

THE RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF FISH AND GAME  
MARINE RESOURCES REGION

REPORT FOR THE MONTH OF SEPTEMBER 1971

Oil spilled from the United States Naval ship MANATEE has now completely dissipated and no additional reports of beach contamination are being recorded.

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A north coast red abalone survey was conducted during September 12-17 employing 29 Department scuba divers and 5 research and patrol vessels. Dr. John DeMartini, Dale Clifton, and Tom Marking, Humboldt State College also participated.

The distribution of abalones was found to be patchy with very few reds observed below 25-foot depths. Where red abalones were found, the concentrations were often high. A single 30m x 4m station off Ft. Ross in 10-20 foot depths produced a count of 399 red abalone, the highest ever recorded during all abalone survey work for a sampling unit of comparable size.

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An acoustic midwater trawl survey of the anchovy population off southern California was conducted from September 12 to 17. Anchovies were very abundant and distributed over a larger area than during any previous surveys made at this time of year. Large commercial size schools were found off Newport Beach, San Pedro Channel, Santa Monica Bay, and south of Point Dume. Some large schools also were detected seaward of San Clemente and Santa Catalina Islands. Midwater trawl tows took anchovies on all but one station.

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Two bonito tags were returned this month. One tag was from a fish that had been at liberty for 849 days. This is the first recovery that has exceeded one year at liberty. The fish showed no net movement from the release area.

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1. WILDLIFE PROTECTION

- A. Canneries: Landings of yellowfin tuna continue to fall short of landings in corresponding periods of previous years. There is little chance for improvement until after the first of the year when the new quotas will go into effect.

Albacore fishing was confined largely to the area from Morro Bay north to Crescent City. Approximately 6,000 tons were landed in ports between Monterey and Fort Bragg with Moss Landing receiving slightly over half of this amount. Although the anchovy reduction season opened in the southern zone on the 15th of the month, a price dispute curtailed operations. One vessel operating out of Port Hueneme has delivered approximately 300 tons of anchovies since opening day.

- B. Market Fish: Southern California markets continue to depend on imports with rockfish, small amounts of white seabass, and broadbill swordfish being the predominate local species taken.

Broadbill landings have picked up considerably and an additional increase is anticipated. The large number of experienced swordfish fishermen re-entering the fishery is apparently due to the increased percentage of broadbill presently meeting FDA requirements.

Salmon fishing improved off of Bodega Bay with vessels averaging seven hundred to eight hundred pounds per day.

- C. Sportfish: After an excellent albacore season in the San Diego area, catches came to a complete halt early this month. During the remainder of the month, yellowtail and barracuda supplied what little sport action was available.

Elsewhere in the state, sportfishing was generally slow. There was however, good kelp bass fishing off the Santa Barbara Channel Islands as well as good surf perch and corbina off Ventura and Santa Barbara County coasts.

Albacore fishing has been good off of Morro Bay, weather permitting. Salmon fishing has slowed down considerably in the San Francisco area; boats averaging four to five fish.

- D. Weather: Weather was generally good in the southern sector of the state but high winds and heavy seas curtailed activities in the central and northern regions.

- E. Law Enforcement: Marine patrol enforcement activities were reduced considerably this month by the assignments of personnel to non-law enforcement activities and to inland regions for assistance in deer and dove patrol.

Fourteen wildlife protection personnel were assigned to the week long north coast abalone survey. Two patrol craft were also utilized in the survey.

The appearance of large numbers of twelve to fourteen inch salmon off of Bodega Bay necessitated increased patrol in that area. Emphasis was also placed on checking the albacore boats forced into port by weather for boat registrations and licenses.

In the southern portion of the state, two purse seiners were apprehended delivering loads of fish containing more than the allowable (18%) of Pacific mackerel. Approximately 41,000 pounds of fish were seized in these two arrests. Additionally, one gill net was seized for operating in a closed area. The net was bonded and returned to the owner awaiting superior court action.

Considerable time was spent checking the broadbill swordfish fleet for compliance with the commercial license and boat registration statutes. A close check was also made on boats fishing broadbill and marlin for the purpose of enforcing the regulations prohibiting the taking of broadbill by harpoon by sport fishermen. Two cases were made for this violation. One conviction was made and one case is pending.

- F. Pollution: During the reporting period, marine wardens investigated eleven spills from merchant vessels that deposited one hundred and sixteen (116) barrels of petroleum products into State waters. Six spills from United States Naval craft place five thousand, two hundred and eleven (5,211) barrels of petroleum products into our waters, and nine industrial sources were responsible for four hundred and eight (408) barrels.

There were three successful prosecutions for Section 5650 and three citations were issued for the same offense.

Oil spilled from the United States Naval ship MANATEE has now completely dissipated and no additional reports of beach contamination are being recorded.

## 2. BOTTOMFISH

### A. Fishery

Flatfish: Strong northwesterly winds and rough seas affected trawling effort. Trawlers landed good catches of Dover sole from deep water off Eureka, Crescent City, Fort Bragg and San Francisco. Petrale sole catches ranged from several hundred pounds to 5,000 pounds per trip. English sole and rex sole landings were generally light.

A significant part of the trawl fleet continued to fish albacore during the month.

Roundfish: Channel rockfish and sablefish were predominant in trawl catches from deep water in northern California. Catches of other rockfish species ranged up to several thousand pounds per trip. Lingcod were present in most landings at central California ports.

B. Research

Flatfish: Recoveries of Dover sole from 1969 and 1970 releases off Eureka totaled 28. All were taken near release areas.

Routine tasks of market sampling and trawl log-ticket coding were accomplished. The backlog of age structures was diminished as aging of Dover, English, and petrale samples was continued. Age studies of petrale sole are near completion. Petrale grow rapidly during the first 4 years. At the end of a year petrale are about 10 cm TL (4 inches). They grow to about 28 cm TL (11 inches) at age 4 whereupon they enter the fishery. Growth slows down thereafter and at this stage females grow more rapidly and reach larger sizes than do males. Females and males attain maximum respective sizes of about 60 and 50 cm TL.

Program objectives were organized and reviewed. Documented objectives were found to be broad and encompass all aspects of fishery enhancement, research, and management. Interview objectives were more specific. Knowledge of resources and their states, the necessary information for scientific management, national and international involvement appear to emerge from interviews. Exploratory fishing, gear development, fisheries technology were given lower priorities. The systems analysis remains behind schedule.

The Biostatistics data report on 1970 California trawl catch and effort for exchange at the 1971 US-USSR scientific meeting was reviewed and transmitted to the Washington Department of Fisheries for incorporation into a U.S. national document.

Roundfish: Data from SCOFIELD cruises 71-S-3 and 71-S-5 were prepared for analyses.

A paper on Pacific mackerel is being prepared for the CalCOFI conference.

3. SHELLFISH

A. Fishery

Crab: The crab season is closed.

Shrimp: No effort for ocean shrimp has been reported since June in Areas B-1, B-2, and C.

Total landings from Area A were 2.3 million pounds through September 18. The primary fishing area has been between Point St. George Reef and the Klamath River in 50 to 70 fathoms.

Approximately 280,000 pounds of shrimp have been taken by California fishermen north of the Oregon border.

Catch and effort data for shrimp from Area A are as follows:

<u>Week of Season</u>	<u>Pounds</u>	<u>Pounds/Hour</u>
17 (8/15-8/21)	294,176	506
18 (rough sea)	21,711	332
19 (rough sea)	35,798	588
20 (rough sea)	92,239	380
21 (9/12-9/18, rough sea)	51,236	538

Average catch per hour for the season is approximately 437 pounds.

Oysters: Harvesting began September 1 at Tomales Bay Oyster Company. The company reports good sales and a demand for smaller size oysters.

At Drakes Estero good growth and survival of 1½ year old hanging cultch oysters were observed. The company is currently harvesting these oysters.

B. Research

Crab: The growth study at Point Molate near Richmond continued, with weekly samples being taken. The average size of the 1971 year class crabs increased from 49.4 mm in August to 54.2 mm in September.

The crab cruise aboard the N. B. SCOFIELD off central California began during the latter part of the month.

Shrimp: Approximately two dozen of the introduced Korean shrimp, *Palaemon macrodactylus*, were caught in traps at the Port of Redwood City. Several gravid females were given to personnel at the Granite Canyon laboratory and some are being kept alive at Menlo Park for observation.

Two hake samples for the month showed a definite occurrence of 1971 year class shrimp. Fishermen are reporting catches of gravid shrimp from both Oregon and California areas. Count per pound and age composition data obtained from market samples are as follows:

<u>Week of Season</u>	<u>Average ct/lb</u>	<u>Range</u>	<u>Age Composition (%)</u>		
			<u>I</u>	<u>II</u>	<u>III</u>
17	124	100-154	68	32	
18	141	117-162	82	18	
19	134	105-158	83	17	
20	122	109-139	80	20	
21	126	106-147	79	21	

Clams: Approximately 7,000 juvenile Japanese littleneck clams were received from Pacific Mariculture at Pigeon Point. Samples of these clams were counted and measured. These clams are currently being held in trays at Tomales Bay and Drakes Estero. Previous hanging culture experiments with this species have shown good growth and survival.

C. Humboldt Bay Report

Initial draft of MRR's contribution of marine resources of Humboldt Bay was sent in for review and inclusion with other MRR sections.

4. SHELLFISH LABORATORY OPERATIONS (Bartlett Project M64R6)

A moderate red tide condition developed offshore of the culture laboratory from the 22nd through the 24th of the month causing a limited mortality with brood laboratory shellfish stocks. Seven of our fifteen-year-old Pacific oysters and two adult spot prawns were lost. The principal red tide organism involved was *Gonyaulax* sp., having average densities of 10,000 per ml.

High mortalities from our initial spawning of fifteen-year-old Pacific oysters prompted us to select new brood stock and obtain new spawn. A successful spawning was obtained and larvae are progressing to a setting stage. Growth has been abnormally slow but understandably due to problems encountered in providing a sufficient amount of food. We should achieve an oyster set by the first week in October.

Red abalones were successfully spawned and development through the trochophore stage to the veliger was achieved. Research emphasis is on techniques for inducing spawning, and the handling of eggs from fertilization through the early embryological development to the trochophore stage. Egg membranes are extremely delicate and sensitive to screening through standard sieves. Unscreened eggs are generally contaminated by protozoans and high mortalities result.

Project members participated in the diving workshop on the north coast from September 12-17.

5. OYSTER DISEASE AND MORTALITY STUDY (N.M.F.S. Contract)

Activities were carried on as usual during September with emphasis on the Humboldt Bay problem. Losses among experimental and commercial stocks of oysters declined, markedly. Preliminary observations indicate losses (July through September) among ground cultured oysters to be approximately 40% while losses among rack cultured oysters to be approximately 10-15%.

Oysters from Humboldt Bay were successfully spawned at the Marine Culture Laboratory and it is anticipated that the larvae will set during October. It is hoped that sufficient oysters can be obtained for planting in Humboldt Bay to assess their survival with that of the oysters normally cultured there (seed imported from Japan).

The processing and examination of tissue continues.

The project is on schedule.

## 6. SEA OTTER

The report of the sea otter project activities for the past 3 years with editorial suggestions incorporated was resubmitted early in the month.

Project personnel assisted with the Department abalone survey on the northern California coast during the week of September 12-17. Considerable time was spent preparing project boats and equipment for use in the abalone survey.

Project personnel took a standard first aid training course given by Warden Snell on September 23 at Monterey.

## 7. ABALONE

Project personnel spent the first part of the month planning and preparing materials for the northern California red abalone survey. Gene Witeck, ORB, assisted by preparing depth stratified sampling plans for four study units.

The survey was conducted during September 12-17 employing 29 Department scuba divers and 5 research and patrol vessels. Dr. John DeMartini, Dale Clifton, and Tom Marking, Humboldt State College, also participated. Divers separated into two teams to work at both the Sonoma Coast area and near Fort Bragg. Fair ocean conditions allowed the Sonoma divers to complete one sampling unit adjacent to Fort Ross off the Dewey Pedotti Ranch. Diving only from boats as land access was rough and limited in this area, the divers surveyed 36 stations, 24 subtidal and 12 intertidal. The distribution of abalones was found to be patchy with very few reds observed below 25-foot depths. Where red abalones were found, the concentrations were often high. A single 30m x 4m station off Ft. Ross in 10-20 foot depths produced a count of 399 red abalone, the highest ever recorded during all abalone survey work for a sampling unit of comparable size. Divers working the Fort Bragg area were plagued by a rough ocean but were able to complete 15 stations off the Van Damme State Park sampling unit. Similar results in red abalone distributional patterns were recorded and a high count of 47 reds was made along a single transect.

The fall survey of the Diablo Canyon-P.G.&E. Contract study was started this month. With the unusual advantage of excellent ocean condition in the latter portion of the month, we were able to survey 9 of 11 of the permanent subtidal diving stations.



8. PELAGIC FISH

A. Fishery

Landings in tons Species	September		January 1 - September 30, 1971		
	1971*	1970	1971*	1970	10-yr. mean 1960-1969
Anchovy	896	8,855	23,678	45,290	8,339
Mackerel, jack	962	3,096	17,346	14,237	22,298
Mackerel, Pacific	7	6	18	284	6,513
Sardines	8	18	123	217	4,158
Squid	550	180	13,901	8,208	6,361
TOTAL	2,423	12,155	55,066	68,236	47,669

\* Estimated. Accumulated landings are revised monthly.

B. Fishery Research and Monitoring

Anchovy: The anchovy reduction season south of Point Conception opened September 15. One purse seiner has landed over 300 tons at Port Hueneme. The San Pedro fleet will not begin fishing anchovies until price negotiations are settled. Landings in the northern permit area have been good and fishermen report anchovies are plentiful in Monterey Bay.

Jack Mackerel: There were few mackerel landings the first two weeks of September due to bad weather and good bonito fishing. During the remaining part of the month, the fleet fished primarily around Catalina Island.

Pacific Mackerel: Approximately 7 tons were delivered in mixed loads of jack mackerel.

Squid: Nearly all squid caught this month came from the Monterey Bay area.

Sardines: There were several small landings at San Diego during the month.

C. Biological Studies

Jack Mackerel Tagging: Tagging experiments at Marineland will begin as soon as approximately 500 live mackerel are delivered by a commercial fisherman. The tagging crew conducted a short preliminary cruise aboard the ALASKA to test equipment and techniques. The first official tagging cruise will depart October 12, 1971.

Live Bait: Live bait fishing continued to be very good in most areas of southern California. San Diego, Los Angeles Harbor, Port Hueneme, and Santa Barbara had good to excellent fishing all month. Oceanside, Newport Beach, Santa Monica Bay, and Morro Bay were not as consistently good. Spotty fishing in these areas was due to anchovy behavior since scattered fish were usually present.

D. Fisheries Resources Sea Survey (Bartlett M63R)

An acoustic midwater trawl survey of the anchovy population off southern California was conducted from September 12 to 27. Anchovies were very abundant and distributed over a larger area than during any previous surveys made at this time of year. Large commercial size schools were found off Newport Beach, San Pedro Channel, Santa Monica Bay, and south of Point Dume. Some large schools also were detected seaward of San Clemente and Santa Catalina Islands. Midwater trawl tows took anchovies on all but one station.

A new sonic recorder was installed aboard the ALASKA that greatly improved echo sounder operations. Expanded precise recording is now possible on up to four different frequencies.

A cruise report for the cruise 71A6 was completed early in the month. Data from this cruise were keypunched and a computer run made to detect errors. A preliminary data report can now be produced by computer for this cruise.

Task statements of the Sea Survey Project were written for ORB's systems analysis study of the Pelagic Fish Program. An outline was prepared for writing a sea survey fish bulletin.

Sea Survey Data Analysis: Work continued on the data inventory for systems analysis. A task statement was written for this unit.

A manuscript entitled "Maturation and Growth of Pacific Mackerel" was completed.

A computer program to aid our efforts in analyzing and writing the Sea Survey fish bulletin was also worked on this month.

9. BIG GAME FISH

A. Albacore - Research

Life History: Age and growth--over 1,000 length-frequency measurements and 200 scale samples were taken at the canneries on Terminal Island.

Population Dynamics: Approximately 350 logs were collected from boats at central and southern California landings representing fish caught during the months of July, August, and September. September landings by the log fleet were 175,000 fish totaling 2,250,000 pounds.

Fisheries

Sport: Southern California partyboats discontinued their albacore fishing trips after the first week of September because of poor success. For the remainder of the month sportfishing activity was centered around Morro Bay and Avila landings.

Commercial: During the first half of the month, fishing was good in the area from ten to 150 miles off Pt. Sur and in the Monterey

Sea Valley. Fishing tapered off somewhat during the last half of the month as the fleet experienced difficulty locating the fish after being blown into port by a siege of inclement weather.

B. Bluefin Tuna - Research

Life History: Age and growth--three length-weight-age samples were obtained in September.

Fishery

Sport: During the final 10 days of the month, a run of bluefin developed near Redondo Beach. Daily catch totals have gone as high as 56 bluefin for the Redondo partyboats.

Commercial: About 407 tons of bluefin were landed by the purse seine fleet this month. Most of the fish were caught near San Martin Island, Baja California.

C. Bonito - Research

Life History: Age and growth--10 length-weight-age-sex samples were obtained this month.

Migration: Two bonito tags were returned this month. One tag was from a fish that had been at liberty for 849 days. This is the first recovery that has exceeded one year at liberty. The fish showed no net movement from the release area.

Twenty-eight bonito were tagged at La Jolla and Catalina Island on the KELP BASS cruise at the beginning of the month. The last few days of the month were spent preparing for the KELP BASS cruise in October.

Population Dynamics: Over 250 eye lenses were processed by the electrophoresis laboratory this month.

Fishery

Sport: Catches have been rather erratic at most landings this month. Many of the bonito being caught are large (5 to 10 pounds).

Commercial: Over 2,500 tons of bonito were landed this month. Catches were made from San Diego to Gaviota and the fish were generally 7-13 pounds in weight.

10. SPORTFISH

Central California Marine Sportfish Survey

Routine partyboat and skiff sampling was continued from Santa Cruz to Morro Bay.

Most of the month was spent analyzing data for publication.

## 11. INSHORE FISHERIES HABITAT EVALUATION AND MONITORING

Project personnel participated in a one-day check-out and recertification of three Department employees at Isthmus Cove, Catalina Island.

The major part of the month was spent preparing for and working on the Diver-Workshop-Abalone Survey on the north coast and surveys around domestic outfalls of three central California areas.

Three days were devoted to assessing the impact of dredging and dredge spoil deposition on the San Francisco Bar with U.S. Army Corps of Engineers personnel.

Project divers spent one day in general surveys of Point Fermin and Horseshoe Kelp areas.

The remainder of the month was spent in sorting material collected during various diving surveys.

### ENVIRONMENTAL & BEHAVIORAL STUDIES OF COASTAL SPORT FISH

Project personnel participated in a north coast abalone survey September 13-17.

Other work during the month included two dives at our permanent study area, two boat maintenance dives, and a general reconnaissance dive off Point Fermin. Also, a series of dives were made along Palos Verdes checking kelp location and extent. On this day three illegally set lobster pots were discovered and reported to marine enforcement officers. The pots were all equipped with timed release devices on their floats.

Work continued on the revision of the Inshore Fishes booklet.

Analysis of sheephead data collected at spearfishing meets and various other places is progressing nicely. All stomachs have been looked at and an attempt at aging sheephead using opercular bones has begun.

Several days were lost to vacation and CTO during the month.

### POINT ARENA ECOLOGICAL SURVEYS

We completed hiring personnel and continued ordering equipment.

A random sampling plan was set up with considerable assistance from ORB personnel. One week was spent at the site initiating the random surveys. Twelve stations were completed in depths ranging from 10 to 75 feet. The highest concentration of abalone, urchins and kelp was found at stations shallower than 30 feet. The most abundant fish observed were juvenile blue rockfish, *Sebastes mystinus*.

One day was spent with a crew from CBS TV Channel 2, Los Angeles, helping them film a segment for an upcoming series on ecology.

## 12. KELP MANAGEMENT PROGRAM DJ-F-27-R

The project is now fully staffed with the appointment of Pete Haaker in the position of Assistant Marine Biologist.

Most of the month was spent reviewing the literature and ordering equipment. One day was spent in diver certification for both members of the project, one day on an underwater survey of Palos Verdes Peninsula where we inspected the site of an on-going kelp transplant experiment by Cal Tech, and one week was spent on a cooperative survey of abalone along the Mendocino coast.

A preliminary aerial survey of kelp was made from San Diego to Pt. Conception including most of the Channel Islands. Of particular interest was the sighting of several hundred brown pelicans. They were most numerous on Santa Rosa and Santa Barbara Islands, but were also commonly sighted on Anacapa and Catalina Islands and along the Los Angeles Harbor breakwater.

## 13. SPECIAL PROJECTS

### A. Southern California

A number of environmental statements and Corps of Engineers permits and attendant problems was handled during the month. Several meetings, including an on-site inspection of Bolsa Chica were attended.

Several meetings and the final review of a State Lands Division environmental statement cleared the way for Moorpark College to install a series of experimental automobile tire reefs around the Rincon Oil Island.

The grunion schedule for 1972 was compiled.

### B. Northern California

Coastal Wetlands: Almost all of September was devoted to the report for Humboldt Bay. Early in October we will meet at Eureka with MRR and Region 1 personnel to merge our contributions.

Review and Comment: An environmental impact statement prepared by the Corps of Engineers for a channel dredging project in Crescent City Harbor is being reviewed. Our suggestions were requested by telephone by ESB and Region 3 concerning other evaluations they were reporting upon.

Public Information: We provided technical assistance to KRON-TV in their preparation of a documentary film on San Francisco Bay water quality.

### C. Water Quality

Several days were utilized collecting information on pesticides and heavy metals for future recommendations regarding waste discharges into marine waters.

One week was spent at the Diving Workshop-Abalone Survey at the Sonoma Coast area.

The application of 0.3 lbs./acre foot of water of "Abate" pesticide to the flood control section of Ballona Creek, Los Angeles County, did not control midges nor did it kill fish. The water ranged from fresh to 60% seawater.

#### 14. MARINE FISHERIES STATISTICS

- A. Source Documents: In September editing was completed on June market receipts, June trawler and shrimp logs, July shrimp logs, August cannery receipts, sport catch logs and bait receipts. Editing is in progress on July market receipts, July trawler logs, September bait, cannery receipts and sport catch logs.

The August sport catch letter and delinquent sportcatch letters to operators and wardens were prepared and mailed. The marine sportcatch list for striped bass was prepared and sent to inland fisheries.

Copies of all bullfrog tickets for 1970-7 were prepared for Robert Treanor, Inland Fisheries, Sacramento. Other requests for copies of records were supplied to several partyboat operators.

- B. Machine Data Processing

Seven annual species reports and the annual boat listing for 1970 were completed. The August 1971 marine sport catch, salmon, striped bass, and albacore were run. August cannery and processor reports were completed.

The card to tape program for 1966 was run and balanced. Wetfish data and sea survey data were prepared for 1966. Trawler reports for 1955 and June 1971 were also run.

Special jobs included a county planning report and two fortran decks and data.

- C. Information

August 1971 cannery check runs processor reports and marine sport catch were decoded and distributed.

Annual reports on barracuda, lobster, white seabass, Pacific mackerel, jack mackerel and the 1A and 1AA reports were decoded and distributed.

The August tuna letter and 1970 statistical circular were mailed.

Special requests for xeroxed copies of 1A reports were filled for Paul Wild (red abalone) and Leo Pinkas (abalone and lobster). Requests for landing data were filled for Steve Crooke, Brian Thayer and Mr. Gates.

D. Licenses and Registrations

Master list changes were sent to Sacramento. The September hot list was prepared and sent to the patrol captains.

We are fortunate in now having Kathy Butts in the "boat room" and she is rapidly learning the boat and dealer work.

As of September 15th, the following is a count of licenses and registrations for the 1971-72 license year:

Commercial Fishing Licenses	8,998
Boat Registrations	4,542
Party Boat Licenses	460

E. Fishery Surveillance

A northern field trip was completed covering San Francisco, Menlo Park office, Santa Cruz, Monterey office, Morro Bay and Santa Barbara.

Problems were resolved with local dealers in San Pedro, Long Beach, Redondo Beach and Newport Beach.

An unsuccessful attempt was made to obtain abalone weights in Santa Barbara for conversion factor work.

15. VESSELS

ALASKA: September 13 through September 30, 1971 the vessel engaged in pelagic fish studies off southern California.

The crew was on "time off" for the balance of the month.

N. B. SCOFIELD: September 1 through September 6, 1971 the vessel conducted kelp bass tagging off Baja California.

September 22 through September 30, 1971 the vessel engaged in crab studies off central California.

KELP BASS: September 1 through September 3, 1971 the vessel conducted bonito tagging off southern California.

September 8, 1971 diver certification class was conducted off Santa Catalina Island.

September 11 through September 23, 1971 the KELP BASS conducted an ecological study off Fort Ross and Monterey Bay.

16. MISCELLANEOUS

A. Meetings, Talks and Visitors

September 1 -Frey met with Jim Hardwick in Monterey to discuss Pelagic Fish Program.

September 2 -Frey attended Marine Research Committee meeting in San Francisco.

- September 2 -Carlisle met with Professor William Brisby to discuss the Moorpark College experimental reef, Long Beach.
- September 2-3 -Gates attended United States-Mexico Bilateral Meeting regarding Agreement with the Mexicans, Mexico City.
- September 7 -Gates met with the Director, Chief of Operations, Acting Chief MRB, Pisano and Royal regarding marine resources problems, Sacramento.
- September 7 -Moore met with interested agencies to discuss midge control problems of Ballona Creek near Santa Monica.
- September 13 -MRR staff and Safety meeting, Long Beach.
- September 14 -Blunt attended a meeting of Department representatives and the Bureau of Sport Fisheries and Wildlife and U.S. Bureau of Land Management on the need for protection of offshore bird islands.
- September 15 -Gates attended meeting with Chief of Operations Kaneen, and Robinson, Parks and Recreation regarding proposed regulations Anacapa and Santa Barbara Islands.
- September 15 -Carlisle took part in a field inspection and meeting relating to the development of Bolsa Chica, Bolsa Chica and Long Beach.
- September 16 -Blunt participated in the Humboldt State College Sea Grant Advisor's meeting for discussion of current Sea Grant program and business.
- September 16 -Carlisle met with Charles Kirke, State Lands, to resolve problems pertaining to an environmental statement on an experimental reef, Los Angeles.
- September 21-22 -Gates attended Regional Managers/Headquarters Staff meeting, Sacramento.
- September 22 -Duffy met with Bob Lavenberg and Mary Berger, Los Angeles County Museum to discuss a Farnsworth Bank Marine Refuge, Long Beach.
- September 23 -Frey met with John Radovich and Tim Farley in Sacramento to discuss system analysis of the Pelagic Fish Program.
- September 23 -Carlisle attended a meeting of the Los Angeles-Ventura Counties Coastal Study Commission which discussed Paradise Cove as a site for a small craft harbor, West Los Angeles.

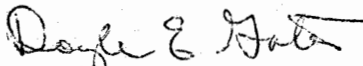


- September 28 -Gates and Frey met with Senor Amin Zarur, Jefe de la Oficina de Pesca, San Diego, regarding United States-Mexico Bilateral Agreement and areas of cooperation.
- September 24 -Miller attended a meeting at Menlo Park on overall Department sportfish research planning.
- September 24 -Gates, Frey, and Collins met with members of Menlo Park staff to discuss possible cooperative programs with NMFS and Marine Resources Region publication.
- September 26 -Duffy met with William Walker, Marineland of the Pacific to deliver a specimen of the northern right whale dolphin and discuss marine mammals.
- September 30 -Gates and Frey met with Shomura, NMFS proposed research plans.

B. Personnel

- August 31 -Warren J. Smith, Fish & Game Warden, Marine Patrol, Monterey, retired.
- September 1 -Lois C. Hardwick, Account Clerk II, Marine Fisheries Statistics, Long Beach, appointed permanent.
- September 1 -Steven A. Schultz, Assistant Marine Biologist, Ecological Studies, Diablo Canyon & Mendocino transferred to Shellfisheries - Abalone Project Morro Bay.
- September 1 -Dennis C. Wilson, Assistant Water Quality Biologist, San Francisco, Region 3 transferred to Water Quality, Menlo Park.
- September 1 -Peter L. Haaker, Junior Aquatic Biologist, Sport Fish-Kelp Habitat Study, Long Beach, reinstated from Veteran's Educational Leave of Absence.
- September 1 -Dan B. Odenweller, Junior Aquatic Biologist, Ecological Studies, Diablo Canyon-Mendocino Long Beach, appointed permanent.
- September 1 -Kathy Butts, Account Clerk II, Marine Fisheries Statistics, Long Beach, appointed permanent.
- September 6 -Robert N. Lea, Assistant Marine Biologist, Pelagic Fisheries-Sea Survey, Long Beach, promoted to Associate Marine Biologist, Ecological Studies, Diablo Canyon-Mendocino, Monterey.

- September 7 -Laurence L. Laurent, Assistant Marine Biologist,  
Ecological Studies, Diablo Canyon-Mendocino,  
Monterey, appointed permanent.
- September 14 -Peter L. Haaker, Junior Aquatic Biologist,  
Sport Fish-Kelp Habitat Study, Long Beach,  
promoted to Assistant Marine Biologist.
- September 21 -Dan B. Odenweller, Junior Aquatic Biologist,  
Ecological Studies, Diablo Canyon-Mendocino,  
Long Beach, promoted to Assistant Marine  
Biologist.
- September 22 -Linda F. Capitano, Clerk Typist II, Admini-  
stration, promoted to Personnel Assistant I,  
Region 5, Long Beach.

  
Doyle E. Gates  
Regional Manager

MRR-LB/220  
10-6-71

WILDLIFE PROTECTION BRANCH MONTHLY REPORT FORM

Region MRR

Fill-In Section

Report for Month of September, 1971

A. RESERVE WARDEN ACTIVITIES

1. Number of patrols made by reserve wardens	<u>6</u>
2. Hours worked	<u>70</u>
3. Arrests or citations issued by reserve wardens (Wardens not present)	<u>          </u>
4. Arrest assists or citations issued by reserve (Wardens present)	<u>15</u>
5. Personal vehicle miles traveled on patrol	<u>          </u>
6. Personal vehicle miles traveled to and from assignment	<u>300</u>

B. HUNTER SAFETY TRAINING PROGRAM

1. Time spent on hunter safety training	<u>7</u>
2. Hunter safety instructors contacted	<u>3</u>
3. Hunter safety training classes attended	<u>1</u>
4. Hunter safety instructor classes attended	<u>          </u>

C. DEER ACCIDENTALLY KILLED

1. Road kills by motor vehicles	<u>0</u>
2. Kills from other causes (railroads, canals, dogs, etc.)	<u>0</u>

D. ARREST REPORT

Number of persons arrested as compared to same periods last year:

<u>457</u>	<u>350</u>
Same Month Last Year	Current Month
<u>3331</u>	<u>2839</u>
Total Arrests Same Period Last Year	Total Arrests This Year

Remarks - (To explain any marked changes in above totals)

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Fines paid .....	<u>\$ 9,786.50</u>	<u>\$13,223.50</u>
	Same Month Last Year	Current Month
Total fines to date.....	<u>\$74,776.80</u>	<u>\$81,465.50</u>
	Same Period Last Year	Same Period This Year

Remarks (To explain any marked changes in above totals)

Jail days served.....	<u>0</u>
Jail days suspended.....	<u>0</u>
Cases dismissed.....	<u>3</u>
Cases in which all of fine was suspended.....	<u>7</u>
Juvenile cases turned over to juvenile authorities or parents contacted.....	<u>0</u>
Hunting licenses revoked by court.....	<u>0</u>
Hunting licenses suspended by court.....	<u>0</u>
Sport fishing licenses revoked by court.....	<u>0</u>
Sport fishing licenses suspended by court.....	<u>0</u>

Summary: Following is the number of violations prosecuted against type of violation.

Hunting, no license.....	_____	Angling, no license.....	<u>201</u>
Waterfowl.....	_____	No inland stamp.....	_____
Deer.....	_____	Trout.....	_____
Pheasant.....	_____	Striped Bass.....	_____
Resident small game.....	_____	Other inland fish.....	_____
Doves and pigeons.....	_____	Angling more than one rod.....	<u>3</u>
Mountain lion.....	_____	Clams and shellfish.....	<u>49</u>
Bear.....	_____	Commercial abalone.....	<u>2</u>
Raptors.....	_____	Commercial lobster.....	_____
Loaded gun in car.....	<u>2</u>	Commercial fish.....	<u>5</u>
Baited pond shooting.....	_____	Commercial fish records.....	_____
Protected nongame birds, fully protected, rare or end. species	_____	Ocean sportfish.....	<u>68</u>
Litter.....	_____	Pollution (5650) (Oil).....	<u>17</u>
Public shooting area trespass..	_____	" " (Other).....	_____
Trespass (2016-18).....	_____	Stream obstruction (5948).....	_____
Prohibited species.....	_____	1601-1602.....	_____
		Miscellaneous.....	<u>3</u>
		TOTAL . . . . .	<u>350</u>

E. ASSISTANCE TO OTHER LAW ENFORCEMENT AGENCIES

1. Number of cases filed by Wildlife Protection officers for violation of Penal or other code sections.....	<u>1</u>
2. Number of cases filed by Wildlife Protection officers for city or county ordinances.....	_____
3. Number of cases turned over to federal agencies for filing.....	_____
4. Number of cases of assistance to other agencies resulting in filing of charges (not included in 1, 2, or 3 above).....	<u>2</u>
5. Number of cases involving felony charges.....	_____