

CALIFORNIA COMMERCIAL LOBSTER FISHERY

1973 - 1974 SEASON

Lobster Log Books

Early in 1973, the California Fish and Game Commission asked the Department to investigate California's sport and commercial lobster fisheries and by July 1975 recommend management which would improve them. In response, the Department organized a research team and directed its members to meet the Commission's request. The team first turned its attention to the commercial fishery, which, of the two, has the greatest impact on the resource.

For the purpose of the investigation the team recommended commercial fishermen keep a daily log. In San Francisco, on August 17, 1973, the California Fish and Game Commission amended Section 122 of the Administrative Code, Title 14 to require a daily log book. On November 8, 1973, the Commission conducted a public hearing at San Diego regarding its action the previous August. No correspondence was received from fishermen on the subject of log books and none spoke at the hearing.

Prior to October 3rd, the opening of the 1973-74 lobster season, the Department began distribution of log books. By the end of the season 300 books were handed or mailed to lobster boat skippers. Since each book covered 50 days of fishing, some skippers required more than one book to see them to the end of the season, March 20, 1974.

Log books were printed with self-carbon, duplicate pages; the original was mailed to the Department and duplicate pages remained with fishermen as fishing records. Logs went through a bookkeeping process, were read by a biologist, and the content was tabulated by accounting

machines. The important questions in the log book were when and where lobsters were caught, how many were caught, and how often traps were pulled (Figure 1). The hours and depth traps fished were less critical points, but the answers described change in fishing methods from October through March and offered some clues to lobster behavior.

Fishing Effort

The best estimate of effort comes from number of traps fished or pulled; one trap pulled is a unit of effort.

It is a characteristic of the California fishery that most fishing takes place in October and the least in March. In the past, this was seen in the decline of number of boats landing lobsters. This past season, the decline in effort was better measured, and it was found to be more severe than presumed. Number of traps pulled dropped from 105,603 in October to 14,520 in March; a 6-month drop of 86% (Tables 1-6).

Information was reported in the logs by 10 min origin blocks (Figure 2). The logs showed considerable variation in effort by geographic area. Block 860 (Point Loma) had 27% of the total effort in October and 9% in March. The closest rival, Block 850 (a portion of San Clemente Island) had a third of the effort of Point Loma in October but twice as much in March.

The change in effort, particularly about the channel islands, indicated fishermen sometimes moved their entire string of traps. This was uncommon along the mainland, although a few fishermen made substantial moves to avoid poachers.

Legal Catch

Catch was presented two ways by the log. Number of lobsters caught was recorded by date, block number, depth and hours the traps fished. Pounds of lobsters were recorded by date but not by other categories (fishermen learn the weight of their catch at time of sale). Often fishermen place lobsters in receivers for several days before sending a shipment to market.

During the 1973-74 season, the log book catch came to 122,271 kg (268,996 lb) or 161,317 lobsters. Generally 25 to 30% of the catch is made in October. This past season 38% of the catch was reached the first month.

Block 860 (Point Loma) was the heavy producer, with 33% of the October catch and 12% of the year's total.

Short Catch

Fishermen were asked to keep count of the short lobsters they caught and record this on their logs. Interviews with several fishermen indicated that counts of short lobsters are estimates. If we presume shorts were returned to the water, then undoubtedly many of the same lobsters were caught over and over again.

Short lobster production resembles the pattern of legal production. Most were caught in October (46%), the fewest in March (3%).

During the 6-month season, 872,737 short lobster were reported caught, over five times the legal catch. In some areas 10 shorts were caught for every legal; sometimes the ratio jumped 20 to 1. San Clemente Island, Santa Catalina Island, Point Loma and the south coast produced the most shorts. Fewest were produced around Santa Barbara Island, San Nicolas

Island, the northern channel islands and the Santa Barbara coast.

Southern Channel Island Fishery

There are four islands in the southern channel group: Santa Catalina, San Clemente, Santa Barbara, and San Nicolas. Unlike the northern islands, they are widely separated. San Nicolas Island, the farthest to sea, is 60 nautical miles from San Pedro, and 45 miles from Santa Catalina Island. The chief problems are distance to market, unprotected passage between islands, winter storms, and assorted closures by the military, Department of the Interior, and State of California. The advantages are, in respect to the mainland, less competition from other fishermen, less trouble from poachers, and, in certain areas, better catch rates.

Lobster fishing at Santa Catalina Island is restricted by Commission regulation to the weather side from the West End to Church Rock, about 21 miles of shore. The lee side is reserved for sportsmen. The island produced 23,586 shorts and 9,084 legal lobsters caught at a rate of 0.4474 legal lobsters per trap pulled.

The 43-mile coast of San Clemente Island is open to commercial lobster fishing except U.S. Navy harbors, at any time, and Pyramid Cove during gun-fire practice. The east shore abruptly drops into deep water, providing a narrow ledge of lobster habitat. The west or seaward shore gradually shelves out to sea and lobster habitat is more extensive. San Clemente Island is famous for high production of short lobsters. In 1973-74, log books reported 68,798 shorts and 24,115 legals, with a catch rate of 0.5113 legal lobsters per trap pulled.

Santa Barbara Island, a part of the Channel Islands National Monument, is 21 miles west of Santa Catalina. It is little more than a steep

sided rock, $4\frac{1}{2}$ miles around with $1\frac{1}{2}$ miles of the east shore being closed to commercial fishing. Santa Barbara has a reputation for providing large lobsters but production is low because of limited habitat. In 1973-74, the island produced 7,759 legal lobsters and 4,161 shorts. The legal catch rate was 0.6388.

San Nicolas Island is known to produce larger lobsters than Santa Barbara Island. In some respects, the island has better lobster habitat than the other three southern channel islands. The island has 20 miles of shoreline of which 4 miles are closed. A portion of the northwest side, known as AlfaSection, is closed by the U.S. Navy. The rest of the island is open to fishing although fishermen cannot approach within 300 yards of shore. During the past season San Nicolas Island produced 2,834 legal lobsters and 461 shorts. The catch rate for legals was 0.8021.

The southern channel islands have 83 miles of shore available to commercial lobster fishing. Production this past season was slightly over 524 legal lobsters per linear mile.

Northern Channel Island Fishery

The northern channel islands, Anacapa, Santa Cruz, Santa Rosa, and San Miguel form a 55-mile east-west chain. Anacapa Island, the nearest to the mainland is $10\frac{1}{2}$ miles from Port Hueneme. Some of the problems of lobster fishing in the northern channel islands include rough weather, severe poaching because of nearness to the mainland, and, because of currents and weather, the need for heavy traps and ballasting. Fishermen report that fishing the northern islands requires greater skill and labor than in the south. The advantages include fair to good catch rates, moderate competition and, for Anacapa and Santa Cruz Islands, proximity to market.

Anacapa Island, a part of the Channel Islands National Monument, consists of three small islands with a shore of nine miles; 4½ miles of the north shore are closed to commercial fishing by the Department of the Interior. The island produced 11,985 shorts and 2,830 legal lobsters, with a catch rate of 1.0290 legal lobsters per trap pulled.

Santa Cruz Island, approximately 51 miles around, is the largest of the northern channel islands. It lies 4 miles west of Anacapa Island. Typical of these northern islands, the south shore is somewhat protected while the north is exposed to prevailing weather. This past season Santa Cruz Island produced 49,484 shorts and 18,122 legal lobsters. The legal catch rate was 0.8007.

Santa Rosa Island is five miles southwest of Santa Cruz Island with a shoreline of 37 miles. The island's best production was during the last three months of the season. Santa Rosa produced 1,472 shorts and 1,665 legal lobsters with a catch rate of 0.7283.

San Miguel Island, 19 miles around, lies less than three miles from Santa Rosa Island, yet its water conditions and biota are representative of both southern and northern California. No lobster fishing was reported from San Miguel in 1973-74.

The northern channel islands have 111 miles of shore available to commercial lobster fishing. Production was 203 legal lobsters per shore mile.

The northern channel islands are near the northern limit of California's lobster fishery. On the mainland the fishery extends another 30 miles north, with a few pockets as far as Avila. The southern limit is near Magdalena Bay, Mexico, about 600 miles to the south.

La Jolla - Point Loma Fishery

This section of the mainland coast includes Del Mar south to the Tijuana River. Over 30% of California's production came from here in 1973-74, yet it has less than 16 miles of shore with lobster habitat. The area produced 555,749 shorts and 49,773 legals, at a catch rate of 0.5627 legal lobsters per trap pulled. This is the equivalent of 3,111 legal lobsters per shore mile.

The area has advantages for the lobster fisherman, the market is near and the weather is generally good. Although the section covers only a few miles of coast, habitat extends considerable distance offshore, particularly about Point Loma. One disadvantage of the La Jolla-Point Loma area is competition among fishermen as 28% of all California lobster fishing effort was applied to this area this past season.

If short production is a reasonable indicator, there is little doubt that La Jolla-Point Loma is the best lobster nursery in California.

Laguna - Encinitas Fishery

This section of the mainland coast includes Huntington Beach south to Solana Beach, about 65 miles with 34 miles of lobster habitat.

The area produced 128,403 shorts and 24,638 legals at a catch rate of 0.4254 legal lobsters per trap pulled. Production was 725 legal lobsters per linear mile of lobster habitat.

This area is close to market, has good weather but limited habitat. Competition is high and poaching severe.

Palos Verdes - Huntington Beach Fishery

This section of the mainland coast includes Rocky Point south to Huntington Beach, about 31 miles with 11 miles of lobster habitat. Palos

Verdes Peninsula is the significant lobster habitat.

The area produced 5,807 shorts and 5,775 legals at a catch rate of 0.2871 legal lobsters per trap pulled. Production was 525 legal lobsters per linear mile of lobster habitat.

Palos Verdes is close to market, has good weather and extensive rocky habitat; however, the White Point sewage outfall has resulted in a general deterioration in the marine environment. Fishermen are troubled by poachers and competition is high.

Port Hueneme - Malibu Point Fishery

This section of the mainland coast includes north of Port Hueneme south to Malibu Point, encompassing 68 miles of coast with 16 miles of lobster habitat. Santa Monica Bay is closed to commercial fishing (the closure has 30 miles of shore; about eight miles are lobster habitat).

The area produced 8,111 shorts and 3,386 legals at a catch rate of 0.5279 legal lobsters per trap pulled. Production was 212 legal lobsters per linear mile.

Point Arguello - Ventura Fishery

This section of the mainland coast includes Point Arguello south to north of Port Hueneme encompassing about 94 miles of which 71 miles have lobster habitat.

The area produced 14,720 shorts and 11,336 legals at a catch rate of 0.4304 legal lobsters per trap pulled. Production was 160 legal lobsters per linear mile.

DAILY LOBSTER LOG

| | |
|-------|---|
| No. | 3 |
| YEAR | |
| MONTH | |
| DAY | |

| | |
|-------------------------|----------------------|
| NAME OF SKIPPER _____ | Permit No. _____ |
| Boat Name _____ | Boat F & G No. _____ |
| Crew Permit No's. _____ | |

| TRAP LOCATIONS (NEAREST LANDMARKS) | F & G BLOCK No. | DEPTH FEET | No. TRAPS PULLED | No. HOURS IN WATER | No. SHORT LOBSTER | No. LEGAL LOBSTER |
|---------------------------------------|--------------------|---------------|---------------------|-----------------------|-------------------------|-------------------------|
| | | | | | | |
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| | |
|------------------------|------------------|
| Lobsters Sold To _____ | No. Pounds _____ |
| _____ | _____ |

FIGURE 1. Page from the daily lobster log.

TABLE 1. Lobster Log Book Catch-Effort Data for October 1973.

| Origin block | Number traps pulled | Number shorts | Number legals | Legal catch per trap pulled (numbers) |
|--------------|---------------------|---------------|---------------|---------------------------------------|
| 643 | 360 | 51 | 21 | 0.0583 |
| 653 | 1,239 | 720 | 606 | 0.4891 |
| 654 | 700 | 1,077 | 569 | 0.8129 |
| 655 | 678 | 591 | 271 | 0.3997 |
| 656 | 420 | 92 | 127 | 0.3023 |
| 657 | 675 | 149 | 101 | 0.1496 |
| 658 | 240 | 17 | 11 | 0.0458 |
| 665 | 235 | 104 | 112 | 0.4766 |
| 679 | 107 | 35 | 58 | 0.5421 |
| 680 | 1,098 | 4,586 | 287 | 0.2614 |
| 681 | 171 | 104 | 129 | 0.7544 |
| 682 | 144 | 18 | 35 | 0.2431 |
| 685 | 390 | 290 | 177 | 0.4538 |
| 686 | 650 | 1,150 | 370 | 0.5692 |
| 707 | 940 | 4,950 | 1,055 | 1.1223 |
| 708 | 2,613 | 6,905 | 2,161 | 0.8270 |
| 709 | 1,225 | 2,640 | 1,075 | 0.8776 |
| 710 | 30 | 6 | 8 | 0.2667 |
| 712 | 195 | 296 | 132 | 0.6769 |
| 718 | 32 | 3 | 10 | 0.3125 |
| 719 | 346 | 79 | 105 | 0.3035 |
| 720 | 4,695 | 3,020 | 1,389 | 0.2958 |
| 737 | 6,190 | 8,599 | 2,554 | 0.4126 |
| 738 | 2,152 | 1,348 | 550 | 0.2556 |
| 740 | 260 | 0 | 21 | 0.0808 |
| 756 | 3,228 | 3,349 | 1,096 | 0.3395 |
| 757 | 4,245 | 7,486 | 2,130 | 0.5018 |
| 761 | 1,288 | 1,169 | 595 | 0.4620 |
| 762 | 3,923 | 3,203 | 1,648 | 0.4201 |
| 765 | 2,562 | 948 | 1,967 | 0.7678 |
| 801 | 2,646 | 5,087 | 867 | 0.3277 |
| 807 | 2,857 | 3,564 | 1,142 | 0.3997 |
| 813 | 216 | 346 | 329 | 1.5231 |
| 821 | 4,965 | 34,464 | 3,370 | 0.6788 |
| 822 | 1,232 | 5,410 | 517 | 0.4196 |
| 829 | 2,337 | 4,357 | 1,454 | 0.6222 |
| 842 | 7,829 | 80,828 | 6,183 | 0.7898 |
| 849 | 1,045 | 2,710 | 433 | 0.4144 |
| 850 | 9,119 | 15,595 | 5,492 | 0.6023 |
| 860 | 28,674 | 187,243 | 20,402 | 0.7115 |
| 867 | 1,452 | 2,868 | 710 | 0.4890 |
| 877 | 1,940 | 3,565 | 1,151 | 0.5933 |
| 878 | 260 | 1,604 | 93 | 0.3577 |

| | | | | |
|---------------|---------|---------|--------|-----------------|
| Total: | 105,603 | 400,626 | 61,513 | Average: |
| | | | | 0.5824 |

Total weight reported: 43,564 kg (95,840 lb)

TABLE 2. Lobster Log Book Catch-Effort Data for November 1973.

| Origin block | Number traps pulled | Number shorts | Number legals | Legal catch per trap pulled (numbers) |
|---------------|---------------------|----------------|---------------|---------------------------------------|
| 643 | 360 | 51 | 74 | 0.2055 |
| 653 | 1,023 | 302 | 452 | 0.4418 |
| 654 | 683 | 871 | 454 | 0.8696 |
| 655 | 720 | 845 | 435 | 0.6041 |
| 656 | 588 | 274 | 276 | 0.4693 |
| 657 | 945 | 372 | 314 | 0.3322 |
| 658 | 480 | 71 | 86 | 0.1791 |
| 665 | 386 | 214 | 266 | 0.6891 |
| 679 | 298 | 71 | 132 | 0.4430 |
| 680 | 368 | 75 | 119 | 0.3234 |
| 681 | 798 | 559 | 566 | 0.7093 |
| 682 | 86 | 45 | 81 | 0.9419 |
| 685 | 580 | 970 | 340 | 0.5862 |
| 686 | 420 | 1,160 | 460 | 1.0952 |
| 687 | 100 | 80 | 40 | 0.4000 |
| 707 | 625 | 1,870 | 525 | 0.8400 |
| 708 | 2,585 | 7,715 | 1,676 | 0.6483 |
| 709 | 1,610 | 2,890 | 814 | 0.5056 |
| 710 | 340 | 325 | 93 | 0.2735 |
| 719 | 593 | 69 | 119 | 0.2007 |
| 720 | 2,079 | 448 | 537 | 0.2583 |
| 737 | 2,793 | 4,032 | 1,231 | 0.4407 |
| 738 | 1,876 | 1,408 | 721 | 0.3843 |
| 739 | 161 | 82 | 180 | 1.1180 |
| 740 | 40 | 0 | 22 | 0.5500 |
| 756 | 2,123 | 1,594 | 597 | 0.2812 |
| 757 | 3,725 | 4,834 | 1,577 | 0.4233 |
| 761 | 220 | 287 | 136 | 0.6182 |
| 762 | 3,421 | 2,586 | 1,850 | 0.5408 |
| 765 | 3,257 | 981 | 1,966 | 0.6036 |
| 801 | 1,074 | 645 | 215 | 0.2002 |
| 807 | 2,126 | 1,840 | 846 | 0.3979 |
| 821 | 1,200 | 3,334 | 476 | 0.3967 |
| 822 | 461 | 273 | 89 | 0.1931 |
| 829 | 1,577 | 2,159 | 792 | 0.5022 |
| 842 | 5,274 | 53,688 | 2,318 | 0.4395 |
| 849 | 2,395 | 2,647 | 848 | 0.3541 |
| 850 | 2,394 | 2,259 | 857 | 0.3580 |
| 860 | 16,500 | 86,656 | 7,405 | 0.4488 |
| 867 | 3,086 | 4,447 | 1,330 | 0.4310 |
| 877 | 835 | 840 | 257 | 0.3078 |
| Total: | 70,205 | 193,869 | 31,572 | Average: 0.4517 |

Total weight reported: 22,924 kg (50,433 lb)

TABLE 3. Lobster Log Book Catch-Effort Data for December 1973.

| Origin block | Number traps pulled | Number shorts | Number legals | Legal catch per trap pulled (numbers) |
|--------------|---------------------|---------------|---------------|---------------------------------------|
| 643 | 240 | 42 | 28 | 0.1166 |
| 652 | 195 | 62 | 96 | 0.4923 |
| 653 | 879 | 361 | 374 | 0.4254 |
| 654 | 682 | 906 | 636 | 0.9325 |
| 655 | 484 | 424 | 223 | 0.4408 |
| 656 | 338 | 171 | 151 | 0.4467 |
| 657 | 751 | 327 | 240 | 0.3195 |
| 658 | 240 | 40 | 43 | 0.1791 |
| 665 | 274 | 310 | 238 | 0.8686 |
| 680 | 633 | 631 | 311 | 0.4913 |
| 681 | 1,332 | 1,221 | 668 | 0.5015 |
| 682 | 75 | 60 | 48 | 0.6400 |
| 685 | 780 | 2,020 | 845 | 1.0833 |
| 686 | 320 | 755 | 250 | 0.7813 |
| 687 | 515 | 856 | 622 | 1.2078 |
| 688 | 100 | 50 | 80 | 0.8000 |
| 707 | 600 | 3,100 | 830 | 1.3833 |
| 708 | 2,113 | 7,664 | 2,095 | 0.9914 |
| 709 | 1,606 | 3,430 | 1,440 | 0.8966 |
| 710 | 730 | 1,425 | 501 | 0.6863 |
| 711 | 246 | 243 | 162 | 0.6585 |
| 720 | 4,088 | 868 | 1,273 | 0.3114 |
| 737 | 1,947 | 2,041 | 829 | 0.4257 |
| 738 | 1,209 | 937 | 520 | 0.4301 |
| 739 | 132 | 49 | 73 | 0.5530 |
| 740 | 99 | 10 | 86 | 0.8687 |
| 756 | 1,674 | 1,483 | 539 | 0.3220 |
| 757 | 3,170 | 4,819 | 1,589 | 0.5013 |
| 761 | 830 | 475 | 258 | 0.3108 |
| 762 | 2,192 | 7,148 | 1,034 | 0.4717 |
| 765 | 3,091 | 809 | 1,770 | 0.5726 |
| 801 | 582 | 2,277 | 96 | 0.1649 |
| 807 | 1,492 | 1,275 | 609 | 0.4082 |
| 821 | 954 | 1,795 | 410 | 0.4298 |
| 822 | 280 | 2,105 | 97 | 0.3464 |
| 829 | 3,027 | 4,731 | 1,736 | 0.5735 |
| 842 | 2,943 | 27,788 | 1,025 | 0.3483 |
| 849 | 2,640 | 2,921 | 587 | 0.2223 |
| 850 | 432 | 409 | 168 | 0.3889 |
| 860 | 9,766 | 42,996 | 3,643 | 0.3730 |
| 867 | 1,900 | 2,293 | 1,145 | 0.6026 |
| 877 | 974 | 4,226 | 498 | 0.5113 |
| 878 | 759 | 3,021 | 395 | 0.5204 |

| | | | | |
|---------------|--------|---------|--------|-----------------|
| Total: | 57,314 | 138,574 | 28,261 | Average: |
| | | | | 0.4930 |

Total weight reported: 23,206 kg (51,053 lb)

TABLE 4. Lobster Log Book Catch-Effort Data for January 1974.

| Origin block | Number traps pulled | Number shorts | Number legals | Legal catch per trap pulled (numbers) |
|---------------|---------------------|---------------|---------------|---------------------------------------|
| 643 | 360 | 187 | 162 | 0.4500 |
| 652 | 330 | 133 | 194 | 0.5879 |
| 653 | 838 | 336 | 376 | 0.4486 |
| 654 | 658 | 638 | 366 | 0.5562 |
| 655 | 604 | 293 | 223 | 0.3692 |
| 656 | 720 | 294 | 302 | 0.4194 |
| 657 | 1,035 | 552 | 386 | 0.3729 |
| 658 | 360 | 302 | 171 | 0.4750 |
| 665 | 72 | 28 | 33 | 0.4583 |
| 680 | 196 | 171 | 173 | 0.8826 |
| 681 | 510 | 304 | 431 | 0.8450 |
| 685 | 385 | 380 | 229 | 0.5948 |
| 686 | 260 | 670 | 530 | 2.0385 |
| 687 | 355 | 552 | 357 | 1.0056 |
| 708 | 840 | 1,715 | 768 | 0.9142 |
| 709 | 995 | 1,385 | 925 | 0.9296 |
| 710 | 235 | 194 | 155 | 0.6596 |
| 711 | 110 | 50 | 55 | 0.5000 |
| 720 | 3,834 | 750 | 910 | 0.2373 |
| 737 | 1,050 | 1,472 | 462 | 0.4400 |
| 738 | 608 | 601 | 333 | 0.5476 |
| 739 | 2 | 0 | 2 | 1.0000 |
| 740 | 471 | 99 | 409 | 0.8684 |
| 756 | 1,006 | 633 | 210 | 0.2087 |
| 757 | 1,898 | 2,617 | 1,184 | 0.6238 |
| 761 | 240 | 176 | 130 | 0.5417 |
| 762 | 549 | 723 | 272 | 0.4954 |
| 765 | 1,709 | 677 | 1,202 | 0.7033 |
| 801 | 590 | 4,756 | 191 | 0.3237 |
| 807 | 600 | 675 | 348 | 0.5800 |
| 813 | 270 | 22 | 297 | 1.1000 |
| 814 | 1,331 | 67 | 1,032 | 0.7753 |
| 821 | 702 | 1,942 | 458 | 0.6524 |
| 822 | 673 | 8,879 | 282 | 0.4190 |
| 829 | 2,681 | 2,915 | 794 | 0.2962 |
| 842 | 2,062 | 11,498 | 661 | 0.3206 |
| 849 | 1,340 | 1,207 | 293 | 0.2187 |
| 850 | 586 | 885 | 266 | 0.4539 |
| 860 | 2,909 | 7,657 | 902 | 0.3101 |
| 877 | 660 | 7,850 | 556 | 0.8424 |
| 878 | 667 | 1,933 | 580 | 0.8696 |
| Total: | 35,301 | 66,218 | 17,610 | Average: 0.4988 |

Total weight reported: 14,517 kg (31,937 lb)

TABLE 5. Lobster Log Book Catch-Effort Data for February 1974.

| Origin block | Number traps pulled | Number shorts | Number legals | Legal catch per trap pulled (numbers) |
|---------------|---------------------|---------------|---------------|---------------------------------------|
| 643 | 480 | 441 | 249 | 0.5188 |
| 652 | 175 | 69 | 96 | 0.5486 |
| 653 | 588 | 215 | 252 | 0.4285 |
| 654 | 610 | 331 | 316 | 0.5180 |
| 655 | 585 | 190 | 185 | 0.3162 |
| 656 | 602 | 220 | 168 | 0.2791 |
| 657 | 965 | 730 | 457 | 0.4736 |
| 658 | 240 | 167 | 73 | 0.3042 |
| 681 | 279 | 81 | 146 | 0.5232 |
| 685 | 430 | 532 | 326 | 0.7581 |
| 686 | 100 | 60 | 140 | 1.4000 |
| 687 | 175 | 37 | 63 | 0.3600 |
| 688 | 160 | 160 | 205 | 1.2813 |
| 689 | 140 | 60 | 100 | 0.7143 |
| 707 | 185 | 1,040 | 195 | 1.0541 |
| 708 | 793 | 1,010 | 507 | 0.6393 |
| 709 | 490 | 1,182 | 333 | 0.6796 |
| 710 | 165 | 60 | 60 | 0.3636 |
| 711 | 360 | 90 | 237 | 0.6583 |
| 712 | 105 | 50 | 100 | 0.9524 |
| 720 | 1,946 | 183 | 267 | 0.1372 |
| 737 | 30 | 24 | 6 | 0.2000 |
| 740 | 404 | 62 | 178 | 0.4406 |
| 756 | 374 | 256 | 86 | 0.2299 |
| 757 | 979 | 1,327 | 381 | 0.3892 |
| 762 | 111 | 85 | 30 | 0.2703 |
| 765 | 1,317 | 666 | 740 | 0.5619 |
| 801 | 515 | 2,259 | 125 | 0.2427 |
| 813 | 392 | 8 | 285 | 0.7270 |
| 814 | 1,324 | 18 | 891 | 0.6730 |
| 821 | 518 | 1,252 | 278 | 0.5367 |
| 822 | 334 | 3,008 | 94 | 0.2814 |
| 829 | 3,911 | 5,046 | 2,478 | 0.6336 |
| 842 | 708 | 3,251 | 213 | 0.3008 |
| 849 | 250 | 231 | 54 | 0.2160 |
| 850 | 2,311 | 3,350 | 1,463 | 0.6331 |
| 860 | 1,938 | 4,834 | 696 | 0.3591 |
| 867 | 400 | 825 | 267 | 0.6675 |
| 877 | 895 | 7,775 | 696 | 0.7777 |
| 878 | 789 | 2,363 | 590 | 0.7478 |
| Total: | 27,073 | 43,548 | 14,026 | Average: 0.5180 |

Total weight reported: 11,064 kg (24,341 lb)

TABLE 6. Lobster Log Book Catch-Effort Data for March 1974.

| Origin block | Number traps pulled | Number shorts | Number legals | Legal catch per trap pulled (numbers) |
|---------------|---------------------|---------------|---------------|---------------------------------------|
| 643 | 360 | 207 | 154 | 0.4277 |
| 652 | 145 | 50 | 65 | 0.4482 |
| 653 | 205 | 72 | 87 | 0.4243 |
| 654 | 363 | 157 | 177 | 0.4876 |
| 655 | 472 | 139 | 136 | 0.2881 |
| 656 | 510 | 81 | 107 | 0.2098 |
| 657 | 881 | 269 | 265 | 0.3007 |
| 658 | 360 | 175 | 132 | 0.3666 |
| 681 | 318 | 150 | 202 | 0.6352 |
| 685 | 230 | 110 | 125 | 0.5434 |
| 687 | 150 | 120 | 175 | 1.1666 |
| 688 | 455 | 249 | 335 | 0.7362 |
| 689 | 135 | 82 | 131 | 0.9703 |
| 707 | 400 | 1,025 | 225 | 0.5625 |
| 708 | 190 | 376 | 172 | 0.9052 |
| 709 | 30 | 20 | 5 | 0.1666 |
| 710 | 200 | 800 | 285 | 1.4250 |
| 711 | 230 | 112 | 98 | 0.4260 |
| 712 | 50 | 30 | 30 | 0.6000 |
| 719 | 210 | 14 | 29 | 0.1380 |
| 720 | 589 | 60 | 127 | 0.2156 |
| 740 | 130 | 11 | 38 | 0.2923 |
| 756 | 30 | 80 | 17 | 0.5666 |
| 757 | 479 | 1,250 | 303 | 0.6325 |
| 762 | 319 | 270 | 146 | 0.4576 |
| 765 | 209 | 80 | 114 | 0.5454 |
| 807 | 135 | 110 | 40 | 0.2962 |
| 821 | 313 | 673 | 141 | 0.4504 |
| 822 | 82 | 54 | 17 | 0.2073 |
| 829 | 882 | 910 | 570 | 0.6462 |
| 842 | 99 | 1,324 | 59 | 0.5959 |
| 850 | 2,643 | 4,089 | 1,738 | 0.6575 |
| 860 | 1,293 | 8,936 | 707 | 0.5467 |
| 867 | 750 | 1,944 | 640 | 0.8533 |
| 878 | 673 | 5,873 | 743 | 1.1040 |
| Total: | 14,520 | 29,902 | 8,335 | Average: 0.5740 |

Total weight reported: 6,996 kg (15,392 lb)

TABLE 7. Season Total Catch Per Effort by Area for 1973 - 1974.

| Lobster area | Number traps pulled | Number shorts | Number legals | Catch per effort legals |
|------------------------------------|---------------------|----------------|----------------|----------------------------|
| Santa Catalina Is. | 20,303 | 23,586 | 9,084 | 0.4474 |
| San Clemente Is. | 47,158 | 68,798 | 24,115 | 0.5113 |
| Santa Barbara Is. | 12,145 | 4,161 | 7,759 | 0.6388 |
| San Nicolas Is. | 3,533 | 461 | 2,834 | 0.8021 |
| Anacapa Is. | 2,750 | 11,985 | 2,830 | 1.0290 |
| Santa Cruz Is. | 22,630 | 49,484 | 18,122 | 0.8007 |
| Santa Rosa Is. | 2,286 | 1,472 | 1,665 | 0.7283 |
| La Jolla - Pt. Loma | 88,447 | 555,749 | 49,773 | 0.5627 |
| Laguna - Encinitas | 57,907 | 128,403 | 24,638 | 0.4254 |
| Palos Verdes - Huntington Beach | 20,111 | 5,807 | 5,775 | 0.2871 |
| Port Hueneme - Malibu Pt. | 6,413 | 8,111 | 3,386 | 0.5279 |
| Pt. Arguello - Ventura | 26,333 | 14,720 | 11,336 | 0.4304 |
| Total | 310,016 | 872,737 | 161,317 | Average: 0.5203 |