

NBR FIRST EDITION UPDATE

**TABLE 7.2 SOUTHWEST REGION FISH BYCATCH BY STOCKS AND SPECIES** Species bycatch ratio = total regional bycatch of a species / (total regional landings of the species + total regional bycatch of the species). Landings data were not available at the stock level. Some bycatch ratios (marked \*\*) could not be developed, e.g., where bycatch was by weight and numbers of individuals, and landings were in pounds. Bycatch ratio cells are left blank when landings = 0.

COMMON NAME	SCIENTIFIC NAME	BYCATCH		SPECIES LANDINGS (POUNDS)	BYCATCH RATIO	FOOTNOTE(S)
		BYCATCH (POUNDS)	BYCATCH (INDIVIDUALS)			
<b>AMERICAN SHAD</b>						
American shad			8.00			
AMERICAN SHAD (Subtotal)	<i>Alosa sapidissima</i>	0.00	8.00	23,377	**	
<b>ARMED BOX CRAB</b>						
Armed box crab			1,676.00			
ARMED BOX CRAB (Subtotal)	<i>Platymera gaudichaudii</i>	0.00	1,676.00	0		
<b>BARRED SAND BASS</b>						
Barred sand bass			88.00			
BARRED SAND BASS (Subtotal)	<i>Paralabrax nebulifer</i>	0.00	88.00	0		
<b>BAT RAY</b>						
Bat ray			591.00			
BAT RAY (Subtotal)	<i>Myliobatis californica</i>	0.00	591.00	0		
<b>BIG SKATE</b>						
Big skate			295.00			
BIG SKATE (Subtotal)	<i>Raja binoculata</i>	0.00	295.00	0		
<b>BIGEYE THRESHER</b>						
Bigeye thresher			8.00			
BIGEYE THRESHER (Subtotal)	<i>Alopias superciliosus</i>	0.00	8.00	0		
<b>BIGMOUTH SOLE</b>						
Bigmouth sole			16.00			
BIGMOUTH SOLE (Subtotal)	<i>Hippoglossina stomata</i>	0.00	16.00	0		
<b>BLUE SHARK</b>						
Blue shark - Pacific			233.00			
BLUE SHARK (Subtotal)	<i>Prionace glauca</i>	0.00	233.00	0		

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		BYCATCH (POUNDS)	BYCATCH (INDIVIDUALS)			
<b>BLUNTNOSE SEVENGILL SHARK</b>						
Bluntnose sevengill shark	<i>Notorynchus cepedianus</i>		8.00			
BLUNTNOSE SEVENGILL SHARK (Subtotal)		0.00	8.00		0	
<b>BOCACCIO</b>						
Bocaccio - Southern Pacific Coast	<i>Sebastes paucispinis</i>		16.00		137	**
BOCACCIO (Subtotal)		0.00	16.00			
<b>BROWN ROCKFISH</b>						
Brown rockfish - Pacific Coast	<i>Sebastes auriculatus</i>		8.00		0	
BROWN ROCKFISH (Subtotal)		0.00	8.00			
<b>BROWN SMOOTHHOUND SHARK</b>						
Brown smoothhound shark	<i>Mustelus henlei</i>		958.00		0	
BROWN SMOOTHHOUND SHARK (Subtotal)		0.00	958.00			
<b>CABEZON</b>						
Cabezon - California	<i>Scorpaenichthys marmoratus</i>		72.00		364	**
CABEZON (Subtotal)		0.00	72.00			
<b>CALIFORNIA BUTTERFLY RAY</b>						
California butterfly ray	<i>Gymnura marmorata</i>		8.00		0	
CALIFORNIA BUTTERFLY RAY (Subtotal)		0.00	8.00			
<b>CALIFORNIA HALIBUT</b>						
California halibut	<i>Paralichthys californicus</i>		184.00		104,013	**
CALIFORNIA HALIBUT (Subtotal)		0.00	184.00			
<b>CALIFORNIA SCORPIONFISH</b>						
California scorpionfish - Southern California	<i>Scorpaena guttata</i>		263.00		0	
CALIFORNIA SCORPIONFISH (Subtotal)		0.00	263.00			
<b>CALIFORNIA SHEEPHEAD</b>						
California sheephead	<i>Semicossyphus pulcher</i>		8.00		3,878	**
CALIFORNIA SHEEPHEAD (Subtotal)		0.00	8.00			
<b>CALIFORNIA SKATE</b>						
California skate	<i>Raja inornata</i>		830.00		0	
CALIFORNIA SKATE (Subtotal)		0.00	830.00			

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		BYCATCH (POUNDS)	BYCATCH (INDIVIDUALS)			
<b>CALIFORNIA SPINY LOBSTER</b>						
California spiny lobster	<i>Panulirus interruptus</i>		144.00	716,256	**	
CALIFORNIA SPINY LOBSTER (Subtotal)		0.00	144.00			
<b>COPPER ROCKFISH</b>						
Copper rockfish	<i>Sebastes caurinus</i>		8.00	0		
COPPER ROCKFISH (Subtotal)		0.00	8.00			
<b>FISHES (OTHER, UNIDENTIFIED) (group)</b>						
Fishes (other, unidentified) (group)			8.00	0		
FISHES (OTHER, UNIDENTIFIED) (group) (Subtotal)		0.00	8.00			
<b>FISHES (UNIDENTIFIED) (group)</b>						
Fishes (unidentified) (group)			24.00	0		
FISHES (UNIDENTIFIED) (group) (Subtotal)		0.00	24.00			
<b>FLATFISHES (UNIDENTIFIED) (group)</b>						
Flatfishes (unidentified) (group)	<i>Pleuronectiformes</i>		24.00	0		
FLATFISHES (UNIDENTIFIED) (group) (Subtotal)		0.00	24.00			
<b>GARIBALDI</b>						
Garibaldi	<i>Hypsypops rubicundus</i>		8.00	0		
GARIBALDI (Subtotal)		0.00	8.00			
<b>GIANT SEA BASS</b>						
Giant sea bass	<i>Stereolepis gigas</i>		24.00	8,713	**	
GIANT SEA BASS (Subtotal)		0.00	24.00			
<b>GRAY SMOOTHHOUND SHARK</b>						
Gray smoothhound shark	<i>Mustelus californicus</i>		8.00	0		
GRAY SMOOTHHOUND SHARK (Subtotal)		0.00	8.00			
<b>HORN SHARK</b>						
Horn shark	<i>Heterodontus francisci</i>		8.00	0		
HORN SHARK (Subtotal)		0.00	8.00			
<b>HORNYHEAD TURBOT</b>						
Hornyhead turbot	<i>Pleuronichthys verticalis</i>		56.00	0		
HORNYHEAD TURBOT (Subtotal)		0.00	56.00			

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		BYCATCH (POUNDS)	BYCATCH (INDIVIDUALS)			
<b>INVERTEBRATES (UNIDENTIFIED) (group)</b>						
Invertebrates (unidentified) (group)			16.00		0	
INVERTEBRATES (UNIDENTIFIED) (group) (Subtotal)		0.00	16.00			
<b>KELP BASS</b>						
Kelp bass	<i>Paralabrax clathratus</i>		24.00		0	
KELP BASS (Subtotal)		0.00	24.00			
<b>LEOPARD SHARK</b>						
Leopard shark	<i>Triakis semifasciata</i>		327.00		3,467	**
LEOPARD SHARK (Subtotal)		0.00	327.00			
<b>LINGCOD</b>						
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>		24.00		737	**
LINGCOD (Subtotal)		0.00	24.00			
<b>LONGNOSE SKATE</b>						
Longnose skate - Pacific Coast	<i>Raja rhina</i>		184.00		0	
LONGNOSE SKATE (Subtotal)		0.00	184.00			
<b>LOUVAR</b>						
Louvar	<i>Luvarus imperialis</i>		8.00		0	
LOUVAR (Subtotal)		0.00	8.00			
<b>LUMPTAIL SEAROBIN</b>						
Lumptail searobin	<i>Prionotus stephanophrys</i>		8.00		0	
LUMPTAIL SEAROBIN (Subtotal)		0.00	8.00			
<b>NORTHERN ANCHOVY</b>						
Northern anchovy - Southern Pacific Coast	<i>Engraulis mordax</i>		24.00		2,260,107	**
NORTHERN ANCHOVY (Subtotal)		0.00	24.00			
<b>OCEAN SUNFISH</b>						
Ocean sunfish	<i>Mola mola</i>		5,910.00		0	
OCEAN SUNFISH (Subtotal)		0.00	5,910.00			
<b>OCEAN WHITEFISH</b>						
Ocean whitefish	<i>Caulolatilus princeps</i>		16.00		0	
OCEAN WHITEFISH (Subtotal)		0.00	16.00			

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		BYCATCH (POUNDS)	BYCATCH (INDIVIDUALS)			
<b>OCTOPUS (UNIDENTIFIED) (group)</b>						
Octopus (unidentified) (group)	Octopoda		64.00	0		
OCTOPUS (UNIDENTIFIED) (group) (Subtotal)		0.00	64.00			
<b>PACIFIC ANGEL SHARK</b>						
Pacific angel shark	<i>Squatina californica</i>		216.00	15,950	**	
PACIFIC ANGEL SHARK (Subtotal)		0.00	216.00			
<b>PACIFIC BARRACUDA</b>						
Pacific barracuda	<i>Sphyraena argentea</i>		91.00	39,831	**	
PACIFIC BARRACUDA (Subtotal)		0.00	91.00			
<b>PACIFIC CHUB MACKEREL</b>						
Pacific chub mackerel - Pacific Coast	<i>Scomber japonicus</i>		12,303.00	4,531,575	**	
PACIFIC CHUB MACKEREL (Subtotal)		0.00	12,303.00			
<b>PACIFIC ELECTRIC RAY</b>						
Pacific electric ray	<i>Torpedo californica</i>		25.00	0		
PACIFIC ELECTRIC RAY (Subtotal)		0.00	25.00			
<b>PACIFIC HAGFISH</b>						
Pacific hagfish	<i>Eptatretus stoutii</i>		8.00	0		
PACIFIC HAGFISH (Subtotal)		0.00	8.00			
<b>PACIFIC HAKE</b>						
Pacific hake - Pacific Coast	<i>Merluccius productus</i>		8.00	0		
PACIFIC HAKE (Subtotal)		0.00	8.00			
<b>PACIFIC POMPANO</b>						
Pacific pompano	<i>Peprilus simillimus</i>		24.00	0		
PACIFIC POMPANO (Subtotal)		0.00	24.00			
<b>PACIFIC SANDDAB</b>						
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>		80.00	0		
PACIFIC SANDDAB (Subtotal)		0.00	80.00			
<b>PACIFIC SARDINE</b>						
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>		32.00	74,201,083	**	
PACIFIC SARDINE (Subtotal)		0.00	32.00			

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		BYCATCH (POUNDS)	BYCATCH (INDIVIDUALS)			
<b>PINK SEAPERCH</b>						
Pink seaperch	<i>Zalemnius rosaceus</i>		16.00		0	
PINK SEAPERCH (Subtotal)		0.00	16.00			
<b>REMORAS (group)</b>						
Remoras (group)	Remora		17.00		0	
REMORAS (group) (Subtotal)		0.00	17.00			
<b>ROCK CRABS (group)</b>						
Rock crabs (group)	Decapoda		1,006.00		0	
ROCK CRABS (group) (Subtotal)		0.00	1,006.00			
<b>ROCKFISHES (UNIDENTIFIED) (group)</b>						
Rockfishes (unidentified) (group)	<i>Sebastes</i>		16.00		0	
ROCKFISHES (UNIDENTIFIED) (group) (Subtotal)		0.00	16.00			
<b>ROUND STINGRAY</b>						
Round stingray	<i>Urobatis halleri</i>		8.00		0	
ROUND STINGRAY (Subtotal)		0.00	8.00			
<b>SALMON SHARK</b>						
Salmon shark	<i>Lamna ditropis</i>		25.00		0	
SALMON SHARK (Subtotal)		0.00	25.00			
<b>SAND CRABS (group)</b>						
Sand crabs (group)	Decapoda		16.00		0	
SAND CRABS (group) (Subtotal)		0.00	16.00			
<b>SAND SOLE</b>						
Sand sole - Pacific Coast	<i>Psettichthys melanostictus</i>		16.00		0	
SAND SOLE (Subtotal)		0.00	16.00			
<b>SANDDABS (UNIDENTIFIED) (group)</b>						
Sanddabs (unidentified) (group)	Citharichthys		8.00		0	
SANDDABS (UNIDENTIFIED) (group) (Subtotal)		0.00	8.00			
<b>SCULPINS (UNIDENTIFIED) (group)</b>						
Sculpins (unidentified) (group)	Cottidae		32.00		0	
SCULPINS (UNIDENTIFIED) (group) (Subtotal)		0.00	32.00			

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		BYCATCH (POUNDS)	BYCATCH (INDIVIDUALS)			
<b>SEA CUCUMBERS (group)</b>						
Sea cucumbers (group)	Holothuriidae		223.00		0	
SEA CUCUMBERS (group) (Subtotal)		0.00	223.00			
<b>SEA STARS (group)</b>						
Sea stars (group)	Asteroidea		56.00		0	
SEA STARS (group) (Subtotal)		0.00	56.00			
<b>SEA URCHINS (group)</b>						
Sea urchins (group)	Echinoidea		56.00		0	
SEA URCHINS (group) (Subtotal)		0.00	56.00			
<b>SHORTFIN MAKO</b>						
Shortfin mako	<i>Isurus oxyrinchus</i>		64.00	41,421	**	
SHORTFIN MAKO (Subtotal)		0.00	64.00			
<b>SHOVELNOSE GUITARFISH</b>						
Shovelnose guitarfish	<i>Rhinobatos productus</i>		112.00		0	
SHOVELNOSE GUITARFISH (Subtotal)		0.00	112.00			
<b>SKATES (UNIDENTIFIED) (group)</b>						
Skates (unidentified) (group)	Rajidae		32.00		0	
SKATES (UNIDENTIFIED) (group) (Subtotal)		0.00	32.00			
<b>SLENDER SOLE</b>						
Slender sole	<i>Lyopsetta exilis</i>		56.00		0	
SLENDER SOLE (Subtotal)		0.00	56.00			
<b>SPIDER CRABS (group)</b>						
Spider crabs (group)	Decapoda		1,165.00		0	
SPIDER CRABS (group) (Subtotal)		0.00	1,165.00			
<b>SPINY DOGFISH</b>						
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>		1,208.00		0	
SPINY DOGFISH (Subtotal)		0.00	1,208.00			
<b>SPOTTED RATFISH</b>						
Spotted ratfish	<i>Hydrolagus colliciei</i>		184.00		0	
SPOTTED RATFISH (Subtotal)		0.00	184.00			

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		BYCATCH (POUNDS)	BYCATCH (INDIVIDUALS)			
<b>STARRY SKATE</b>						
Starry skate	<i>Raja stellulata</i>		16.00		0	
STARRY SKATE (Subtotal)		0.00	16.00			
<b>STRIPED MARLIN</b>						
Striped marlin	<i>Kajikia audax</i>		8.00		0	
STRIPED MARLIN (Subtotal)		0.00	8.00			
<b>SWELL SHARK</b>						
Swell shark	<i>Cephaloscyllium ventriosum</i>		1,405.00		0	
SWELL SHARK (Subtotal)		0.00	1,405.00			
<b>THORNBACK</b>						
Thornback	<i>Platyrrhinoidis triseriata</i>		64.00		0	
THORNBACK (Subtotal)		0.00	64.00			
<b>THRESHER SHARK</b>						
Thresher shark	<i>Alopias vulpinus</i>		368.00	191,063	**	
THRESHER SHARK (Subtotal)		0.00	368.00			
<b>TOPE</b>						
Tope	<i>Galeorhinus galeus</i>		216.00	3,959	**	a
TOPE (Subtotal)		0.00	216.00			
<b>TREEFISH</b>						
Treefish	<i>Sebastes serriceps</i>		24.00		0	
TREEFISH (Subtotal)		0.00	24.00			
<b>VERMILION ROCKFISH</b>						
Vermilion rockfish - California	<i>Sebastes miniatus</i>		56.00	246	**	
VERMILION ROCKFISH (Subtotal)		0.00	56.00			
<b>WHITE CROAKER</b>						
White croaker	<i>Genyonemus lineatus</i>		80.00	3,519	**	
WHITE CROAKER (Subtotal)		0.00	80.00			
<b>WHITE SEABASS</b>						
White seabass	<i>Atractoscion nobilis</i>		144.00	448,954	**	
WHITE SEABASS (Subtotal)		0.00	144.00			
<b>GRAND TOTAL</b>		<b>0.00</b>	<b>31,671.00</b>	<b>82,594,691</b>		

Table 7.2



**FOOTNOTES:**

a Species is commonly known as soupfin shark.