

Appendix 2a. Observed finfish trawl catch from 2018–2022 (16 June–14 March) for southern California CHTG (WCGOP 2023, 2024). (Unid = unidentified to species). Discard counts include estimates based on species subsamples that are expanded to haul level.

Species	Retained kgs	Discard Count	Discard kgs
anchovy unid	70.0	2	0.0
banded guitarfish	0	1	1.0
barred sand bass	0	252	262.0
bass unid	0	NA	2.0
bat ray	2,780.1	928	6,539.1
bay pipefish	0	3	0.0
big skate	166.0	54	278.0
bocaccio rockfish	0	1	0.0
brown rockfish	29.0	35	14.0
brown smoothhound shark	0	128	161.0
cabezon	0	2	2.0
California barracuda	12.0	NA	0
California butterfly ray	0	1	13.2
California halibut	10,918.1	2,663	3,554.0
California lizardfish	36.0	1,931	452.0
California scorpionfish	576.0	1,355	324.0
California sheephead	16.0	5	7.0
California skate	358.0	12,917	4,808.0
C-O (C-O Turbot) sole	0	3	0.0
combfish unid	0	NA	342.0
common thresher shark	84.0	2	4.0
copper rockfish	0	52	2.0
croaker unid	1.0	NA	0
curlfin sole	7.0	219	40.0
cuskeel unid	0	1	0.0
diamond turbot	0	2	1.0
Dover sole	0	57	4.0
eelpout unid	0	4	0.0
egg case unid	0	17	1.0
English sole	324.0	3,518	492.0
fantail sole	511.0	2,272	756.0
flatfish unid	10.0	NA	14.0
giant sea bass	0	5	10.0
gray smoothhound shark	0	3	4.0

Species	Retained kgs	Discard Count	Discard kgs
halfbanded rockfish	0	34	1.0
horn shark	0	76	72.0
hornyhead turbot	206.0	10,479	1,431.0
kelp rockfish	0	2	0.0
leopard shark	42.0	1	20.0
lingcod	0	26	5.0
longfin sanddab	0	3,691	112.0
longspine combfish	0	103,977	2,479.0
Mexican rockfish	0	5	0.0
midshipman (Toadfish)	0	4114	609.0
mixed species	0.0	NA	7.0
nearshore rockfish unid	1.0	NA	0
northern anchovy	1.0	297	4.0
ocean whitefish	0	22	3.0
Pacific angel shark	2,976.1	2,260.4	5,462.0
Pacific butterfish	3.0	172	7.1
Pacific hake	0	8	3.0
Pacific sanddab	8.0	844	58.0
Pacific sardine	0	3	0.0
Pacific staghorn sculpin	0	2	0.0
painted greenling	0	1	0.0
pink surfperch	0	263	8.0
plainfin midshipman	0	46	52.0
lueenfish	0	154	8.0
ray unid	0	1	14.0
rock sole	133.0	NA	0
sand sole	4.0	2	1.0
sanddab unid	10.0	NA	0
sarcastic fringehead	0	11	1.0
sculpin unid	0	681	7.0
sevengill shark	0	5	26.0
shark unid	12.0	16	82.0
shark unid	21.0	1	0
shiner surfperch	0	3	0.0
shovelnose guitarfish	0	37	86.0
skate unid	371.0	2	0
smooth stargazer	0	81	30.0

Species	Retained kgs	Discard Count	Discard kgs
smoothhound shark unid	33	NA	12.0
soupfin shark	0	1	34.0
speckled sanddab	0	22	1.0
specklefin midshipman	0	289	94.0
spiny dogfish shark	77.0	55	282.0
splitnose searobin	0	2	0.0
spotted batfish	0	19	1.0
spotted ratfish	0	56	251.3
spotted turbot	0	49	8.0
squarespot rockfish	0	7	0.0
starry skate	0	3	1.0
stripetail rockfish	0	119	2.0
surfperch unid	0	4,452	110.0
thornback	0	72	54.0
thresher shark unid	4.4	NA	0
Vermilion rockfish	17.0	252	2.0
white croaker	136.0	7,652	713.0
white sea bass	24.0	2	16.0
Total	9,063.7	166,802.4	30,196.5

Appendix 2b. Observed invertebrate trawl catch from 2018–2022 (16 June–14 March) for southern California CHTG (WCGOP 2023, 2024). (Unid = unidentified to species). Discard counts include estimates based on species subsamples that are expanded to haul level.

Species	Retained kg	Discard Count	Discard kg
armed box crab	0	1,030	170.0
bivalve Unid	0	62	2.0
bobtail squid	0	24	1.0
brittle/basket star unid	0	2	0.0
California sea cucumber	0	142	42.0
California spiny lobster	0	NA	11.0
crab unid	49.7	NA	54.0
crab unid	94.0	NA	0
decorator/spider crab Unid	0	4	0.0
dungeness crab	0	13	9.0
graceful crab	0	1,714	237.0

Species	Retained kg	Discard Count	Discard kg
horny gorgonian	0	5	0.0
Humboldt (jumbo) squid	0	NA	5.0
invertebrate unid	0.1	NA	20.0
isopod unid	0	22	0.0
jellyfish unid	0	59	39.0
kelp crab unid	0	14	2.0
king crab unid	5.0	NA	0
market squid	77.6	NA	0
masking crab	0	4	1.0
mollusk unid	0	2	1.0
non-Humboldt squid unid	54.0	4,563	146.0
nudibranch unid	0	240	39.0
octopus unid	0	441	18.0
Pacific rock crab	0	89	27.0
purple globe crab	0	13	2.0
pyrosome unid	0	844	0.1
red rock crab	1,137.0	22	206.0
ridgeback prawn	0	1,101	13.0
rock crab	8.0	2	7.0
sea anemone unid	0	17	8.0
sea cucumber unid	0	127	26.0
sea pansy	0	1	0.0
sea pen	0	56	1.0
sea star unid	0	4,687	20.0
sheep crab	7.0	932	1,062.0
shrimp unid	2.0	4,928	1,010.0
spiny lobster unid	0	169	111.0
spot prawn	0	18	0.0
tunicate unid	0	48	2.0
urchin unid	0	18	0.0
Xantus swimming crab	0	16	0.0
yellow rock crab	0	1,783	540.0
Total	1,434.3	23,212	3,832.1