



# MARINE REGION

## 2022 BY THE NUMBERS

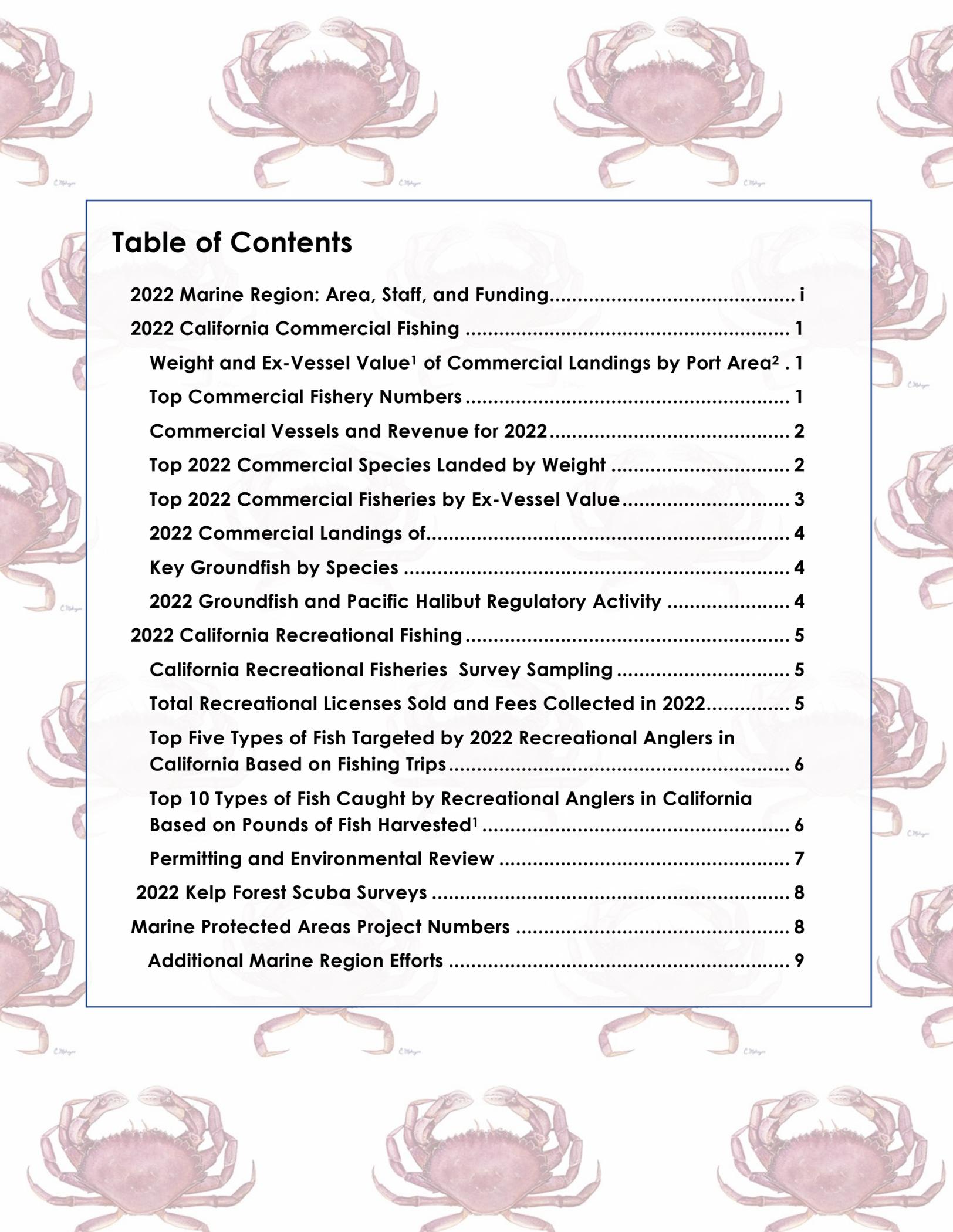
# **2022 Marine Region: Area, Staff, and Funding**

***The Marine Region encompasses approximately 5,767 square statute miles of state waters, including San Francisco Bay and San Pablo Bay to the Carquinez Bridge.***

***For the 2021-2022 fiscal year, the Marine Region budget was \$30,050,801***

***As of December 31<sup>st</sup>, 2022,  
155 permanent staff and  
81 scientific aids  
worked within the Marine Region.***

**Cover photo of Market Squid - CDFW.  
Scientific illustrations by CDFW Environmental Scientist Claudia Makeyev.**

The page features a decorative border of crabs, likely Dungeness crabs, in a light purple/pinkish hue. The crabs are arranged in a grid-like pattern, with some larger and more prominent than others, creating a textured background for the central text box.

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# 2022 California Commercial Fishing

## Weight and Ex-Vessel Value<sup>1</sup> of Commercial Landings by Port Area<sup>2</sup>

Port Area	Pounds	Ex-Vessel Value
Santa Barbara	107,798,709	\$87,825,121.98
Los Angeles	38,534,245	\$32,993,064.19
San Francisco	4,409,312	\$22,165,109.42
Eureka	9,308,598	\$12,581,838.75
Monterey	11,098,641	\$11,704,601.58
San Diego	3,667,632	\$11,235,987.70
Bodega Bay	2,040,335	\$8,827,237.41
Fort Bragg	6,273,431	\$7,758,829.05
Morro Bay	1,319,621	\$3,329,139.27
<b>Total</b>	<b>184,450,524</b>	<b>\$198,420,929.35</b>

<sup>1</sup>Ex-Vessel Value is the amount paid to the fishermen at the dock.

<sup>2</sup>Port Area includes multiple ports in the same geographic region. A full list of the ports included in a given Port Area can be found on pages 23 and 24 of the [Fish Business User Guide](#).

Data Source: Department's Marine Region, Marine Fisheries Statistical Unit

### Top Commercial Fishery Numbers

Total Commercial Landing Fees Collected: **\$761,838.02**

Top Ex-Vessel Value: **Market squid**

Top Weight: **Market squid**

## Commercial Vessels and Revenue for 2022

Type	Numbers Sold	Revenue
Resident Vessel	2,693	\$1,082,586
Non-Resident Vessel	295	\$355,770
<b>Total Vessels</b>	<b>2,988</b>	<b>\$1,438,356</b>
Resident License	5,037	\$771,920
Non-Resident License	582	\$266,702
<b>Total Licenses</b>	<b>5,619</b>	<b>\$1,038,622</b>

Data as of 12/31/2022. Commercial Passenger Fishing Vessel (CPFV permit) is a subset of the Resident and Non-Resident Vessel total. There were 601 Registered Commercial Passenger Fishing Vessels with a total value of \$241,602. Data Source: Department's License and Revenue Branch

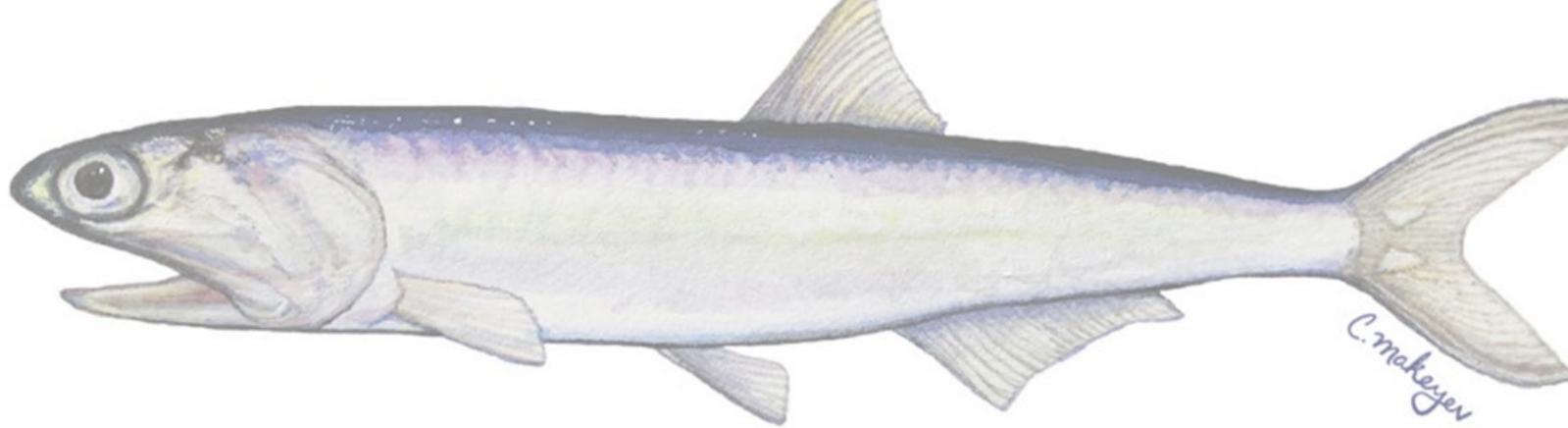
## Top 2022 Commercial Species Landed by Weight

Fishery	Pounds	Ex-Vessel Value
Market Squid	141,193,905	\$84,361,960
Pacific Sardine	3,875,645	\$1,661,715
Sablefish	3,842,733	\$6,199,704
Dungeness Crab	3,662,338	\$21,278,289
Northern Anchovy	3,327,236	\$556,668
Dover Sole	3,177,248	\$1,214,334
Red Sea Urchin	2,929,344	\$10,213,331
Chinook Salmon <sup>1</sup>	2,274,027	\$16,293,905
Petrale Sole	2,141,134	\$2,348,248
Chilipepper Rockfish	1,665,827	\$903,218

Data as of 2/08/2023 \*Note that landings and value are reported for the calendar year (January 1 – December 31) This may differ from seasonal landings for specific fisheries reported elsewhere.

<sup>1</sup>Total pounds landed and ex-vessel value may be different than the final numbers reported in the Pacific Fishery Management Council's Review of Salmon Fisheries.

Data source: Department's Marine Region, Marine Fisheries Statistical Unit



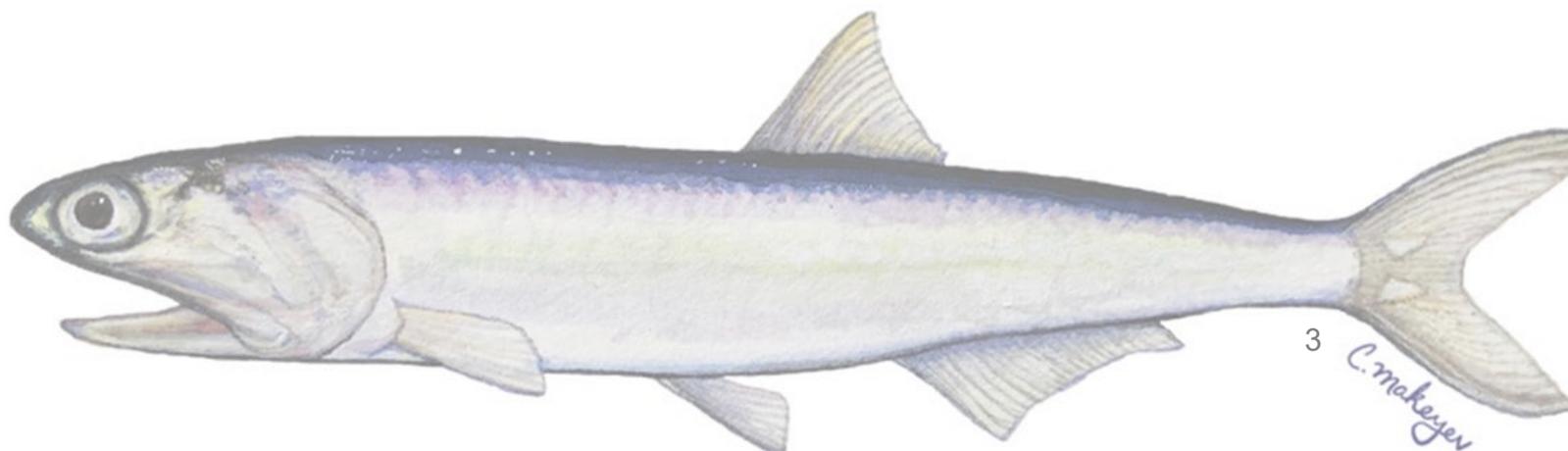
## Top 2022 Commercial Fisheries by Ex-Vessel Value

Fishery	Pounds	Ex-Vessel Value
Market Squid	141,193,905	\$84,361,960
Dungeness Crab	3,662,338	\$21,278,289
California Spiny Lobster	952,641	\$18,428,832
Chinook Salmon <sup>1</sup>	2,274,027	\$16,293,905
Red Sea Urchin	2,929,344	\$10,213,331
Sablefish	3,842,733	\$6,199,704
California Halibut	992,021	\$5,466,193
Spot Prawn	212,030	\$3,953,465
Petrale Sole	2,141,134	\$2,348,248
Bluefin Tuna	796,342	\$2,215,658

Data as of 2/08/2023. \*Note that landings and value reported over the calendar year (January 1 – December 31) may differ from seasonal landings for specific fisheries reported elsewhere.

<sup>1</sup>Total pounds landed and ex-vessel value may be different than the final numbers reported in the Pacific Fishery Management Council's Review of Salmon Fisheries.

Data source: Department's Marine Region, Marine Fisheries Statistical Unit



## 2022 Commercial Landings of Key Groundfish by Species

Species	Pounds	Ex-Vessel Value
Nearshore <sup>1</sup>	500,603	\$2,695,513
Shelf and slope rockfish	4,630,999	\$3,300,834
Dover sole, thornyheads, sablefish (black cod)	7,100,771	\$7,964,795
Remaining Flatfish <sup>2</sup>	2,093,211	\$2,077,305
Other <sup>3</sup>	713,173	\$710,715
<b>Totals</b>	<b>15,038,757</b>	<b>\$16,749,161</b>

<sup>1</sup> Includes nearshore rockfish, California scorpionfish, cabezon, greenlings and California sheephead

<sup>2</sup> Includes arrowtooth flounder (turbot), butter sole, curlfin sole, English sole, Pacific sanddab, petrale sole, rex sole, sand sole and starry flounder.

<sup>3</sup> Includes all remaining species in the federal groundfish Fishery Management Plan.

Data Source: Department's Marine Landings Database System and includes landings reported through 11/30/22.

## 2022 Groundfish and Pacific Halibut Regulatory Activity

- **Four** state regulatory packages completed.
- **72** reports and **four** public comment letters were submitted in support of federal regulatory activities.
- **2,219** otoliths have been collected by groundfish staff for use in future stock assessments.

# 2022 California Recreational Fishing

## California Recreational Fisheries Survey Sampling

- Data Collected from: 101,600 angler trips
- Estimated Recreational Fishing Trips in Marine Waters: 3.1 million
- Estimated Total Fish Caught: 10 million
- Measurements Collected from: 100,300 fish

Data Source: Department's Marine Region, California Recreational Fisheries Survey

## Total Recreational Licenses Sold and Fees Collected in 2022

License Type	Numbers Sold	Value
All Recreational Fishing Licenses <sup>1</sup>	1,629,198	\$63,766,007
Ocean Enhancement Validation	263,815	\$1,516,936
Spiny Lobster Report Card	30,603	\$306,030
Recreational Crab Trap Validation	45,026	\$101,309

<sup>1</sup>Numbers Sold does not include 13,770 Free 2022 Sport Fishing Licenses.

Note that recreational fishing licenses are valid for ocean and inland fishing in California.

Data Source: Department's License and Revenue Branch, as of 12/31/2022

## Top Five Types of Fish Targeted by 2022 Recreational Anglers in California Based on Fishing Trips

Rank	Trip-Type and Top Species Targeted <sup>1</sup>	Estimated Number of Angler Trips (thousands)
1	<b>Inshore:</b> California halibut, barred surfperch, spotfin croaker, and redbtail surfperch	1,307
2	<b>Bottomfish:</b> Rockfish, lingcod, California scorpionfish and ocean whitefish	665
3	<b>Coastal Migratory:</b> Yellowtail, chub (Pacific) mackerel, Pacific barracuda and Pacific bonito	128
4	<b>Highly Migratory:</b> Bluefin tuna, yellowfin tuna, albacore and dolphinfish (dorado)	115
5	<b>Salmon:</b> Chinook salmon	99

<sup>1</sup>For each trip target: the top species are listed based on the estimated total catch in pounds.

Data source: CRFS estimates and data were extracted from RecFIN database at [www.recfin.org](http://www.recfin.org) and supplemented by CDFW Fisheries Analytics Project and Ocean Salmon Project. Highly Migratory effort and catch from Commercial Passenger Fishing Vessels were summed from the Marine Log System.

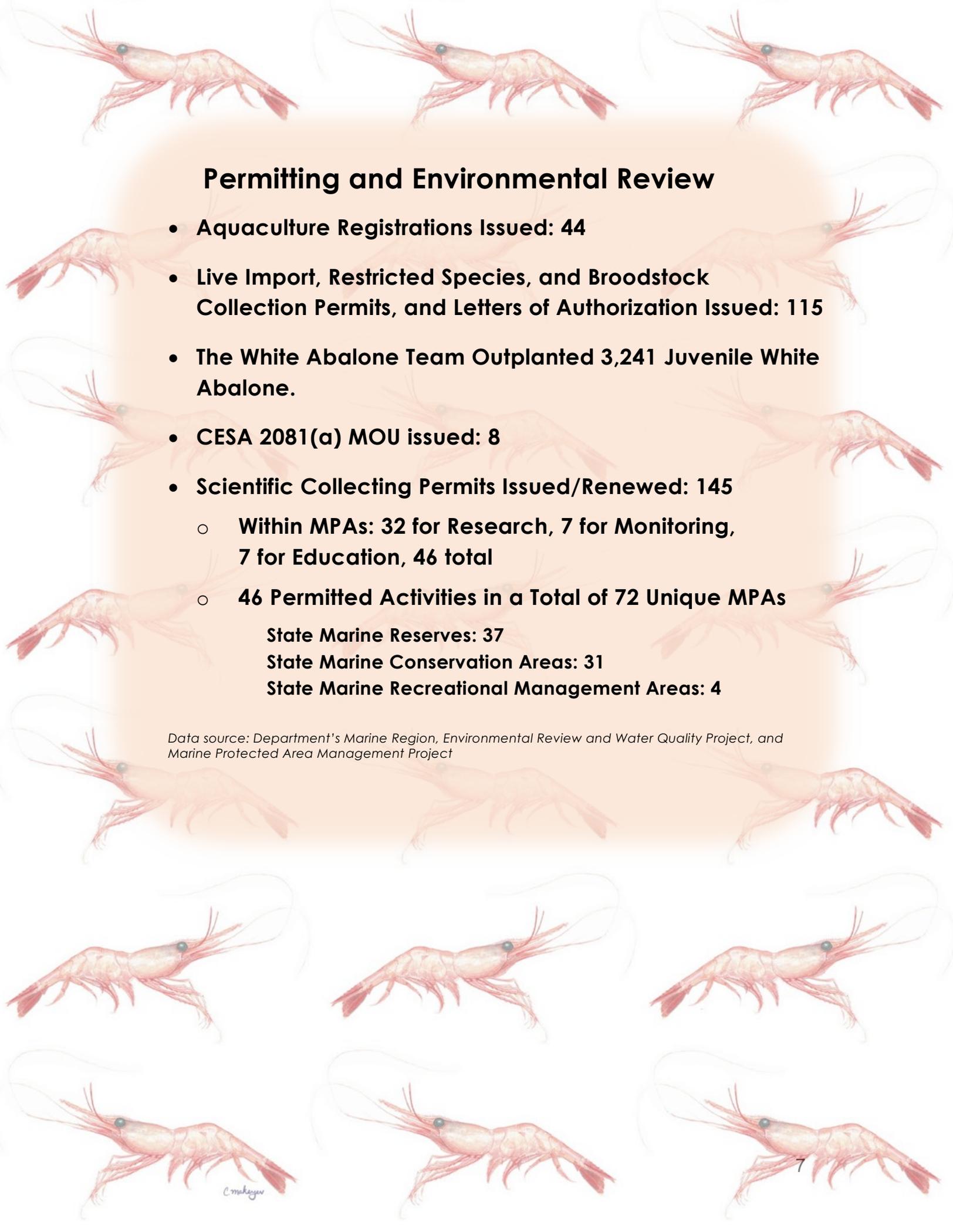
## Top 10 Types of Fish Caught by Recreational Anglers in California Based on Pounds of Fish Harvested<sup>1</sup>

Rank	Type of Fish	Estimated Pounds of Fish Caught <sup>1</sup>
1	<b>Tunas</b> (bluefin, yellowfin, and albacore)	3,581,000
2	<b>Rockfish, greenlings and cabezon</b>	2,792,000
3	<b>Dolphinfish (dorado)</b>	1,503,000
4	<b>Salmon<sup>2</sup></b> (Chinook salmon)	960,000
5	<b>Flatfish</b> (California halibut, Pacific sanddab, Pacific halibut, soles and starry flounder)	808,000
6	<b>Lingcod</b>	615,000
7	<b>Surf Perches</b> (barred, redbtail and walleye)	355,000
8	<b>California scorpionfish</b>	300,000
9	<b>Sea Bass</b> (barred sandbass, kelp bass, and striped bass)	274,000
10	<b>Ocean whitefish</b>	251,000

<sup>1</sup>Fish Harvested = fish kept and fish released dead, estimates are preliminary and may differ from what is used for fisheries management.

<sup>2</sup>Pacific Fishery Management Council (PMFC) uses numbers of salmon harvested for fishery management; numbers were converted to weight in pounds by the Ocean Salmon Project.

Data source: CRFS estimates and data were extracted from RecFIN database at [www.recfin.org](http://www.recfin.org) and supplemented by CDFW Fisheries Analytics Project and Ocean Salmon Project. Highly Migratory catch from Commercial Passenger Fishing Vessels were summed from the Marine Log System.



## Permitting and Environmental Review

- **Aquaculture Registrations Issued: 44**
- **Live Import, Restricted Species, and Broodstock Collection Permits, and Letters of Authorization Issued: 115**
- **The White Abalone Team Outplanted 3,241 Juvenile White Abalone.**
- **CESA 2081(a) MOU issued: 8**
- **Scientific Collecting Permits Issued/Renewed: 145**
  - **Within MPAs: 32 for Research, 7 for Monitoring, 7 for Education, 46 total**
  - **46 Permitted Activities in a Total of 72 Unique MPAs**
    - State Marine Reserves: 37**
    - State Marine Conservation Areas: 31**
    - State Marine Recreational Management Areas: 4**

*Data source: Department's Marine Region, Environmental Review and Water Quality Project, and Marine Protected Area Management Project*

## 2022 Kelp Forest Scuba Surveys

- 4,260 meters of kelp forest surveyed
- 77 Red Abalone surveyed
- 120,498 Purple Urchin Counted
- 0.8 Football Fields of Area Surveyed
- 7 CDFW Vessels
- 25 Total Surveyors
  - 8 CDFW Scientists
  - 9 Volunteers
  - 8 CDFW Wardens

## Marine Protected Area Management Project Numbers

- MPA blogs and news highlights: **8**
- Days on research and monitoring trips: **4**
- Scientific research dives: **9**
- MPA videos produced: **9**
- MPA monitoring and research conferences and workshops attended: **20**
- Outreach and partner events attended: **24**
- MPA Collaborative meetings attended: **30**
- MPA management presentations: **27**
- MPA outreach materials distributed: **12,388**

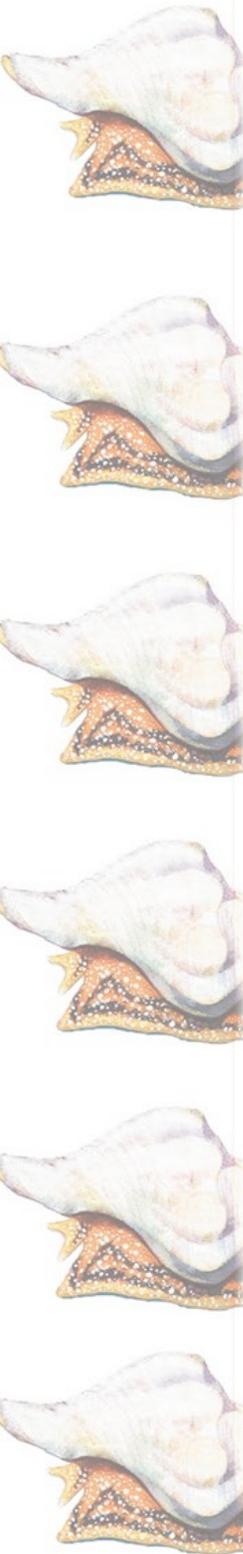
Marine Protected Areas information available at  
<https://wildlife.ca.gov/Conservation/Marine/MPAs>

Data source: Department's Marine Region, Marine Protected Area Management Project





## Additional Marine Region Efforts

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- **3 Enhanced Status Reports (ESRs)**
    - California halibut, yellowfin croaker, Pismo clam
  - **4 Non-ESR Species-at-a-Glance Summaries**
    - California moray eel, slender crab, northern anchovy, and salmon shark
  - **Data Sharing**
    - 23 Confidential Data Sharing Agreements
    - 30 Non-Confidential Data Sharing Requests
  - **22 Blog Posts on the Marine Management News Published by Marine Region Staff**
  - **86,464 Marine Management News Blogsite Visits**
  - **994 working dives completed by Marine Region staff (603 hours underwater)**
  - **26 Marine Region Press Releases**
  - **71 Social Media Posts**
  - **1 Outdoor California Magazine Article Published**
  - **2 Youth Fishing Workshops**
  - **86 Marine Related Media Contacts out of 796 total for CDFW**
  - **1,100+ Responses to Public Inquiries Sent from “Ask Marine”**

*Data sources: Department's Marine Region, Outreach Team, Marine Protected Area Management Project, Data Management Project.*