



MARINE REGION

2021 BY THE NUMBERS

2021 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 2020-2021 fiscal year, the Marine Region budget was \$28,004,585

***As of December 31st, 2021,
148 permanent staff and
80 scientific aids
worked within the Marine Region.***

Cover photo of kelp bass and garibaldi. Dive photo by CDFW Environmental Scientist Derek Stein, Scientific illustrations by CDFW Environmental Scientist Claudia Makeyev, copper rockfish photo by Ed Roberts III

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2021 California Commercial Fishing

Weight and Ex-Vessel Value¹ of Commercial Landings by Port Area²

Port Area	Pounds	Ex-Vessel Value
Eureka	13,236,727	\$36,654,891
Fort Bragg	5,077,973	\$9,062,051
Bodega Bay	2,119,892	\$10,933,805
San Francisco	11,067,852	\$25,737,273
Monterey	49,058,498	\$32,459,109
Morro Bay	1,115,872	\$3,389,651
Santa Barbara	39,780,888	\$43,197,016
Los Angeles	22,524,456	\$19,277,408
San Diego	4,143,582	\$11,099,125
Total	148,125,740	\$191,810,329

¹Ex-Vessel Value is the amount paid to the fishermen at the dock.

²Port 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: **\$961,326.15**

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

Top Weight: **Market squid**

Commercial Vessels and Revenue for 2021

Type	Numbers Sold	Revenue
Resident Vessel	2,820	\$1,103,325
Non-Resident Vessel	293	\$343,982
Total Vessels	3,113	\$1,447,307
Resident License	5,518	\$823,562
Non-Resident License	708	\$315,768
Total Licenses	6,226	\$1,139,330

Data as of 01/31/2022. Commercial Passenger Fishing Vessel (CPFV permit) is a subset of the Resident and Non-Resident Vessel total. There were 594 Registered Commercial Passenger Fishing Vessels with a total value of \$232,403

Data Source: Department's License and Revenue Branch

Top 2021 Commercial Fisheries by Ex-Vessel Value

Fishery	Pounds	Ex-Vessel Value
Market Squid	99,515,765	\$59,420,270
Dungeness Crab	10,408,940	\$53,028,410
Chinook Salmon ¹	2,284,452	\$17,511,123
California Spiny Lobster	667,244	\$15,113,850
Red Sea Urchin	2,259,924	\$7,047,005
Sablefish	3,156,101	\$5,124,762
California Halibut	777,151	\$4,220,130
Spot Prawn	239,306	\$3,927,998
Bigeye Tuna	812,615	\$2,938,299
Bluefin Tuna	459,594	\$1,727,199

Data as of 02/11/2022

*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.

¹Total 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 2021 Commercial Species Landed by Weight

Fishery	Pounds	Ex-Vessel Value
Market Squid	99,515,765	\$59,420,270
Dungeness Crab	10,408,940	\$53,028,410
Northern Anchovy	6,397,531	\$449,846
Pacific Sardine	3,826,242	\$447,929
Sablefish	3,156,101	\$5,124,762
Dover Sole	2,841,633	\$1,084,810
Chinook Salmon ¹	2,284,452	\$17,511,123
Red Sea Urchin	2,259,924	\$7,047,005
Pacific Mackerel	1,906,752	\$481,349
Petrale Sole	1,710,731	\$1,691,701

Data as of 02/11/2021.

*Note that landings and value reported over the calendar year (January 1 – December 31) may differ from seasonal landings for specific fisheries reported elsewhere.

¹Total 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

2021 Commercial Landings of Key Groundfish by Species

Species	Pounds	Ex-Vessel Value
Nearshore ¹	454,213	\$2,409,284
Shelf and slope rockfish	3,642,315	\$2,358,002
Remaining Flatfish ²	2,063,359	\$1,875,963
Dover sole, thornyheads, sablefish (black cod)	6,398,599	\$7,447,638
Other ³	718,414	\$749,810
Totals	13,276,900	\$14,840,697

¹ Includes nearshore rockfish, California scorpionfish, cabezon, greenlings and California sheephead

² Includes arrowtooth flounder (turbot), curlfin sole, English sole, Pacific sanddab, petrale sole, rex sole, sand sole and starry flounder.

³ Includes all remaining species in the federal groundfish Fishery Management Plan.

Data Source: Department's Marine Landings Database System

2021 Groundfish Regulatory Activity

- **Two** state regulatory packages completed.
- Participants in **five** Stock Assessment Review Panels.
- **52** reports were submitted in support of federal regulatory activities.

2021 California Recreational Fishing

California Recreational Fisheries Survey Sampling

- Data Collected from: 115,000 angler trips
- Estimated Recreational Fishing Trips in Marine Waters: 3.6 million
- Estimated Total Fish Caught: 10.7 million
- Data Collected from: 76,000 fish and invertebrates

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

Total Recreational Licenses Sold and Fees Collected in 2021

License Type	Numbers Sold	Value
All Recreational Fishing Licenses	1,840,053	\$ 70,341,100
Spiny Lobster Report Card	33,389	\$ 325,543
Ocean Enhancement Validation	308,727	\$ 1,697,999

*Note that recreational fishing licenses are valid for ocean and inland fishing in California.
Data Source: Department's License and Revenue Branch, as of 01/31/2022*

Top Five Types of Fish Targeted by 2021 Recreational Anglers in California Based on Fishing Trips

Rank	Trip-Type and Top Species Targeted ¹	Estimated Number of Angler Trips (thousands)
1	Inshore: California halibut, barred surfperch, spotfin croaker, and redbtail surfperch	1,674
2	Bottomfish: Rockfish, lingcod, California scorpionfish and ocean whitefish	737
3	Coastal Migratory: Yellowtail, chub (Pacific) mackerel, Pacific barracuda and Pacific bonito	177
4	Salmon: Chinook salmon	88
5	Highly Migratory: Bluefin tuna, yellowfin tuna, albacore and dolphinfish (dorado)	72

¹For 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 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 Harvested¹

Rank	Type of Fish	Estimated Pounds of Fish Caught ¹
1	Tunas (bluefin, yellowfin, albacore and skipjack)	3,047,000
2	Rockfish, greenlings and cabezon	2,756,000
3	Salmon² (Chinook salmon)	622,000
4	Lingcod	575,000
5	Flatfish (California halibut, Pacific sanddab, Pacific halibut, soles and starry flounder)	529,000
6	Surf Perches (barred, redbtail and walleye)	338,000
7	Croakers (White seabass, spotfin, white, and yellowfin croakers)	322,000
8	Ocean Whitefish	298,000
9	California scorpionfish	283,000
10	Yellowtail	206,000

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

² Pacific Fishery Management Council (PFMC) 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 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

- **Environmental Documents Reviewed (plans, surveys, reports, permits, etc.): 598**
- **Pre-Project Review: 75**
- **Aquaculture Registrations Issued: 43**
- **Live Import, Restricted Species, and Broodstock Collection Permits, and Letters of Authorization Issued: 97**
- **The White Abalone Team Outplanted over 2,700 Juvenile White Abalone.**
- **Scientific Collecting Permits Issued/Renewed: 165**
 - **Within MPAs: 30 for Research, 14 for Monitoring, 5 for Education, 49 total**
 - **273 Permitted Activities in a Total of 96 Unique MPAs**
 - State Marine Reserves: 109**
 - State Marine Conservation Areas: 158**
 - State Marine Recreational Management Areas: 6**

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

Marine Protected Area Management Project Numbers

- **MPA Blogs and News Highlights**
 - Exploring California's MPAs Published: 6
 - MPA News Highlights Released: 5
- **Days on Research and Monitoring Trips: 8**
- **Scientific Research Dives: 13**
- **MPA Monitoring and Research Conferences and Workshops Attended: 10**
- **Partner Outreach Events Attended: 23**
- **MPA Management Presentations: 15**
- **Scientific Collecting Permits Issued: 165**
- **Scientific Collecting Permits Issued Within MPAs: 49**
- **New MPA Flyers created: 119**
- **New No-Take MPA signs Distributed: 84**
- **MPA Outreach Materials Distributed: 4,757**

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

- **3 Enhanced Status Reports (ESRs)**
- **36 Non-ESR Species-at-a-Glance Summaries**
- **8 Management Strategy Evaluations Completed**
- **Data Sharing**
 - **1 Memorandum of Understanding**
 - **24 Data Sharing Agreements**
 - **35 Non-Confidential Data Requests**
- **39 Blog Posts on the Marine Management News Published by Marine Region Staff**
- **136,520 Marine Management News Blogsite Visits**
- **600 Marine Region Research Dives**
- **24 Marine Region Press Releases**
- **64 Facebook Posts**
- **7 Instagram Posts, 8 Stories**
- **2 Outdoor California Magazine Articles Published**
- **6 Youth Fishing Workshops**
- **12 Scientific Illustrations**
- **12 Posters, Signs and Flyers**
- **73 Media Contacts**
- **7 Days Pismo Clam Outreach in San Luis Obispo County**
- **4 Days Tidepool Outreach Events at Pillar Point**
- **1,100+ Responses Sent from “Ask Marine”**
- **62 Outdated/Unnecessary Pages Removed from Marine Region Website**

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