmerus elongatus</i>			Full (true smelts)
sole, bigmouth	<i>Hippoglossina stomata</i>		1	
sole, butter	<i>Pleuronectes isolepis</i>	GF	3	
sole, C-O	<i>Pleuronichthys coenosus</i>		1	
sole, curlfin	<i>Pleuronichthys decurrens</i>	GF	3	
sole, dover	<i>Microstomus pacificus</i>	GF	3	
sole, English	<i>Pleuronectes vetulus</i>	GF	3	
sole, fantail	<i>Xystreurus liolepis</i>			Limited
sole, flathead	<i>Hippoglossoides elassodon</i>	GF	3	
sole, petrale	<i>Eopsetta jordani</i>	GF	3	
sole, rex	<i>Errex zachirus</i>	GF	3	
sole, rock	<i>Pleuronectes bilineatus</i>	GF	3	
sole, sand	<i>Psettichthys melanostictus</i>	GF	3	
sole, slender	<i>Lyopsetta exilis (Eopsetta exilis)</i>		1	
sole, unspecified	Pleuronectiformes		4	
steelhead (rainbow trout)	<i>Oncorhynchus mykiss</i>	S	3	
stickleback, threespine	<i>Gasterosteus aculeatus</i>		5	
stingray	Dasyatidae		4	
stingray, round	<i>Urolophus halleri</i>		1	

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sturgeon, green	<i>Acipenser medirostris</i>		5 (commercial take prohibited)	
sturgeon, white	<i>Acipenser transmontanus</i>		5 (commercial take prohibited)	
sunfish, ocean	<i>Mola mola</i>	HM*	3	
surfperch, barred	<i>Amphistichus argenteus</i>			Full (surfperches)
surfperch, black (perch)	<i>Embiotoca jacksoni</i>			Full (surfperches)
surfperch, calico	<i>Amphistichus koelzi</i>			Full (surfperches)
surfperch, dwarf (perch)	<i>Micrometrus minimus</i>			Full (surfperches)
surfperch, island	<i>Cymatogaster gracilis</i>		No longer considered a separate species; synonymous with shiner perch	
surfperch, kelp (perch)	<i>Brachyistius frenatus</i>			Full (surfperches)
surfperch, pile (perch)	<i>Rhacochilus vacca</i>			Full (surfperches)
surfperch, pink (seaperch)	<i>Zalembeius rosaceus</i>			Full (surfperches)
surfperch, rainbow (seaperch)	<i>Hypsurus caryi</i>			Full (surfperches)
surfperch, redbtail	<i>Amphistichus rhodoterus</i>			Full (surfperches)
surfperch, reef (perch)	<i>Micrometrus aurora</i>			Full (surfperches)
surfperch, rubberlip (seaperch)	<i>Rhacochilus toxotes</i>			Full (surfperches)
surfperch, sharpnose (seaperch)	<i>Phanerodon atripes</i>			Full (surfperches)
surfperch, shiner (perch)	<i>Cymatogaster aggregata</i>			Full (surfperches)
surfperch, silver	<i>Hyperprosopon ellipticum</i>			Full (surfperches)

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surfperch, spotfin	<i>Hyperprosopon anale</i>			Full (surfperches)
surfperch, striped (seaperch)	<i>Embiotoca lateralis</i>			Full (surfperches)
surfperch, walleye	<i>Hyperprosopon argenteum</i>			Full (surfperches)
surfperch, white (seaperch)	<i>Phanerodon furcatus</i>			Full (surfperches)
swordfish	<i>Xiphias gladius</i>	HM	3	
thornback	<i>Platyrrhinoidis triseriata</i>			Full (nearshore sharks and rays)
thornyhead, longspine	<i>Sebastobus altivelis</i>	GF	3	
thornyhead, shortspine	<i>Sebastobus alascanus</i>	GF	3	
tilapia, Mozambique	<i>Tilapia mossambica</i>		5	
tomcod, Pacific	<i>Microgadus proximus</i>			Limited
tonguefish, California (tongue sole)	<i>Symphurus atricauda</i>		1	
topsmelt	<i>Atherinops affinis</i>			Full (silversides)
tuna, albacore	<i>Thunnus alalunga</i>	HM	3	
tuna, bigeye	<i>Thunnus obesus</i>	HM	3	
tuna, bluefin	<i>Thunnus thynnus</i>	HM	3	
tuna, skipjack	<i>Katsuwonus pelamis</i>	HM	3	
tuna, skipjack black	<i>Euthynnus lineatus</i>	HM*	3	
tuna, yellowfin	<i>Thunnus albacares</i>	HM	3	
turbot, diamond	<i>Hypsopsetta guttulata</i>			Limited
turbot, hornyhead	<i>Pleuronichthys verticalis</i>		1	
turbot, spotted	<i>Pleuronichthys ritteri</i>		1	
whitefish, ocean	<i>Caulolatilus princeps</i>			Full
whiting, Pacific (Pacific hake)	<i>Merluccius productus</i>	GF	3	
wrasse, rock	<i>Halichoeres semicinctus</i>		1	
yellowtail	<i>Seriola lalandi</i>			Full
zebraperch	<i>Hermosilla azurea</i>		1 (covered in review of true smelts)	

1. List from Appendix D of *The Master Plan: A Guide for the Development of Fishery Management Plans*, August 2001.

2. FMP = Fishery Management Plan. Abbreviations for various FMPs:

AB = Abalone Recovery and Management Plan (DFG)

CP = Coastal Pelagic Species (PFMC), and CP\* = Monitored species only for the Coastal Pelagic Species Fishery Management Plan. Pacific Fishery Management Council has deferred management of squid to the State as long as management is consistent with federal

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<p>regulations.                      GF=Groundfish (PFMC)                      HM=Highly Migratory Species (PFMC), and HM*=Species included in the plan if it becomes targeted or significant bycatch, discard, or incidental catch.                      NS=Nearshore Fishery (DFG)                      S=Salmon (PFMC)                      WS=White Seabass (DFG)                      (Agencies responsible for drafting the plan: California Department of Fish and Game (DFG) and Pacific Fishery Management Council (PFMC))</p> <p>3. The reasons for excluding species or species groups from the <i>Status of the Fisheries Reports</i>:</p> <ol style="list-style-type: none"> <li>1. Not the subject of a directed fishery, harvest is relatively minor or harvest is periodic</li> <li>2. Harvest is prohibited</li> <li>3. Included in a Pacific Fishery Management Council fishery management plan and not the subject of a State recovery of fishery management plan</li> <li>4. Not specific (that is, not a single species or a group of species)</li> <li>5. Estuarine or freshwater species, or species that resides primarily outside of state waters</li> </ol> <p>4. Type of review: Full or Limited</p>				