

MASSACHUSETTS
DIVISION OF MARINE FISHERIES
by
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# Department of Fisheries, Wildlife and Recreational Vehicles Division of Marine Fisheries 

Technical Series 19

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A contribution of Commercial Fisheries Research and Development Ac \(\dagger\) (P.L. 88-309) Project 3-371-D
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Approved by Daniel Carter, State Purchasing Agent

## INTRODUCTION

The commercial lobster fishery of Massachuset ts is the most economically important fishery conducted within the territorial waters of the Commonwealth. The overall economic importance of the fishery both in Now England and, in recent years, the Mid-Atlantic states, has focused the attention of Federal, Regional and State fishery managers on this species. Initially, in an attempt to standardize management of the fishery, the Federal and State Governments developed an overall lobster fishery management plan under the auspices of the State-Federal Partnership Program. However, with the passage of the Fisheries Management and Conservation Act, the New England Fisheries Management Council, in cooperation with the Mid-Atlantic Council have developed a management plan for the entire east coast lobster fishery. The plan has now been adopted. The basis of any such plan and for monitoring the success of the plan is an accurate statistical data base. The Commonweal th of Massachusetts, with joint funding from the National Marine Fisheries Service, has been collecting annual reports from licensed lobster fishermen for many years. Historically, the data collected was used primarily for descriptive and informational purposes, and occasionally for management. However, with the recent emphasis on Federal management, this data takes on added importance in terms of providing the respective management agencies with adequate information to ensure that the interests of Massachusetts' lobstermen are protected.

Ouring the period 1975-1980 the number of coastal commercial lobster permits was limited, by law, to 1300, with an additional 10\% issued to proven hardship cases. In 1981, a statutory change provided for the establishment of a permanent waiting list from which 100 new permits were issued, and 20 special additional permits which were awarded to full time commercial fishermen who met certain criteria. In subsequent years 80 list permits and 20 special additional permits have been issued. Permits which are not renewed are retired.

This report is the eighteenth annual publication of data summarized from catch reports submitted by licensed lobster fishermen. Data was presented in a standardized format through 1979. For the 1980 report, data presentation was changed to reflect a more thorough collection and evaluation of the data. The new presentation format is continued in this report. It is anticipated that this format will continue until such time as the Division implements computer processing of the data.

This report has been prepared by personnel from the Division of Marine Fisheries Commercial Fisheries Statistics Project, funded jointly by the Commonwealth and the National Marine Fisheries Service under the Commercial Fisheries Research and Development Act (Public Law 88-309). The preparation of this report would not have been possible without
the cooperation of the licensed lobstermen who provided the data on their annual reports. Special thanks also go to Mary Ann Gachignard for her assistance in preliminary processing of the catch reports when they are received from the fishermen.

## SOURCE OF DATA

No person may fish for or take lobsters in coastal waters or land lobsters in the Commonweal th without a permit issued by the Director of the Division of Marine Fisheries (Chapter 130, Mass. G.L., Section 38). Chapter 130, Mass. G.L., Section 23, requires any person so licensed to file an annual report of their catch by January 31 for the preceding calendar year. In 1980, a dual reporting system was established. Commercial lobstermen (coastal, offshore and seasonal) received a detailed catch report form with their license renewal application. This report requests the following information: method of fishing; number and type of gear used; effort data (set-over day, average number of trips per month, etc.); pounds of lobster taken; areas fished; principal ports of landing; and information relative to the vessels used in the fishery. Recreational fishermen are asked to report only the number of lobsters taken the previous year on their license renewal application form.

Project personnel sort, edit, tabulate and interpret data from all reports received. Data presented in this booklet are based on catch reports actually received and are not expanded to 100 percent levels.

## EXPLANATION OF TABLES

All data presented in this booklet are broken down into two basic categories: the first is "inshore" which represents all data pertaining to all lobster activity taking place within 69 degrees West Longitude and 41 degrees North Latitude; the "offshore" category refers to all data outside of the given coordinates.

Tables presenting number of fishermen by license type, number of pots fished, number and value of boats used in the fishery and total landings statewide, by county and for each city and town were prepared using the catch reports submitted by all commercial fishermen. In keeping with Division policy, some of the data is masked or combined to protect the confidentiality of the individual submitting the report. Data referring to the number of fishermen, number and value of gear, and number and value of boats are presented by the home port of the licensee filing the report. Pounds of labsters harvested are presented by the port of landing reported by the fishermen.

Due to limited data storage capacity of the programmable calculator used to calculate percent of catch by area and month fished and catch per unit of effort, only those reports submitted by holders of commercial coastal licenses could be tabulated.

Where tabular materials refers to county, the reader is referred to Figure 1. Fishing areas are delineated in Figure 2.

Vessel and SCUBA gear values were calculated on the basis of the fishermen's estimate of its present value and the percentage of its use specifically for lobstering. Average values were used when the information was omitted from an individual report.

When fishermen reported the number of lobsters taken, rather than poundage, a conversion factor of 1.18 pounds per lobster was used to calculate poundage figures. This factor is based on historical data.

## 1984 HIGLIGTS

1. There were 13,752 lobster licenses of all types issued during 1984: 1,679 coastal commercial; 227 seasonal commercial; 688 offshore and 11,518 non-commercial.
2. A total of 3,544 licensed lobstermen (26 percent) failed to file a catch report with the Division. Of the 10,208 fishermen reporting, 2,074 (20 percent) reported that they did not fish for lobsters during 1984.
3. A total of $12,604,065$ pounds of lobsters were reported landed. Of these, recreational fishermen reported taking 344,754 pounds, while commercial fishermen reported taking $12,259,311$ pounds. Based on a value of $\$ 2.61$ per pound ', the commercial catch was valued at $\$ 31,996,802$.
4. Commercial fishermen comprised 23 percent of the total number of fishermen reporting and landed 97 percent of the total catch.
5. Non-commercial SCUBA divers represented 19 percent of the fishermen reporting, but landed only 0.5 percent of the total poundage.
6. In total pounds of lobsters landed Essex County ranked first, Plymouth County second and Barnstable County third.
7. In total numbers of commercial fishermen, Essex County ranked first with 657, Plymouth County second with 430, and Barnstable County third with 177.
8. In the commercial fishery, pots were valued at $\$ 12,569,830^{2}$, diving gear at $\$ 33,964$, and power and non-power
boats at $\$ 35,480,274$, yielding a total gear value of $\$ 48,084,068$. Combined with the value of lobsters sold, $\$ 31,996,802$, gives a total fishery value of $\$ 80,080,870$.
9. Of the $12,259,311$ pounds of lobsters landed commercially, $10,088,499$ were reported taken inside of 69 degrees West and 41 degrees North, and of that number, $8,019,727$ pounds were estimated to have been taken within the territorial waters of the Commonweal th.
10. More lobsters were landed in Boston, 1,137,676 pounds, than in any other Massachusetts port. Gloucester ranked second with 911,010 pounds followed by westport with 855, 183 .
11. Landings by coastal commercial lobstermen rose steadily in the spring, peaked in August and then declined. The least amount of lobsters were landed in February and March.
12. According to coastal fishermen, the greatest number of lobsters taken inside 69 degrees West and 41 degrees North were from Boston Harbor (Area 4) followed by Beverly--Salem-Marblehead (Area 3) and Scituate-Marshfield (Area 5).
13. The average catch per trap haul for coastal fishermen was 0.505 pounds. For traps fished for one set-over day the average was 0.402 ; for those fished two days 0.497 ; and for three or more set-over days 0.543 .
'Ex-vessel price determined by weighted averages of prices listed in the National Marine Fisheries Service "Blue Sheet".
${ }^{2}$ Based on an average value of $\$ 32.50$ per pot, including warp and buoys.

Table 1. Reporting Status of 1984 Lobster Licensees

| Licenses Issued |  |  |
| :--- | ---: | ---: |
| Coastal Commercial | $(\$ 200)$ | 1,679 |
| Seasonal Commercial | $(\$ 50)$ | 227 |
| Offshore | $(\$ 200)$ | 688 |
| Non-commercial | $(\$ 30)$ | 11,158 |
|  |  | Total |
|  |  | 13,752 |

Reporting Status
Not Reported Reported
Type Reporting "Not Fishing" "Fishing"

| Coastal Commercial | $30(2 \%)$ | $296(18 \%)$ | $1,353(80 \%)$ |
| :--- | ---: | ---: | ---: | ---: |
| Seasonal Commercial | $92(41 \%)$ | $19(8 \%)$ | $116(51 \%)$ |
| Offshore | $159(23 \%)$ | $355(52 \%)$ | $174(25 \%)$ |
| Non-commercial | $3,263(29 \%)$ | $1,404(13 \%)$ | $6,491(58 \%)$ |

TABLE 2. STATEWIDE TOTALS
1984 MASSACHUSETTS LOBSTER FISHERY
SUMMARY STATISTICS--COMMERCIAL
DIVING
GEAR
FISHED BOAT BOAT VALUE

Taken Outside $69^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$

| Taken Outside $69^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Traw 1 | 29 |  |  | 29 | 248,187 |  |  | 126,324 |
| Potman | 23 |  | 23,231 | 23 | 5,490,216 |  |  | 1,601,064 |
| Trawl | 2 |  |  | 2 | 1,900 |  |  | 1,545 |
| Potman | 15 |  | 8,645 | 16 | 2,052,750 |  |  | 441,879 |
|  | 69 |  | 31,876 | 70 | 7,793,053 |  |  | 2,170,812 |
|  | 1,643 | 33,964 | 386,764 | 1,641 | 35,448,568 | 76 | 31,706 | 12,259,311 |


LICENSE TYPE

| GEAR TYPE <br> AND NUMBER |  | GEAR VALUE | POTS <br> FISHED | POWER BOAT | BOAT VALUE | POWER BOAT | BOAT VALUE | POUNDS OF LOBSTER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Taken Inside $69^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |  |  |
| Diver | 5 | 9,650 |  | 4 | 34,250 |  |  | 5,170 |
| Potman | 1,298 |  | 342,364 | 1,305 | 24,919,812 | 67 | 30,139 | 9,416,407 |
| Both | 30 | 24,314 | 6,172 | 29 | 569,878 | 3 | 480 | 232,143 |
| Traw 1 | 3 |  |  | 3 | 33,750 |  |  | 5,516 |
| Potman | 116 |  | 2,453 | 109 | 284,124 | 6 | 1,087 | 22,283 |
| Trawl | 98 |  |  | 97 | 1,046,485 |  |  | 207,993 |
| Potman | 24 |  | 3,899 | 24 | 767,216 |  |  | 198,987 |
|  | 1,574 | 33,964 | 354,888 | 1,571 | 27,655.515 | 76 | 31,706 | 10,088,499 |


| LICENSE TYPE | GEAR TYPE <br> AND NUMBER |  | TABLE 3. BARNSTABLE COUNTY |  |  |  | NON- <br> POWER <br> BOAT | BOAT <br> VALUE | POUNDS OF LOBSTER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1984 MASSACHUSETTS LOBSTER FISHERY SUMMARY STATISTICS--COMMERCIAL |  |  |  |  |  |  |
|  |  |  | DIVING GEAR VALUE | POTS <br> FISHED | POWER BOAT | BOAT VALUE |  |  |  |
| COASTAL |  |  | - Taken Inside $69{ }^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |
|  | Diver | 3 | 5,300 |  | 3 | 14,250 |  |  | 3,863 |
|  | Potman | 127 |  | 30,203 | 130 | 2,276,393 | 8 | 6,815 | 704,465 |
|  | Both | 5 | 6,000 | 810 | 4 | 95,970 | 2 | 280 | 22,744 |
|  | Trawl |  |  |  |  |  |  |  |  |
| SEASONAL | Potman | 10 |  | 216 | 10 | 50,988 |  |  | 2,817 |
| OFFSHORE | Trawl | 20 |  |  | 20 | 236,275 |  |  | 31,569 |
|  | Potman | 5 |  | 1,055 | 5 | 200,300 |  |  | 123,948 |
| TOTAL |  | 170 | 11,300 | 32,284 | 172 | 2,874,176 | 10 | 7,095 | 889,406 |
|  |  |  | Taken Outside $69^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |
| OFFSHORE | Trawl | 3 |  |  | 3 | 17,535 |  |  | 48,672 |
|  | Potman |  |  |  |  |  |  |  |  |
| COASTAL | Trawl | 2 |  |  | 2 | 1,900 |  |  | 1,545 |
|  | Potman |  |  |  |  |  |  |  |  |
| TOTAL* |  | 7 |  | 1,500 | 7 | 459,435 |  |  | 562,518 |
| GRAND TOTAL |  | 177 | 11,300 | 33,784 | 179 | 3,333,611 | 10 | 7,095 | 1,451,924 |
| Totals do not ma | atch th | of $\dagger$ | lumns due | masking | da†a | protect the | denti | ty of | ividuals. |


Diver
Potman
Both
Trawl
Potman
Trawl
$c$
$c$
0
$\vdots$
$\vdots$
0
0
Taken Inside $69^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$
1984 MASSACHUSETTS LOBSTER FISHERY
DIVING
GEAR
TABLE 5. DUKES COUNTY
TABLE 6. ESSEX COUNTY

| 1984 MASSACHUSETTS LOBSTER FISHERY SUMMARY STATISTICS--COMMERCIAL |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LICENSE TYPE | GEAR TYPE AND NUMBER |  | DIVING GEAR VALUE | $\begin{aligned} & \text { POTS } \\ & \text { FISHED } \end{aligned}$ | POWER BOAT | BOAT VALUE | NONPOWER BOAT | BOAT VALUE | $\begin{aligned} & \text { POUNDS OF } \\ & \text { LOBSTER } \\ & \hline \end{aligned}$ |
| Taken Inside $69{ }^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |  |  |  |
| COASTAL | Diver |  |  |  |  |  |  |  |  |
|  | Potman | 544 |  | 141,535 | 541 | 10,664,002 | 29 | 6,500 | 4,256,091 |
|  | Both | 10 | 7,289 | 2,145 | 11 | 184,058 |  |  | 137,146 |
|  | Trawl | 2 |  |  | 2 | 29,500 |  |  | 1,082 |
| SEASONAL | Potman | 36 |  | 791 | 34 | 62,786 | 3 | 710 | 6,547 |
| OFFSHORE | Trawl | 40 |  |  | 39 | 316,183 |  |  | 77,734 |
|  | Potman | 2 |  | 480 | 2 | 32,000 |  |  | 9,105 |
| TOTAL |  | 634 | 7,289 | 144,951 | 629 | 11,288,529 | 32 | 7,210 | 4,487,705 |
| Taken Outside $69{ }^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |  |  |  |
| OFFSHORE | Trawl | 16 |  |  | 16 | 145,326 |  |  | 54,257 |
|  | Potman | 4 |  | 3,481 | 4 | 1,059,333 |  |  | 1,100 |
| COASTAL | Trawl |  |  |  |  |  |  |  |  |
|  | Potman | 3 |  | 2,025 | 4 | 517,000 |  |  | 21,320 |
| TOTAL |  | 23 |  | 5,506 | 24 | 1,721,659 |  |  | 76,677 |
| GRAND TOTAL |  | 657 | 7,289 | 150,457 | 653 | 13,010,188 | 32 | 7,210 | 4,564,382 |

LICENSE TYPE
GEAR TYPE
AND NUMBER
TABLE 7. MIDDLESEX COUNTY
SUMMARY STATISTICS--COMMERCIAL

TABLE 8. NANTUCKET COUNTY

| GEAR TYPE AND NUMBER |  | 1984 MASSACHUSETTS LOBSTER FISHERY SUMMARY STATISTICS--COMMERCIAL |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DIVING GEAR VALUE | $\begin{aligned} & \text { POTS } \\ & \text { FISHED } \end{aligned}$ | POW | BOAT VA | NON- <br> POWER <br> BOAT | BOAT VALUE | POUNDS OF LOBSTER |
| Taken Inside $69{ }^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |  |  |
| Diver |  |  |  |  |  |  |  |  |
| Potman | 5 |  | 848 | 5 | 74,500 |  |  | 22,333 |
| Both |  |  |  |  |  |  |  |  |
| Trawl |  |  |  |  |  |  |  |  |
| Potman |  |  |  |  |  |  |  |  |
| Trawl |  |  |  |  |  |  |  |  |
| Potman |  |  |  |  |  |  |  |  |
|  | 6 |  | 848 | 6 | 151,500 |  |  | 28,780 |


| Taken Outside $69^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Trawl |  |  |  |  |  |  | 4,863 |
| Potman |  | ' |  |  |  |  | 8,846 |
| Trawl |  |  |  |  |  |  |  |
| Potman |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 13,709 |
|  | 6 |  | 848 | 6 | 151,500 |  | 42,489 |

*Totals do not match the sum of the columns due to masking of data to protect the confidentiality of individuals.


*Totals do not match the sum of the columns due to masking of data to protect the confidentiality of individuals.
TABLE 10. PLYMOUTH COUNTY


| OFFSHORE | Taken Outside $69^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | 748 |
| COASTAL | 3 |  | 2,750 | 3 | 902,083 |  |  | 144,656 |
|  | Trawl |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 2,033 |
| TOTAL | 3 |  | 2,750 | 3 | 902,083 |  |  | 147,437 |
| GRAND TOTAL | 430 | 4,400 | 94,105 | 436 | 7,759,234 | 26 | 13,176 | 2,273,899 |

LICENSE TYPE
1984 MASSACHUSETTS LOBSTER FISHERY
SUMMARY STATISTICS－－COMMERCIAL
DIVING
GEAR POTS POWER
VALUE
BOAT VALUE

| Diver | Taken Inside $69{ }^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| Potman | 105 |  | 42，136 | 104 | 2，305，840 | 1 | 300 | 1，220，831 |
| Both | 4 | 3，400 | 937 | 4 | 137，600 |  |  | 21，151 |
| Trawl |  |  |  |  |  |  |  |  |
| Potman | 4 |  | 90 | 4 | 14，150 |  |  | 706 |
| Trawl | 10 |  |  | 10 | 223，106 |  |  | 19，377 |
| Potman |  |  |  |  |  |  |  |  |
|  | 124 | 3，400 | 43，263 | 123 | 2，690，696 | 1 | 300 | 1，277，375 |


| $18 \nabla^{\prime} G \angle \varepsilon^{\prime}$ I | 00£ | 1 | $091^{\prime} 65 \Sigma^{\prime} £$ | 821 |  | $00 t^{\prime} \varepsilon$ | 621 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 901＇86 |  |  | カ9カ「899 | 5 | $00 \chi^{\prime} \varepsilon$ |  | $\varsigma$ |  |
| 1 $29 \times 02$ |  |  |  |  |  |  |  | uewtod |
|  |  |  |  |  |  |  |  | $1 \mathrm{MEJ1}$ |
| 000＇02 |  |  | 000＇019 | $\varepsilon$ | $00 \chi^{\prime}$ ¢ |  | $\varepsilon$ | uewtod |
| GEt＇L |  |  | 79＊＊ 85 | Z | stno ue |  | Z | 1 MEJ 1 |

＊Totals do not match the sum of the columns due to masking of data to protect the confidentiality of individuals．

TOTAL*
OFFSHORE
COASTAL
TOTAL*
*Totals do

Table 13. Pounds of lobsters landed by commercial fishermen (except seasonal) by city or town of landing in 1984.

City/Town
Inside $69^{\circ} \mathrm{W} 41^{\circ} \mathrm{N} \quad$ Outside $61^{\circ} \mathrm{W} 41^{\circ} \mathrm{N}$
Total

| Barnstable | 75,630 | 312,575 | 388,205 |
| :---: | :---: | :---: | :---: |
| Beverly | 595,462 |  | 595,462 |
| Boston | 1,039,570 | 98,106 | 1,137,676 |
| Bourne | 43,504 |  | 43,504 |
| Chatham | 128,194 | 2,943 | 131,137 |
| Chilmark | 88,198 | 18,954 | 107,152 |
| Cohasse $\dagger$ | 458,242 | 2,569 | 460,811 |
| Danvers | 53,840 | 1,690 | 55,530 |
| Dartmouth | 14,496 |  | 14,496 |
| Dennis--Yarmouth | 40,675 |  | 40,675 |
| Duxbury | 39,893 |  | 39,893 |
| Eastham | 13,895 |  | 13,895 |
| Essex | 31,100 |  | 31,100 |
| Fairhaven | 91,929 | 233,800 | 325,729 |
| Falmouth | 31,864 | 466 | 32,330 |
| Gloucester | 854,166 | 56,844 | 911,010 |
| Gosnold | 13,061 |  | 13,061 |
| Harwich | 180,959 | 29,851 | 210,810 |
| Hingham | 287,676 |  | 287,676 |
| Hull | 148,936 |  | 148,936 |
| Ipswich | 52,404 |  | 52,404 |
| Kingston | 19,984 |  | 19,984 |
| Lynn | 196,638 | 5,032 | 201,670 |
| Manchester | 244,786 |  | 244,786 |
| Marblehead | 552,559 | 371 | 552,930 |
| Marion | 4,302 |  | 4,302 |
| Marshfield | 518,583 |  | 518,583 |
| Mattapoisett | 44,964 | 2,033 | 46,997 |
| Nahant | 305,466 | 5,178 | 310,644 |
| Nantucket | 28,780 | 13,709 | 42,489 |
| New Bedford | 126,396 | 136,271 | 262,667 |
| Newburyport--Newbury--Rowley | 56,707 |  | 56,707 |
| Orleans | 55,633 |  | 55,633 |
| Plymouth | 646,991 | 144,680 | 791,671 |
| Provincetown | 104,715 | 3,717 | 108,432 |
| Quincy | 34,367 |  | 34,367 |
| Revere | 93,310 |  | 93,310 |
| Rockport | 341,995 | 661 | 342,656 |
| Salem | 69,419 |  | 69,419 |
| Salisbury | 3,126 |  | 3,126 |
| Sandwich | 198,793 | 212,966 | 411,759 |
| Saugus | 646,090 | 6,901 | 652,991 |
| Scituate | 385,967 | 724 | 386,691 |
| Swampscott | 477,400 |  | 477,400 |
| Tisbury--Oak Bluffs | 18,037 | 3,510 | 21,547 |
| Wareham | 20,499 |  | 20,499 |
| Well fleet--Truro | 12,727 |  | 12,727 |
| Westport | 303,167 | 552,016 | 855,183 |
| Weymouth | 117,421 |  | 117,421 |
| Winthrop | 144,503 |  | 144,503 |
| Out-of-State | 9,197 | 325,245 | 334,442 |

Table 14. Massachusetts commercial lobster landings inside $69^{\circ} \mathrm{W}$ and $41^{\circ} \mathrm{N}$ by month and area as reported by coastal commercial fishermen in 1984.

| Month | Percent | Area | Percent |
| :---: | :---: | :---: | :---: |
| January | 0.5 | 1 | 1.5 |
| February | 0.2 | 2 | 11.4 |
| March | 0.2 | 3 | 17.9 |
| April | 0.9 | 4 | 27.4 |
| May | 3.4 | 5 | 12.1 |
| June | 5.9 | 6 | 6.7 |
| July | 12.5 | 7 | 1.8 |
| August | 22.9 | 8 | 6.9 |
| September | 19.1 | 9 | 0.9 |
| October | 18.9 | 10 | 3.8 |
| November | 11.1 | 11 | 3.5 |
| December | 4.4 | 12 | 6.0 |
|  | 100.0 |  | 99.9* |

*Total does not equal 100 percent due to rounding of numbers.


Figure 1

## LOBSTERING AREAS



[^0]
[^0]:    Figure 2. Location and description of coastal lobster fishing areas in Massachusetts.

