



New Zealand inshore finfish and shellfish commercial landings, 1931–82

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EXECUTIVE SUMMARY

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Quantitative stock assessments incorporate time series of catches as a measure of fishing mortality in a statistical model. Many inshore commercial fisheries in New Zealand have a very long history, beginning in the late 1800s or early 1900s. However, most available catch history compilations begin in 1983 or 1986 (Ministry for Primary Industries 2012a). Therefore the development of new catch histories is likely to be a prerequisite for any new stock assessments of inshore species.

Commercial landings of fish and shellfish in the period 1931–82 have been reported by species in Parliamentary reports and in a Ministry of Agriculture and Fisheries report but they are not electronically available. Data from 1983 onwards are available electronically from the Ministry for Primary Industries (MPI). The aims of this study were to collate and punch the available landings data for 1931–82, aggregate them by Fisheries Management Areas (FMAs), and generate electronic catch histories for all important inshore finfish and shellfish species. Landings from both domestic and foreign vessels were included. The landings reported here exclude unwanted catch that was discarded at sea, unreported landings, and recreational, customary and illegal landings. Before 1983, nearly all domestic landings were reported by port of landing. We assigned landings to the FMA of capture based on the known or suspected fishing grounds for each species.

Overall domestic finfish landings were 13 000–18 000 t per year in the 1930s and early 1940s, declining noticeably during World War II. Landings then increased in the late 1940s to reach a plateau at about 22 000 t and remained there until the mid 1950s. Thereafter, landings increased steadily until 1969, after which the rate of increase accelerated and landings reached 74 000–77 000 t in the early 1980s. The landings data do not adequately capture foreign landings (or catches) before 1968, and they probably also seriously underestimate landings through most of the 1970s. Nevertheless, it is clear that foreign landings of inshore species were at least comparable with, and possibly considerably higher than, domestic landings between 1968 and 1977. Shellfish landings increased steadily from about 4000 t per year in the 1930s to 16 000 t in the early 1960s. After a brief lull, landings increased rapidly to 22 000–25 000 t in 1966–1968 as a result of the Chatham Islands rock lobster boom. Landings then declined steeply to 17 000 t in 1969 before rising steeply again to peak at 25 000 t in 1975 owing to large landings of scallop in Tasman Bay. Thereafter landings dropped back to 18 000 t per year during the late 1970s and early 1980s.

Snapper was the most important inshore species by weight between 1931 and 1982 followed by barracouta, tarakihi, jack mackerels, trevally, red gurnard, flatfish and red cod. Dredge oysters dominated the shellfish landings, followed by rock lobster, mussels and scallop. Annual landings of 41 finfish species (including freshwater eels) and 13 shellfish species by FMA or Quota Management Area (QMA) are illustrated and tabulated.

The landings data in this report are not precise or accurate; in fact they are certainly underestimated for most species most of the time, possibly by a large degree. We caution that these data should be considered a lower bound of the true landings as they are limited to *reported landings*. Any use of these landings histories as inputs to stock assessment models should inflate them by plausible amounts to account for unrecorded fishing mortality and thereby generate putative *catch* histories to use as sensitivity tests in model runs.

1. INTRODUCTION

The determination of the status of a fish stock, and its ability to produce sustainable catches, usually requires a quantitative fisheries stock assessment. Such assessments seek to determine the size of a fish stock in relation to a biological reference point or management target, such as the biomass that will support the maximum sustainable yield (Ministry for Primary Industries 2012a). The stock assessment process attempts to model trends in population biomass, taking into account factors that increase or reduce biomass such as growth, recruitment and mortality. Accurate and complete information about these variables is essential for developing models that mimic reality. Fishing reduces the number of fish in a population, and so fishing mortality is an important input to stock assessment models.

Typically, a quantitative stock assessment incorporates a time series of catches as a measure of fishing mortality in a statistical model. These time series are often known as ‘catch histories’. Catch histories that extend back to the beginning of a fishery are important for providing a complete picture of fishing mortality. Many inshore commercial fisheries in New Zealand have a very long history, beginning in the late 1800s or early 1900s (Johnson 2004, Dunn 2005). However, most readily available catch history compilations begin in 1983, when a new data collection scheme was implemented (King 1986), or in 1986 when the Quota Management System (QMS) began (Ministry for Primary Industries 2012a). Longer catch histories are available for some important fish stocks for which quantitative assessments have been completed (e.g. snapper in Fishstocks SNA 1 and SNA 8 and dredge oysters in Foveaux Strait (Davies 1999, Dunn 2005)) and for other species whose fisheries have been studied intensively (e.g. barracouta, butterfish, groper, school shark, trumpeter (Hurst 1988, Paul 1988, Paul & Davies 1988, Paul 1997, 1999, 2002)). But these catch histories are usually limited by (a) being restricted to one or two stocks of a species, (b) not being broken down by fish stock or region, or (c) not extending back before 1974, which was when another change in the recording system was implemented. In some cases, catch histories have been plotted (e.g. Paul 2000) but the numerical catch weights are not readily available. Therefore the development of new catch histories is likely to be a prerequisite for any new stock assessments of inshore species where a long time series is desirable.

Commercial landings of fish and shellfish have been reported by species since 1931 (although aggregated total finfish landings are available back to 1915 (Appendix 1), and landings of Foveaux Strait dredge oysters are available from 1907 (Dunn 2005)). The data have been published in annual Parliamentary reports from 1931 to 1973, and in a Ministry of Agriculture and Fisheries report for the years 1974 to 1982 (see Methods for details), but they are not electronically available. Data from 1983 onwards are available electronically from the Ministry for Primary Industries (MPI) and are presented for most species in the MPI Fisheries Assessment Plenary reports (Ministry for Primary Industries 2012a). The aims of the present study were to collate and punch the available landings data from the period 1931 to 1982, aggregate the landings by Fisheries Management Areas (FMAs), and generate electronic catch histories for all important inshore finfish and shellfish species. Both domestic and foreign vessel landings from within the New Zealand Exclusive Economic Zone (EEZ) are included. These catch histories are now freely available in electronic and hardcopy form for the first time, making it possible to quantify and analyse the extent of New Zealand’s inshore fisheries and how they have changed over time. The catch histories are also available for input into new stock assessment models.

2. METHODS

2.1 Scope of this study

This study is restricted to inshore species of finfish and shellfish as defined by MPI (Ministry for Primary Industries 2012a, p. 26). The term ‘shellfish’ as used here follows established New Zealand fisheries terminology by including crustaceans (e.g. rock lobster, paddle crab) and an echinoderm (kina). Some fish species have distributions that span the edge of the continental shelf (Anderson et al. 1998), and are thus intermediate between ‘inshore’ and ‘deepwater’ species. Furthermore, some stocks of some species are divided administratively by MPI into inshore and deepwater components; for example barracouta in FMAs 1–3 and jack mackerels in FMAs 1–2 are considered inshore stocks whereas the remaining stocks of these species are considered deepwater stocks (Ministry for Primary Industries 2012a). For completeness, we include all stocks of these divided species in our data compilation. Some inshore species now landed and listed by MPI do not appear in the landings statistics before 1983 and have been omitted. A list of the 41 finfish and 13 shellfish species (or species groups) covered by the present study is shown in Table 1.

In the remainder of this report, we refer to ‘landings’ rather than ‘catches’. Before 1983, no information was available on catches, only on the portion of the catch that was brought ashore by fishers. The landings reported here therefore exclude unwanted catch that was discarded at sea. The discarded catch included unwanted species, small or under-sized fish, and damaged fish.

With a few exceptions, only landings that were *reported* to authorities are included. Unreported landings may have been large historically. In the 1930s, the data collection scheme was rudimentary, and landings into some important ports (notably Port Chalmers [Dunedin], Timaru, Nelson and Gisborne) were simply not recorded or not reported in some years before 1938 (see Appendix 1 for further details). Furthermore, some fishers under-reported their landings for a variety of reasons, including reducing their apparent income for taxation purposes. The extent of under-reporting was 50–70% at some times and in some places (King 1985, MPF pers. obs.), but the overall magnitude of under-reporting is unknown and is likely to have been species-specific.

Landed weights of fish processed at sea were scaled up by administrative staff to estimate whole weights by application of conversion factors. King (1985, appendix 4) presented some typical conversion factors used in 1974–82. The conversion factors in use before 1974 were not fully documented, but the Fisheries Regulations, Notices, and other documents suggest that there were several changes over time. If the landed state was not declared by a fisher, the landing was coded as whole weight; this will have resulted in the underestimation of the weights of some landings, a bias that applied particularly to species that are processed at sea such as sharks and paua (King 1985).

Landings by foreign licensed and foreign chartered vessels have been included where available (see next section for details) but recreational, customary and illegal landings have not. Although some estimates have been made of recreational and customary landings (Ministry for Primary Industries 2012a), they virtually all post-date the period covered by this study.

2.2 Data sources and characteristics

Landings data were derived from multiple sources as follows:

- Domestic landings 1931–73: Annual Reports on Fisheries, compiled by the Marine Department until 1971 and the Ministry of Agriculture and Fisheries until 1973 as a component of their Annual Reports to Parliament published as Appendices (H-15) to the Journal of the House of Representatives (ARs). From 1931 to 1943 inclusive, data were tabulated by April–March years, but we have equated them with the main calendar year (e.g. 1931–32 landings are treated as being from 1931). From 1944 onwards, data were tabulated by calendar year, with the data for January–March 1944 presented in both years. Hereafter we refer to these data as the ‘AR data’. An AR was

also produced for 1974, but it was not used here because it was superseded and updated by the data described in the next bullet point (King 1985).

- Domestic landings 1974–82: Ministry of Agriculture and Fisheries, Fisheries Statistics Unit (FSU) calendar year records published by King (1985). Unfortunately King filtered the available finfish data, showing only landings for species that comprised more than 1% of the total landings at a port (this problem did not apply to shellfish landings). The electronic files from which these reports were produced appear to have been lost. However, old FSU computer printouts found in NIWA's archives from the same period enabled us to manually replace the missing finfish data. We refer to these data as the 'FSU domestic data'.
- Foreign landings 1979–82: An electronic data extract of landings by trawlers that filled out deepwater trawl logbooks (form type 17) was obtained from the MPI FSU database. Data were available from April 1978, when New Zealand declared its EEZ (King et al. 1985); thus data for 1978 were incomplete and were only used if we found no other full-year data source. We refer to these data as the 'FSU foreign data'.
- Foreign landings before 1979: There are no comprehensive hardcopy or electronic sources of foreign fishing data before 1979. A variety of published and unpublished sources were found but the data were sparse and incomplete, especially for Russian (USSR) landings (Paul 1979). Some sources of data overlapped in time and space, and we selected what appeared to be the most reliable source for each region and year. The following sources were used:
 - Hurst (1988) provided barracouta landings from 1975–76 to 1978–79 (April to March fishing years) for Japanese and Korean vessels in EEZ areas B–H (see below).
 - An unpublished summary of Japanese trawl landings by EEZ areas B–H (see below) was used for the years 1975–76 to 1977–78 (April to March fishing years) for snapper (called red snapper), tarakihi, ling, red cod and jack mackerels. These data came from Japanese 'blue books' held in NIWA's archives, and summaries have been published in various forms (Paul & Robertson 1979, Paul 1979, Hurst 1988).
 - An unpublished MAF Fisheries summary of Japanese trawl landings by 'divisional' areas D1–D8 (see below) was used for the years 1968 to 1975 for snapper (called red snapper), tarakihi, ling (called rock ling), red cod, barracouta and jack mackerels. These data appear to be from an unpublished conference paper by Saito & Sato (unpubl.) that we have been unable to locate.
 - Russian trawl fishing effort in FMA 3 (mainly Canterbury Bight) was about the same as Japanese trawl effort in the same area from 1972 to 1978 (Fenaughty & Bagley 1981). We therefore doubled the FMA 3 Japanese landings of barracouta, jack mackerels, ling, red cod and tarakihi for those years to account for Russian landings.
 - Japanese annual landings of snapper in SNA 1 (FMA 1) were obtained from the catch history that is input into the SNA 1 stock assessment model. The sequence that assumed cumulative total landings of 30 000 t over the period 1960 to 1977 was used (Ministry for Primary Industries 2012a). The MPI Plenary report (Ministry for Primary Industries 2012a) provided Japanese trawl landings of snapper in SNA 7 (FMA 7) between 1968 and 1975. Davies (1999) provided annual Japanese longline (1975 to 1977) and trawl (1968 to 1977) landings of snapper in SNA 8 (FMsAs 8 and 9). We assumed constant annual SNA 8 longline landings of 2000 t (Davies' mid-range estimate) between 1965 and 1974 (Ministry for Primary Industries 2012a).
 - Paul & Davies (1988) provided annual Japanese longline landings of groper between 1975 and 1977.
 - Fenaughty & O'Sullivan (1978) provided Japanese trawl landings of groper, gemfish, red gurnard and sea perch in FMA 5 in 1975 and 1976.

If data were reported by April–March fishing years, we equated them with the main calendar year. We refer to these data as 'miscellaneous foreign data'.

2.3 Species identification issues

Landings data were frequently not recorded to species level. This may have resulted from difficulty in distinguishing closely related species or the lack of an economic or management incentive to separate landings by species. Eleven species groups were used in this study for groups of species that were rarely or poorly separated to species level (Table 1). Many other species identification errors are known (King 1985, L. J. Paul & M. P. Francis pers. obs.) and the more important of these are described below:

- Gemfish and Kingfish were often confused in the AR data, mainly because gemfish were often called ‘southern kingfish’ by fishers. Gemfish landings were reported as ‘hake’ in the AR data between 1931 and 1966. However, from 1967 to 1972 gemfish and kingfish were combined under ‘kingfish’ and ‘hake’ was not listed. Furthermore, ‘hake’ was rarely used in South Island ports in 1966, indicating that the two species were being combined from that year in the south. Kingfish rarely occurs around the southern South Island, and kingfish landings were very low before and after 1966–72 in ports south of Lake Ellesmere. We therefore assigned ‘kingfish’ landings in FMA 3 ports south of Lake Ellesmere and in FMA 5 to gemfish and set the kingfish landings to zero. For FMA 3 ports north of Lake Ellesmere and for FMA 7, kingfish landings were estimated by linear interpolation between the average of the 1962–65 kingfish landings and the average of the 1973–76 kingfish landings. The same procedure was used for North Island FMAs except that the averaging periods were 1962–66 and 1973–76. Gemfish landings were then estimated by subtracting the interpolated kingfish landings from the AR ‘kingfish’ landings. Consequently, gemfish and kingfish landings during the late 1960s and early 1970s are very uncertain.
- The category ‘hake’ possibly also included some true hake (*Merluccius australis*). Graham (1956) noted that this species was sometimes not uncommon in Otago coastal waters from 1900 to the early 1930s, and was sold in the markets, sometimes as ‘whiting’.
- Small landings listed under ‘bonita’ or ‘brama’ in AR data in the 1930s, 1940s, 1960s and early 1970s were coded by us as bluenose. Other bluenose landings are likely to have been listed under groper. Reported bluenose landings increased rapidly in 1981 and 1982 and this may reflect better reporting as well as increased target fishing (King 1985).
- ‘Moki’ in the AR data and FSU domestic data is mostly blue moki, and was treated as such here. However, an unknown amount of red moki was reported under the same name (King 1985), particularly in FMA 1.
- King (1985) combined spiny dogfish and northern spiny dogfish with rig in the FSU domestic data. However spiny dogfish was listed separately from 1981 in the hardcopy printouts we consulted. We treated spiny dogfish separately here, although there was likely some mis-identification by fishers, especially before 1981. Northern spiny dogfish has probably been reported as rig or spiny dogfish. Landings of spiny dogfish and northern spiny dogfish were probably small before 1978, the majority of (sometimes large) catches being discarded at sea.
- The FSU domestic data did not list porae before 1978 or sea perch before 1981, for unknown reasons (King 1985), although sea perch was listed (possibly together with other species) as ‘perch’ in the ARs. They were undoubtedly combined with one or more other species in earlier decades.
- In the FSU domestic data, ‘shark’ consisted mostly of school shark, and we have coded it as such. However, ‘shark’ also included small amounts of other shark and ghost shark species that were not listed separately before 1981 (King 1985). The same is likely true for the AR data.
- School shark landings in the 1970s were affected by restrictions on their export to Australia because of concerns about mercury levels in their flesh. Reported landings declined dramatically in some years, notably in 1978 and 1979, but some was probably landed and mis-coded as rig. The AR data for 1973 do not list rig (which was previously reported as ‘pioke’) and the combined rig and school shark landings were listed under ‘shark’. We estimated 1973 rig landings by applying the mean rig to school shark ratio from 1972 and 1974 (0.55 to 0.93 depending on the FMA) to the 1973 ‘shark’ landings; the remainder was coded as school shark.
- Small pelagic fishes were often mis-identified in the landings (King 1985). We have grouped pilchard, anchovies and sprats as ‘pilchard’, the species known to be most commonly landed. This class may also include some yellow-eyed mullet, which was often called ‘herring’.
- Blue warehou may include some silver warehou (*Seriola punctata*) before 1981 (King 1985).

- A small number of small domestic landings appeared to be mis-identifications or errors based on the known distributions of the species (e.g. blue maomao reported from FMA 5, parore reported from FMAs 3 and 4) and were omitted.
- We could not assign 138 hundredweight (cwt) (7 t) of ‘rock cod’ reported in 1973 to a species or species group and therefore omitted the record. King (1985) stated that ‘rock cod’ was a mix of sea perch, parrotfish (wrasse) and pigfish.
- Japanese landings of ‘red snapper’ were interpreted as snapper, as most of them came from northern New Zealand. However small amounts reported from the southern South Island, Chatham Islands and Sub-Antarctic areas D4–D6 (southern FMA 3 and FMAs 5 and 6) were likely to be mis-identifications or mis-namings of other species and were omitted. Fenaughty & O’Sullivan (1978) suggested that orange perch (*Lepidoperca aurantia*) and orange roughy (*Hoplostethus atlanticus*) may have been reported as red snapper. The golden snapper (*Centroberyx affinis*) is also widely known as red snapper, and occurs occasionally around the South Island.
- Japanese landings of John dory in FMAs 3, 4 and 5 were assumed to be other dory species and were omitted.
- Oysters from northern North Island ports were assumed to be rock oysters and oysters from South Island ports were assumed to be dredge oysters. Rock oyster landings were never included in the FSU domestic data, probably because the wild rock oyster fishery had ceased before 1974 following the development of a major rock oyster farming industry. AR landings of rock oysters may include considerable amounts of farmed oysters in later years; they will also include an increasing quantity of the introduced Pacific rock oyster (*Crassostrea gigas*). From about 1900, most rock oysters were to some extent ‘farmed,’ being taken under strict conditions from rocky foreshores where intervention often occurred (movement from good spatfall areas to good growing areas, removal of carnivorous gastropod ‘pests,’ construction of protective walls, etc.) and sold only through government agencies.
- Scallop were not mentioned in the AR data before 1961, and were often combined with other species thereafter. From 1961 to 1963, scallop were combined with mussels (in units of sacks) in the main table but listed separately as cwt in footnotes. From 1964 to 1966, scallop landings were not combined with other species, but were listed in cwt in footnotes. From 1967 to 1971 scallop were combined with ‘Other shellfish’ and were not footnoted. King & McKoy (1984) published a detailed analysis of the Nelson-Marlborough scallop landings in 1959–80 (the fishery was closed in 1981 and 1982), and clearly had access to comprehensive information on landed state and landed weights. We therefore used their landings estimates (calculated as calendar year totals from the monthly values in their table 4 because their annual values in table 1 were for July-June years) for 1963 to 1973 in place of the corresponding AR values for Nelson-Marlborough ports. We used the AR values for 1961 and 1962 as they were unambiguously reported in footnotes, and were considerably higher than King & McKoy’s values for unknown reasons. Scallop landings were subtracted from ‘Other shellfish’ landings for Nelson-Marlborough ports in 1967 to 1971. We used AR scallop landings for northern North Island ports in 1972 and 1973 (the first years in which scallop landings were listed separately). FSU domestic landings were used for all ports from 1974 to 1982.
- In the 1961–1963 AR data, ‘mussels’ included scallop and ‘other shellfish’. Landings of mussels in Nelson–Marlborough in those years were estimated by subtracting the landed monetary value (in pounds) of scallop from the landed value of ‘mussels’ in the main table and dividing by 0.73 (the mean value in pounds per sack of mussels in 1964 to 1966).
- The AR shellfish tables listed 31 t and 35 t of ‘Others’ in 1971 and 1972 respectively, in addition to an ‘Other shellfish’ category. ‘Others’ may refer to non-molluscan shellfish such as kina or paddle crabs, but we omitted this category because of uncertainty.
- Packhorse lobsters were frequently reported as rock lobsters in the AR data (Annala & King 1983) and probably also in the FSU domestic data.

2.4 Data gaps, errors, omissions and corrections

Some landings data were missing, erroneous or highly uncertain. We variously omitted, estimated or found the relevant values as follows:

- Landings of school shark livers increased greatly during 1942–1950 to supply a demand for vitamin A. The quantities of sharks involved were not recorded, but may have peaked at about 2500 t per year for several years based on reported liver weights (Ayers et al. 2006, appendix 1). Because of the uncertainty in these estimates, we have omitted them.
- 246 cwt of elephantfish reported from Bluff in the 1940 AR was recoded as flatfish, based on examination of landings of the two species in adjacent years. The flatfish landing was printed in the wrong line of the table.
- FSU domestic data for 1974 and 1975 are uncertain and probably under-reported because of the introduction of a new fishing return form in 1974 (King 1985).
- Large FSU domestic landings (1000–2400 t per year) were coded as ‘mixed species’ in Gisborne in 1978–1982. This comprised variable amounts of kahawai, blue mackerel, jack mackerels and trevally, and resulted in the reported landings of those species being low and variable (King 1985). No adjustments could be made.
- 900 t were added to Lyttelton mixed species landings in 1981 and 1982 to adjust for known under-reporting (King 1985, p. 115).
- Some missing values for rig and jack mackerels were obtained from King (1985, table 10).
- 300 t of snapper were added to Nelson in 1980 to adjust for known under-reporting (King 1985, p. 115).
- 1982 FSU domestic data received after September 1983 were reported by King (1985, appendix 3). The additional landings, totalling 1250 t of finfish and 109 t of shellfish, were submitted by fishers in an attempt to establish their eligibility to continue commercial fishing. The impending introduction of a quota system alerted fishers to the need for a recorded catch history. King did not include these data in her main data tables to avoid distorting comparisons among years, stating that similar under-reporting had probably occurred in previous years. Similarly, we omitted these additional landings, which in any case were not given by port of landing.
- Bluff landings of dredge oysters in 1956 were not published in the AR. We used the value of 58.63 million oysters reported in the Plenary Report (Ministry for Primary Industries 2012b, p. 121), and converted it to sacks by assuming 774 oysters per sack (Dunn 2005).
- Nelson (Tasman Bay) landings of dredge oysters were not listed by King (1985) in table 6 with all other species, but were provided instead in table 11.
- In 1963, there were spikes in the mussels landings in FMAs 3, 4 and 8 caused by the inclusion of unspecified ‘other shellfish’ with mussels in the ARs. We have no information from which to estimate the true landings of mussels so we made no changes.
- Paua landings at the Chatham Islands were under-reported by 50–70% during 1974–82 compared with figures from processing factories (King 1985, p. 115–116). However, King provided the factory figure for one year only, making it impossible to correct the whole FSU domestic time series. We therefore made no changes. King suggested that the Chathams under-reporting ‘is likely to apply to other regions also’.
- Tuatua landings were missing from FSU domestic data for October–December 1981. These same three months produced 21 t (19% of the annual total) and 25 t (17%) respectively in 1980 and 1982 (King 1985, table 7). Most tuatua landings in 1980 and 1982 came from Kaipara Harbour (93% and 99% respectively). We estimated the missing three months would have produced 14 t more tuatua from Kaipara Harbour (18% of the year’s landings) and added this amount to Kaipara landings.

2.5 Aggregation of landings into FMAs

Before 1983, nearly all domestic landings were reported by *port of landing* (King 1985) (Figure 1). To some extent ‘port’ is misleading, as it represents a length of defined coastline within which a port is situated. Ports were defined in appendix 1 to the AR for the year ended 31 March 1950. (Landings were also reported by statistical area, but this information was not published and is not readily available. It was, however, accessed by Ritchie et al. (1975) who summarised landings for 10

important species by area and month for the years 1960 to 1970.) Our aim was to assign port landings to the FMA of capture, and for all marine finfish species we used the standard FMA boundaries (Figure 1). However, FMAs are not appropriate for freshwater eels, or for some shellfish species that are managed at a smaller or much larger spatial scale. Multiple terrestrially-based stocks of shortfinned and longfinned freshwater eels are recognised (Ministry for Primary Industries 2012a). We were unable to assign port landings of freshwater eels to these terrestrial areas (some eel landings went to processors at established ports, some to specialised inland processing plants), and instead assigned them to North, South and Chatham islands. Dredge oyster, paua, rock lobster and scallop landings were assigned to the Quota Management Areas (QMA) shown in Figure 2. Rock oyster and packhorse lobster are each managed as a single stock so all landings were aggregated across the whole of New Zealand. FMAs were used for the remaining shellfish species, either because their QMA boundaries coincided with FMA boundaries, or because they had no QMAs.

Some fishing vessels, particularly larger trawlers and purse seiners, landed finfish in ports considerable distances from where they were caught. We adjusted the finfish port landings based on the known or suspected fishing grounds for each species. This was done by generating a matrix of estimated percentages by species and port that defined the allocation of port landings to each of the FMAs (Appendix 2). The percentages were based mainly on our historical knowledge of the mobility and fishing grounds of various fishing fleets, complemented by documented fishing patterns where available. Many of the percentages are educated guesses, and are debatable. However, trans-boundary shipment of finfish was probably low for most inshore finfish species, especially before 1980. There was insufficient information to adjust for temporal changes in port landing patterns. Trans-boundary shipment of shellfish was probably even lower than for finfish, except perhaps for rock lobster, and we assumed it was negligible.

In addition to applying the port percentages in Appendix 2 to the landings, we made the following adjustments and interpretations when assigning landings to FMAs:

- We assumed there were no domestic landings of inshore species from the Kermadec Islands (FMA 10) and Sub-Antarctic (FMA 6) during 1931–1982. Exploratory fishing by bottom longliners began at the Kermadecs in about 1983 and bottom trawling is impossible there because of the steep, rocky seabed. Most inshore species do not occur in Sub-Antarctic waters, and few domestic vessels fished there. Two large domestic trawlers that began fishing in New Zealand in 1982, and that filled out deepwater logbooks, did not report any landings of inshore species from FMA 6.
- In the 1930s, considerable amounts of finfish were shipped from the Chatham Islands to Wellington by the freight vessel ‘South Sea’. The quantities involved were generally recorded in footnotes in the ARs and we subtracted the stated amounts from Wellington landings and assigned them to the Chatham Islands (FMA 4). However, it appears that not all trans-shipped fish was recorded: an improbable peak in Wellington blue cod landings in 1933 and 1934 (after subtraction of footnoted amounts from the Chathams) was probably unrecorded Chathams fish. We reassigned all but 100 cwt of Wellington blue cod landings in those years to the Chatham Islands (100 cwt was the mean Wellington blue cod landing between 1936 and 1942). The blue cod peak in FMA 2 in the 1960s and 1970s was probably real even though it coincided with a drop in landings in FMA 4. The Chatham Islands finfish fishery collapsed in the late 1960s because of the rock lobster boom there, and some Wellington boats that had fished at the Chathams returned to Cook Strait and continued blue cod fishing. Also, blue cod fishing in Hawke Bay increased in the late 1960s after deregulation of the fishing industry in 1963 (Voller & McGregor 1985).
- Manukau Harbour and Auckland finfish landings were combined in the AR data from 1931 to 1943. We reassigned flatfish and grey mullet landings (the only two species affected) from Auckland to Manukau in those years by calculating the average ratio of Manukau to combined Auckland and Manukau landings in 1944–1946 and applying that to earlier Auckland landings. The ratios for 1944–1946 were 0.50 for grey mullet and 0.18 for flatfish.
- Manukau Harbour and Auckland shellfish landings were combined in the AR data from 1931 to 1938. From 1939 to 1964, the only shellfish reported from Manukau Harbour were small landings

of rock lobster. Auckland mussel and rock oyster landings before 1939 were therefore assumed to have come from the east coast (i.e. FMA 1 rather than FMA 9).

- The vast majority of rock oyster landings were reported from Auckland where the Government's oyster depot was located. Rock oysters were reported from the Bay of Islands, Coromandel and Kaipara only in 1967 and 1968, and the Auckland landings in those years were correspondingly reduced. Consequently we combined all landings from these four ports into an Auckland-Northland region.
- Two large trawlers (*Sea Harvester I* and *II*) worked out of Nelson in 1967 and 1968, and their landings created a spike in Nelson landings during those years. However, they mostly fished the west coast South Island, which is in the same region (FMA 7) as Nelson, so no adjustments were made.
- Two large (87 m) domestic trawlers began fishing in New Zealand in May 1982 (King 1985), and tended to work further offshore than other smaller domestic trawlers of the time. These two trawlers filled out deepwater logbooks in 1982, and provided latitudes and longitudes for their fishing operations. We allocated their landings of inshore species directly to FMAs using those positions. We subtracted equivalent amounts from the Dunedin landings, where they had been assigned by King (1985).
- FSU foreign data came from logbook records in which trawl latitudes and longitudes were provided, and we used these to allocate landings directly to FMAs. Processed weights were linked with the location data from the previous tow; however, sometimes vessels made multiple tows during a day but only recorded one processing event. Thus occasional allocation errors may have been made where a vessel fished two adjacent FMAs in a single day. 3.4% of records had no position information and these were deleted.
- Landings data were reported by Japanese fishing vessels in 'divisional' areas D1–D8 up to 1975 (Figure 3), and by Japanese and other foreign fishing vessels in EEZ areas A–H from 1975–76 onwards (Figure 4). The boundaries of these areas correspond more or less with current FMA boundaries, with two main exceptions. We allocated foreign landings from the old statistical areas to FMAs as shown in Table 2. Area H and area D8 landings of species other than snapper and red cod were allocated 75:25 to FMAs 8 and 9, based on the knowledge that most of the catch was taken as bycatch of the jack mackerel trawl fishery in FMA 8 (Robertson & Eggleston 1979; R. Hurst, NIWA, pers. comm.). Snapper and red cod were allocated 50:50 and 100:0 to FMAs 8 and 9 respectively based on their more northerly and southerly distributions respectively. Similarly, snapper in areas B, C and D2 were allocated to FMA 2 rather than FMA 3 because of the northerly distribution of that species.
- 1452 t of Korean barracouta landings reported by Hurst (1988) were not broken down by area so we apportioned the total equally across the four main statistical areas (C, D, F and H).

2.6 Data processing

The following data processing steps were conducted:

- Punched AR and FSU domestic data were error-checked by comparing the sums of the columns or rows with the column or row totals from the original sources (which were also punched). Where the published totals did not equal the column or row sum, the totals were assumed to be wrong; in most cases the errors appeared to be arithmetical addition mistakes (e.g. the total differed from the sum of the column by 100). Rounding errors up to ± 2 cwt were ignored.
- 1931–1973 AR finfish weights were converted from cwt to tonnes by multiplying by 0.0508 and rounded to nearest tonne. Apportioning landings among FMAs often resulted in decimals of a tonne and they were also rounded to the nearest tonne.
- The FSU domestic data used '+' symbols to indicate shellfish landings less than 1 t (King 1985). We converted these to zeroes.
- Conversion of AR shellfish landings to tonnes was complicated by the variety of processed states and weight units used. In the ARs from 1931 to 1966, cwt was used for all species except oysters (both species) and mussels which were reported in sacks, and from 1967 to 1973, cwt was used for all shellfish except for oysters in sacks. Oyster sacks were assumed to weigh 79 kg in Foveaux

- Strait (King 1985, p. 115–116), and in Tasman Bay up to 1973 (L. Bloomfield, P. Crapper, B. Falconer, C. Paris, pers. comm.). Smaller sacks and wooden boxes that held 25–35 kg of shellfish were introduced in Tasman Bay in the mid 1970s but the FSU domestic data for 1974 to 1982 were already converted to tonnes and had been adjusted for container weight.
- Mussel sacks were assumed to weigh 68 kg in the North Island, after Greenway (1969). In the South Island, mussels sacks were the same as the sacks used in the dredge oyster fisheries, and were assumed to weigh 79 kg (L. Bloomfield, P. Crapper, B. Falconer, C. Paris, pers. comm.).
 - Rock oyster sacks in the North Island were assumed to weigh the same as mussel sacks (i.e. 68 kg). In 1972 and 1973, Auckland rock oysters were landed in ‘bags’ that were reported to be half a sack, so we divided the landings by two to convert them to sacks before converting to tonnes.
 - In the AR data, scallop weights were stated to be meat weight in 1963 and shell (whole) weight in 1965, but the processed state was not given in other years. Footnotes provided the monetary values of the landings (in pounds). By calculating the value per cwt of scallop, we determined that meat weight was probably reported in 1961 to 1964 (7.9–14.1 pounds per cwt (mean 11.1)) whereas whole weight was probably reported in 1965, 1966, and 1972–1974 (1.5–5.4 pounds per cwt (mean 3.8)) and presumably the years in between. This is consistent with the knowledge that fishers processed scallops at sea up to 1963, but landed them in the shell after 1964 when a minimum shell size limit was introduced (King & McKoy 1984). Scallop meat weights were converted to whole weights by applying a conversion factor of 8 (King 1985).

3. RESULTS

The reported annual commercial landings of inshore finfish and shellfish from 1931 to 1982 are shown in Figure 5 and Table 3. Domestic finfish landings were 13 000–18 000 t per year in the 1930s and early 1940s, declining noticeably during World War II. Landings then recovered and increased in the late 1940s to reach a plateau at about 22 000 t and remained there until the mid 1950s. Thereafter, landings increased steadily until 1969, after which the rate of increase accelerated and landings reached 74 000–77 000 t in the early 1980s. The effect of poor reporting following the introduction of new fishing return forms in 1974 is apparent from the large drop in landings in 1975. Almost half of the reported landings were not specified by species in the 1931 AR, but that dropped rapidly to less than 10% by 1938 and a negligible amount by 1955 (Figure 5). The unspecified percentage increased again during the 1970s and early 1980s, presumably as a result of larger trawlers and purse seiners catching larger quantities of fish that were not physically separated when landed, or were used for bait or fish meal. In addition, the data from 1974 onwards were probably processed and interpreted a little differently by King (1985).

Foreign landings of inshore finfish species were poorly reported before 1978, the year when the EEZ came into force. The landings data shown in Figure 5 clearly do not adequately capture foreign landings before 1968, and they probably also seriously underestimate landings through most of the 1970s. Many of the less abundant inshore species that would have been caught as bycatch of foreign trawl fisheries were not even mentioned in the landings data. Nevertheless, it is clear that foreign landings of some inshore species were at least comparable with, and possibly considerably higher than, domestic landings between 1968 and 1977.

Shellfish landings increased steadily from about 4000 t per year in the 1930s to 16 000 t in the early 1960s (Figure 5, Table 3). After a brief levelling off, landings increased rapidly to 22 000–25 000 t in 1966–1968 as a result of the Chatham Islands rock lobster boom. Landings then declined steeply to 17 000 t in 1969 before rising steeply again to peak at 25 000 t in 1975 owing to large landings of scallop in Tasman Bay. Thereafter landings dropped back to 18 000 t per year during the late 1970s and early 1980s.

Snapper has contributed 501 000 t of landings over the period 1931–1982, making it the most important inshore species by weight (Figure 6). It was followed in descending order of aggregated landings by barracouta (350 000 t), tarakihi (236 000 t) and jack mackerels (191 000 t). A second tier

of important species included trevally, red gurnard, flatfish (a complex of eight species (Table 1)) and red cod with total landings of 93 000–107 000 t. Snapper, tarakihi, red gurnard and flatfish have produced substantial landings extending back to the 1930s, whereas fisheries for barracouta, jack mackerels, trevally and red cod developed more recently (Figure 7).

Dredge oysters dominated the aggregated shellfish landings (377 000 t), followed by rock lobster (175 000 t), mussels (73 000 t) and scallop (46 000 t) (Figure 6). Other species were minor, often because their fisheries have developed only recently. Dredge oysters and mussels have a long fishing history extending back to the 1930s (much earlier in the case of dredge oysters), whereas rock lobsters and scallop became important from the 1950s and 1970s respectively (Figure 8).

Annual landings of 41 finfish species (including freshwater eels) and 13 shellfish species by FMA or QMA are illustrated in Figures 9 and 10 respectively, and tabulated in Appendices 3 and 4. FMA 6 landings were not illustrated in Figure 9 to avoid compressing the other graph panels, but they are reported in Appendix 3. All FMA 6 landings were by foreign vessels, and most came from the FSU foreign data post-1978; total landings were 7457 t, most of which comprised ling (55%), red cod (26%) and barracouta (10%). Electronic copies of our input data, R computer processing code, and output files data are available from MPI.

4. DISCUSSION

This compilation of inshore finfish and shellfish commercial landings brings together hardcopy and electronic data from disparate and inaccessible sources into one place. The data are now also available electronically, making it possible to readily access the landings histories between 1931 and 1982 for the first time. We are conscious that other researchers, managers and interested people may wish to re-analyse the data using different assumptions and constraints, or may have access to additional data. Therefore we have provided our R computer code to facilitate re-processing of the input files to generate new outputs.

When landings data are plotted and tabulated, as we have done here, they may take on an unjustified appearance of precision and accuracy. The landings data in this report are not precise or accurate; in fact they are certainly underestimated for most species most of the time, possibly by a large degree. We caution that these data should be considered a lower bound on the true landings, and refer the reader to Section 2.1 which defines the scope of this study. Most importantly, our results are limited to *reported landings*; they do not include unreported landings, customary or recreational landings, or catch that was discarded. Any use of these landings histories as inputs to stock assessment models should inflate them by plausible amounts to account for unrecorded fishing mortality and thereby generate putative *catch* histories to use as sensitivity tests in model runs.

5. ACKNOWLEDGMENTS

We thank Sandy Black, Joeye Vorster, Peter Notman and Warrick Lyon for data punching and error checking. David Fisher produced the data extract from the FSU database. David Fisher, Neil Bagley and Rosie Hurst were very helpful in locating old computer printouts and foreign landings data and helping us to interpret them. Steve Brouwer (MPI) made good suggestions about formatting the output, and was also very supportive during the development of this project. This work was completed under Ministry for Primary Industries project SEA2012-10. We also thank Reyn Naylor for reviewing this report.

6. REFERENCES

- Anderson, O.F.; Bagley, N.W.; Hurst, R.J.; Francis, M.P.; Clark, M.R.; McMillan, P.J. (1998). Atlas of New Zealand fish and squid distributions from research bottom trawls. *NIWA Technical Report* 42. 303 p.
- Annala, J.H.; King, M.R. (1983). The 1963–73 New Zealand rock lobster landings by statistical area. *Fisheries Research Division Occasional Publication: Data Series 11*. 18 p.
- Ayers, D.; Paul, L.J.; Sanders, B.M. (2006). Examination of catch per unit effort indices for school shark (*Galeorhinus galeus*) from bycatch and target fisheries in New Zealand 1989–90 to 2001–02. *New Zealand Fisheries Assessment Report 2006/26*. 121 p.
- Davies, N.M. (1999). Assessment of the SNA 1 and SNA 8 stocks for the 1997–98 fishing year. New Zealand Fisheries Assessment Research Document 99/19. 87 p. (Unpublished document held by NIWA library.)
- Dunn, A. (2005). Stock assessment of Foveaux Strait dredge oysters (*Ostrea chilensis*) for the 2003–04 fishing year. *New Zealand Fisheries Assessment Report 2005/25*. 63 p.
- Fenaughty, J.M.; Bagley, N.W. (1981). W. J. Scott New Zealand trawl survey. South Island east coast. *Ministry of Agriculture and Fisheries, Fisheries Technical Report 157*. 224 p.
- Fenaughty, J.M.; O'Sullivan, K. (1978). Southland trawling. Prospects for the bottom-trawl industry. *New Zealand Fisheries Technical Report 154*. 151 p.
- Graham, D.H. (1956). A treasury of New Zealand fishes. Second edition. Reed, Wellington. 424 p.
- Greenway, J.P.C. (1969). Surveys of mussels (Mollusca: Lamellibranchia) in the Firth of Thames, 1961–67. *New Zealand Journal of Marine and Freshwater Research* 3: 304–317.
- Hurst, R.J. (1988). The barracouta, *Thyrsites atun*, fishery around New Zealand: historical trends to 1984. *New Zealand Fisheries Technical Report 5*. 43 p.
- Johnson, D. (2004). Hooked. The story of the New Zealand fishing industry. Hazard Press, for the Fishing Industry Association, Christchurch. 551 p.
- King, M.R. (1985). Fish and shellfish landings by domestic fishermen, 1974–82. *Fisheries Research Division Occasional Publication: Data Series 20*. 96 p.
- King, M.R. (1986). Catch statistics for foreign and domestic commercial fishing in New Zealand waters, January–December, 1983. *Fisheries Research Division Occasional Publication: Data Series 21*. 150 p.
- King, M.R.; McKoy, J.L. (1984). Scallop landings in the Nelson-Marlborough dredge fishery, 1959–80. *Fisheries Research Division Occasional Publication: Data Series 14*. 26 p.
- King, M.R.; Robertson, D.A.; McCormick, J.; Fisher, K.A. (1985). New Zealand deepwater trawl fishery statistics, 1978–80. *Fisheries Research Division Occasional Publication: Data Series 19*. 66 p.
- Ministry for Primary Industries. (2012a). Report from the Fisheries Assessment Plenary, May 2012: stock assessments and yield estimates. Ministry for Primary Industries, Wellington, New Zealand, Wellington. 1194 p.
- Ministry for Primary Industries. (2012b). Fisheries Assessment Plenary, November 2012: stock assessment and yield estimates. Ministry for Primary Industries, Wellington, New Zealand, Wellington. 531 p.
- Paul, L.J. (1979). Deep-water fish resources off the south-east coast of New Zealand. *Fisheries Research Division Occasional Publication 19*: 52–56.
- Paul, L.J. (1988). School shark. New Zealand Fisheries Assessment Research Document 88/27. 32 p. (Unpublished document held by NIWA library, Wellington.)
- Paul, L.J. (1997). A summary of biology and commercial landings, and a stock assessment of butterfish, *Odax pullus* (Forster in Bloch and Schneider) (Labroidei: Odacidae). New Zealand Fisheries Assessment Research Document 97/23. 25 p. (Unpublished document held by NIWA library, Wellington.)
- Paul, L.J. (1999). A summary of biology and commercial landings, and a stock assessment of trumpeter, *Latris lineata* (Bloch and Schneider 1801) (Latrididae), in New Zealand waters. New Zealand Fisheries Assessment Research Document 99/8. 20 p. (Unpublished document held by NIWA library, Wellington.)

- Paul, L.J. (2000). New Zealand fishes. Identification, natural history & fisheries. Revised edition. Reed, Auckland. 253 p.
- Paul, L.J. (2002). A description of the New Zealand fisheries for the two groper species, hapuku (*Polyprion oxygeneios*) and bass (*P. americanus*). *New Zealand Fisheries Assessment Report 2002/13*. 47 p.
- Paul, L.J.; Davies, N.M. (1988). Groper. New Zealand Fisheries Assessment Research Document 88/15. 27 p. (Unpublished document held by NIWA library, Wellington.)
- Paul, L.J.; Robertson, D.A. (1979). Species composition of the demersal fish resource. *Fisheries Research Division Occasional Publication 19*: 117–123.
- Ritchie, L.; Saul, P.; O'Sullivan, K. (1975). The wetfish report 1941–1970. *New Zealand Ministry of Agriculture and Fisheries Fisheries Technical Report 137*. 370 p.
- Robertson, D.A.; Eggleston, D. (1979). Shelf resources: jack mackerel and barracouta. *Fisheries Research Division Occasional Publication 19*: 30–34.
- Voller, R.W.; McGregor, G.A. (1985). Blue cod. In: Colman, J.A.; McKoy, J.L.; Baird, G.G. (eds). Background papers for the 1985 Total Allowable Catch recommendations, pp. 29–42. Fisheries Research Division, New Zealand Ministry of Agriculture and Fisheries, Wellington.

7. FIGURES

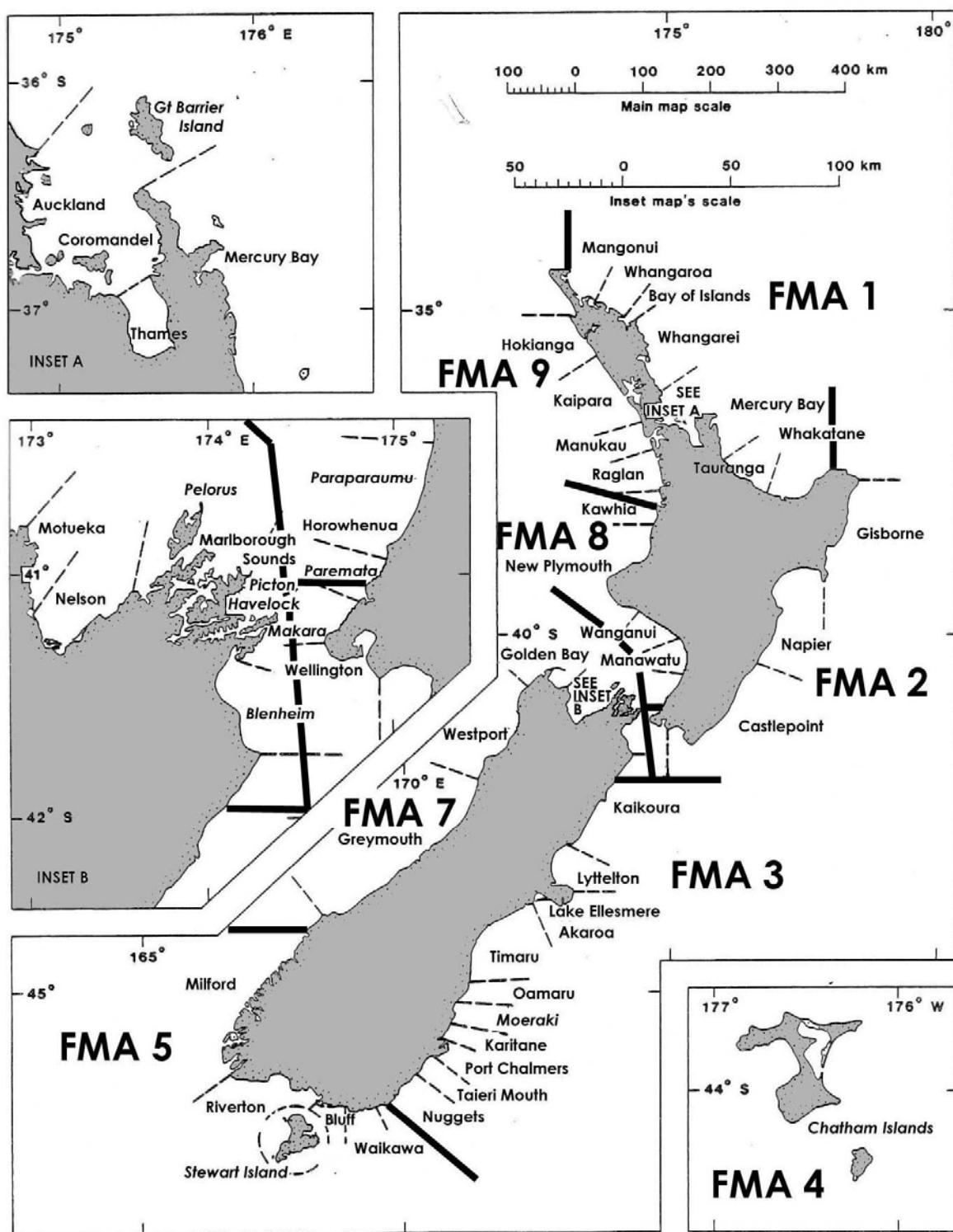


Figure 1: Geographical relationship between ports of landing and Fisheries Management Areas (FMAs).

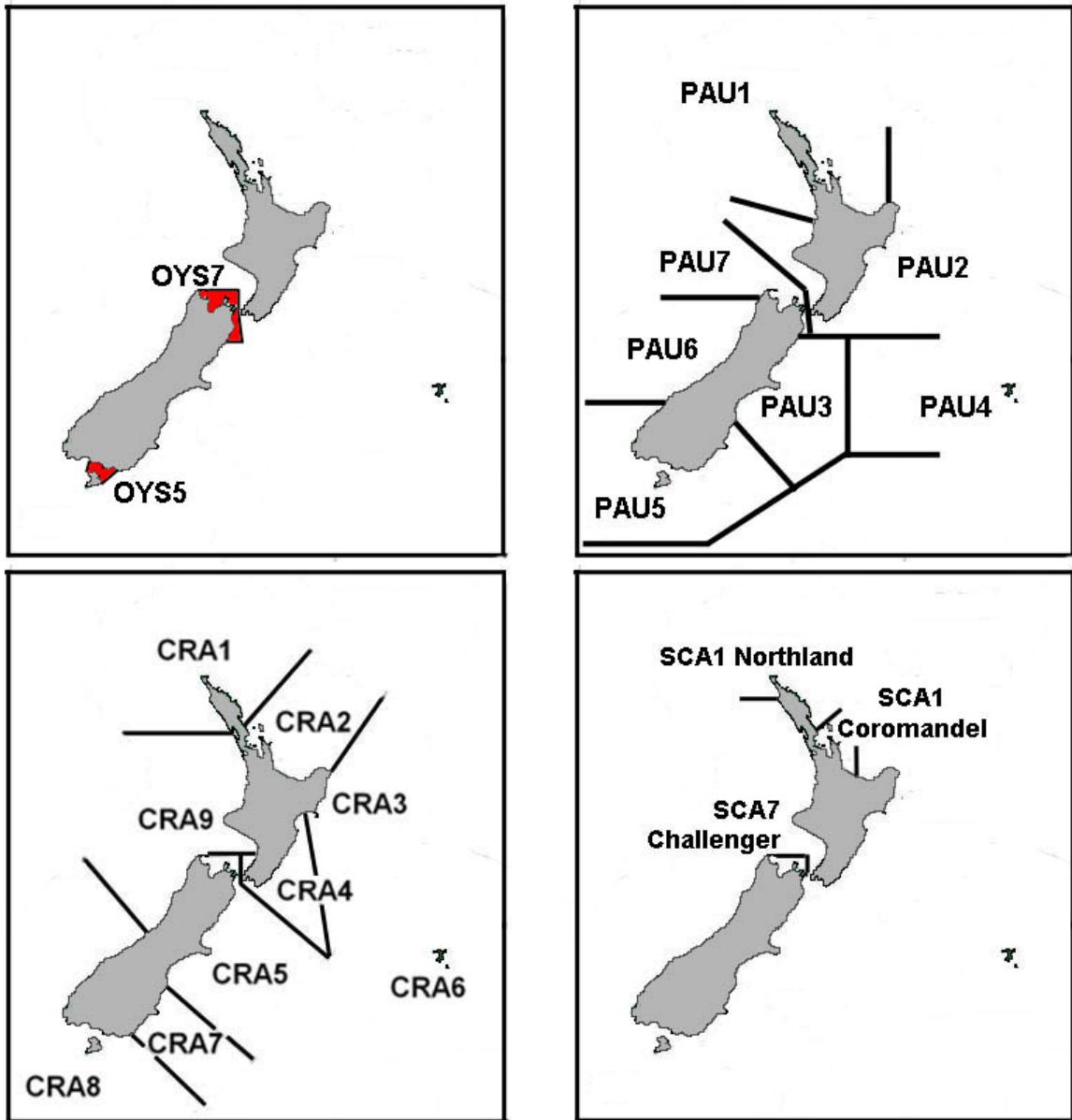


Figure 2: Quota Management Areas used for summarising landings of dredge oysters, paua, rock lobster and scallops. Sub-areas within some QMAs are not shown because we could not easily allocate port landings to them.

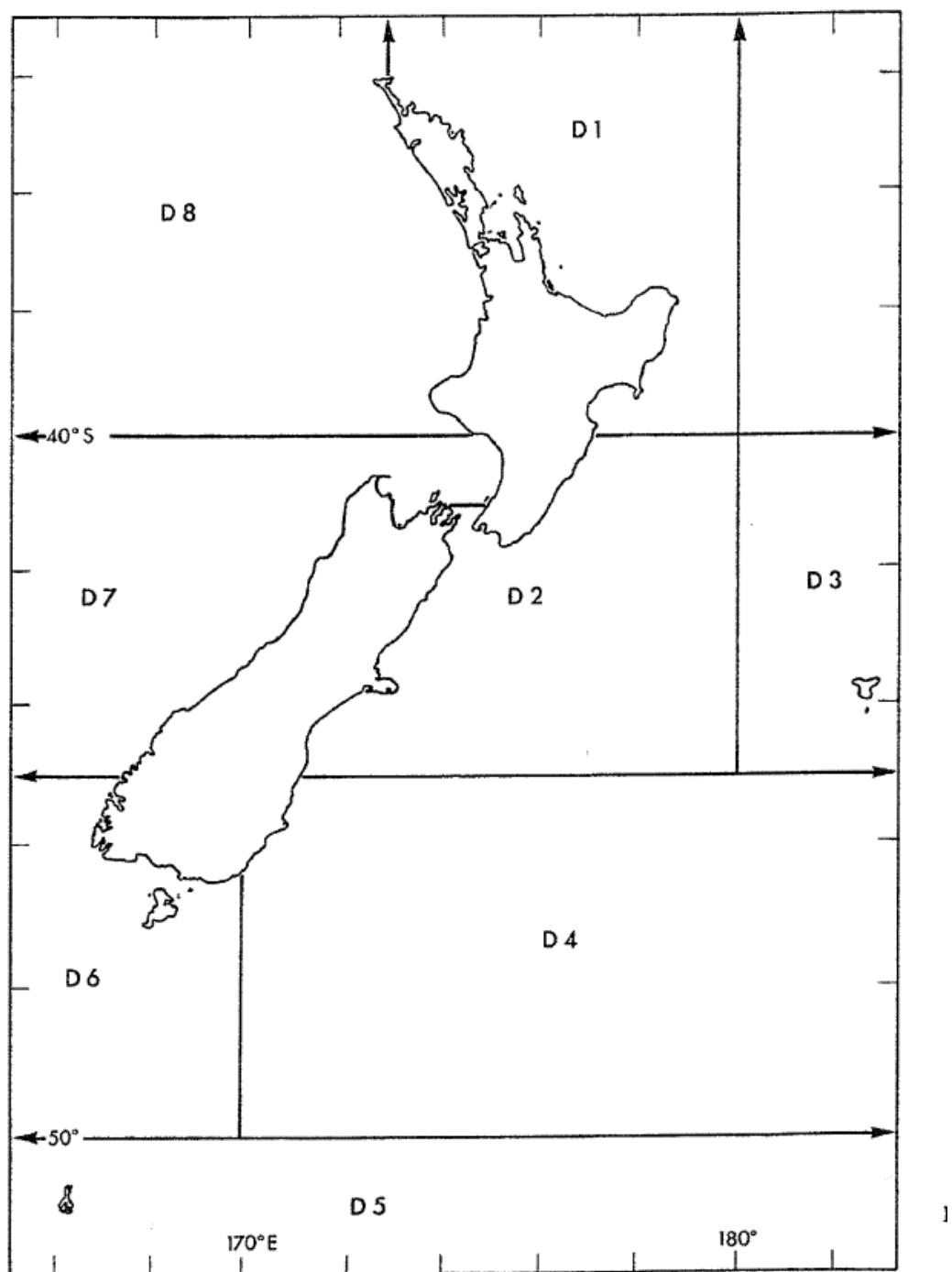


Figure 3: New Zealand fisheries statistical areas used by Japanese trawlers up to about 1975.

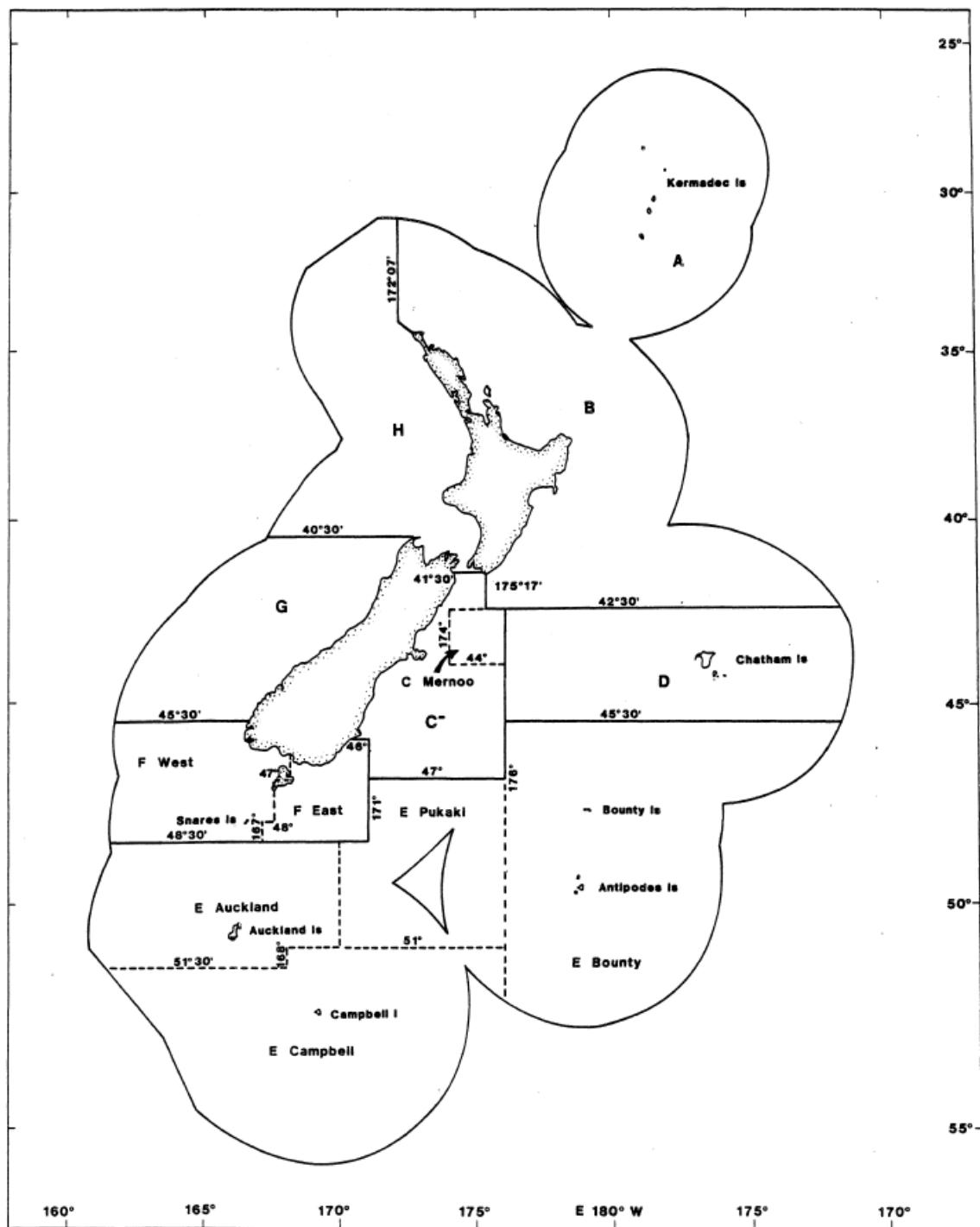


Figure 4: New Zealand fisheries statistical areas used by foreign deepwater fishing vessels (from King et al. 1985).

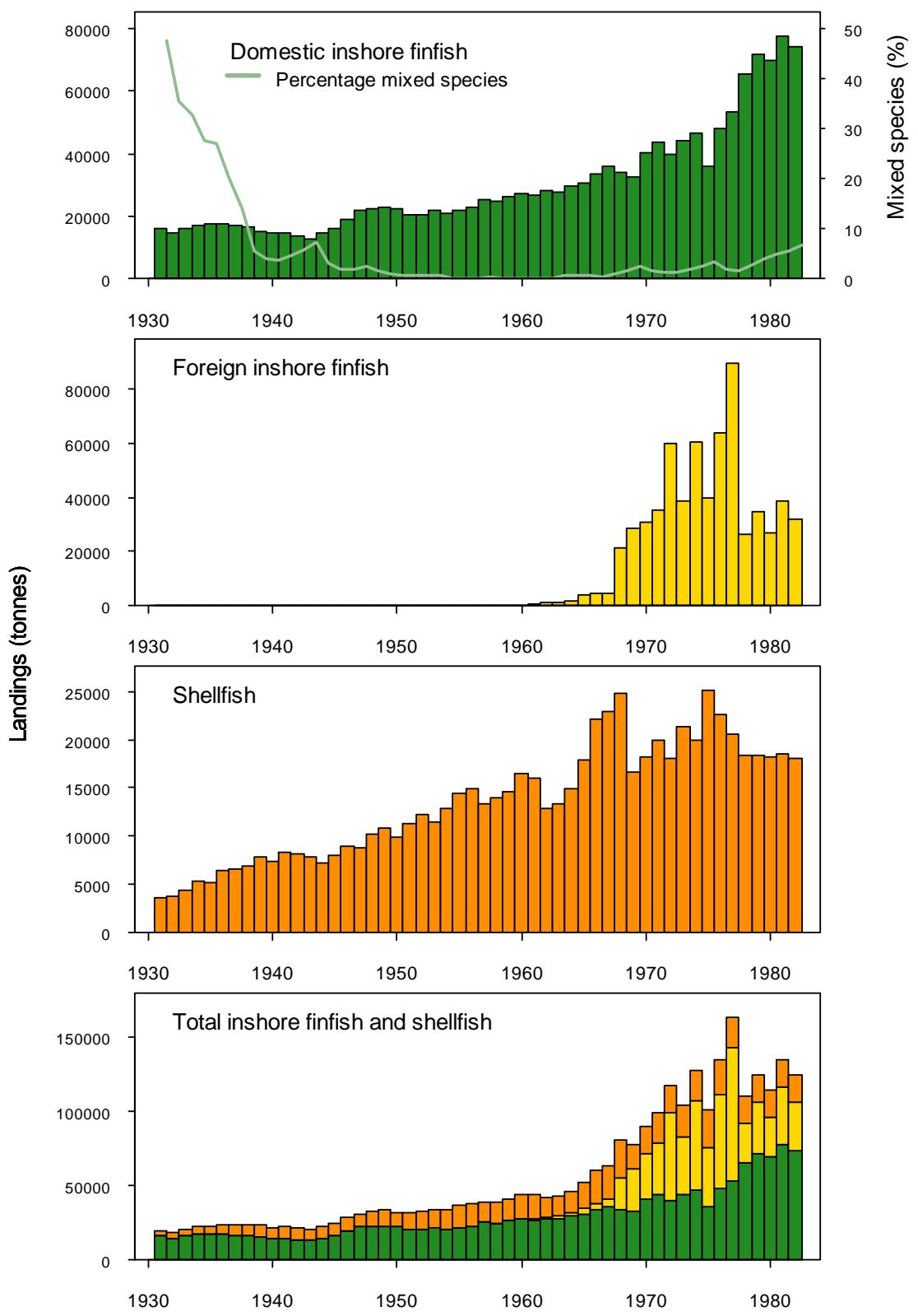


Figure 5: Total annual landings of (A, B) inshore finfish (including freshwater eels) by domestic and foreign vessels respectively, (C) of inshore shellfish, and (D) all of the above categories. Also shown in the top panel is the percentage of the total inshore finfish landings that was not reported by species ('mixed species').

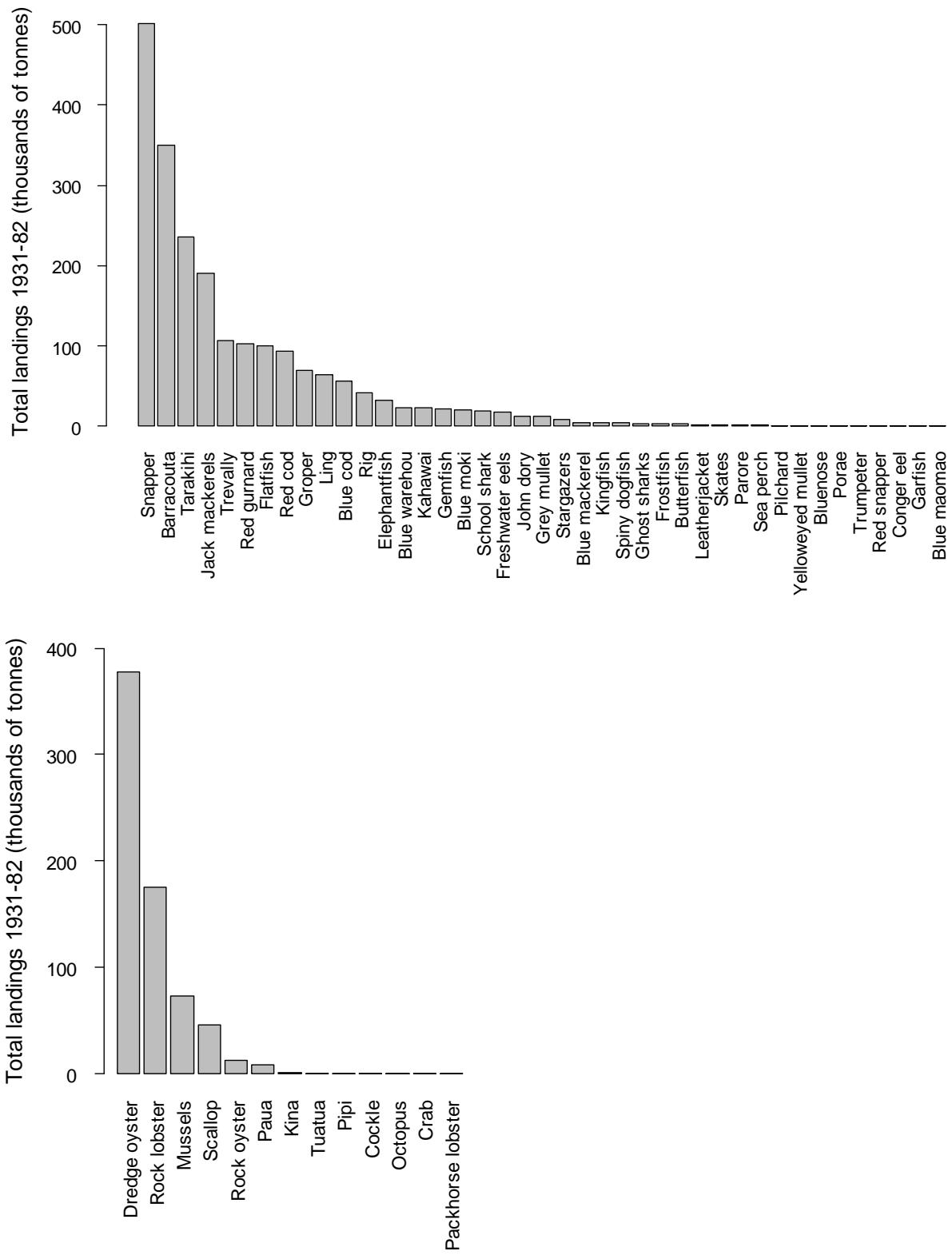


Figure 6: Total New Zealand landings of (A) inshore finfish and (B) inshore shellfish for all years (1931—82) combined, ranked in descending order.

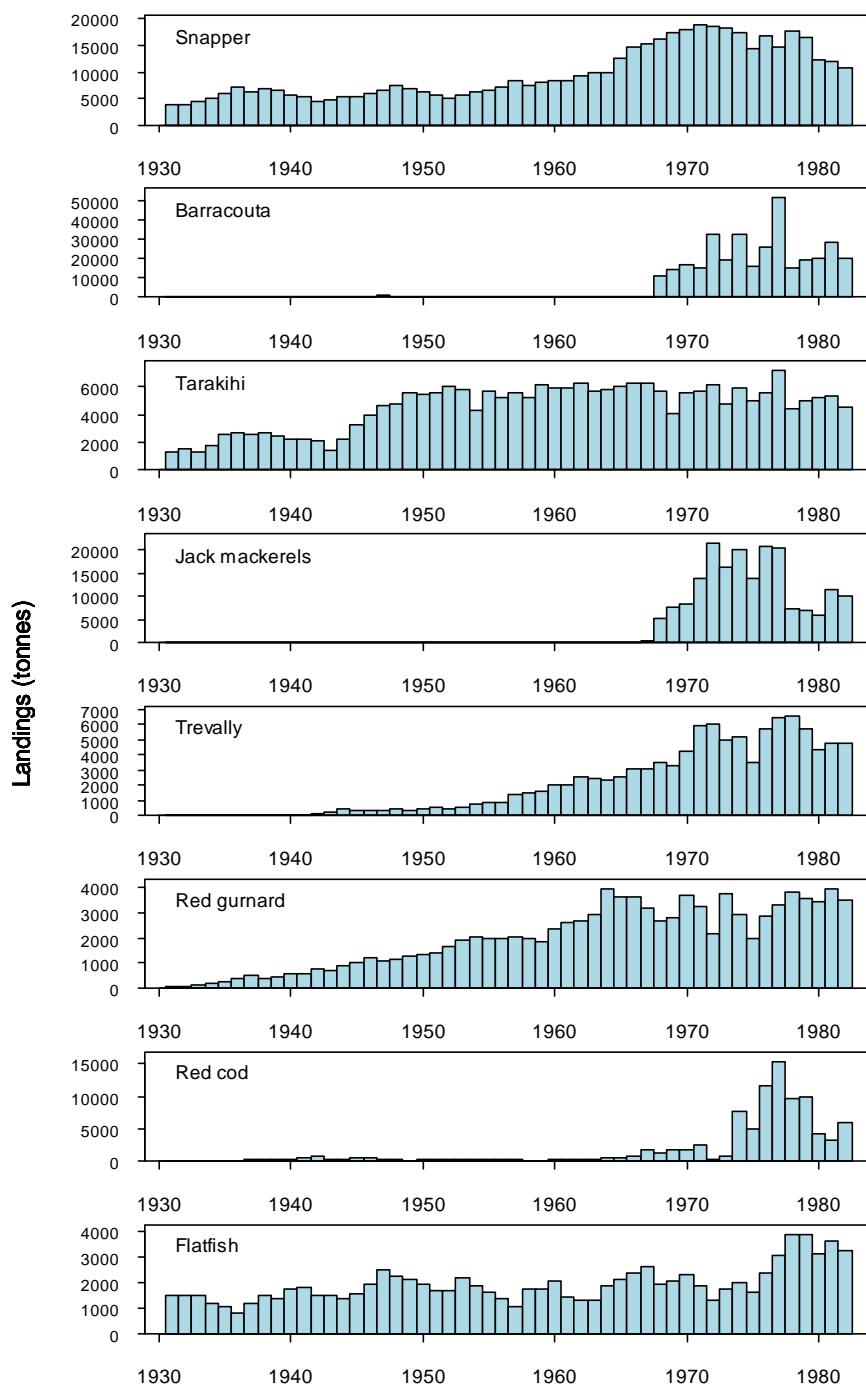


Figure 7: Annual landings of the top eight inshore finfish species arranged in descending order of total (1931–82) landings.

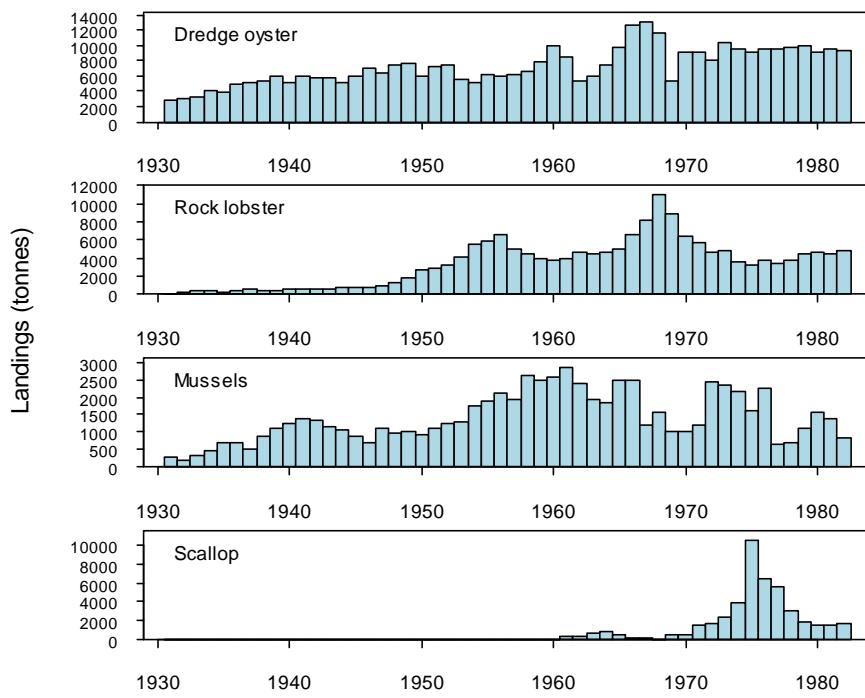


Figure 8: Annual landings of the top four inshore shellfish species arranged in descending order of total (1931–82) landings.

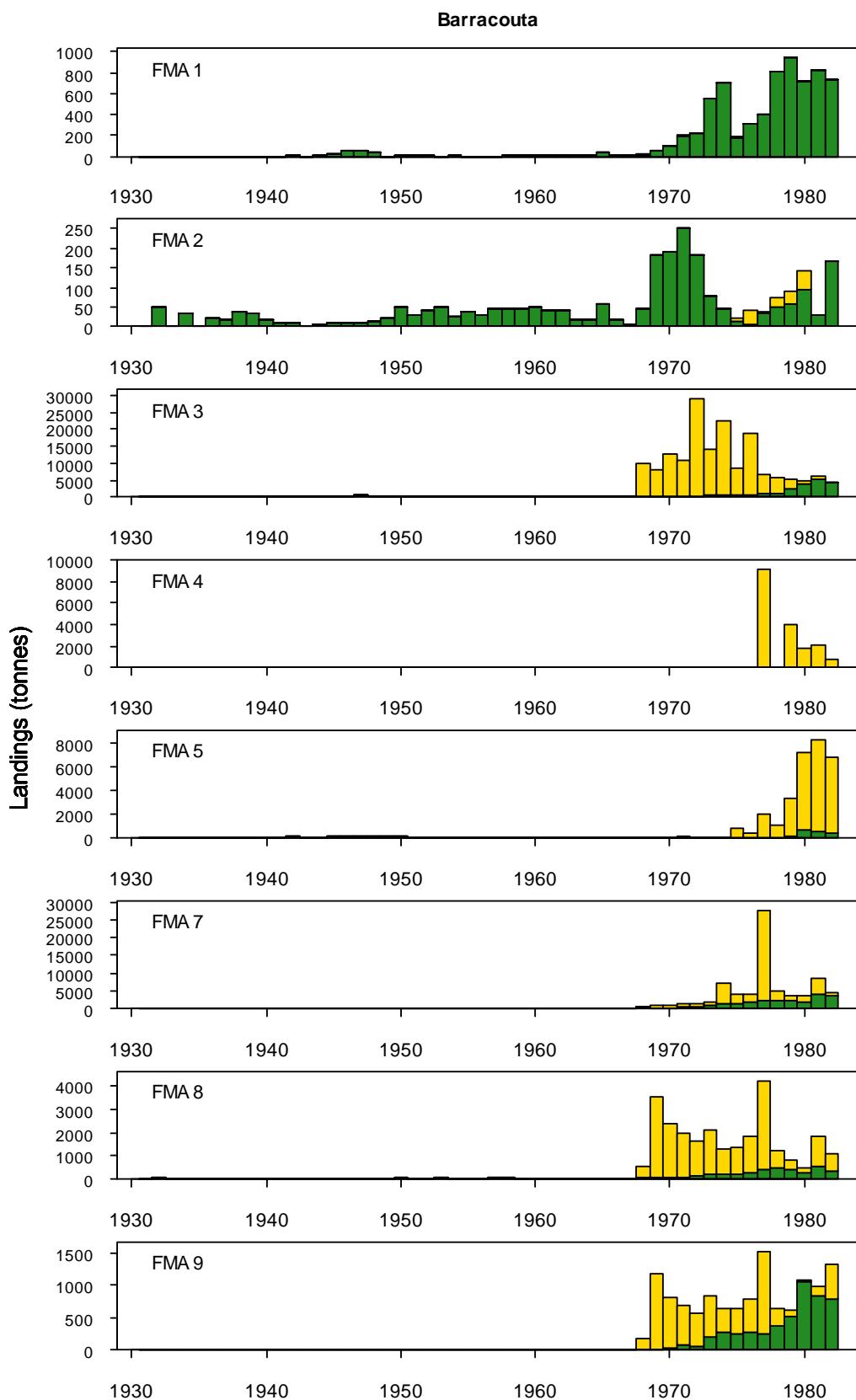


Figure 9: Landings history for inshore finfish species by Fisheries Management Area, 1931 to 1982.
Domestic landings are shown as green bars and foreign landings as yellow bars.

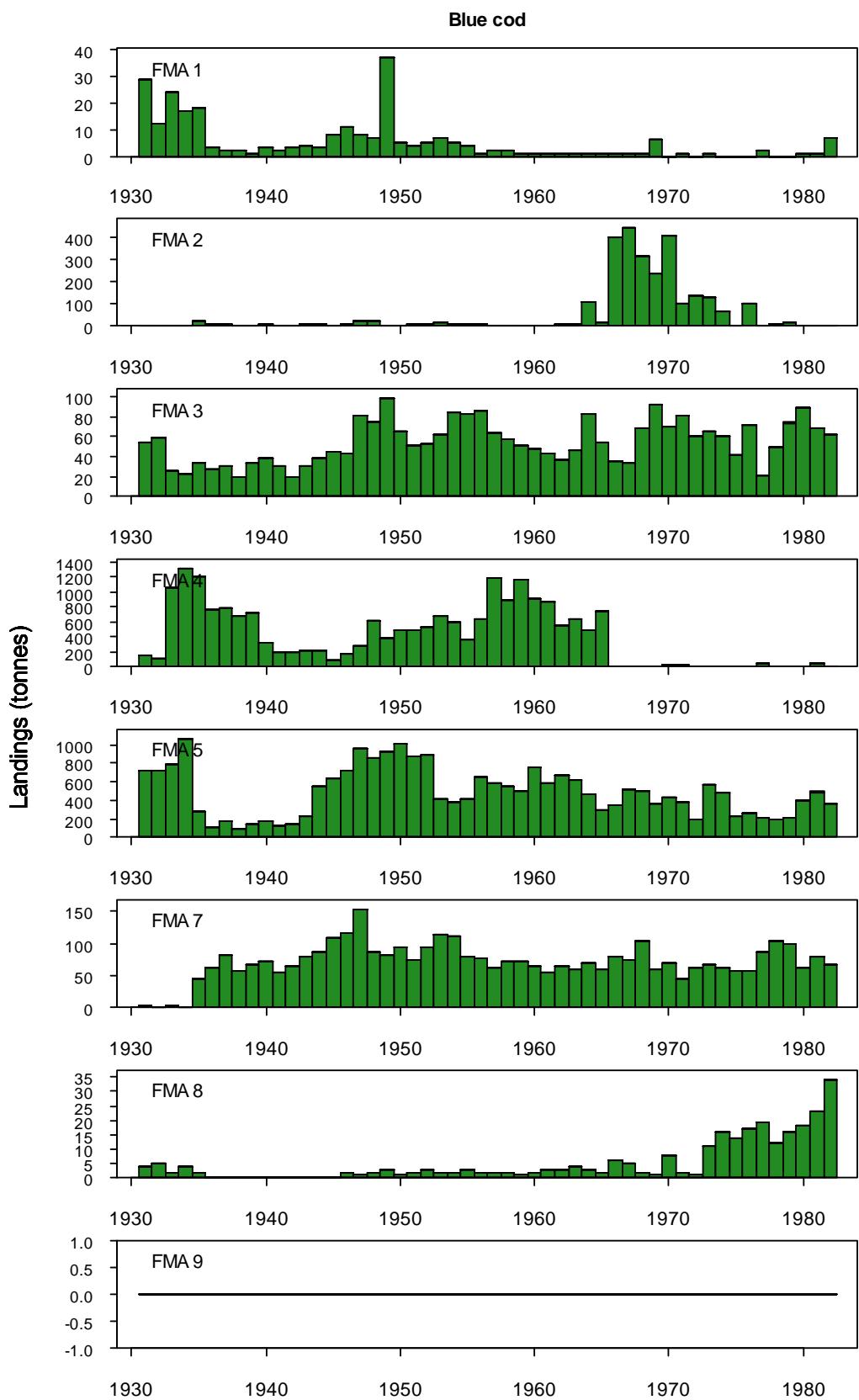


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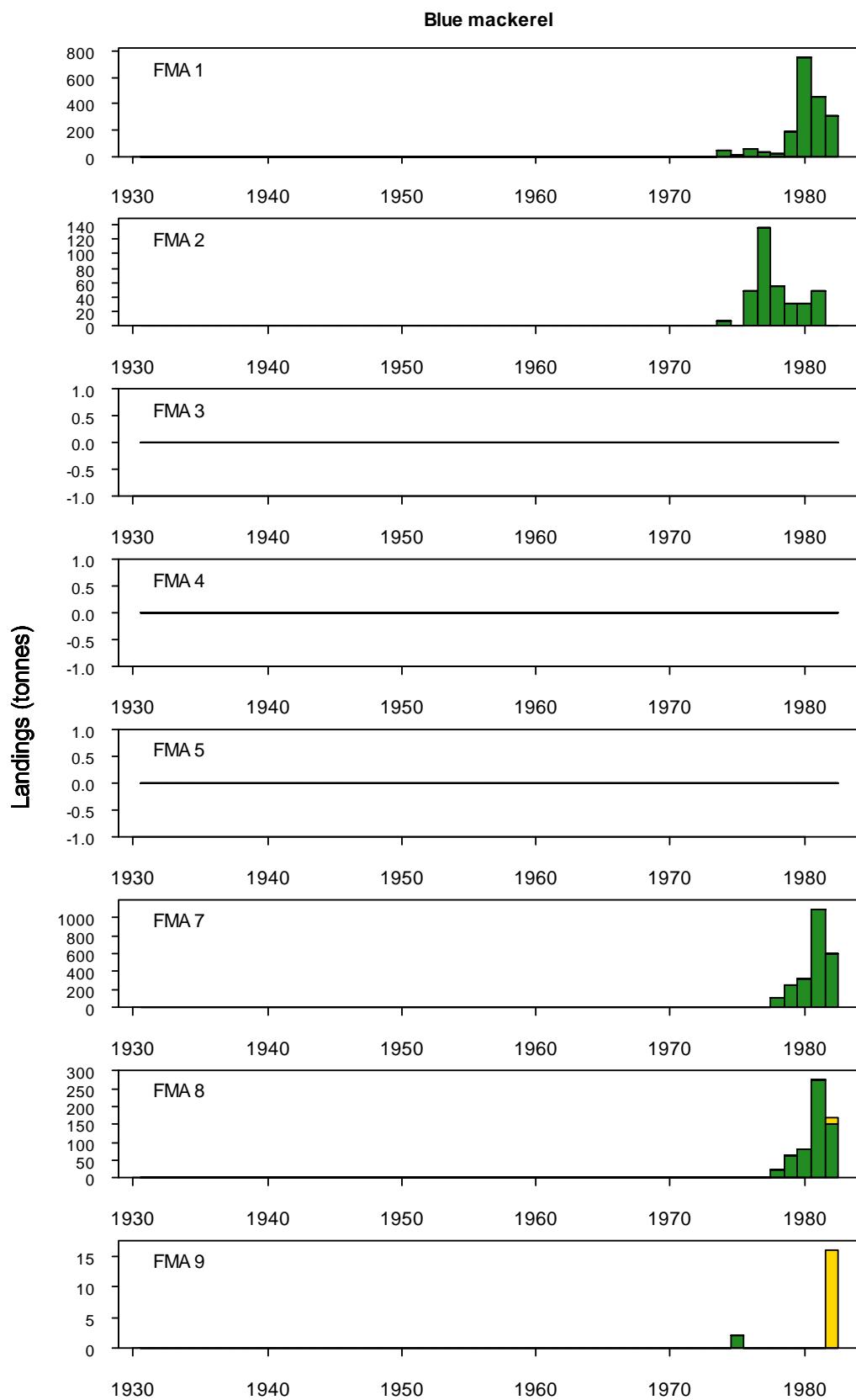


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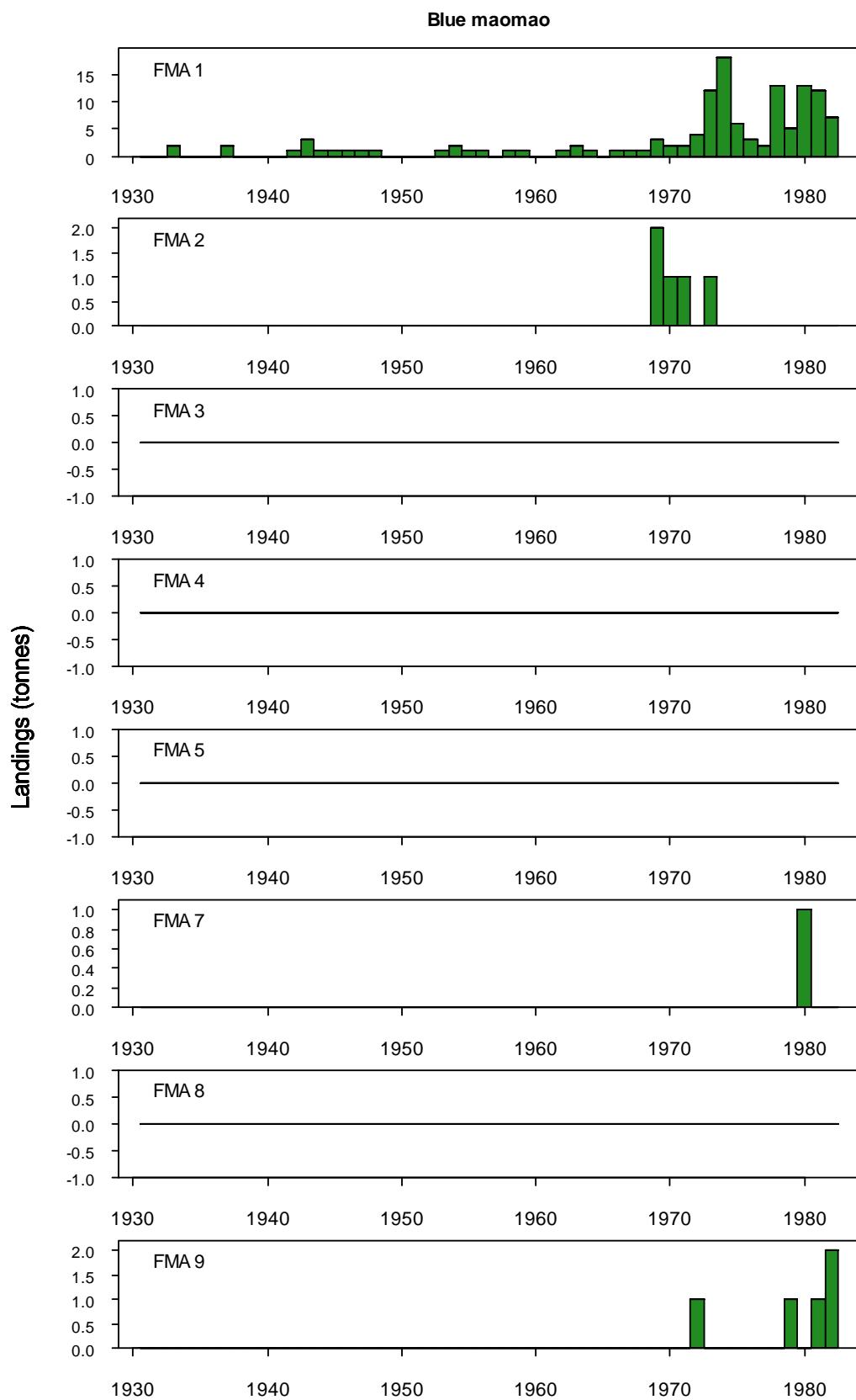


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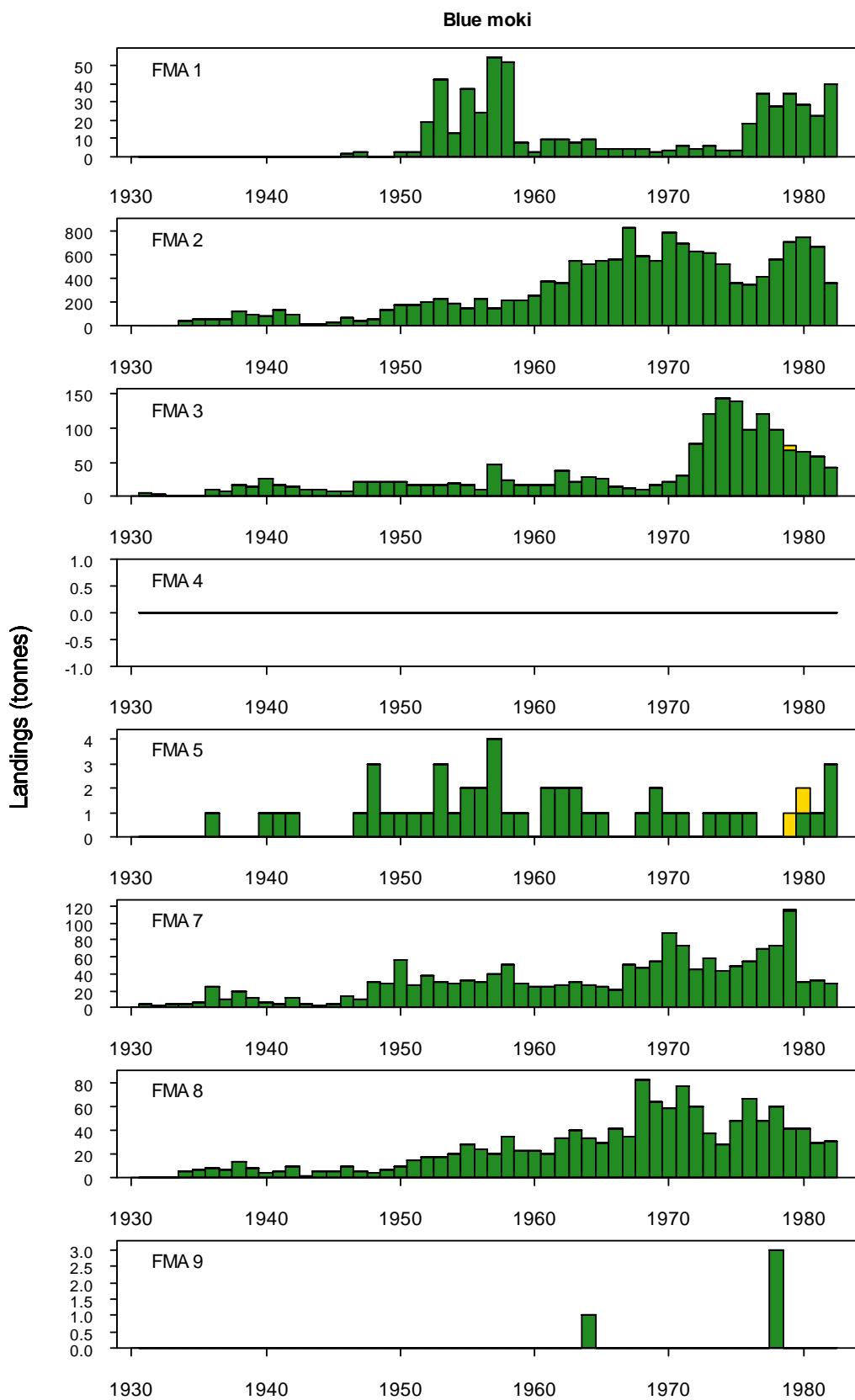


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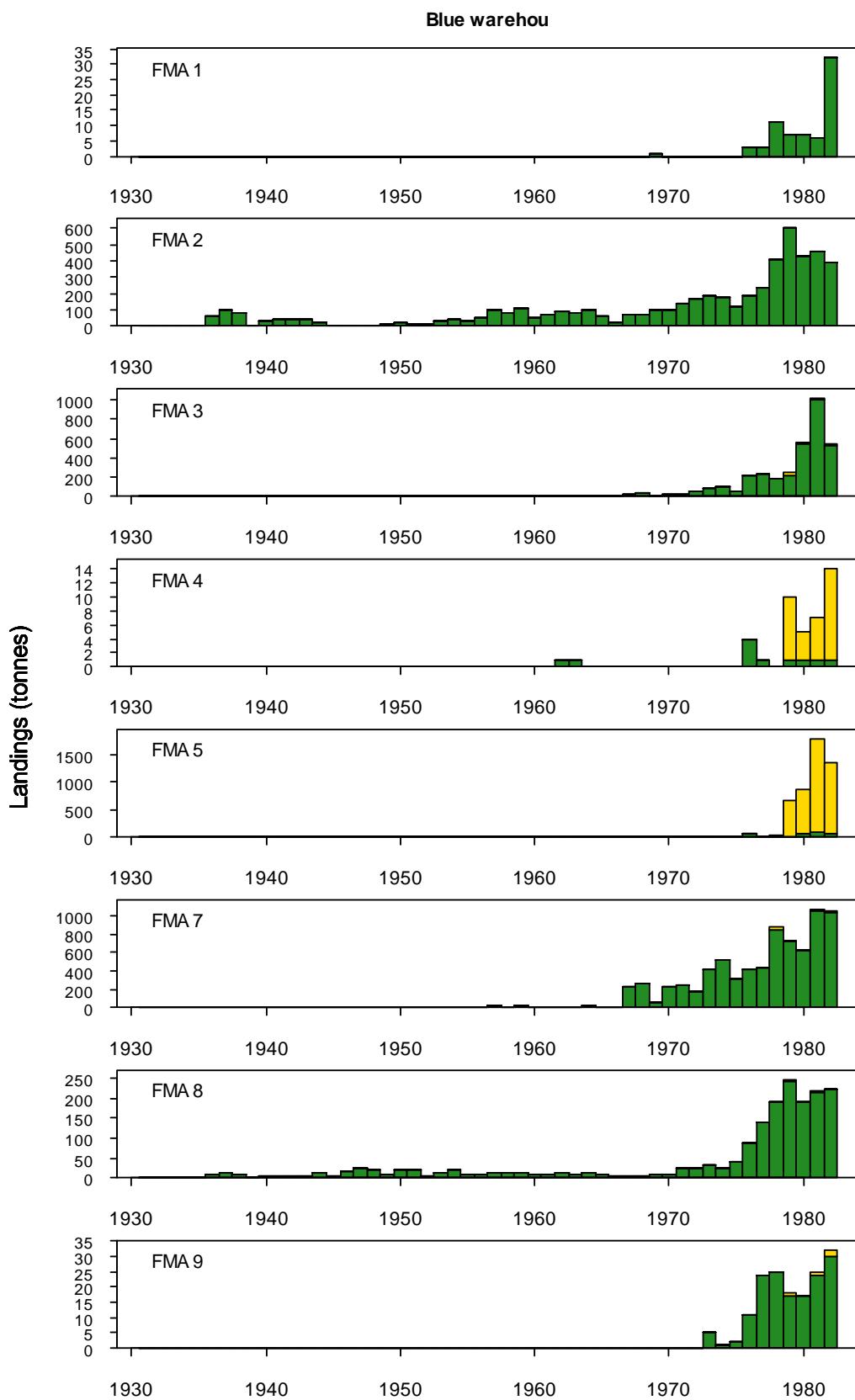


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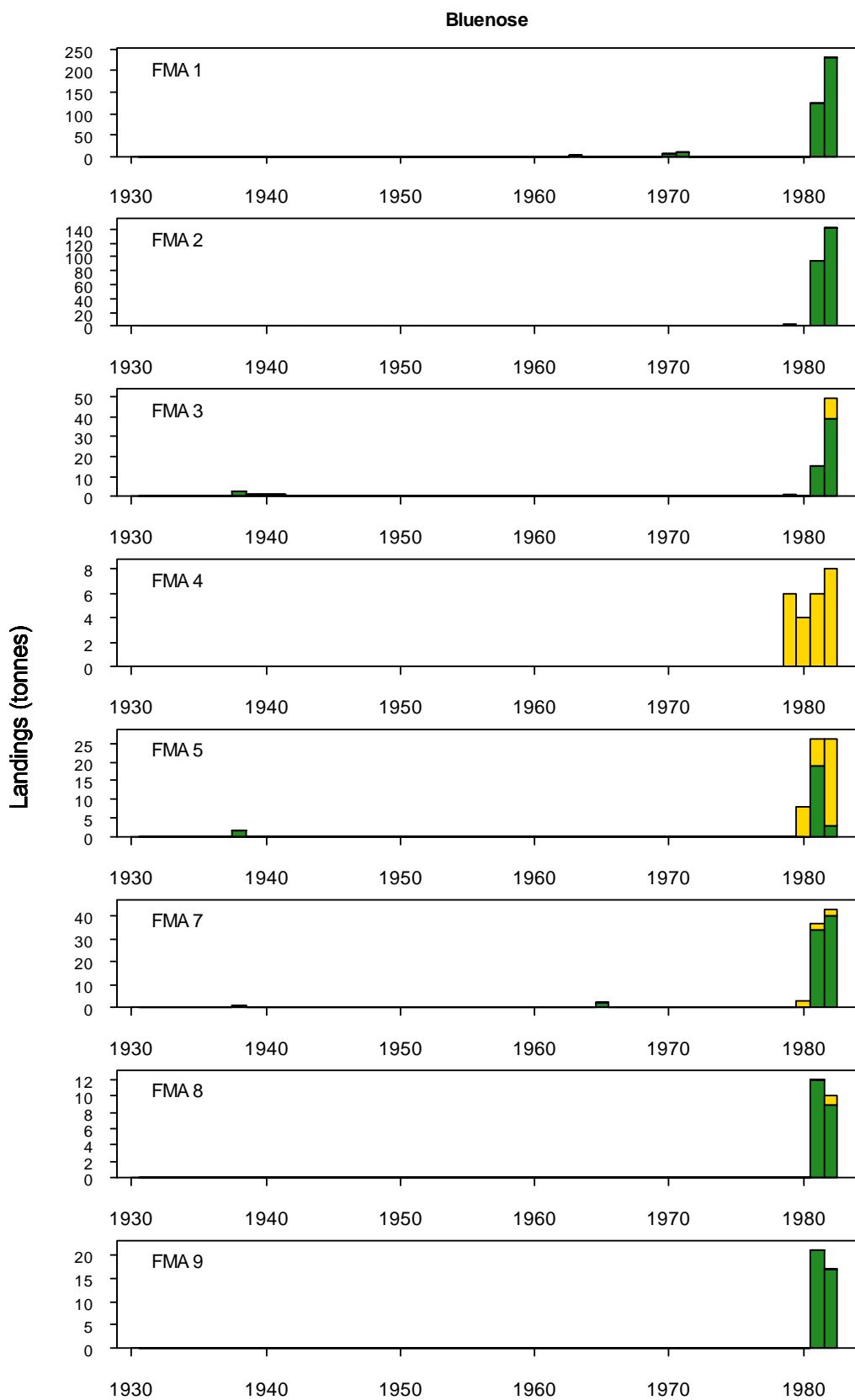


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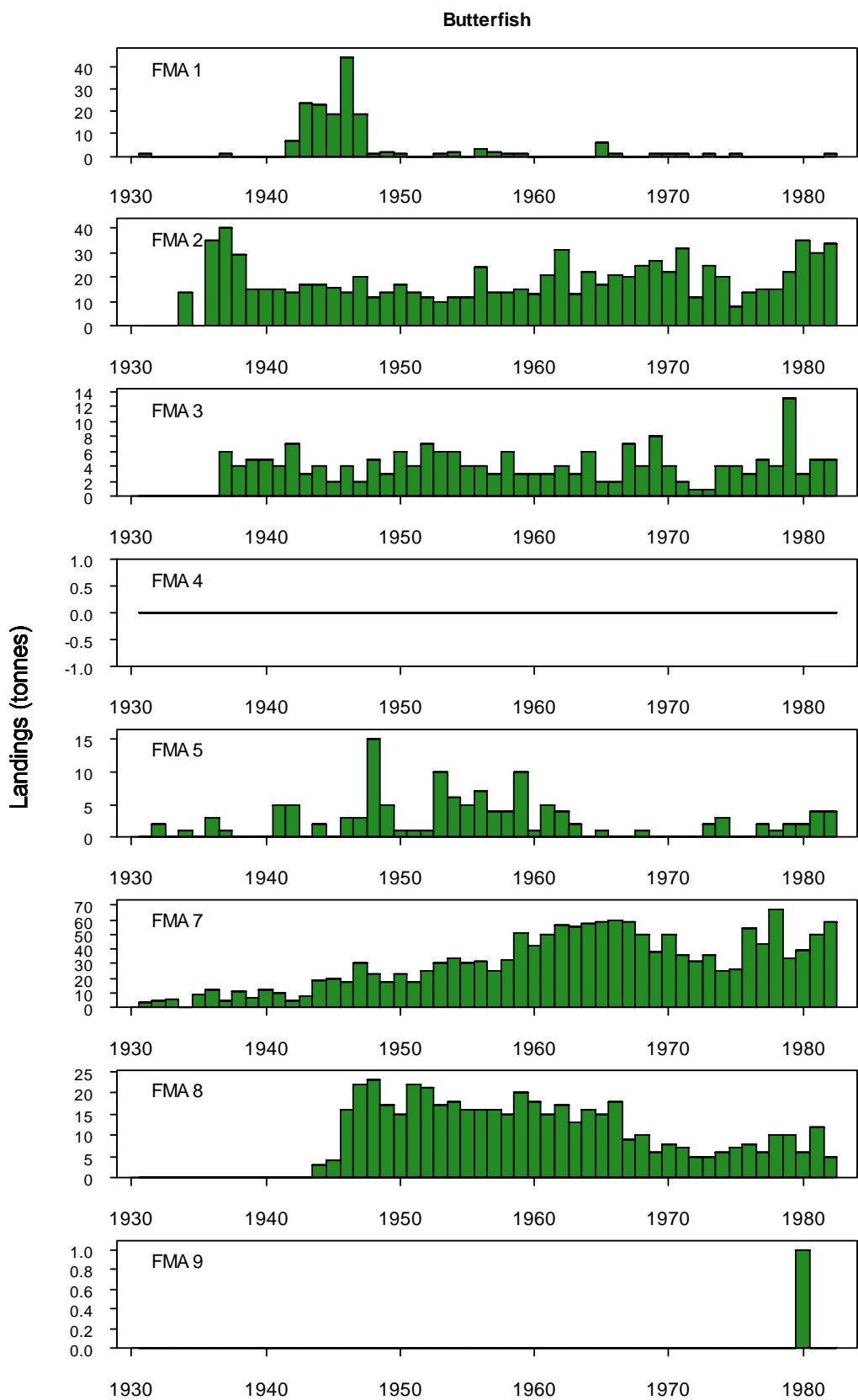


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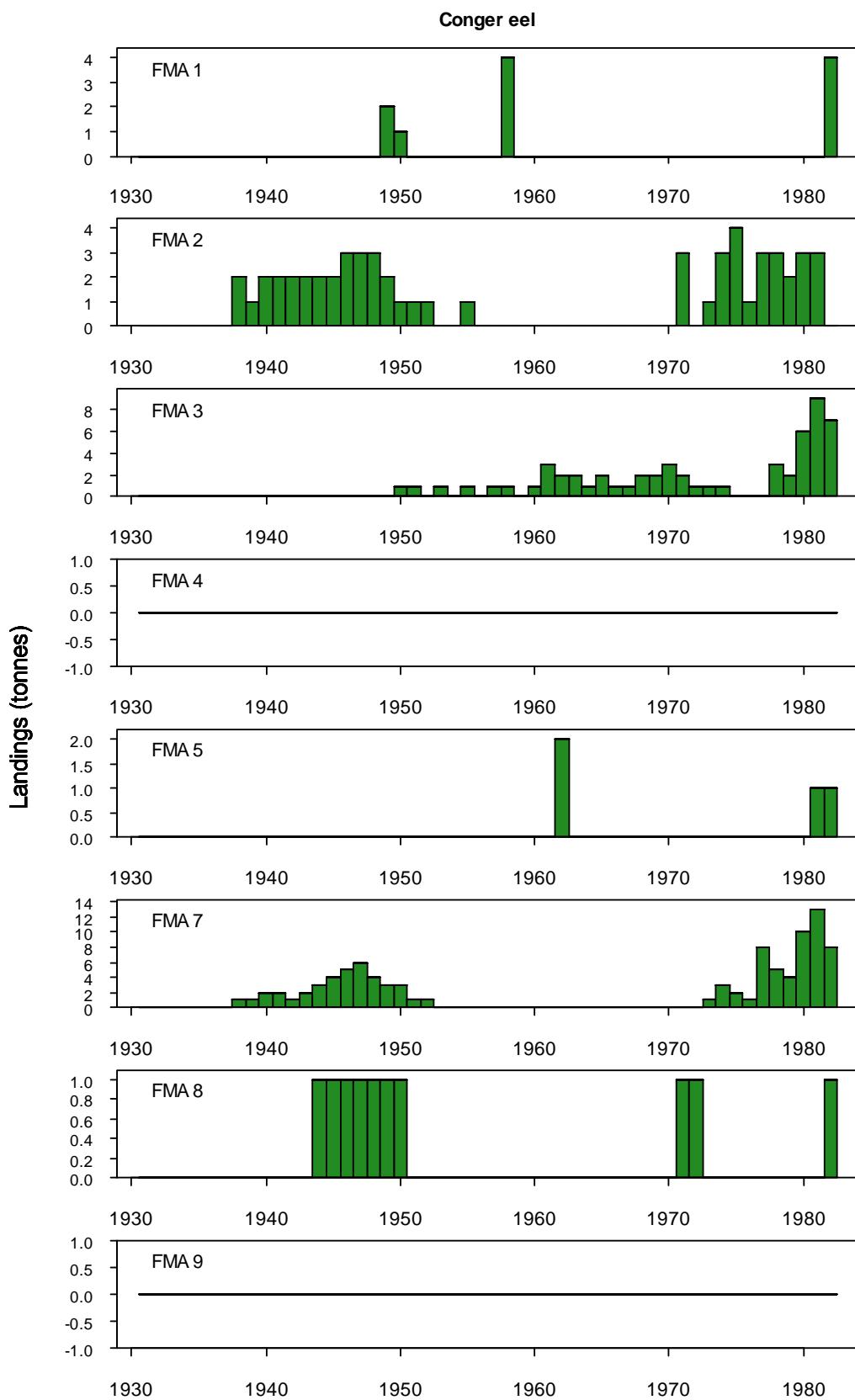


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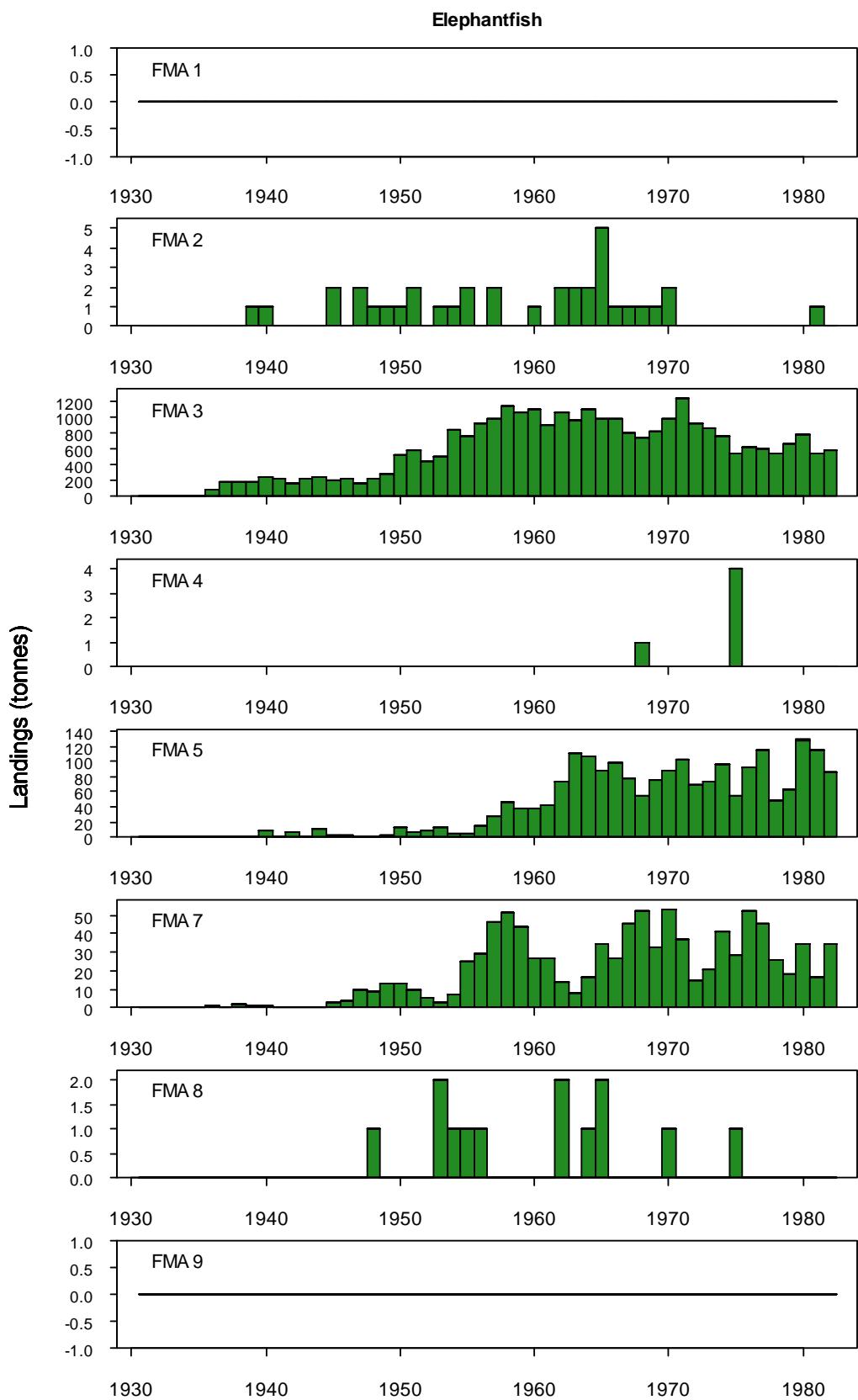


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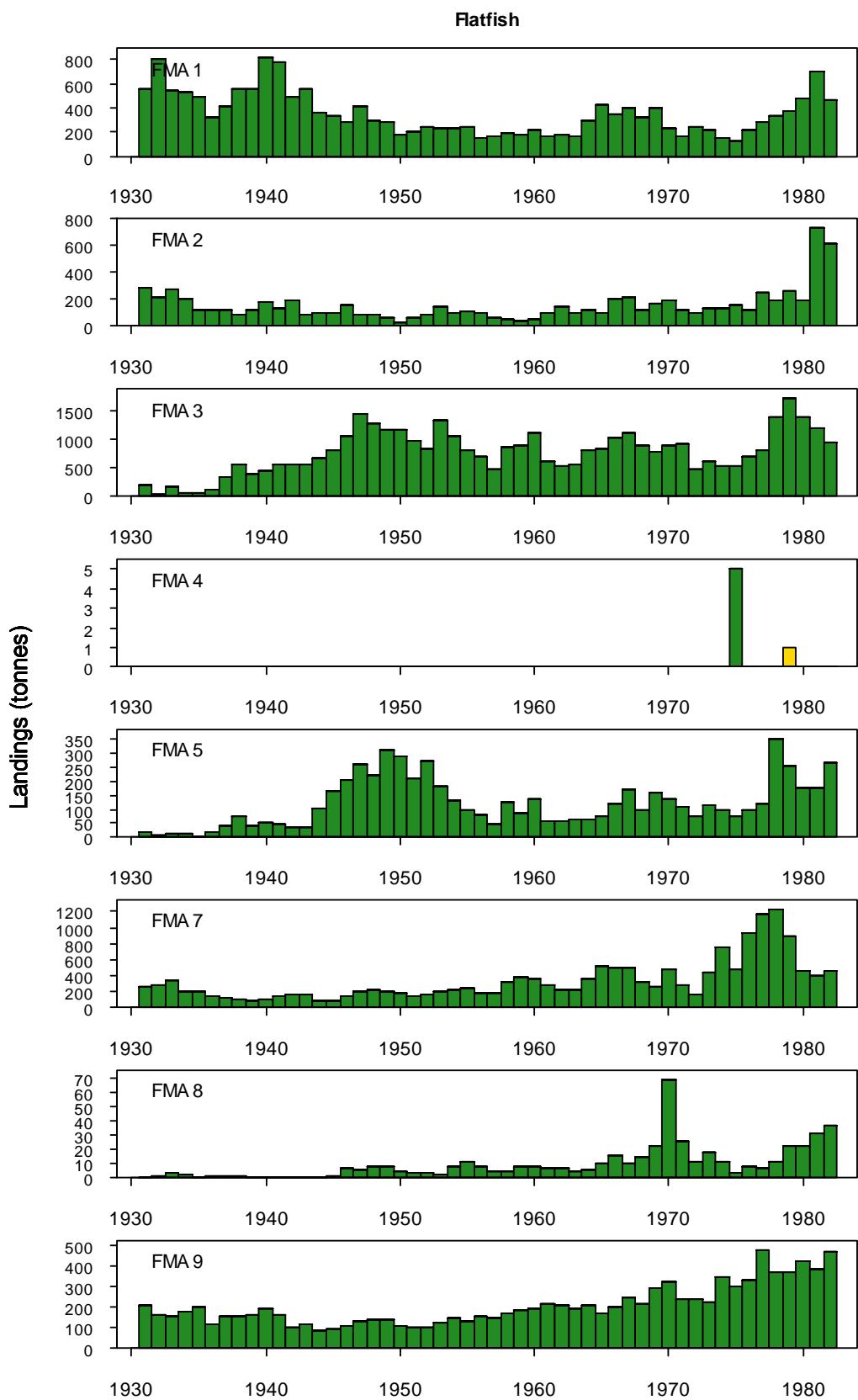


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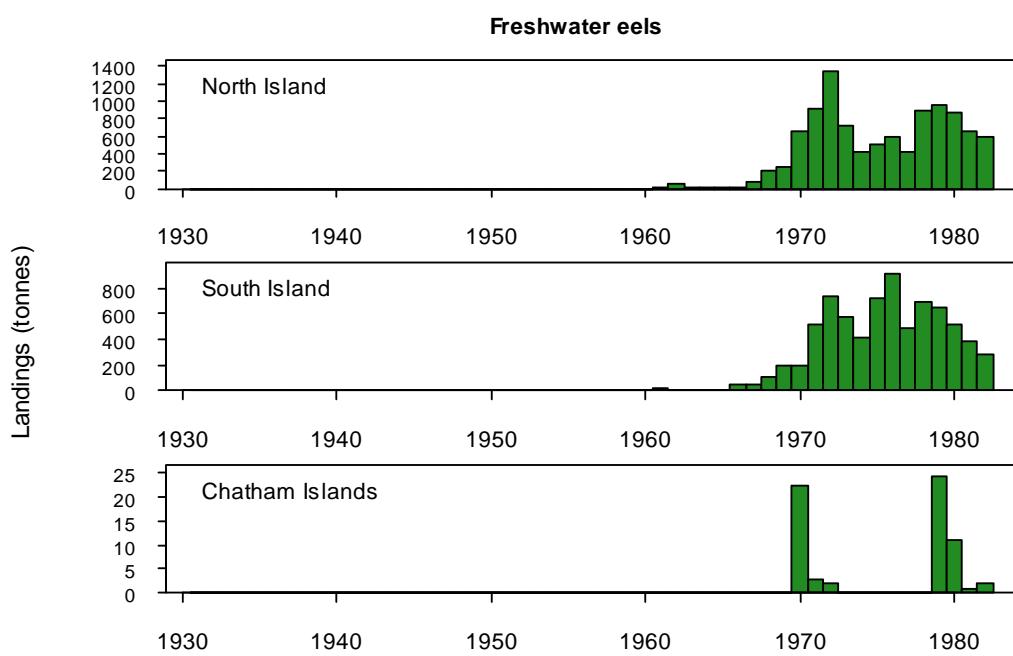


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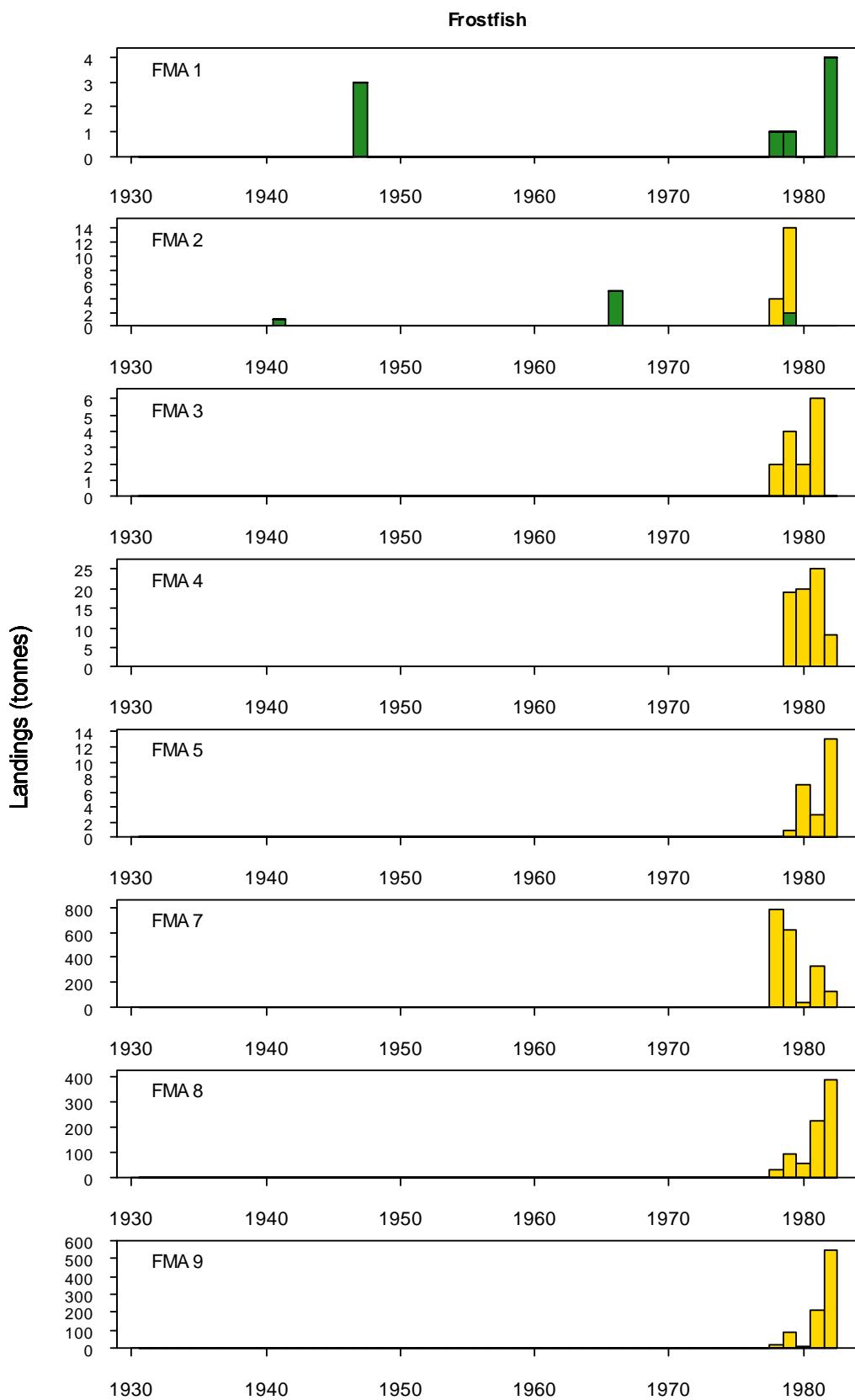


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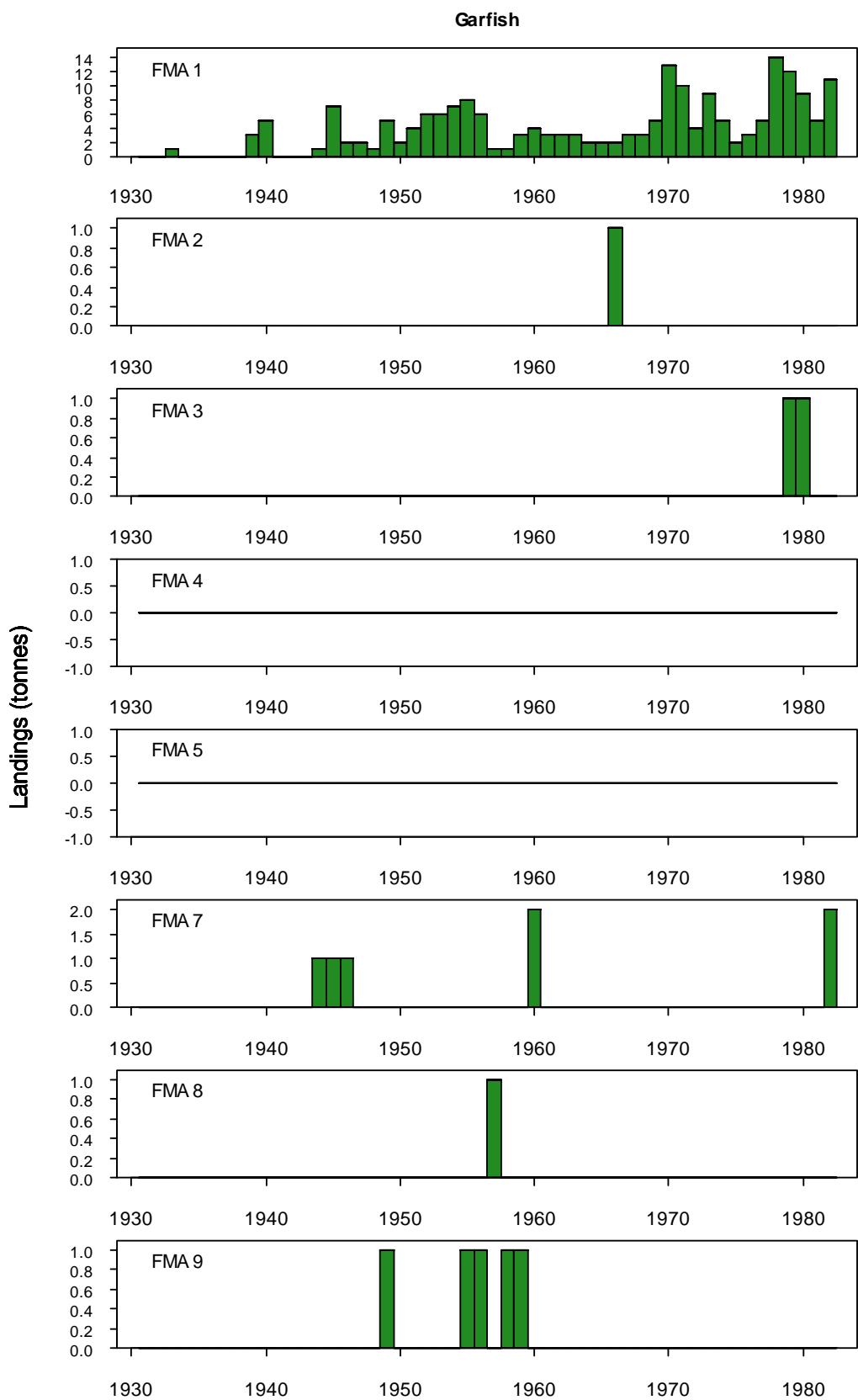


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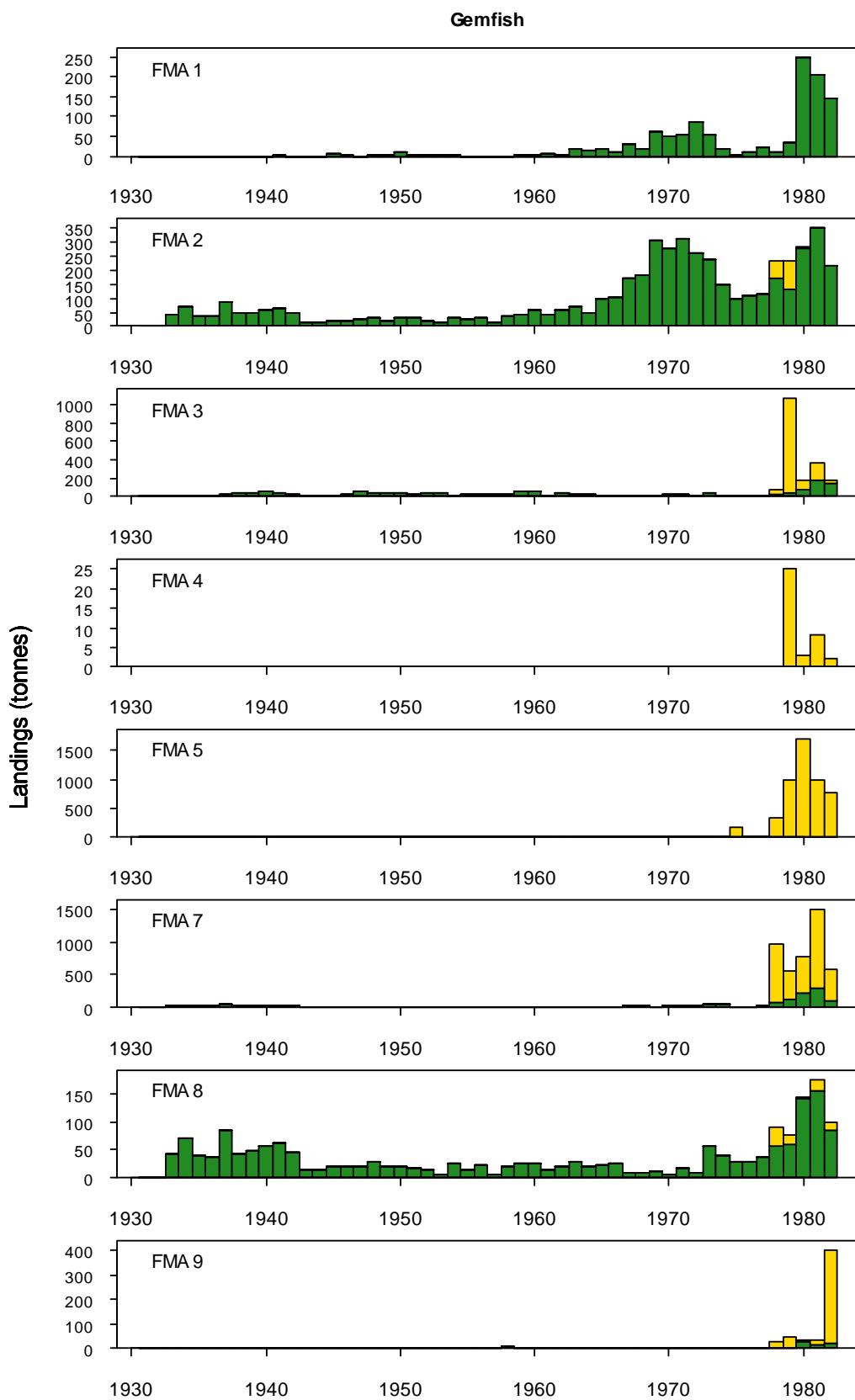


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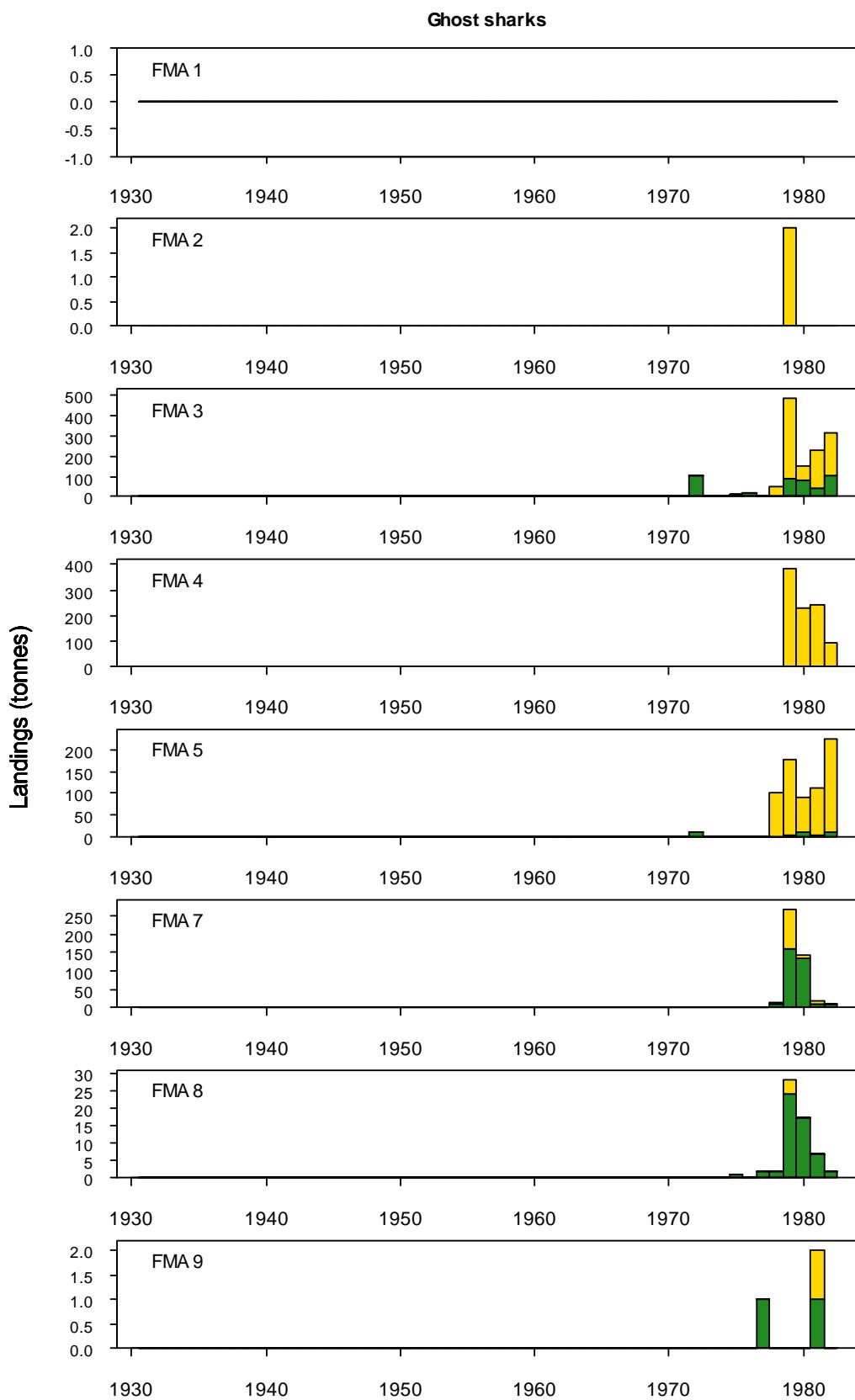


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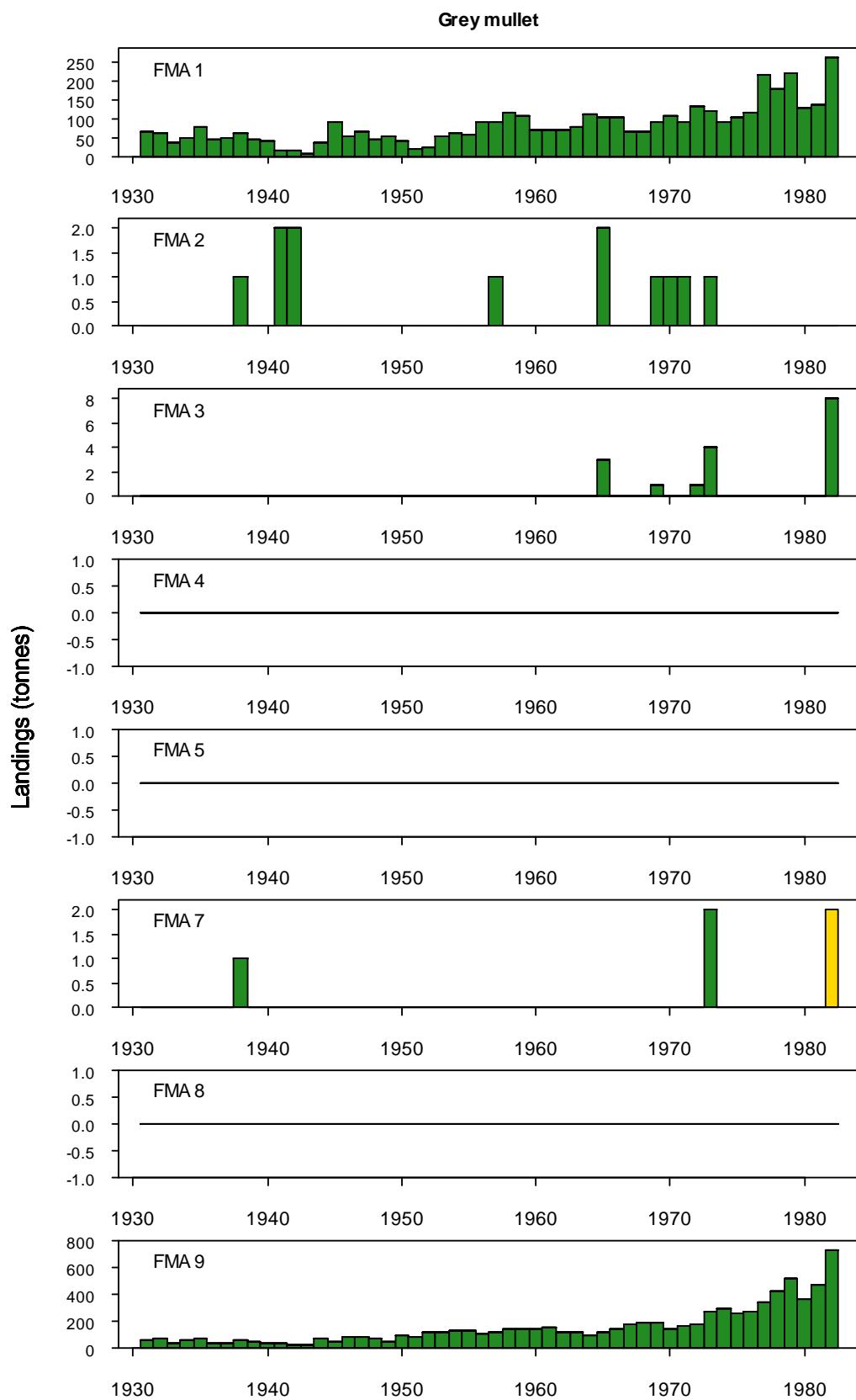


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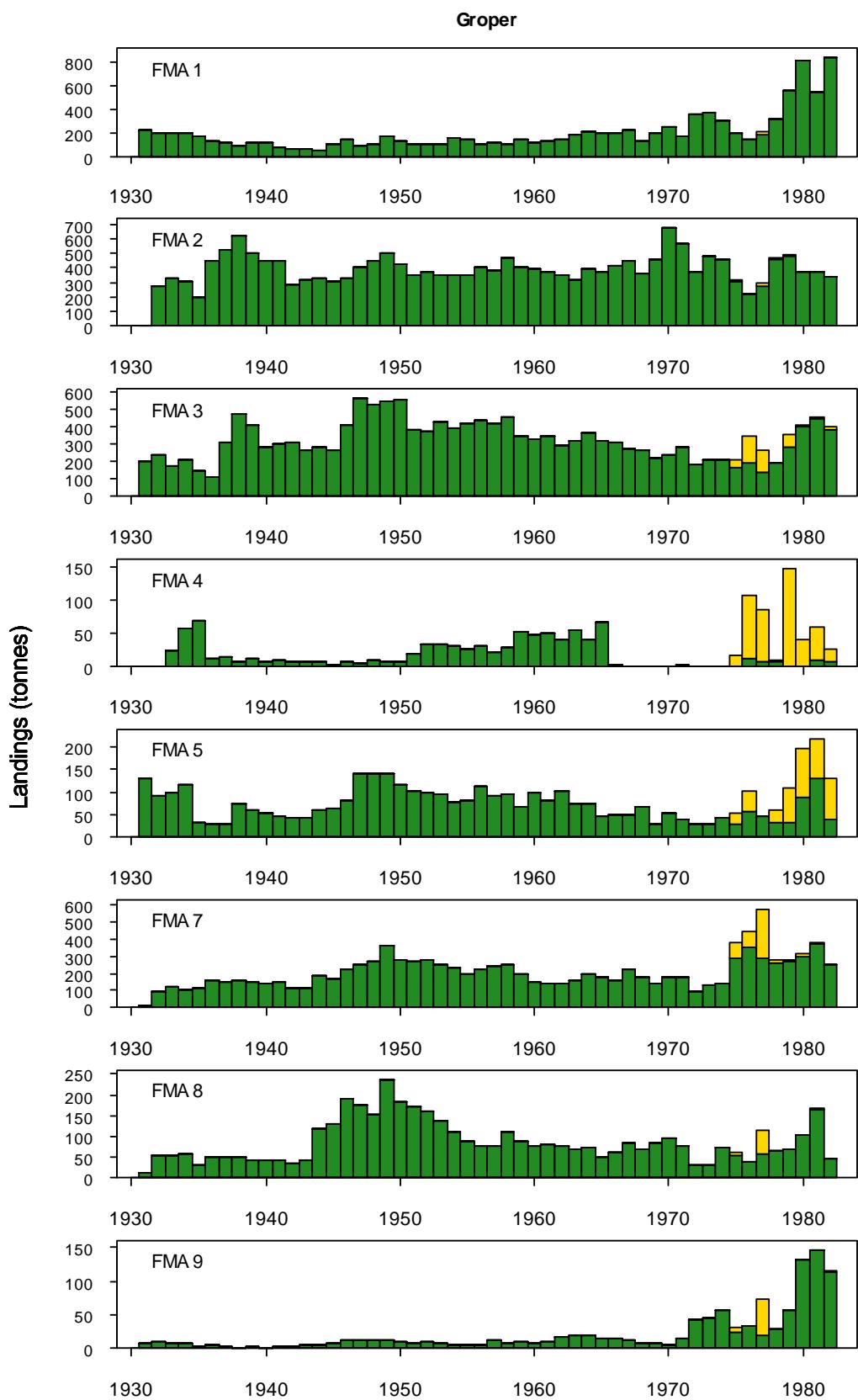


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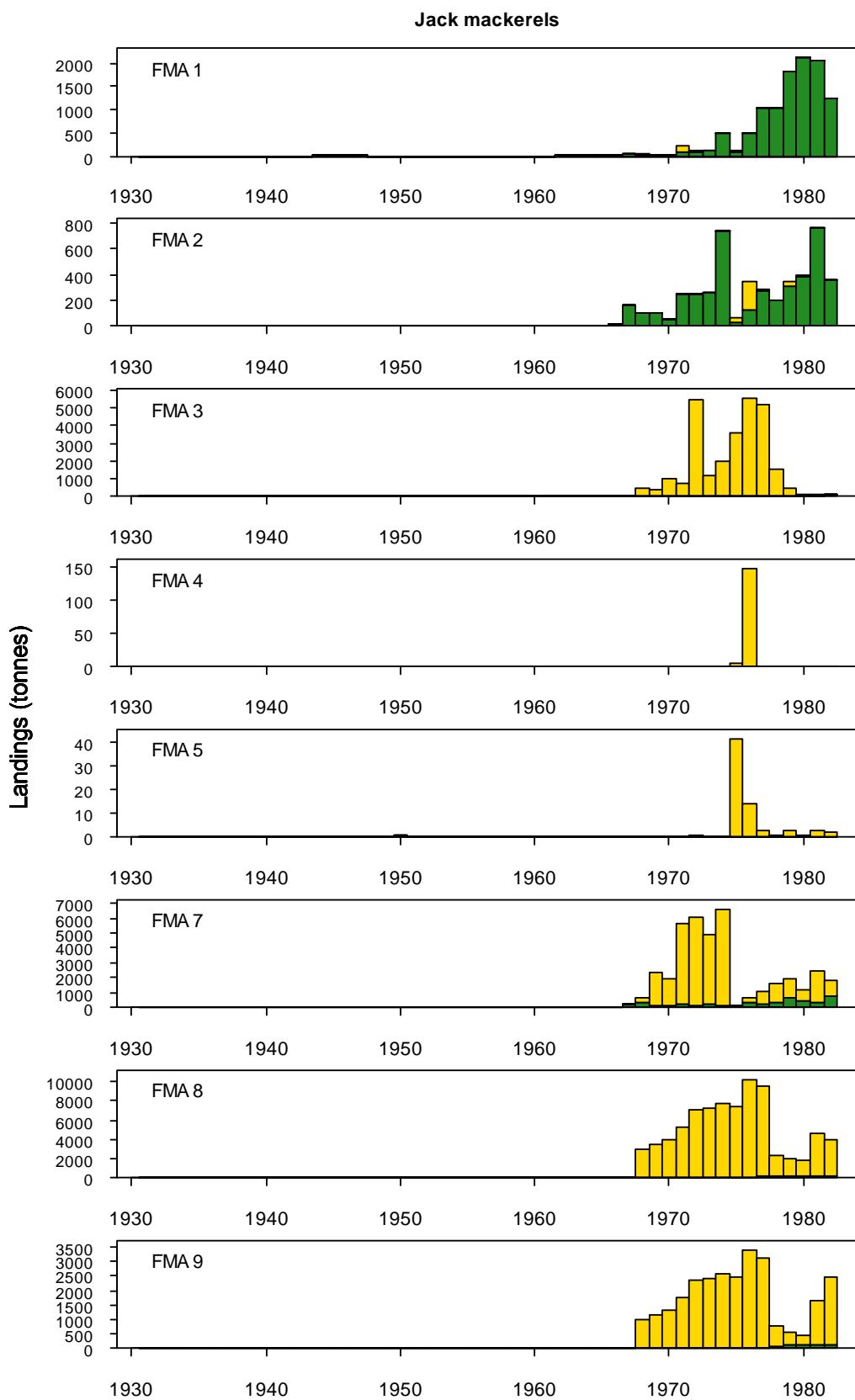


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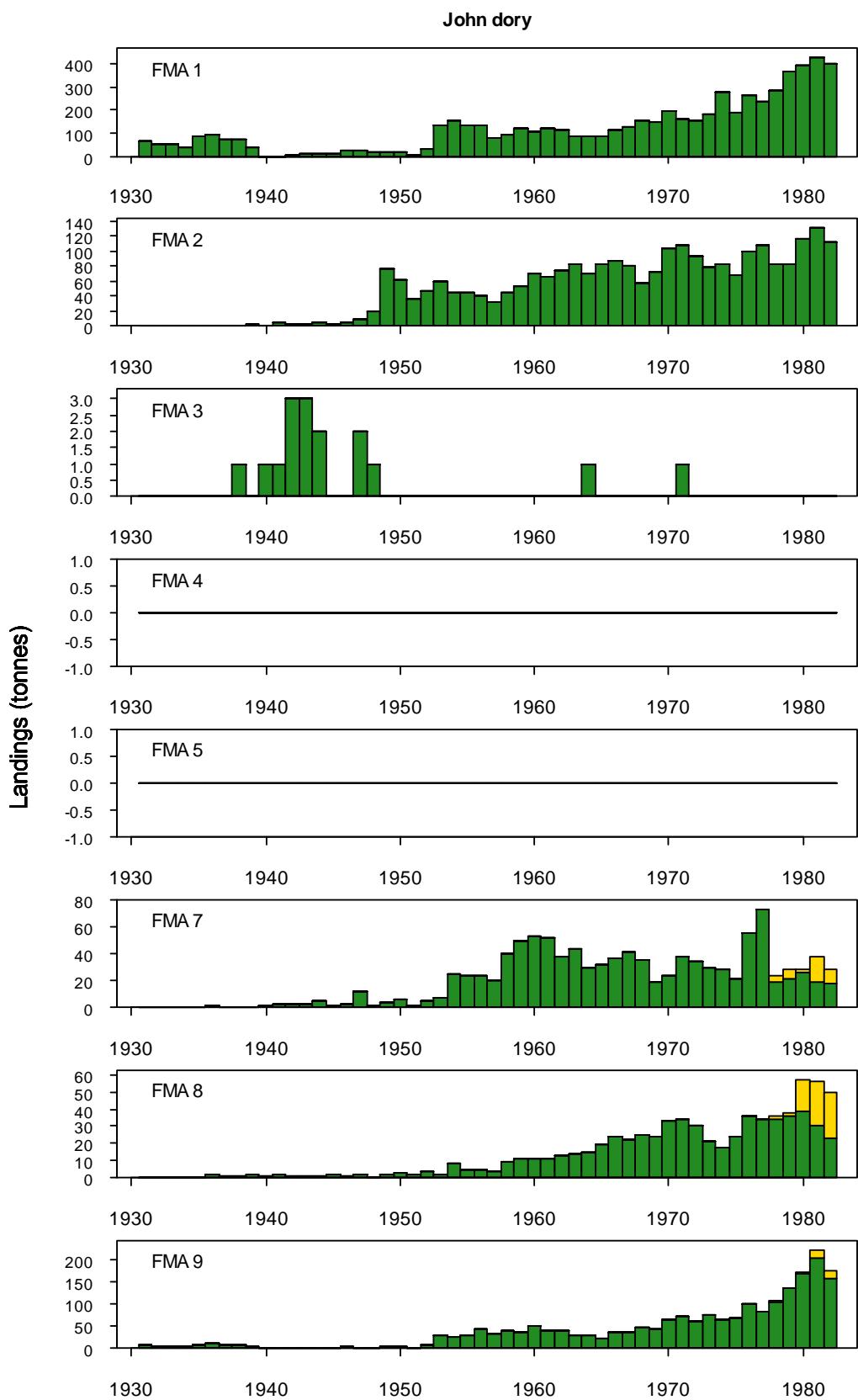


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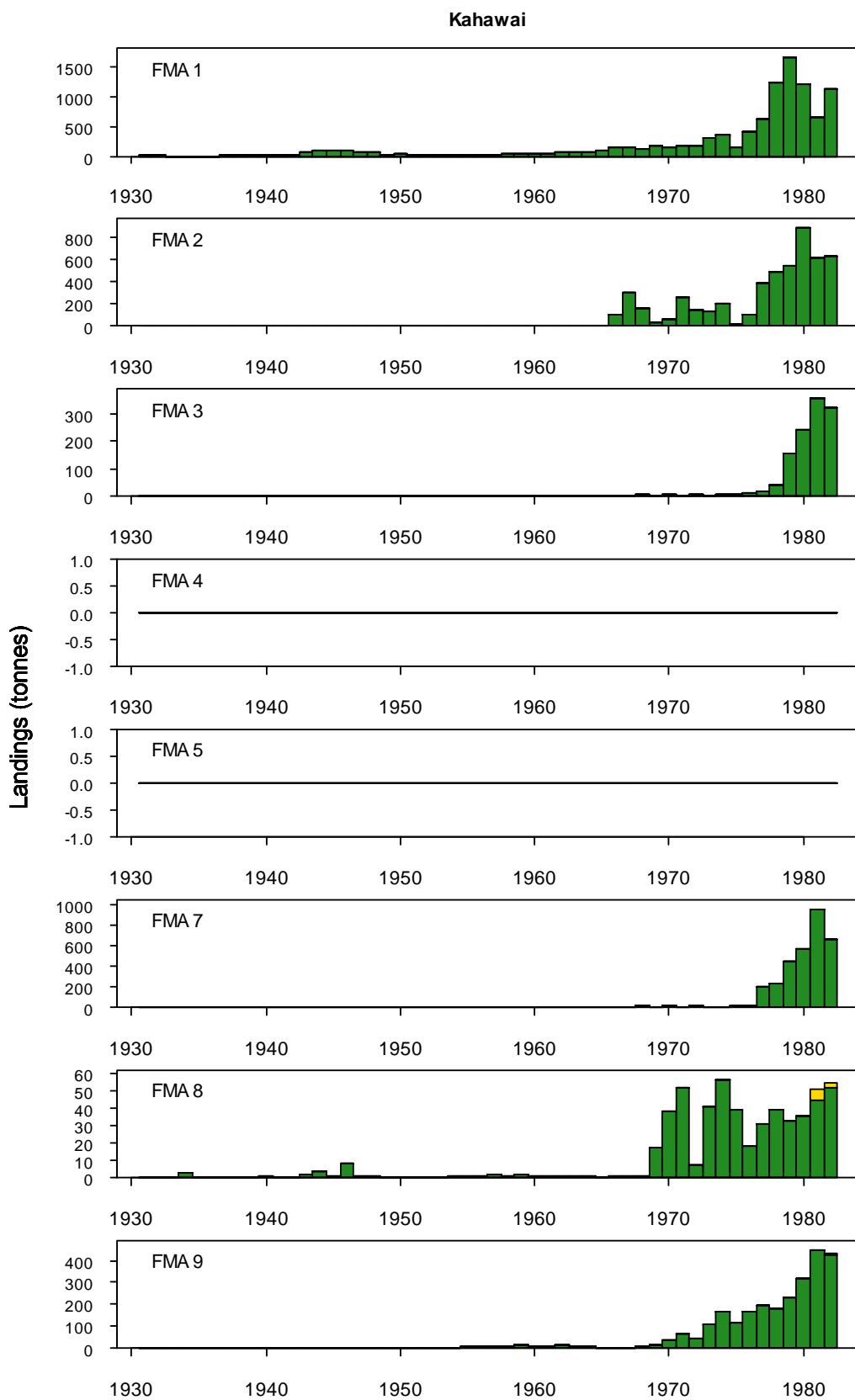


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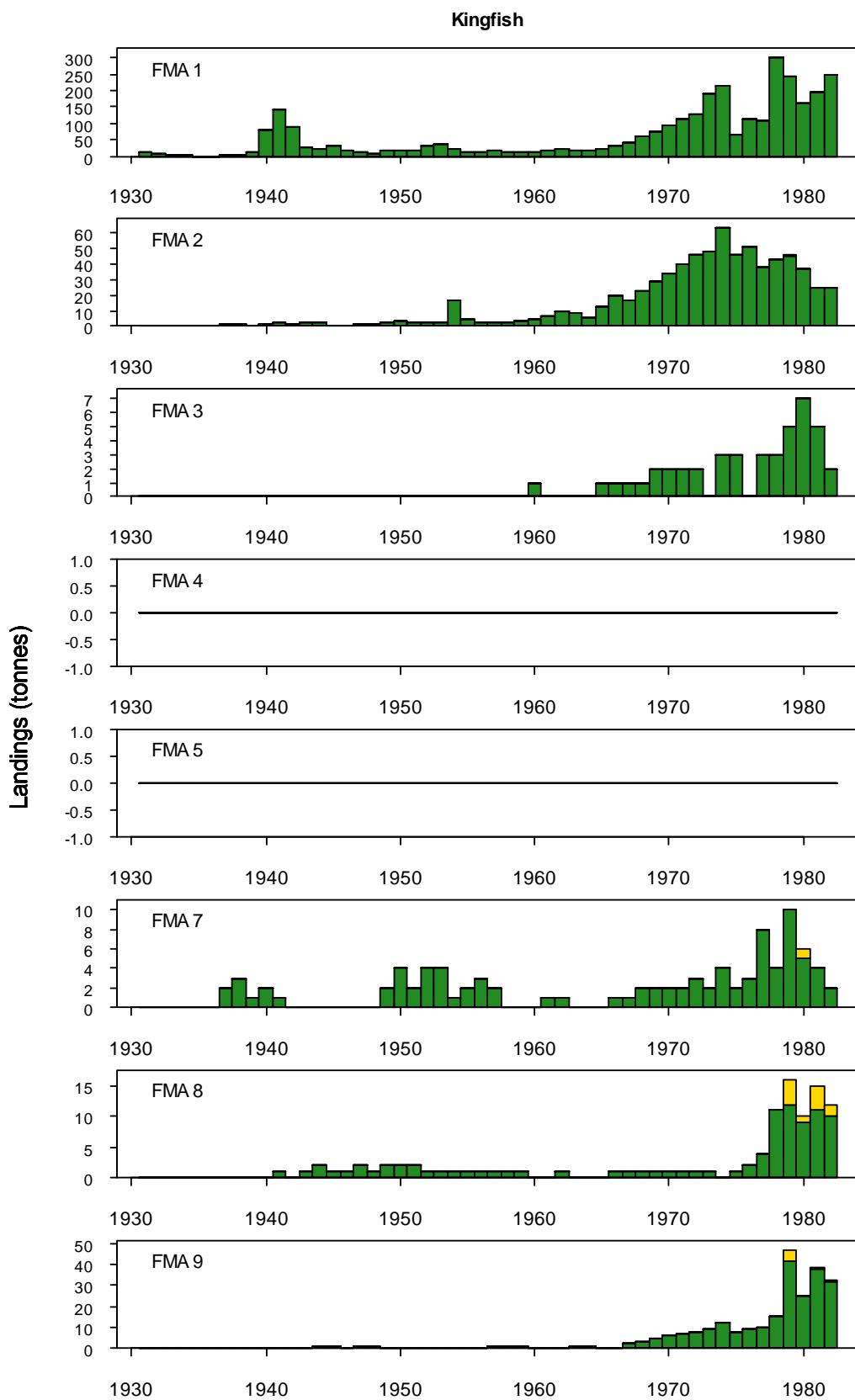


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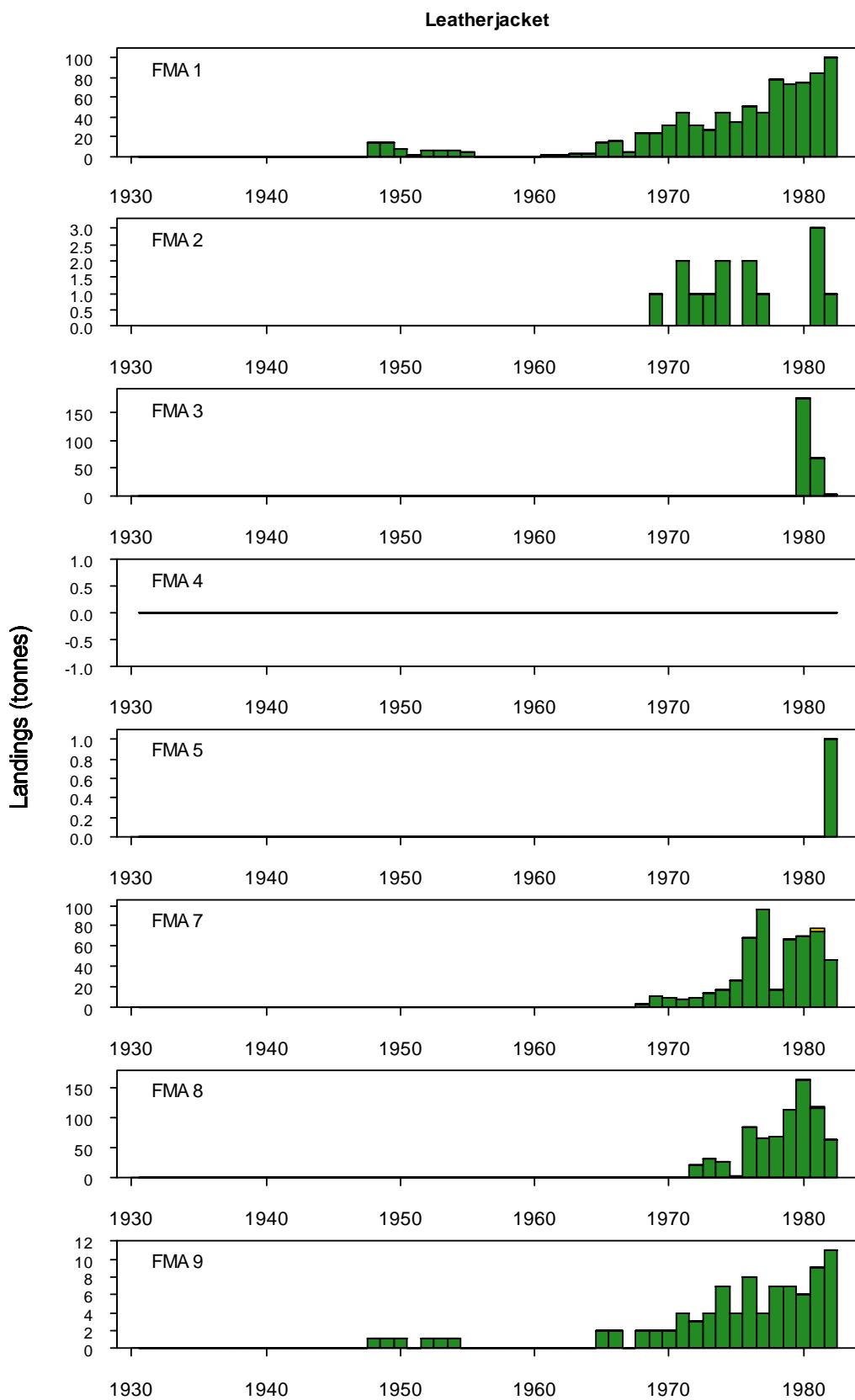


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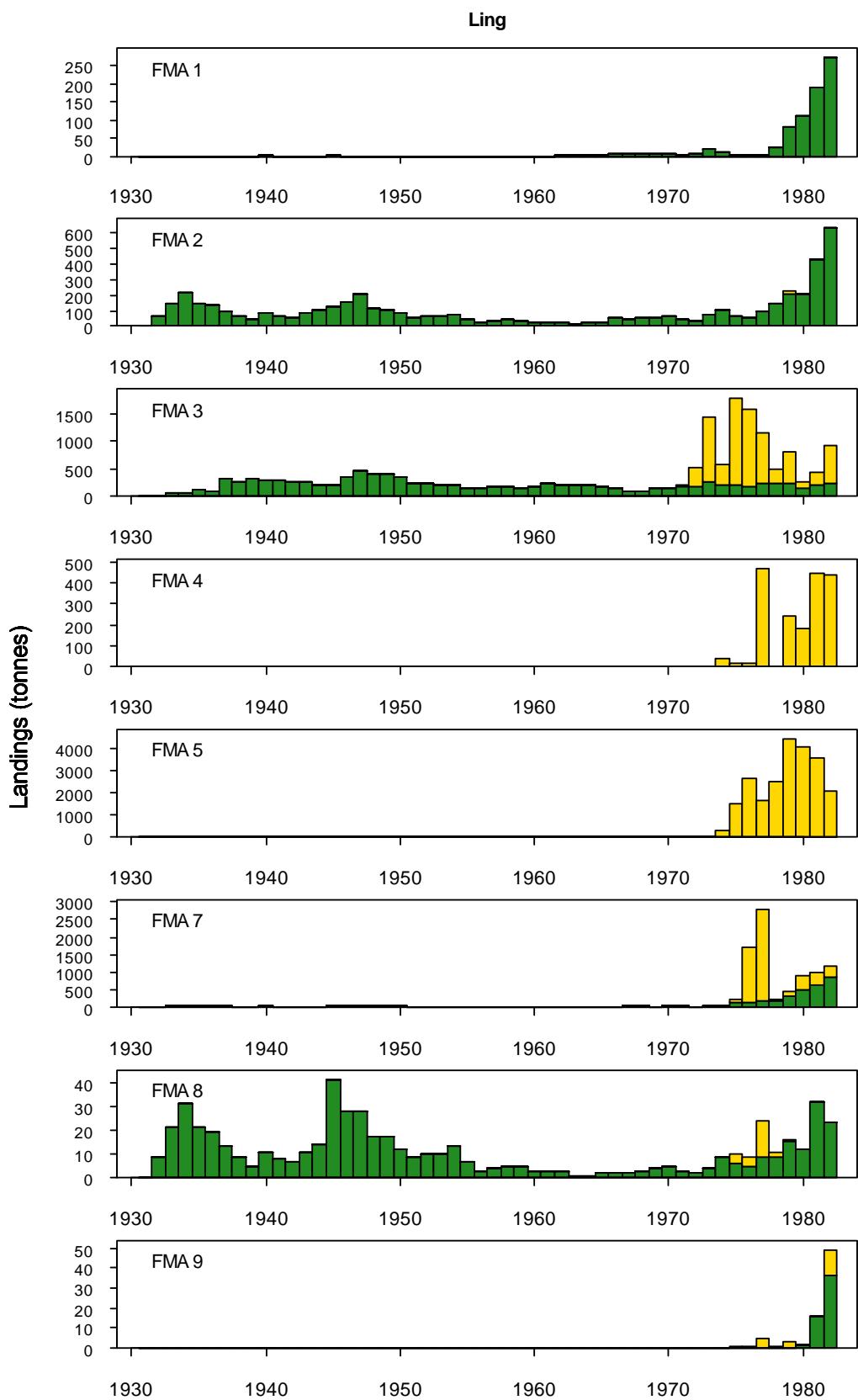


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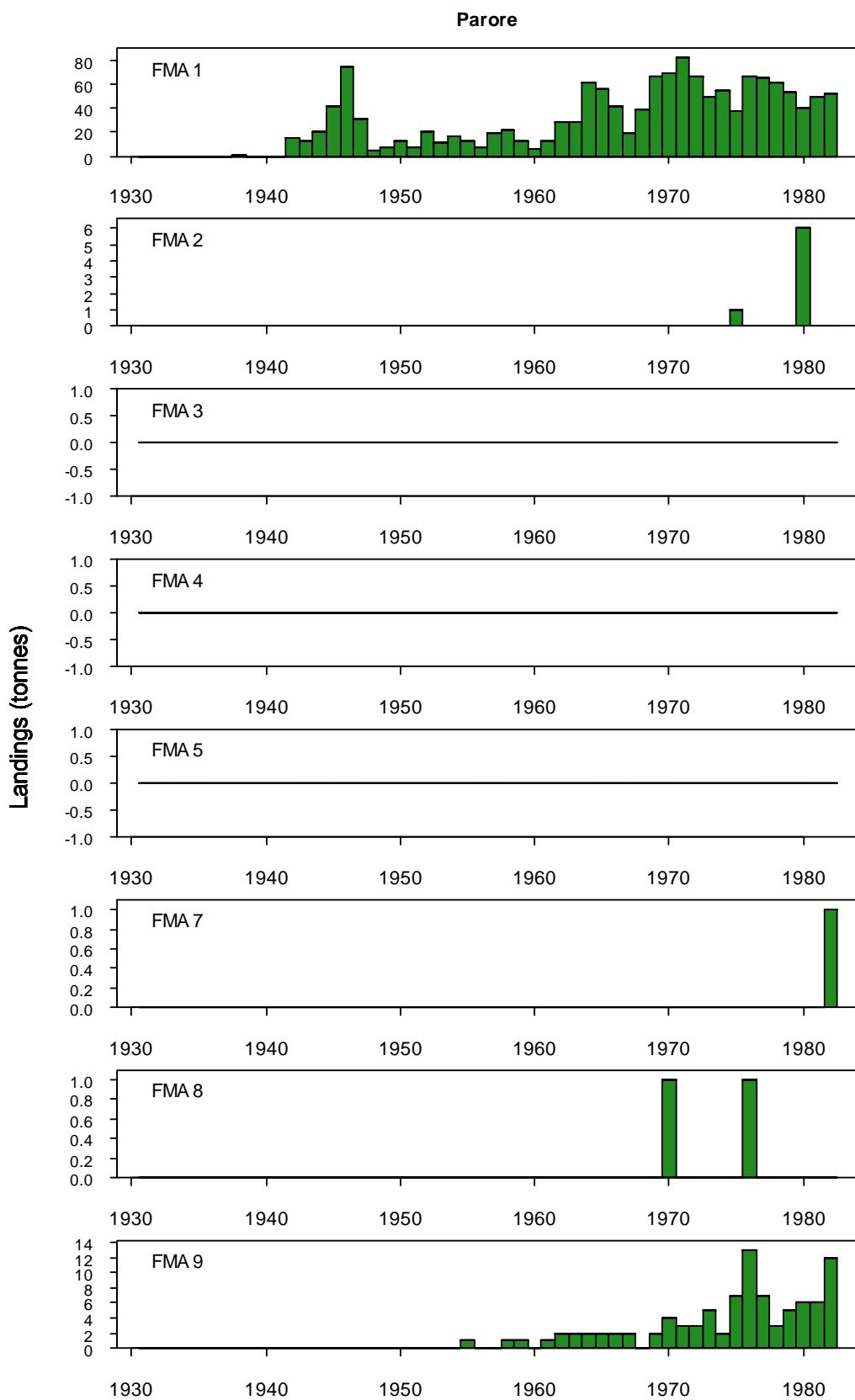


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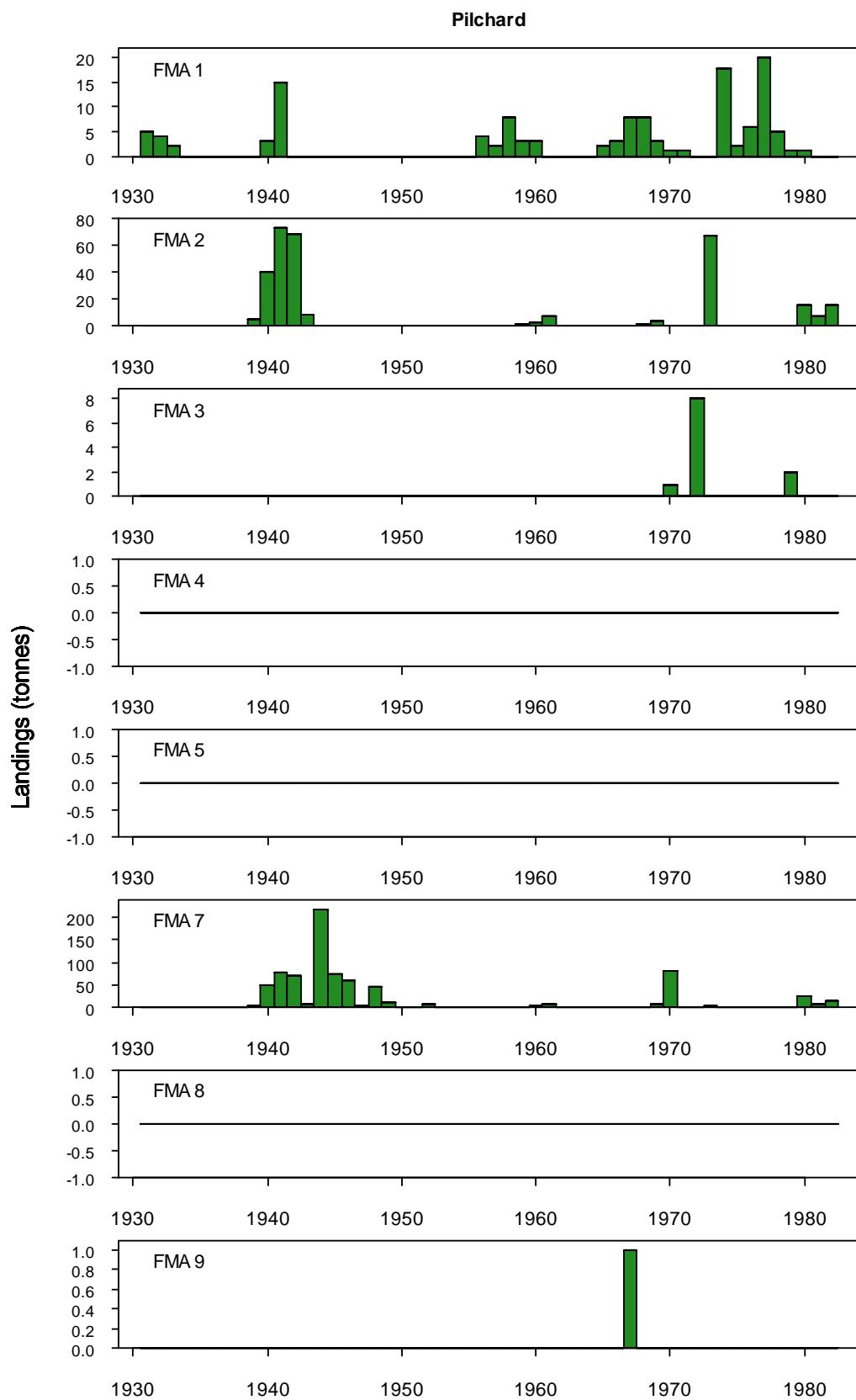


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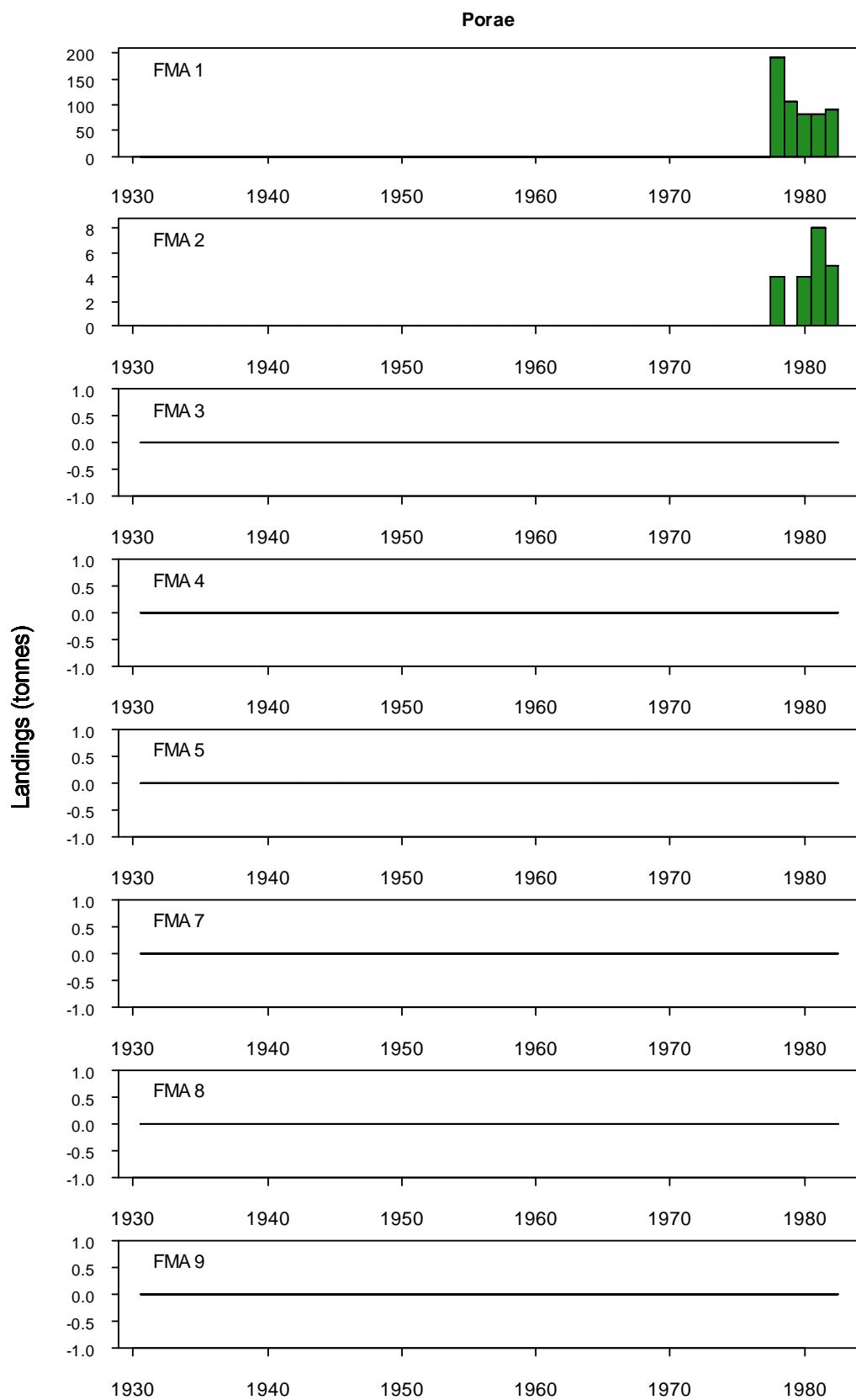


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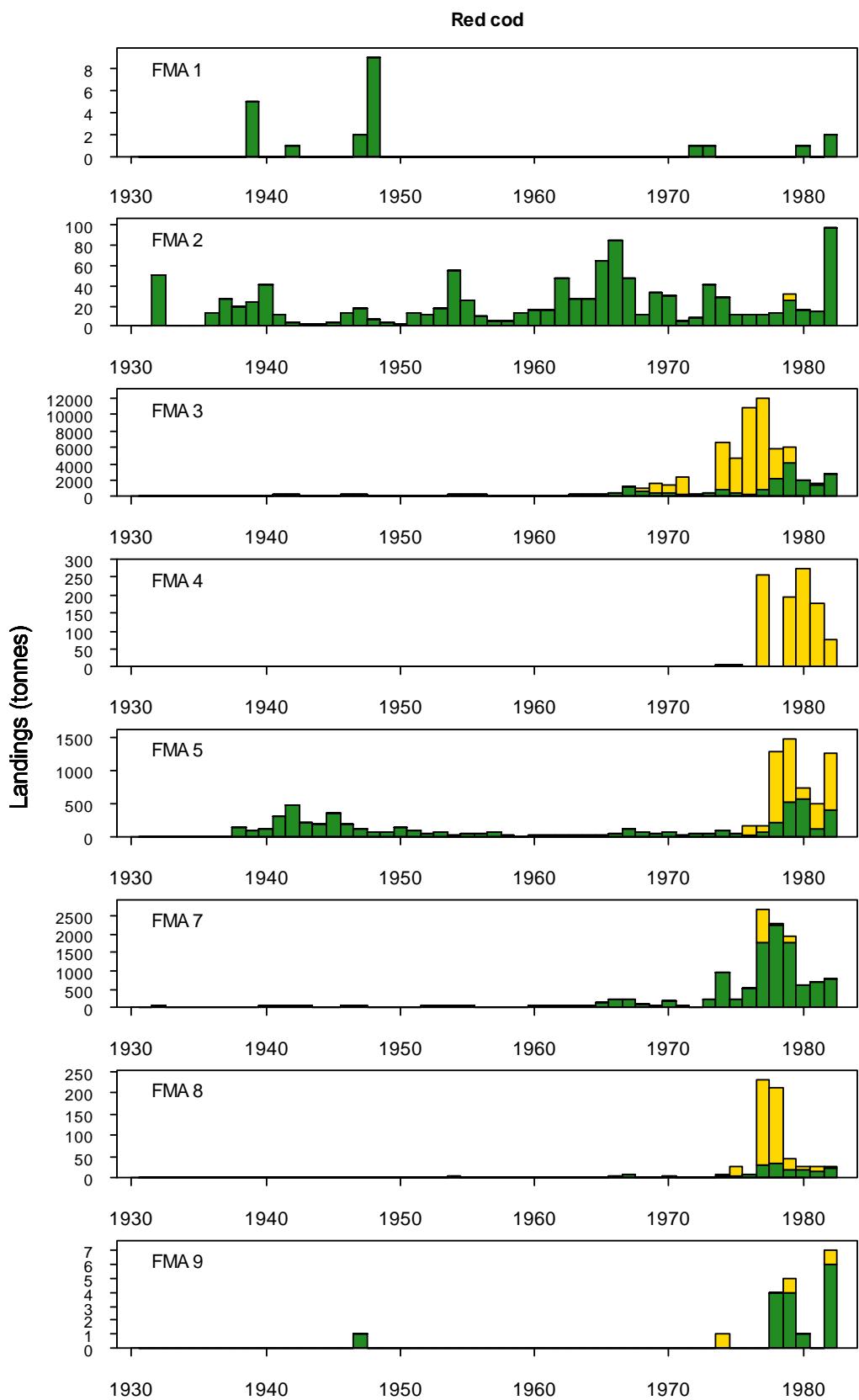


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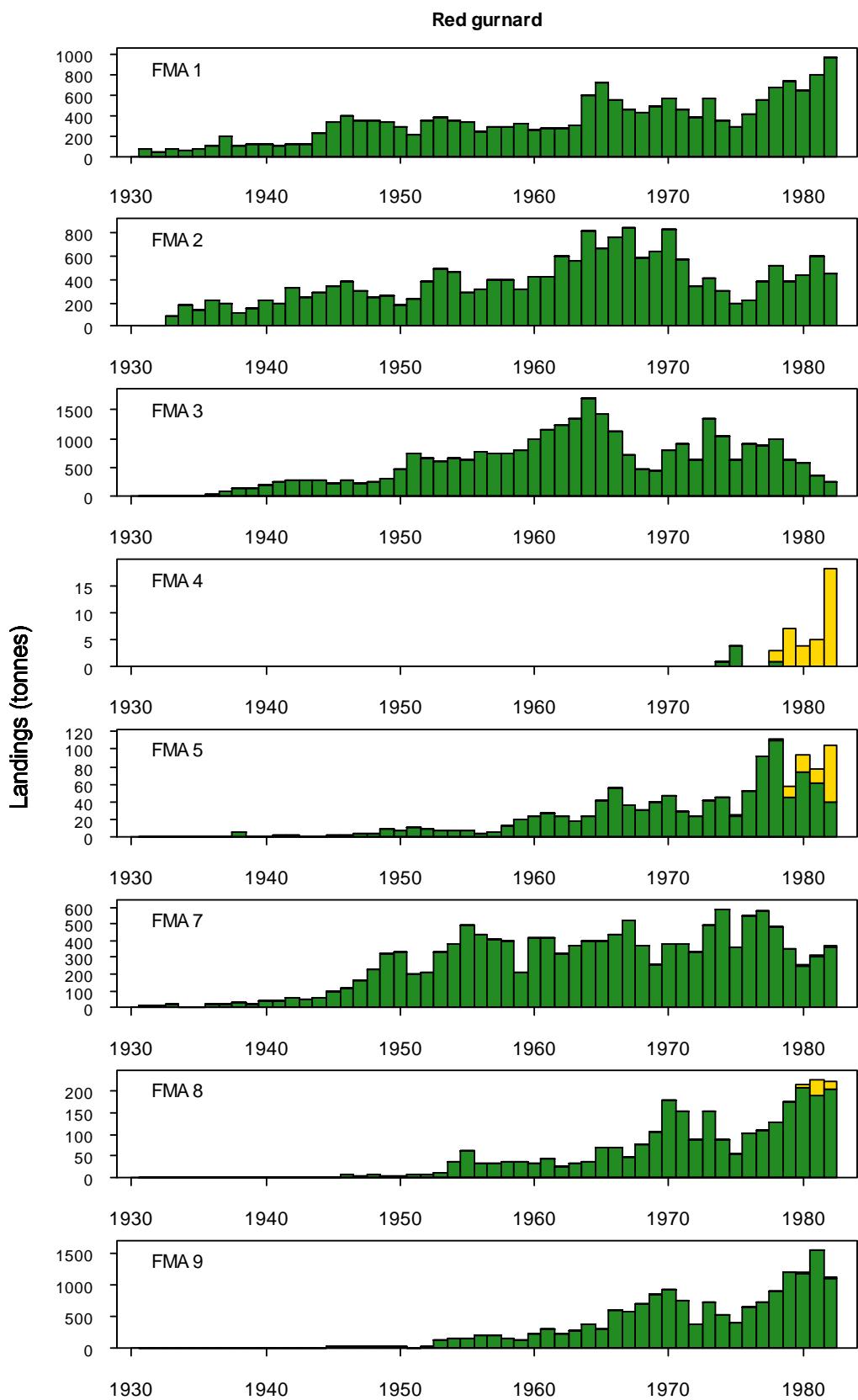


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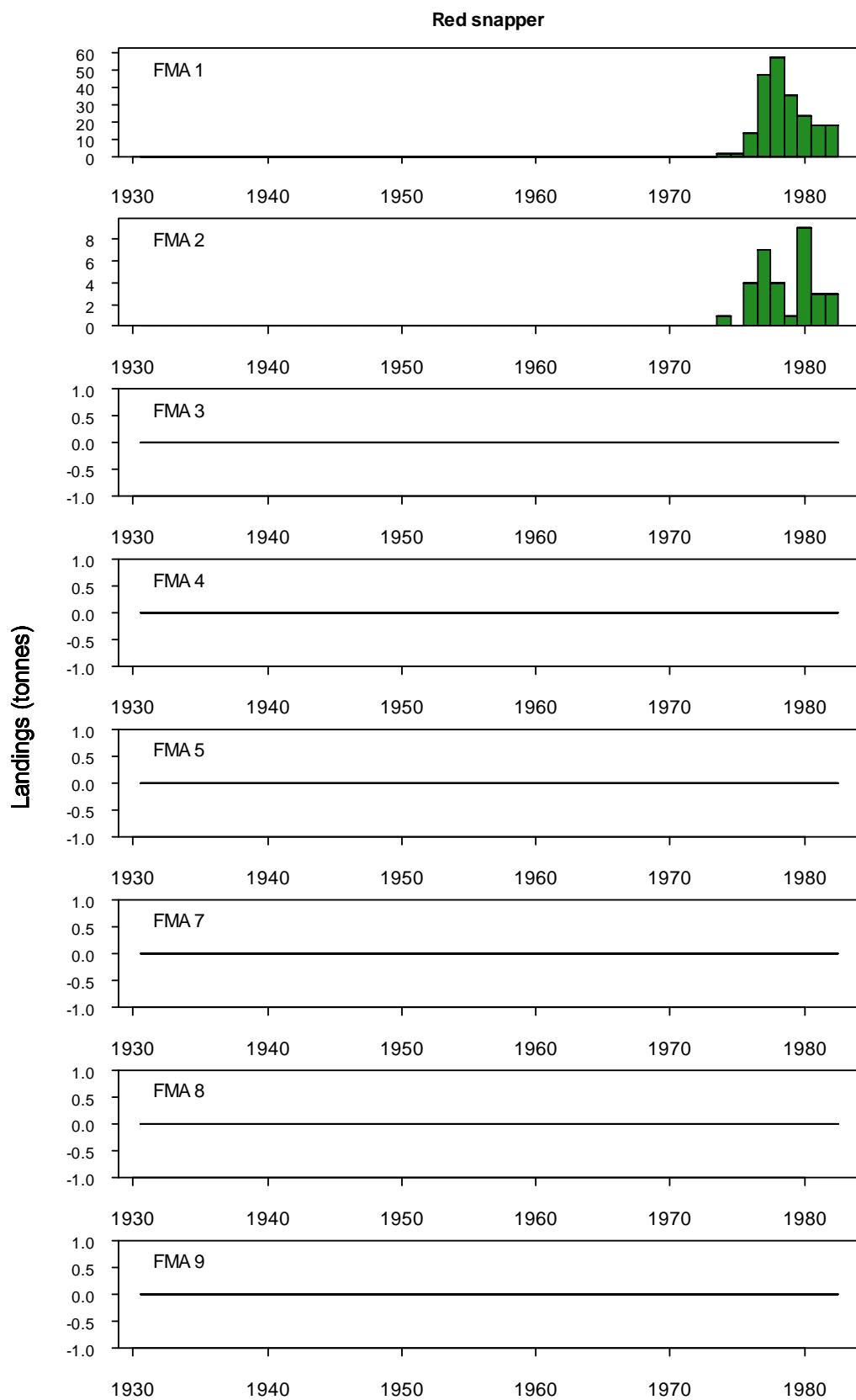


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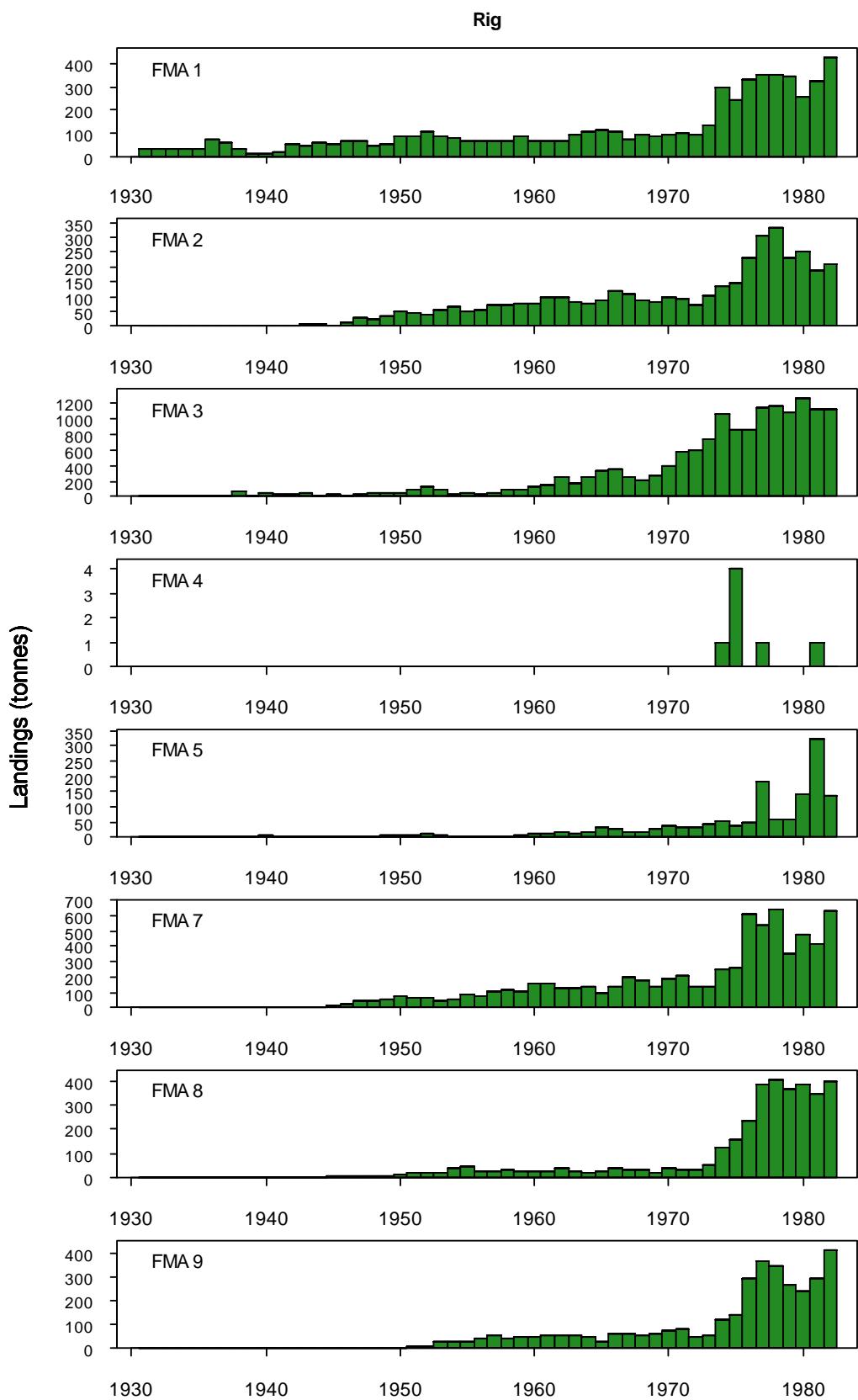


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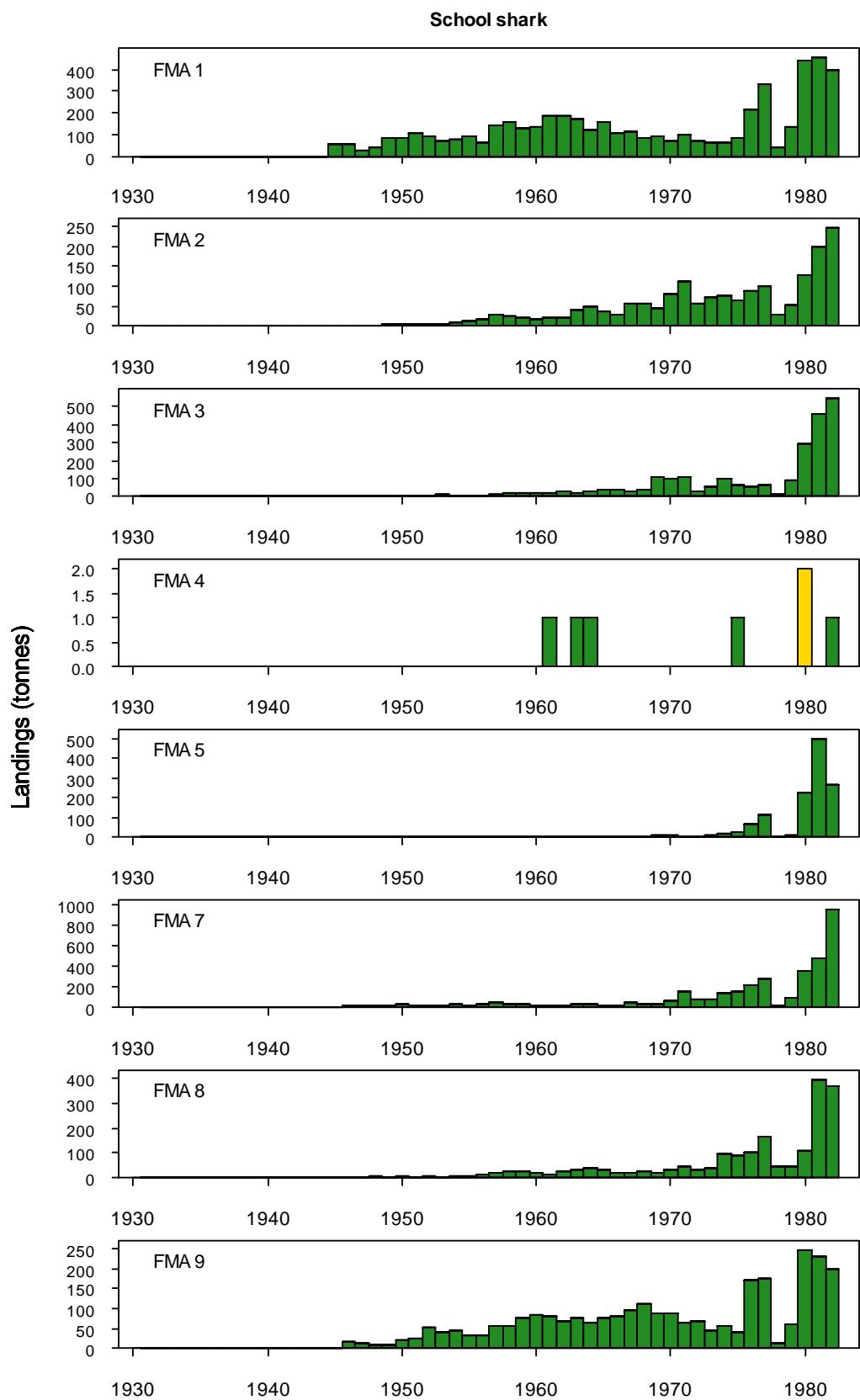


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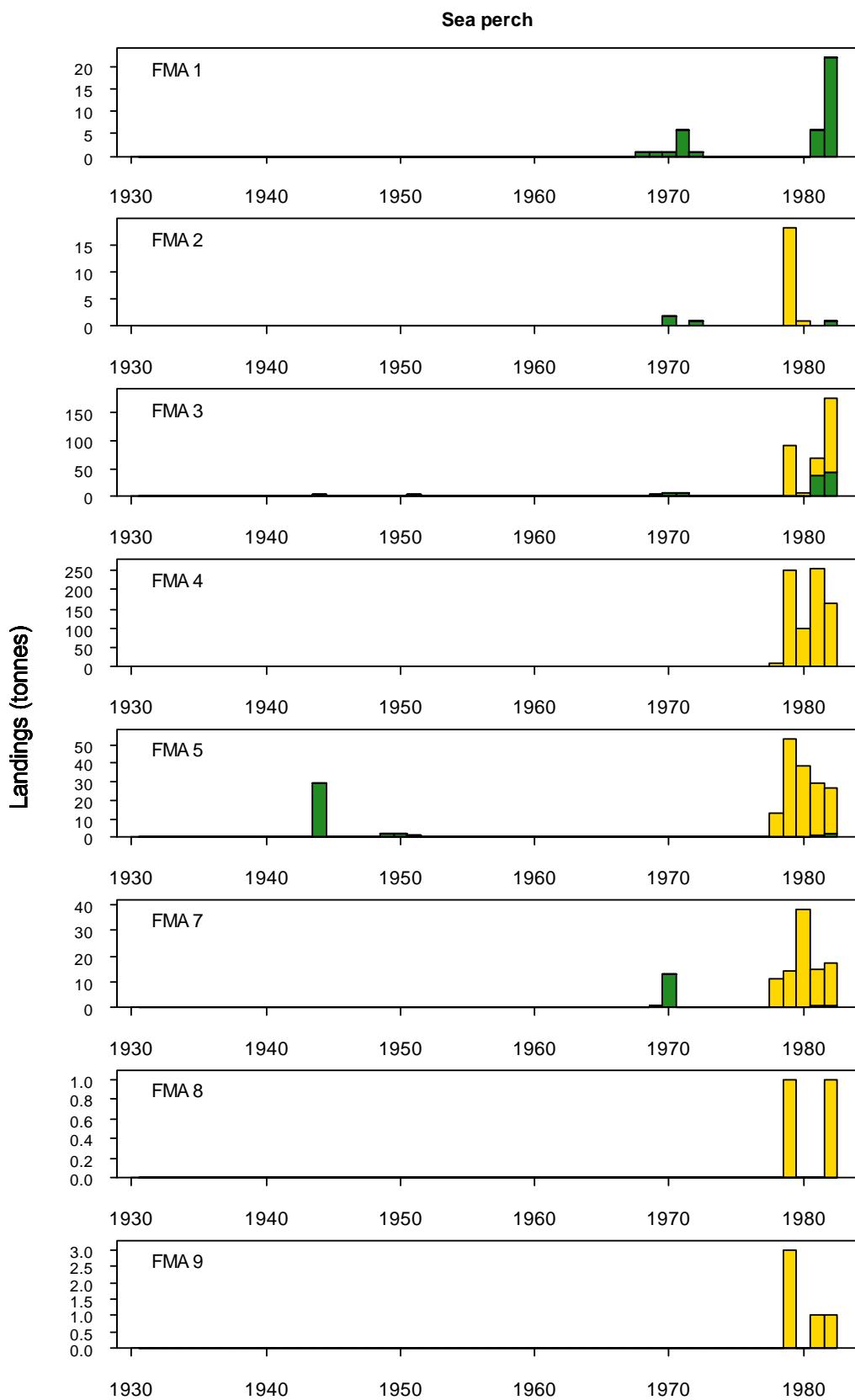


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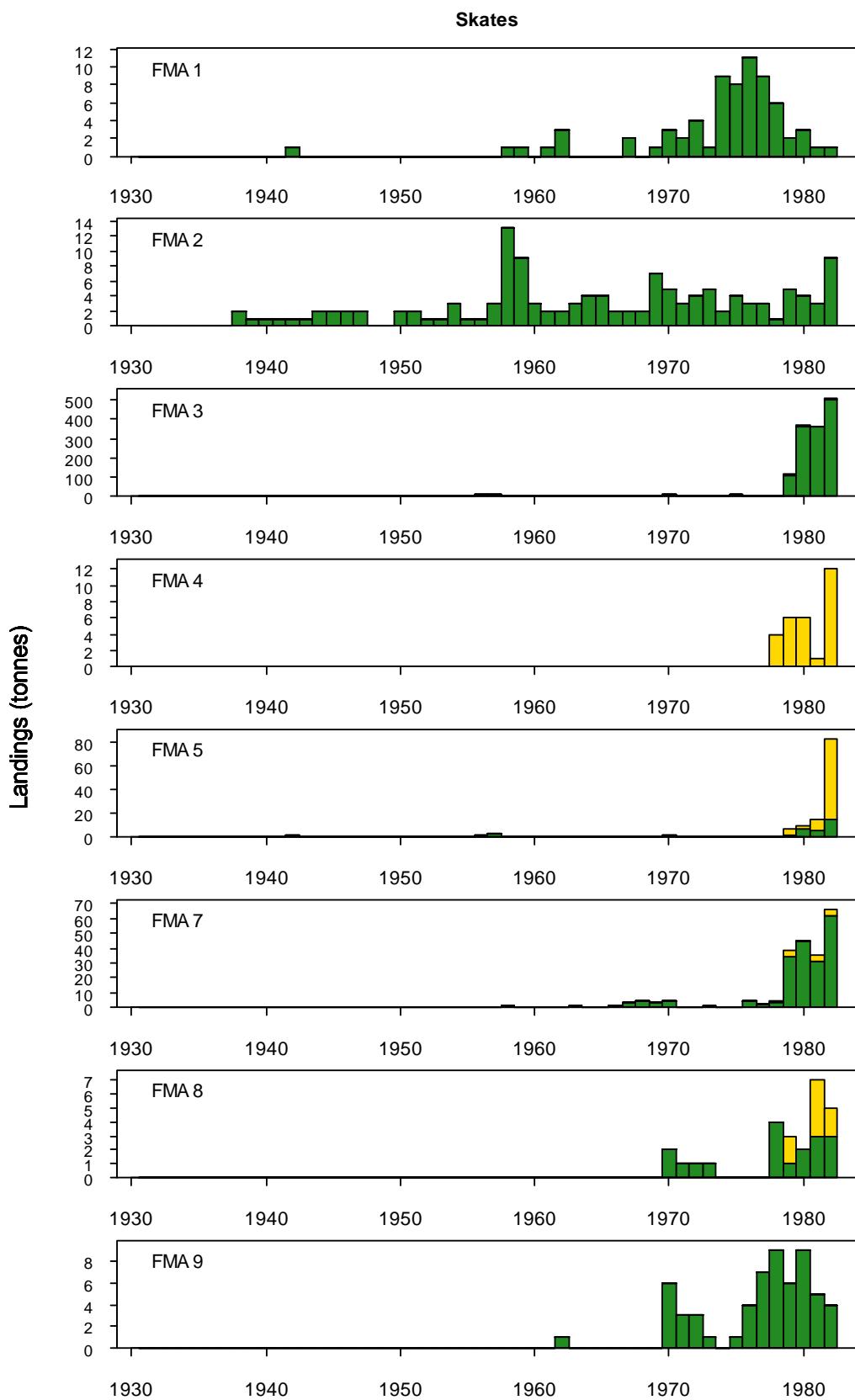


Figure 9: (continued).

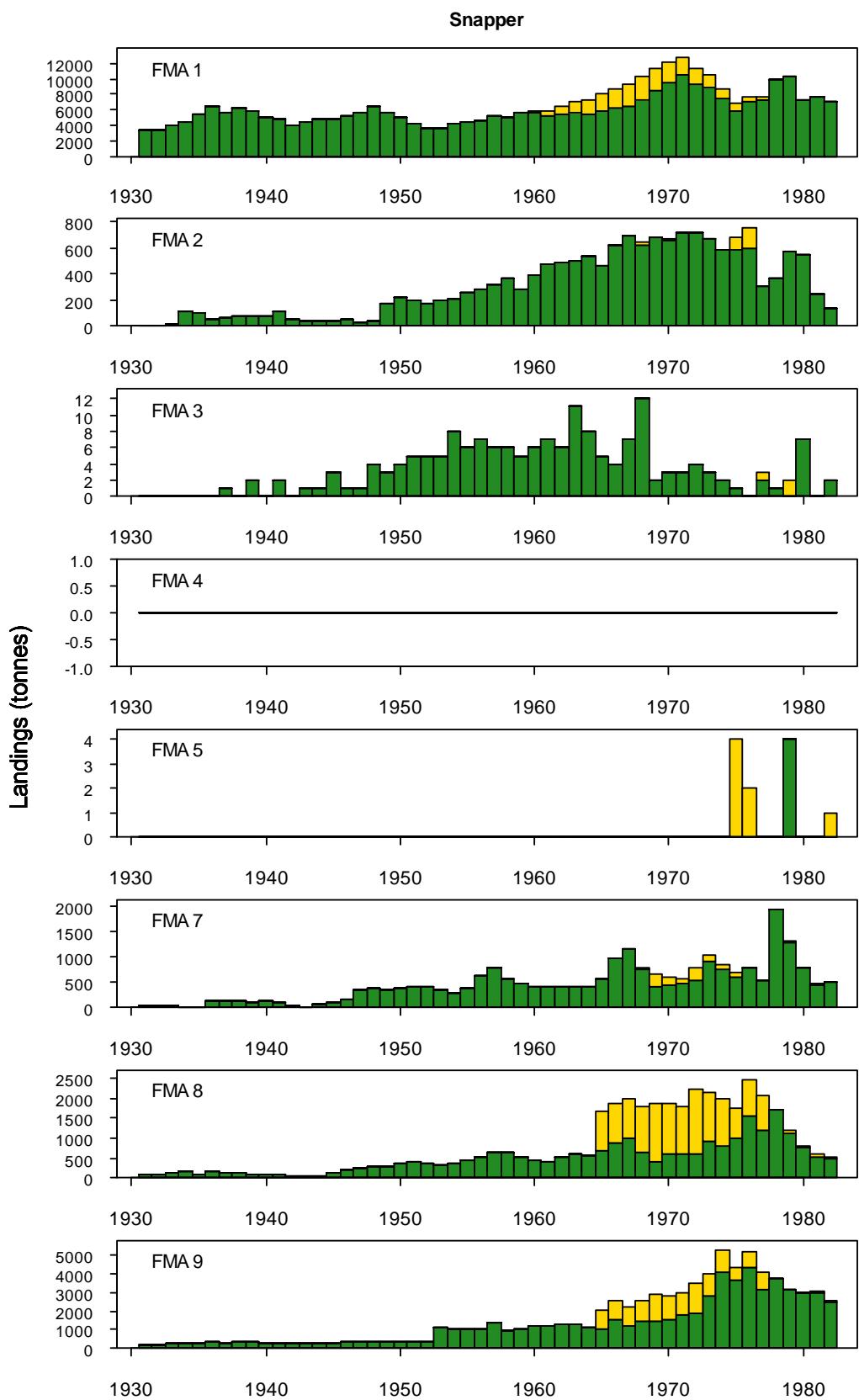


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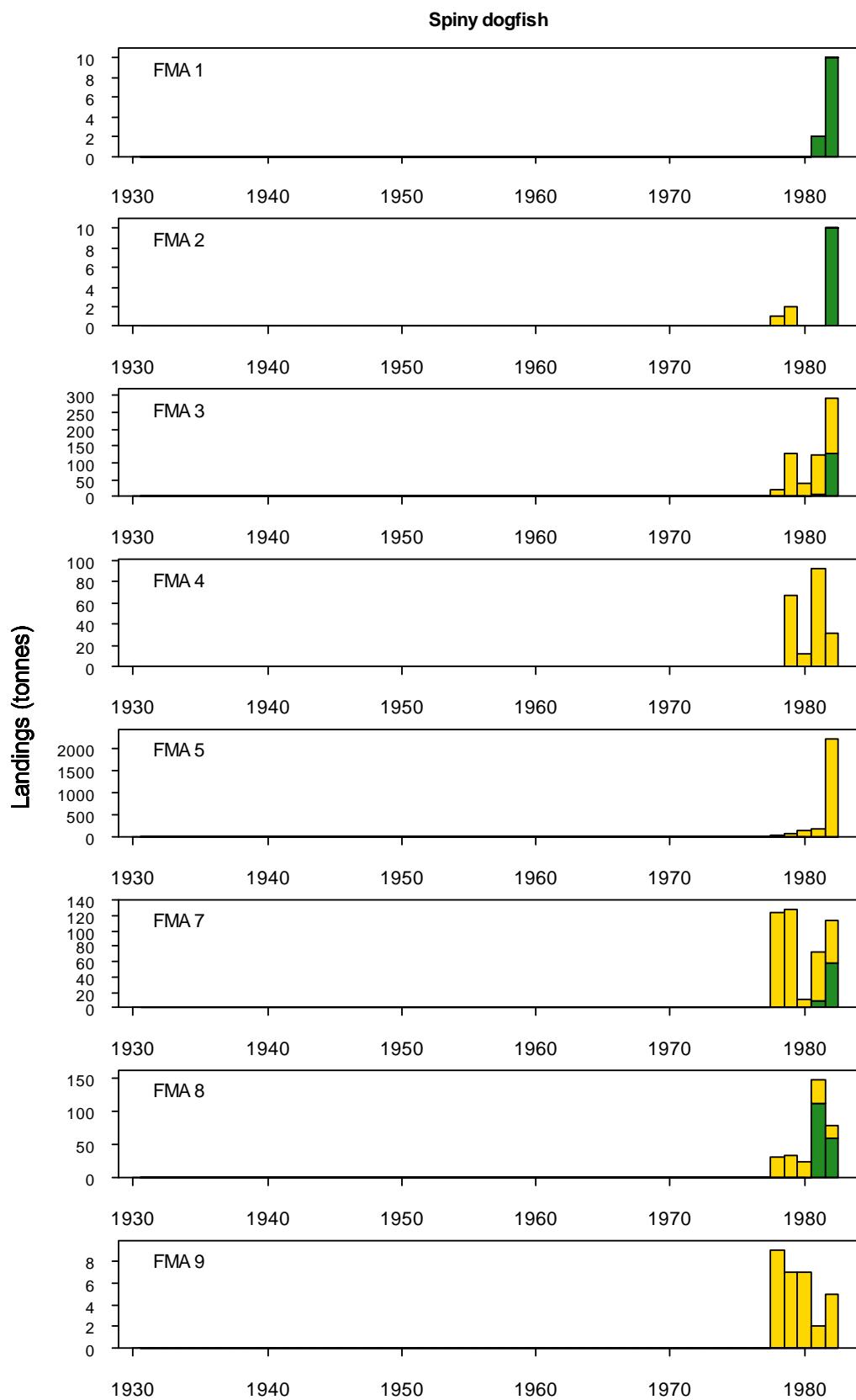


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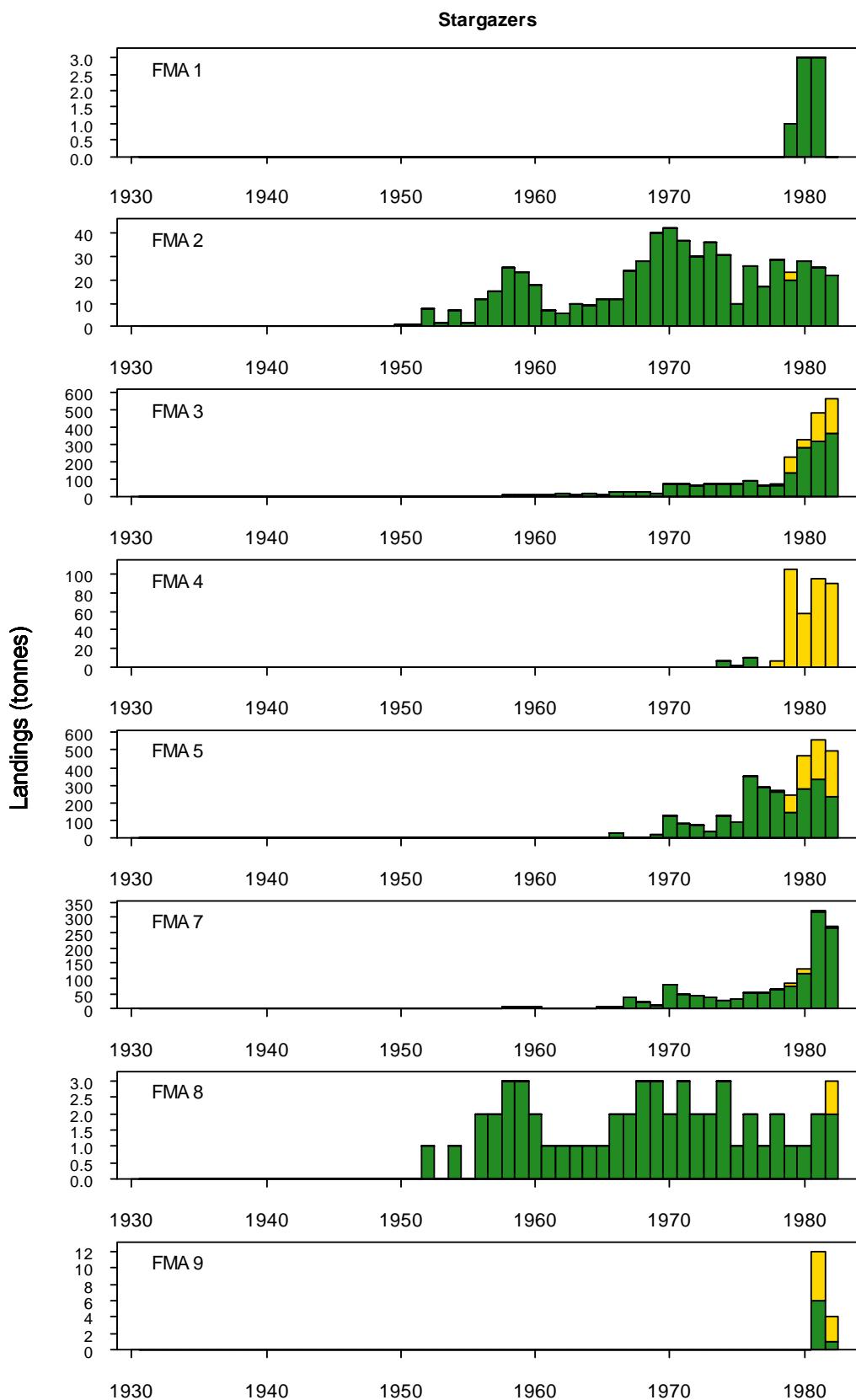


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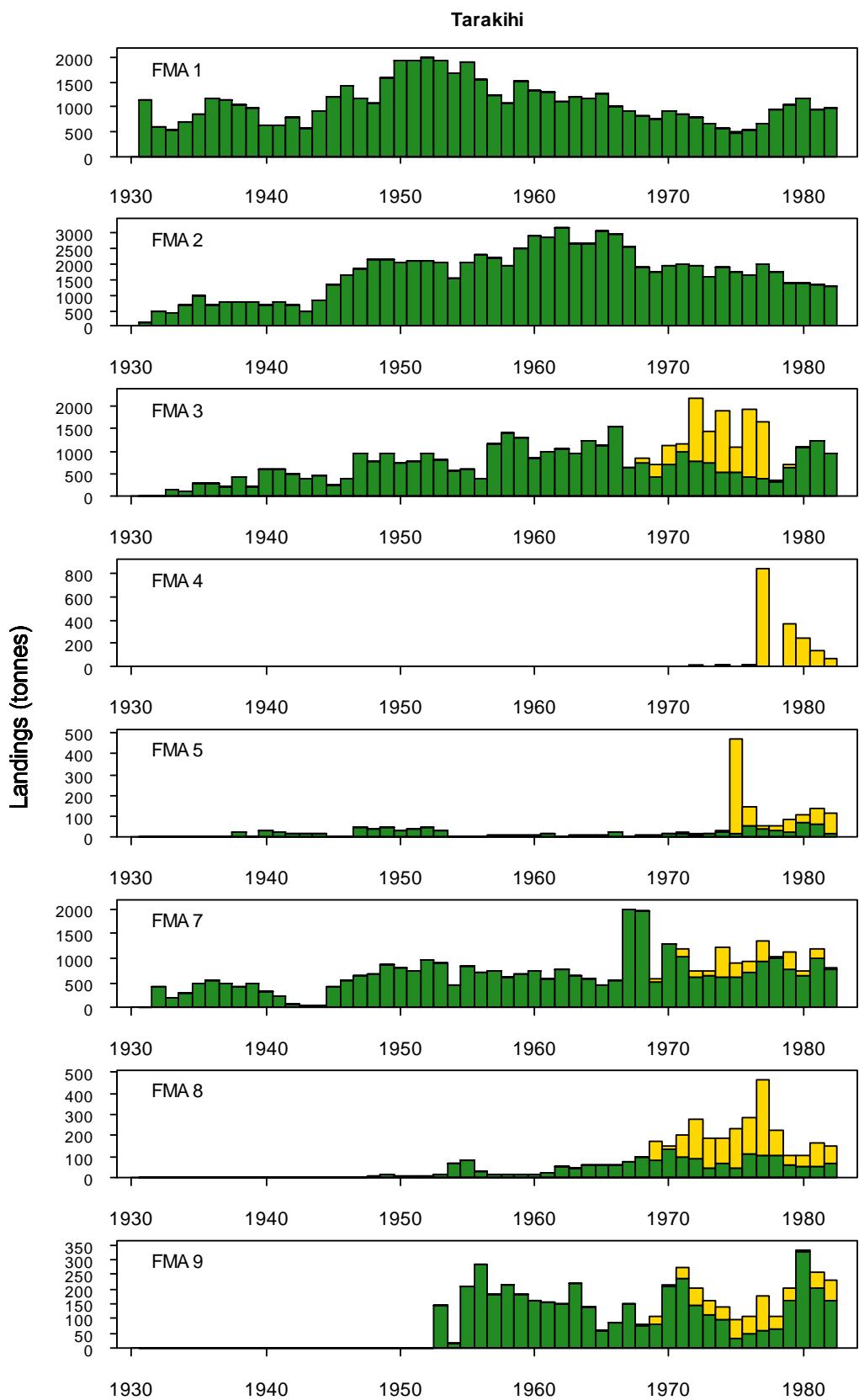


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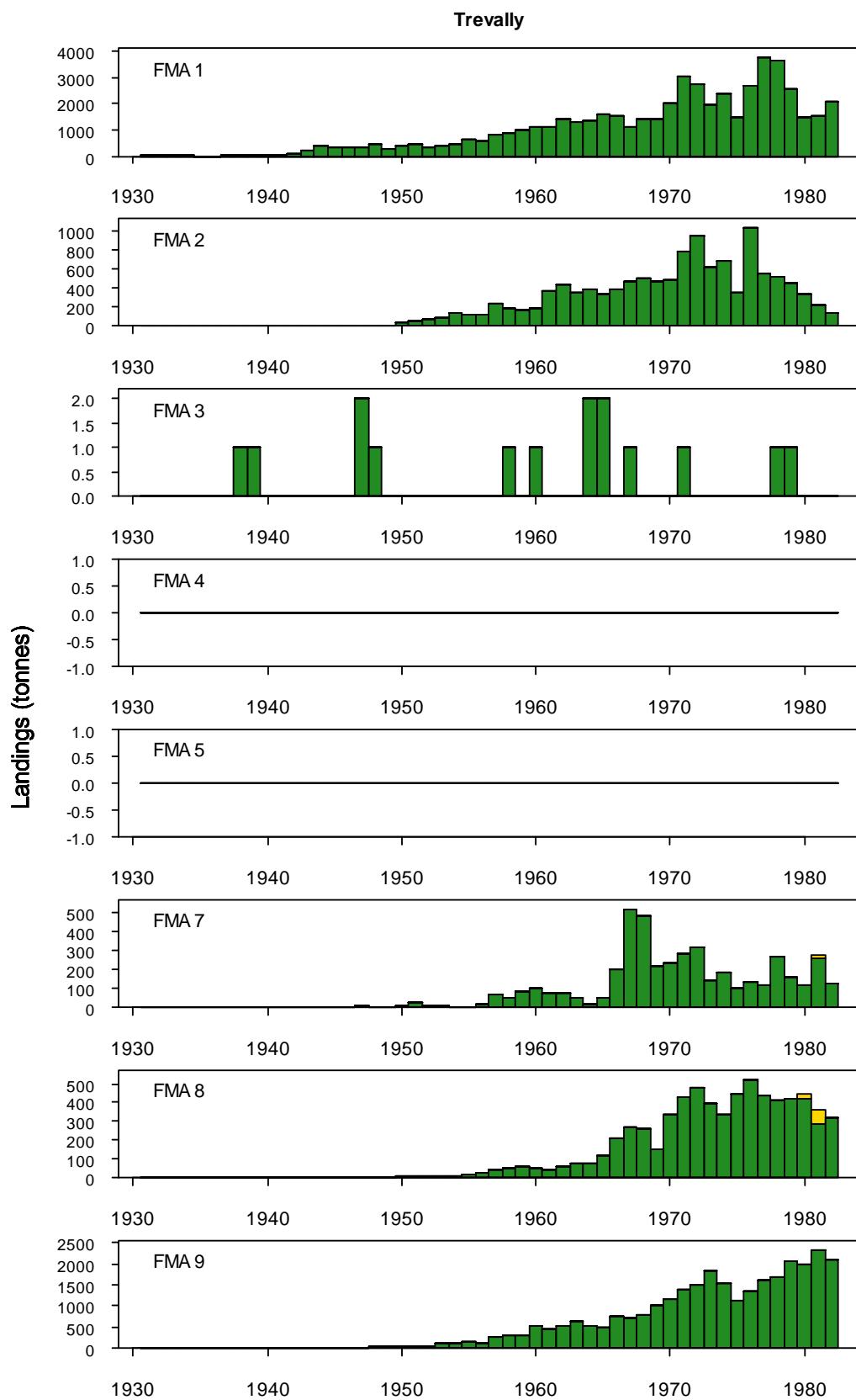


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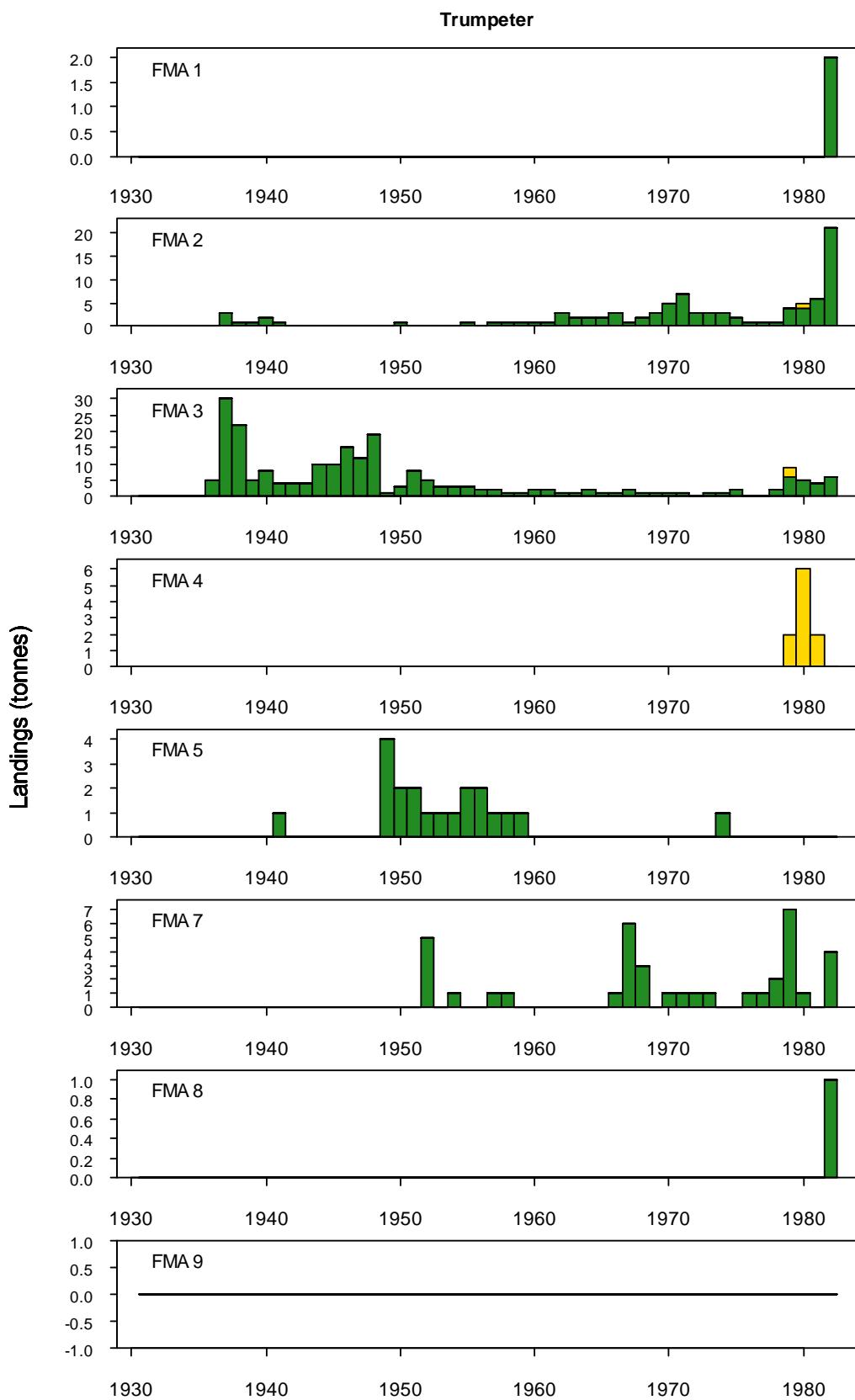


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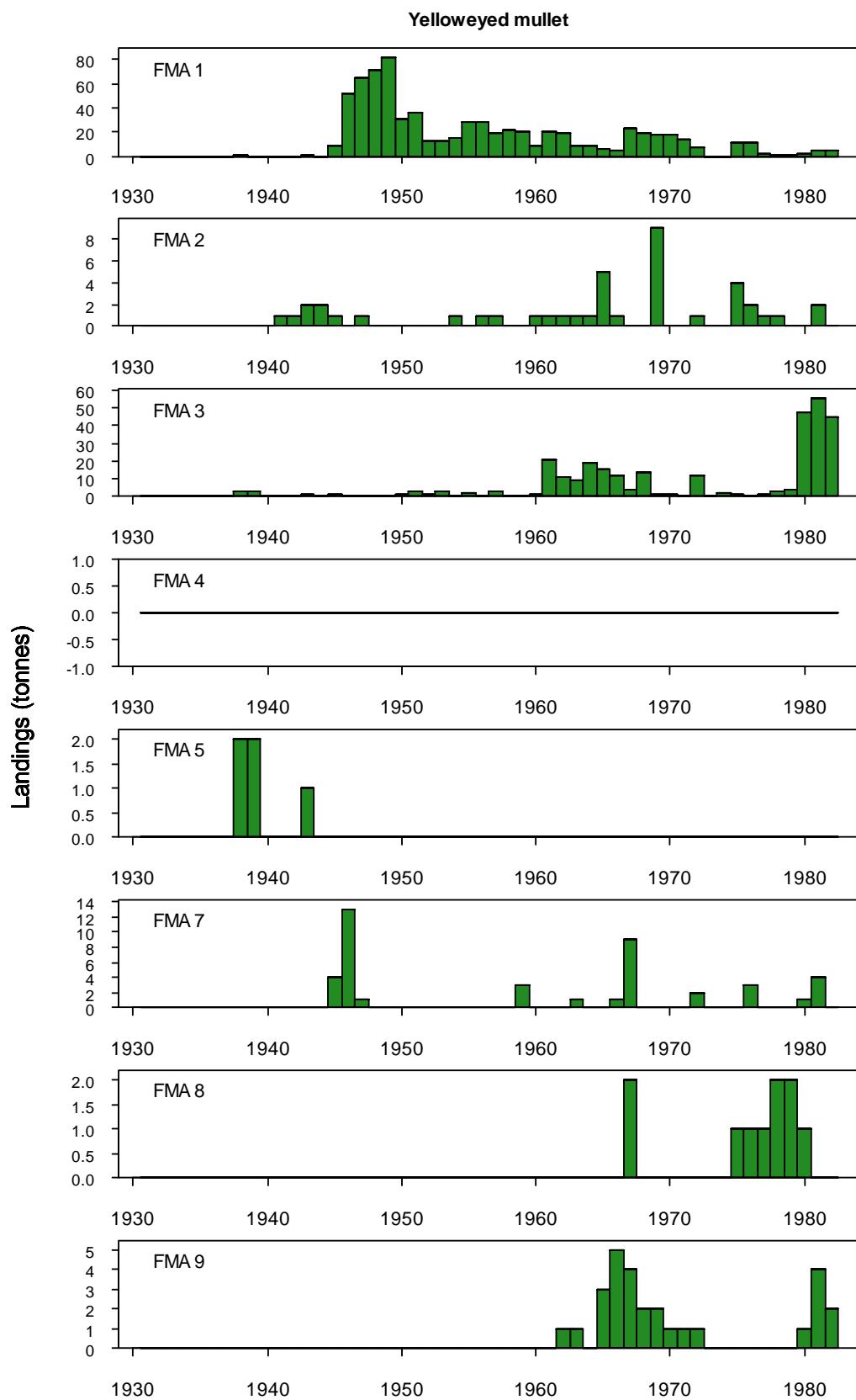


Figure 9: (continued).

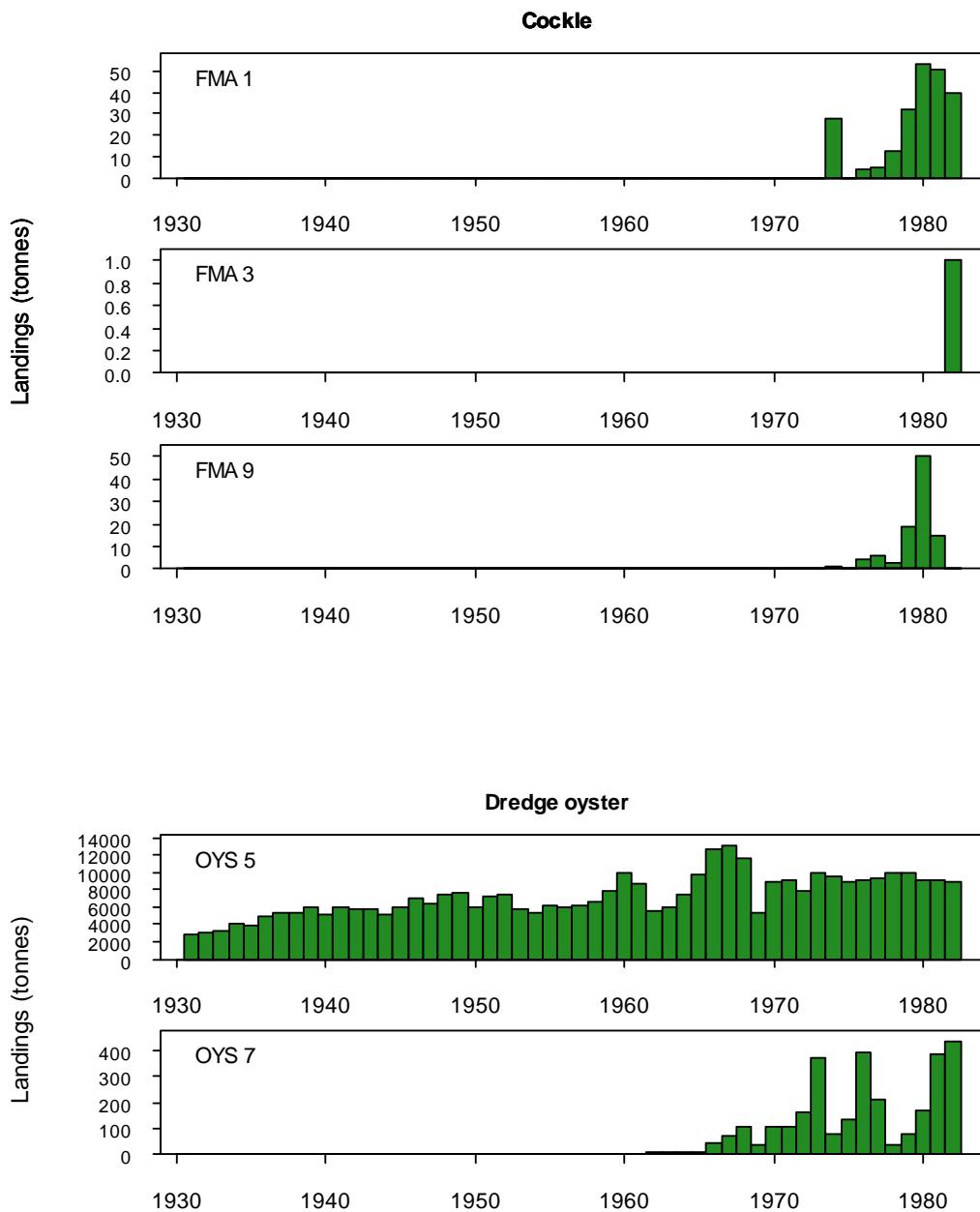


Figure 10: Landings history for inshore shellfish species by Fisheries or Quota Management Area, 1931 to 1982.

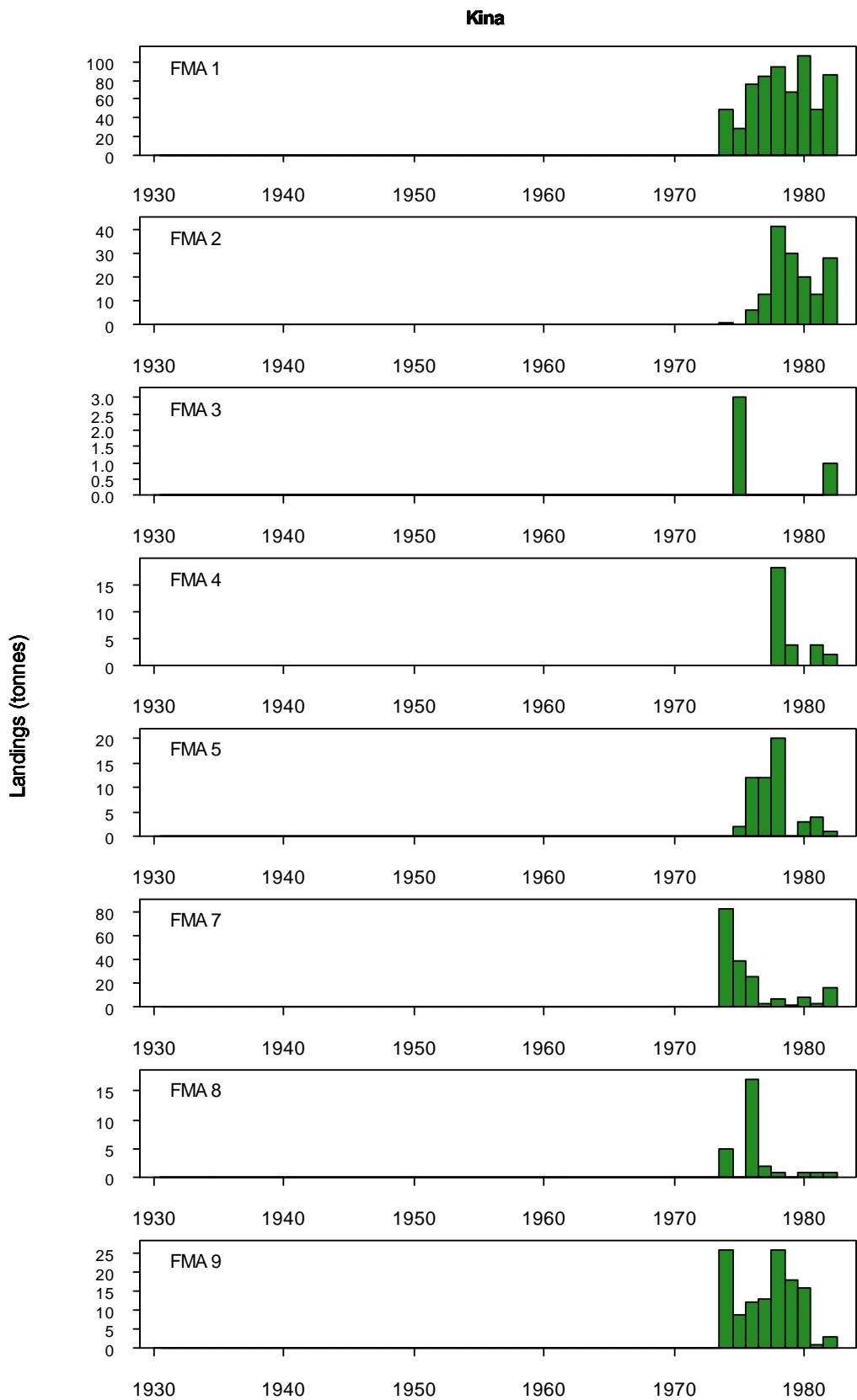


Figure 10: (continued).

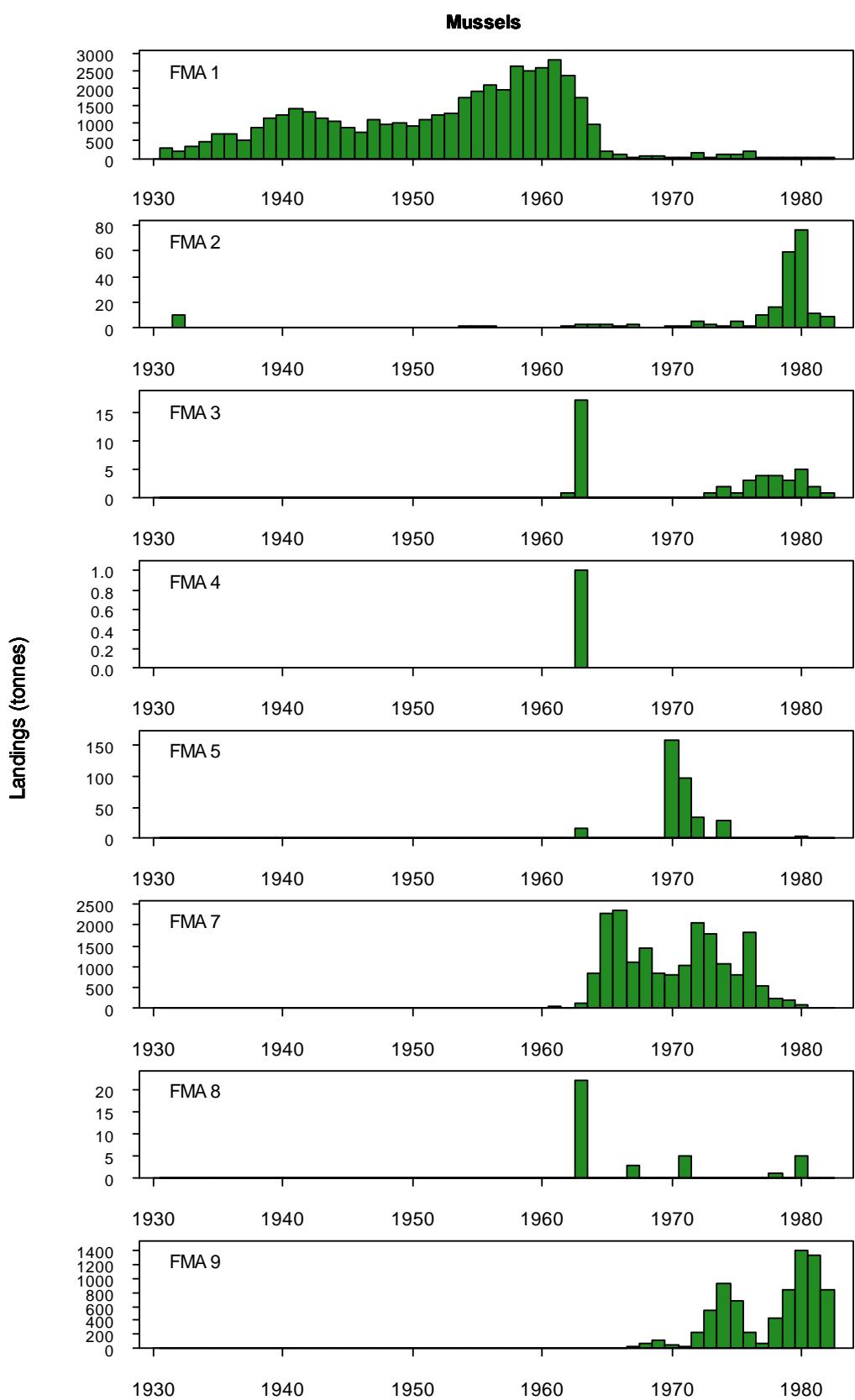


Figure 10: (continued).

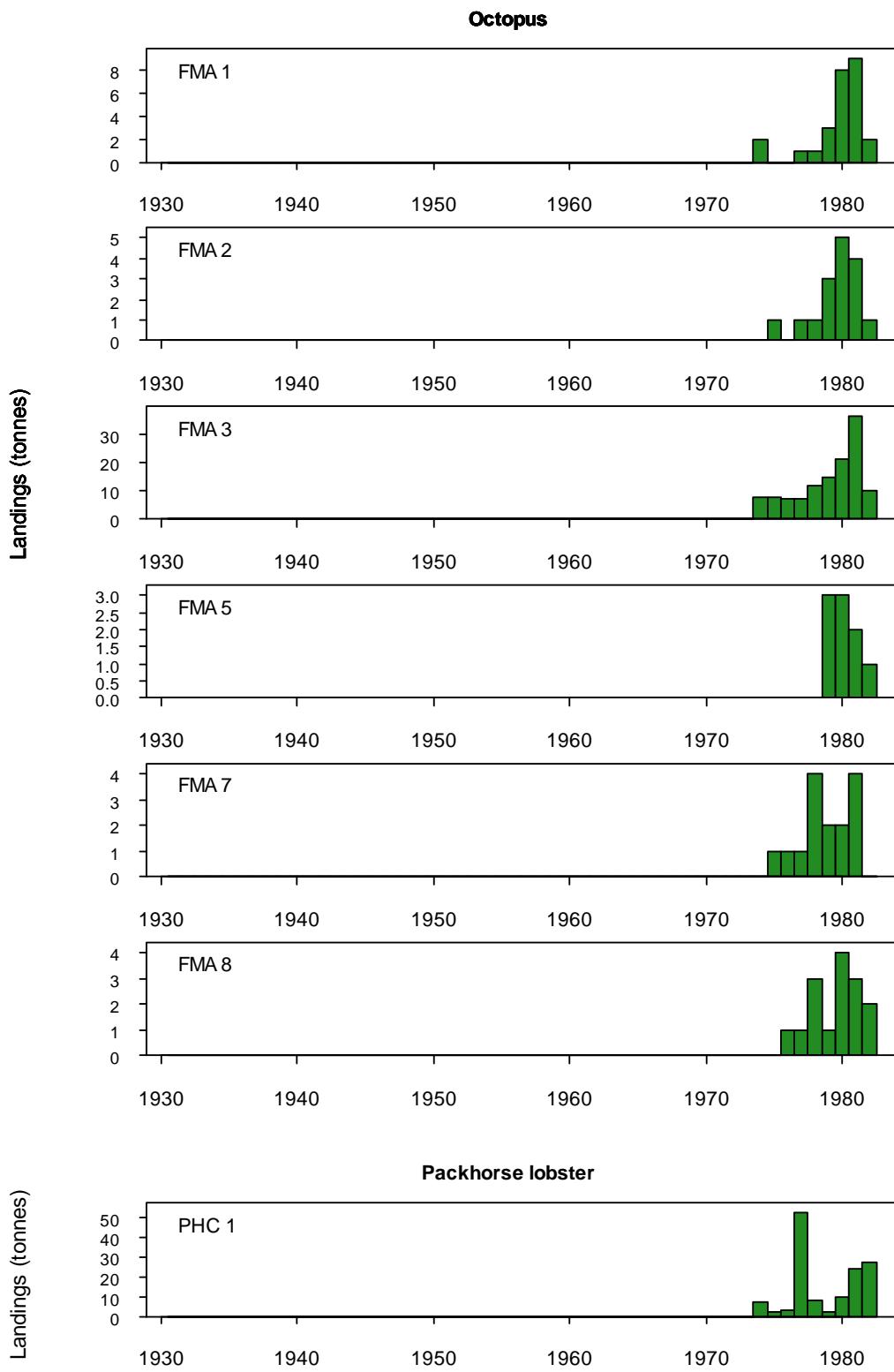


Figure 10: (continued).

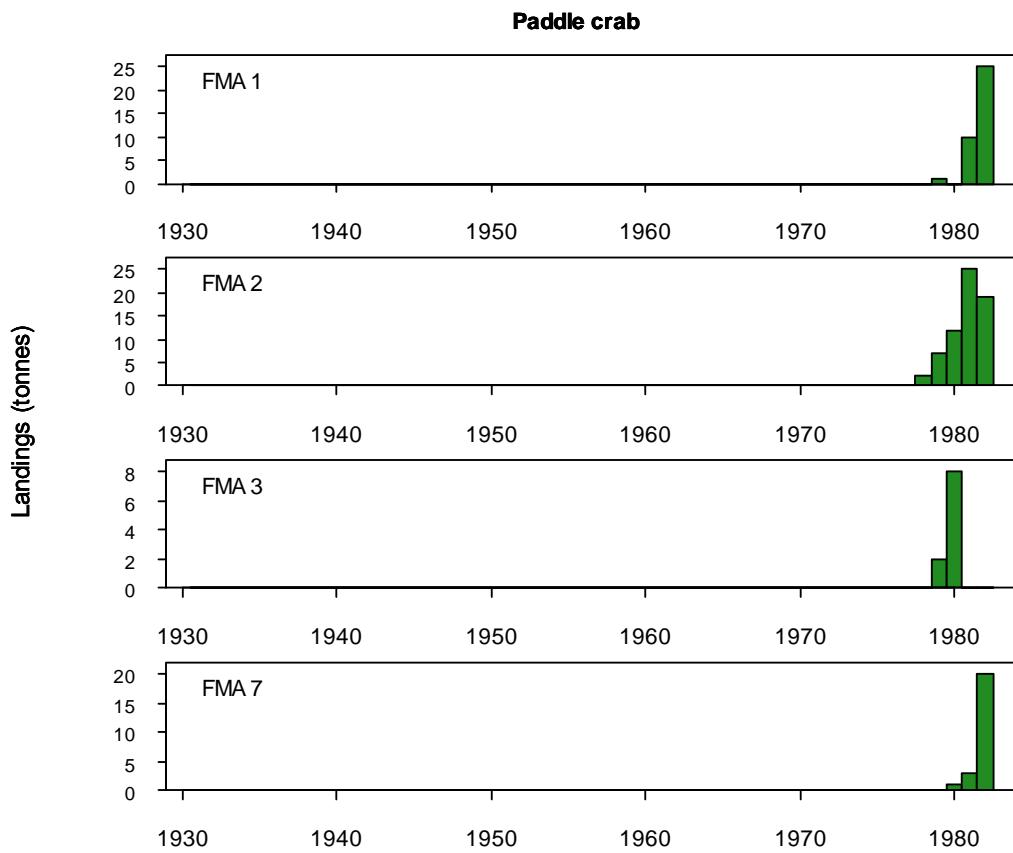


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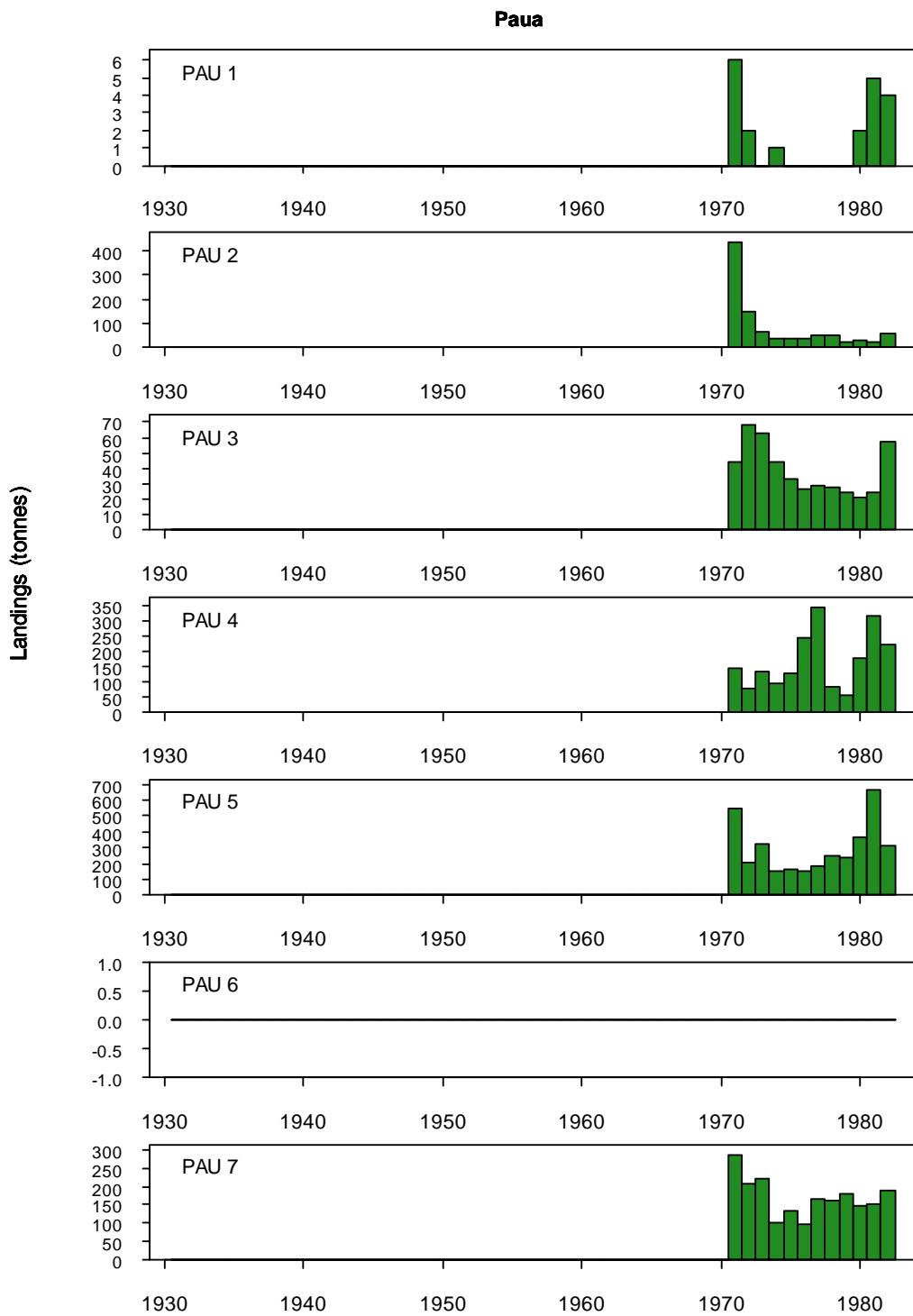


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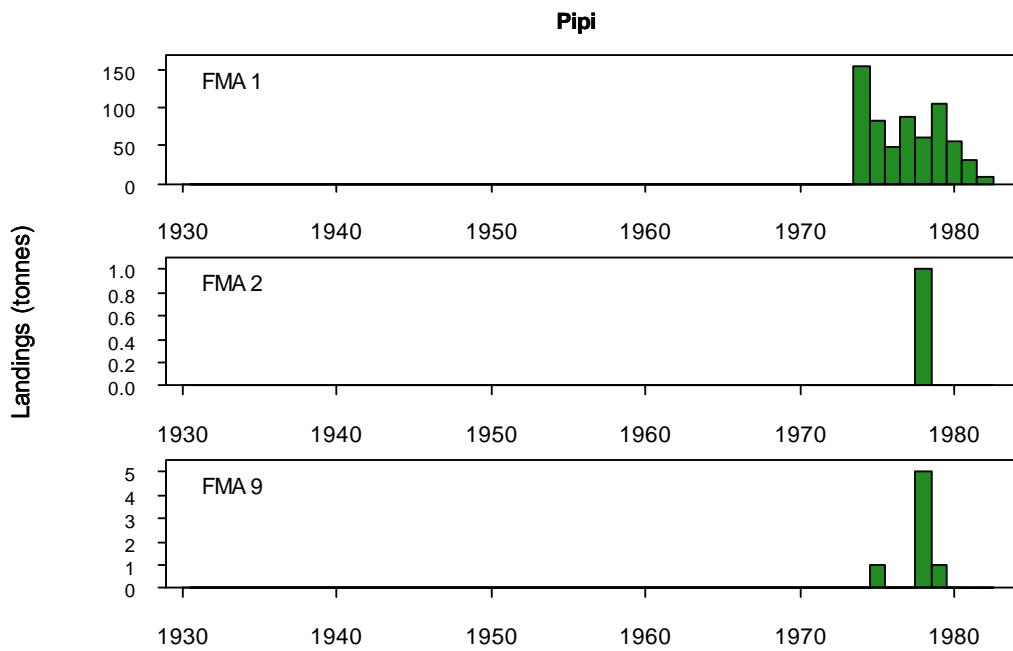


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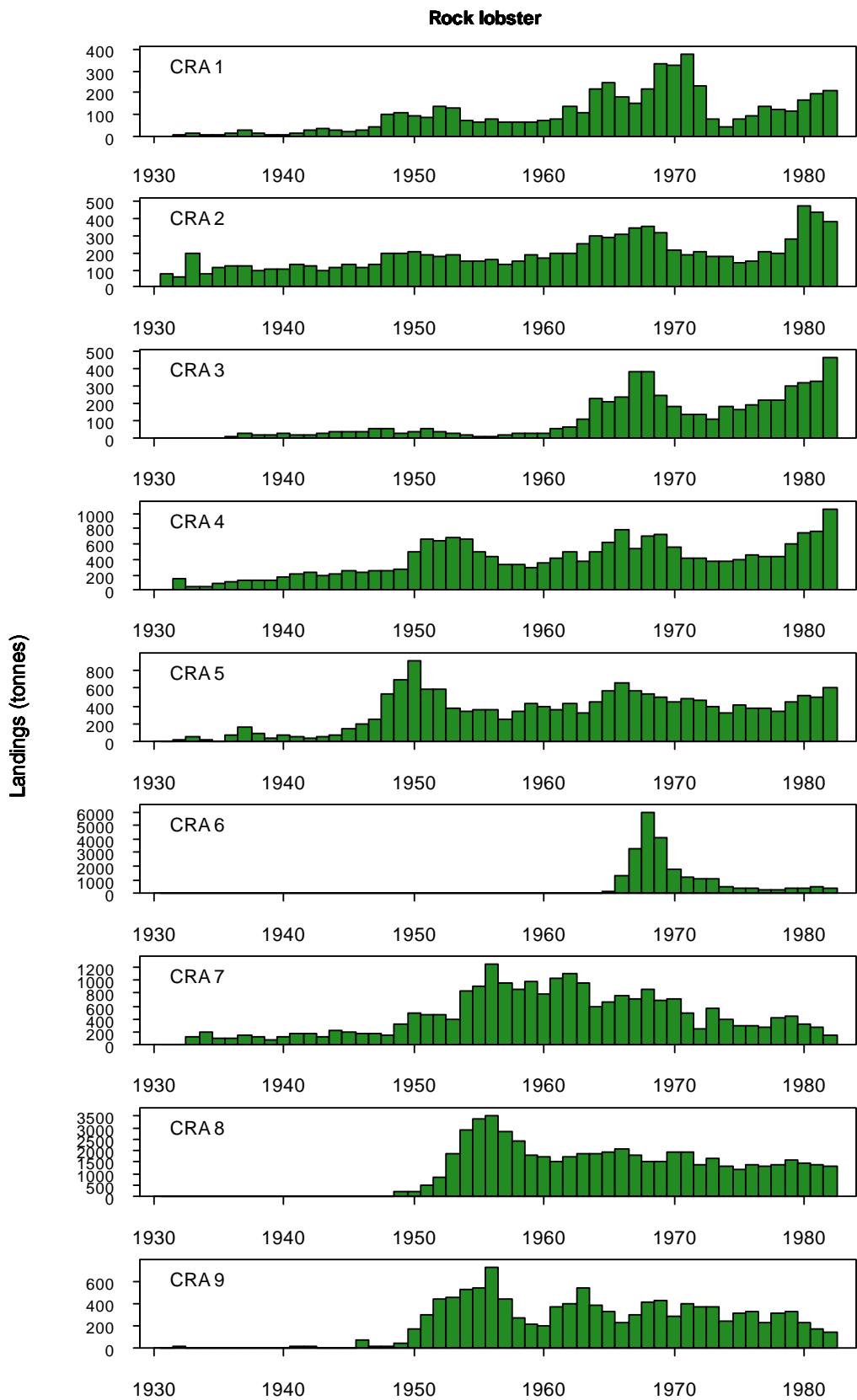


Figure 10: (continued).

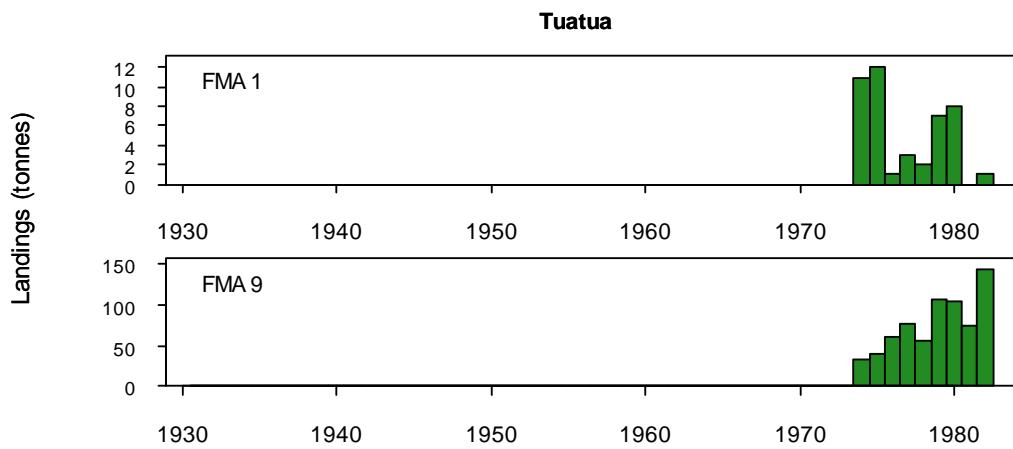
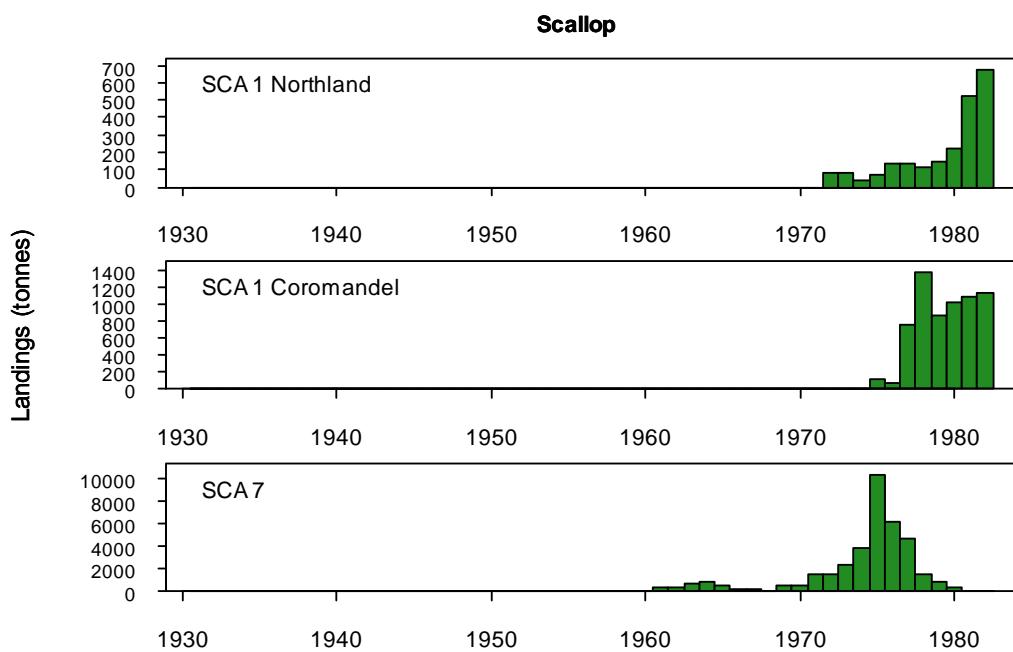
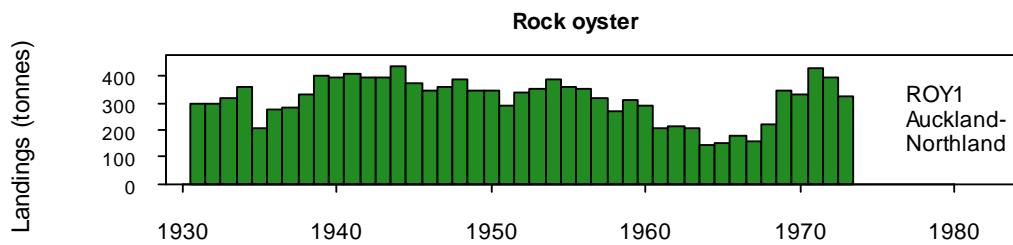


Figure 10: (continued).

8. TABLES

Table 1: List of inshore species and species groups included in this study.

Species or species group	Species included in groups	Scientific names	Species codes
Finfish			
Barracouta		<i>Thyrsites atun</i>	BAR
Blue cod		<i>Parapercis colias</i>	BCO
Blue mackerel		<i>Scomber australasicus</i>	EMA
Blue maomao		<i>Scorpis violacea</i>	BMA
Blue moki		<i>Latridopsis ciliaris</i>	MOK
Blue warehou		<i>Seriolella brama</i>	WAR
Bluenose		<i>Hyperoglyphe antarctica</i>	BNS
Butterfish		<i>Odax pullus</i>	BUT
Conger eel		<i>Conger verreauxi</i>	CON
Elephantfish		<i>Callorhinichthys milii</i>	ELE
Flatfish	Black flounder, brill, greenback flounder, lemon sole, NZ sole, sand flounder, sole, turbot, yellowbelly flounder, mixed flatfish	<i>Rhombosolea retiaria</i> , <i>Colistium guntheri</i> , <i>R. tapirina</i> , <i>Peltorhynchus novaezealandiae</i> , <i>R. plebeia</i> , <i>C. nudipinnis</i> , <i>R. leporina</i>	BFL, BRI, GFL, LSO, ESO, SFL, TUR, YBF, FLA, FLO, SOL
Freshwater eels	Shortfinned eel, longfinned eel, Australasian longfin eel	<i>Anguilla australis</i> , <i>A. dieffenbachii</i> , <i>A. reinhardtii</i>	SFE, LFE, ANG
Frostfish		<i>Lepidopus caudatus</i>	FRO
Garfish		<i>Hyporhamphus ihi</i>	GAR
Gemfish		<i>Rexea solandri</i>	SKI
Ghost sharks	Dark ghost shark, pale ghost shark	<i>Hydrolagus novaezealandiae</i> , <i>H. bermisi</i>	GSH, GSP
Grey mullet		<i>Mugil cephalus</i>	GMU
Groper	Hapuku, bass	<i>Polyprion oxygeneios</i> , <i>P. americanus</i>	HPB, HAP, BAS
Jack mackerels	Horse mackerel, golden mackerel, Murphy's mackerel	<i>Trachurus declivis</i> , <i>T. novaezealandiae</i> , <i>T. murphyi</i>	JMD, JMN, JMM
John dory		<i>Zeus faber</i>	JDO
Kahawai		<i>Arripis trutta</i>	KAH
Kingfish		<i>Seriola lalandi</i>	KIN
Leatherjacket		<i>Meuschenia scaber</i>	LEA
Ling		<i>Genypterus blacodes</i>	LIN
Parore		<i>Girella tricuspidata</i>	PAR
Pilchard	Pilchard, anchovy, slender sprat, stout sprat	<i>Sardinops neopilchardus</i> , <i>Engraulis australis</i> , <i>Sprattus antipodum</i> , <i>S. muelleri</i>	PIL, ANC, SPR
Porae		<i>Nemadactylus douglasii</i>	POR
Red cod		<i>Pseudophycis bachus</i>	RCO
Red gurnard		<i>Chelidonichthys kumu</i>	GUR
Red snapper		<i>Centroberyx affinis</i>	RSN
Rig		<i>Mustelus lenticulatus</i>	SPO
School shark		<i>Galeorhinus galeus</i>	SCH
Sea perch		<i>Helicolenus percoides</i>	SPE
Skates	Smooth skate, rough skate	<i>Dipturus innominatus</i> , <i>Zearaja nasuta</i>	SSK, RSK
Snapper		<i>Pagrus auratus</i>	SNA
Spiny dogfish	Spiny dogfish, northern spiny dogfish	<i>Squalus acanthias</i> , <i>S. griffini</i>	SPD, NSD
Stargazers	Giant stargazer, spotted stargazer	<i>Kathetostoma giganteum</i> , <i>Genyagnus monoptyerygius</i>	STA, SPZ
Tarakihi		<i>Nemadactylus macropterus</i>	TAR
Trevally		<i>Pseudocaranx georgianus</i>	TRE
Trumpeter		<i>Latris lineata</i>	TRU
Yelloweyed mullet		<i>Aldrichetta forsteri</i>	YEM
Shellfish			
Cockle		<i>Austrovenus stutchburyi</i>	COO
Dredge oyster		<i>Ostrea chilensis</i>	OYS
Kina		<i>Evechinus chloroticus</i>	SUR
Mussels	Greenlippled mussel, blue mussel	<i>Perna canalicula</i> , <i>Mytilus galloprovincialis</i>	MUS, GLM, MSB
Octopus		<i>Pinnoctopus cordiformis</i>	OCT
Packhorse lobster		<i>Sagmariasus verreauxi</i>	PHC
Paddle crab		<i>Ovalipes catharus</i>	PAD
Paua	Blackfoot paua, yellowfoot paua	<i>Haliotis iris</i> , <i>H. australis</i>	PAU
Pipi		<i>Paphies australis</i>	PPI
Rock lobster		<i>Jasus edwardsii</i>	CRA
Rock oyster		<i>Saccostrea glomerata</i>	ROY
Scallop		<i>Pecten novaezealandiae</i>	SCA
Tuatua		<i>Paphies subtriangulata</i>	TUA

Table 2: Allocation of foreign landings reported in old statistical areas to the current Fisheries Management Areas.

FMA	Japanese divisional area	Deepwater fishing area
1	D1	-
2	D2 snapper	B* and C snapper
3	D2 (except snapper) and D4	C (except snapper)
4	D3	D
5	D6	E** and F
6	D5	-
7	D7	G
8	75% D8 (except snapper 50% and red cod 100%)	75% H (except snapper 50% and red cod 100%)
9	25% D8 (except snapper 50% and red cod 0%)	25% H (except snapper 50% and red cod 0%)

* All area B landings were allocated to FMA 2 because early FSU data contained no FMA 1 landings

** All area E landings were allocated to FMA 5 because early FSU data contained no FMA 6 landings

Table 3: Reported total annual landings of inshore finfish (including freshwater eels) by domestic and foreign vessels, and inshore shellfish (tonnes).

Year	Domestic finfish	Foreign finfish	Shellfish	Total
1931	16112	0	3577	19689
1932	14479	0	3735	18214
1933	16265	0	4438	20703
1934	17283	0	5323	22606
1935	17726	0	5155	22881
1936	17510	0	6441	23951
1937	16956	0	6655	23611
1938	16756	0	6986	23742
1939	15329	0	7880	23209
1940	14650	0	7376	22026
1941	14721	0	8314	23035
1942	13775	0	8198	21973
1943	12910	0	7863	20773
1944	14914	0	7234	22148
1945	16090	0	8078	24168
1946	19266	0	8976	28242
1947	22177	0	8822	30999
1948	22628	0	10183	32811
1949	22818	0	10912	33730
1950	22336	0	9874	32210
1951	20656	0	11380	32036
1952	20704	0	12309	33013
1953	22028	0	11451	33479
1954	21011	0	12899	33910
1955	22044	0	14383	36427
1956	22833	0	14974	37807
1957	25248	0	13424	38672
1958	25057	0	13917	38974
1959	26231	0	14643	40874
1960	27471	351	16515	44337
1961	26737	702	16033	43472
1962	28022	1053	12935	42010
1963	27851	1403	13334	42588
1964	29790	1754	14898	46442
1965	30558	4106	17879	52543
1966	33604	4456	22113	60173
1967	36125	4808	22890	63823
1968	34047	21356	24760	80163
1969	32700	28561	16705	77966
1970	40479	30956	18251	89686
1971	43649	35082	19947	98678
1972	39603	59710	18081	117394
1973	44007	38694	21385	104086
1974	46669	60446	19979	127094
1975	36064	39558	25099	100721
1976	47836	63690	22661	134187
1977	53533	89347	20482	163362
1978	65584	26624	18370	110578
1979	71498	34638	18372	124508
1980	69649	26812	18167	114628
1981	77336	38509	18534	134379
1982	73825	32142	18096	124063

APPENDIX 1: NOTES ON LANDINGS AGGREGATED BY SPECIES BEFORE 1938

Total domestic fish landings were first reported in the ARs in 1915. Although there was no breakdown by species until 1931, and there was a large mixed species category until 1938 (see Figure 5), it may be desirable for future stock assessments of some species to reconstruct landings before 1931. To facilitate this, we present here information from the ARs on the number of vessels registered for fishing by method, the number of fishers, and the relationship between these effort measures and total reported landings. Total landings and effort are also available *by port* back to 1915 or 1916. They are not included in this report, but are available on the New Zealand National Library's 'AtoJsOnline' website <http://atojs.natlib.govt.nz/cgi-bin/atojs>.

Figure A1 shows total New Zealand landings from 1915, classified by fishing method from 1936. Landings increased from about 10 000 t in the 1910s to about 15 000 t by 1923, and then remained stable at that level until the late 1930s.

Although the earliest landings were not recorded by method, the fleet was dominated by line and net vessels before 1931, followed by trawlers and Danish seiners (Figure A2). The number of vessels increased considerably from 1916 to 1935 for all methods except steam trawling. These patterns and trends in fishing method and effort would have affected the species composition of the landings.

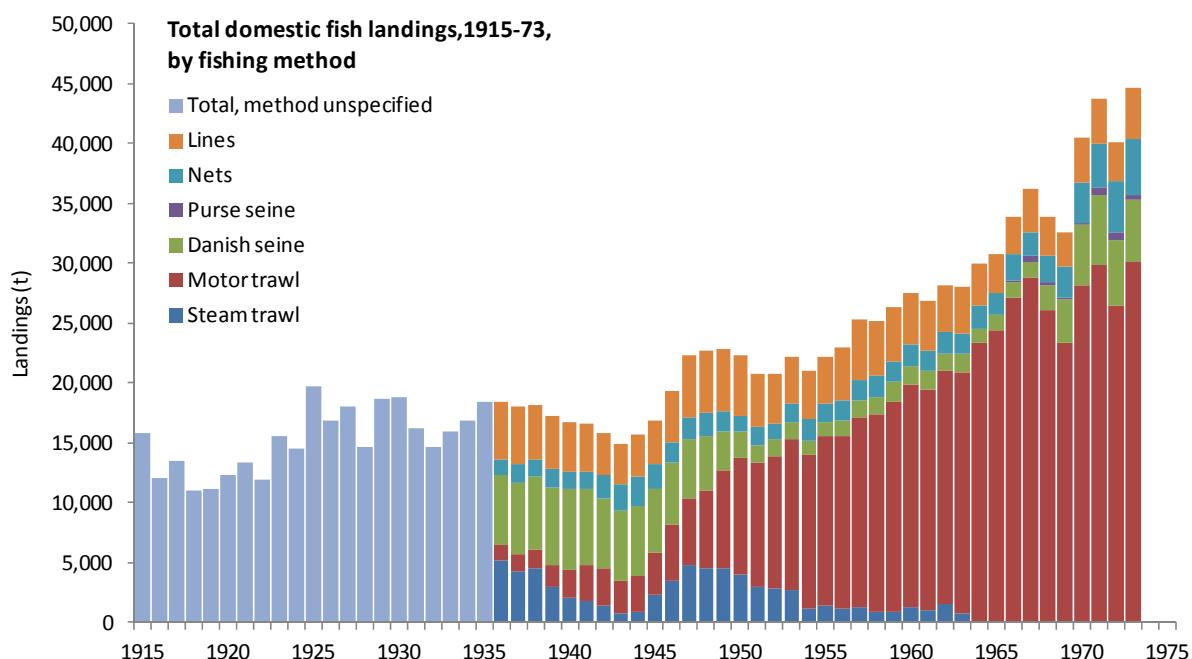


Figure A1. Total New Zealand domestic fish landings 1915–73, classified by fishing method from 1936.

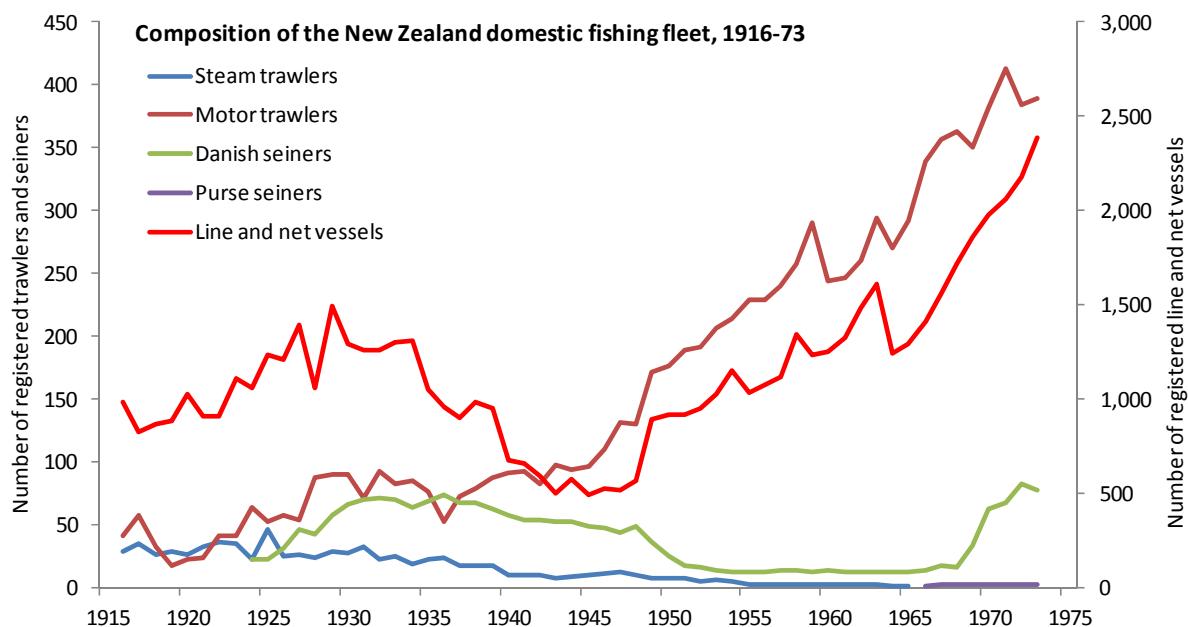


Figure A2. Composition of the New Zealand domestic fishing fleet, 1916–73. The numbers of line and net vessels (combined in the ARs) are plotted to the right-hand axis. The values are for the total number of registered fishing vessels, comprising full-time, part-time, and vessels not fishing. Full- and part-time vessels were recorded separately in the ARs, but the criteria distinguishing them were not specified in the early years, and varied in later years.

The earliest records of fish landings were made by Fisheries Inspectors based on information provided to them by fishing vessel owners and by fish markets and other dealers, sometimes apparently on an annual basis. Records were first kept and provided monthly directly by vessel owners in 1936, and the system appears to have improved in the years preceding the Second World War through implementation of the Industrial Efficiency Act 1936 which gave the government more regulatory power.

Trends in total fish landings and ‘effort’ were similar up to the mid 1930s (Figure A3), suggesting that the former, although probably estimated in many cases, were not grossly under-reported. The slightly greater rise in the number of fishermen is probably explained by an increase in larger vessels (Danish seiners and trawlers) that required more crew.

In summary, while landings by species are not available prior to 1931, and were unreliable (under-reported, with a large ‘mixed’ category) until 1937, total recorded fish landings appear moderately reliable back to 1915. Comments on the inadequacies of the fisheries statistics made in the ARs from the mid 1920s to the mid 1930s apply mainly to the absence of comprehensive method- and species-specific data, and few effort data, rather than to total landings. An estimate of the landings of some common inshore species by FMA back to 1915 should be possible where supporting information on a regional fishery is available. There are few published sources of information on early fisheries, but a useful starting point is Johnson (2004).

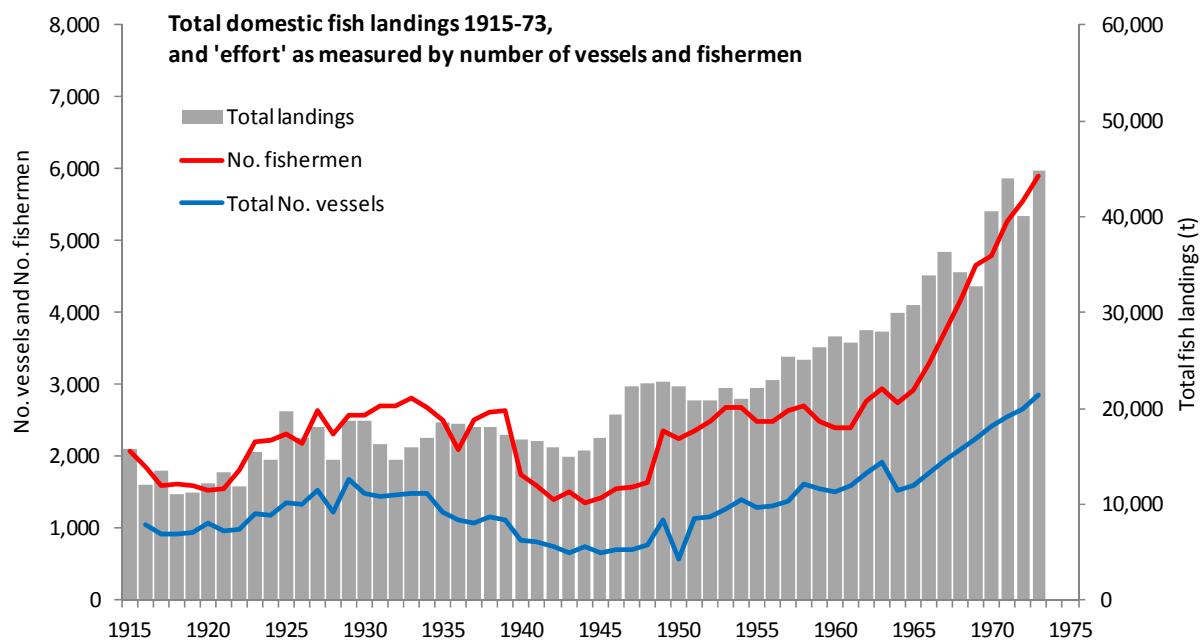


Figure A3. Trends in total domestic fish landings 1915–73, and in fishing effort as measured by the number of registered fishing vessels and fishers.

APPENDIX 2: PERCENTAGES OF INSHORE FINFISH PORT LANDINGS BY SPECIES ASSIGNED TO FISHERIES MANAGEMENT AREAS (FMA)

Some small sporadically listed ports were combined with adjacent ports and are not listed below.

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9
Barracouta	Akaroa	0	0	100	0	0	0	0	0	0	Blue mackerel	Akaroa	0	0	100	0	0	0	0	0	0
Barracouta	Auckland	90	0	0	0	0	0	0	0	10	Blue mackerel	Auckland	100	0	0	0	0	0	0	0	0
Barracouta	Bay.of.Islands	100	0	0	0	0	0	0	0	0	Blue mackerel	Bay.of.Islands	100	0	0	0	0	0	0	0	0
Barracouta	Bluff	0	0	10	0	90	0	0	0	0	Blue mackerel	Bluff	0	0	10	0	90	0	0	0	0
Barracouta	Castlepoint	0	100	0	0	0	0	0	0	0	Blue mackerel	Castlepoint	0	100	0	0	0	0	0	0	0
Barracouta	Chatham.Is	0	0	0	100	0	0	0	0	0	Blue mackerel	Chatham.Is	0	0	0	100	0	0	0	0	0
Barracouta	Coromandel	100	0	0	0	0	0	0	0	0	Blue mackerel	Coromandel	100	0	0	0	0	0	0	0	0
Barracouta	Dunedin	0	0	70	0	30	0	0	0	0	Blue mackerel	Dunedin	0	0	90	0	10	0	0	0	0
Barracouta	Gisborne	20	80	0	0	0	0	0	0	0	Blue mackerel	Gisborne	20	80	0	0	0	0	0	0	0
Barracouta	Greymouth	0	0	0	0	0	100	0	0	0	Blue mackerel	Greymouth	0	0	0	0	0	0	0	100	0
Barracouta	Hokianga	0	0	0	0	0	0	0	0	100	Blue mackerel	Hokianga	0	0	0	0	0	0	0	0	100
Barracouta	Horowhenua	0	20	0	0	0	0	80	0	0	Blue mackerel	Horowhenua	0	0	0	0	0	0	0	0	100
Barracouta	Kaikoura	0	0	100	0	0	0	0	0	0	Blue mackerel	Kaikoura	0	0	100	0	0	0	0	0	0
Barracouta	Kaipara	0	0	0	0	0	0	0	0	100	Blue mackerel	Kaipara	0	0	0	0	0	0	0	0	100
Barracouta	Karitane	0	0	100	0	0	0	0	0	0	Blue mackerel	Karitane	0	0	100	0	0	0	0	0	0
Barracouta	Kawhia	0	0	0	0	0	0	0	0	100	Blue mackerel	Kawhia	0	0	0	0	0	0	0	0	100
Barracouta	Lake Ellesmere	0	0	100	0	0	0	0	0	0	Blue mackerel	Lake Ellesmere	0	0	100	0	0	0	0	0	0
Barracouta	Lytton	0	0	90	0	10	0	0	0	0	Blue mackerel	Lytton	0	0	100	0	0	0	0	0	0
Barracouta	Manawatu	0	0	0	0	0	0	0	100	0	Blue mackerel	Manawatu	0	0	0	0	0	0	0	0	100
Barracouta	Mangonui	100	0	0	0	0	0	0	0	0	Blue mackerel	Mangonui	100	0	0	0	0	0	0	0	0
Barracouta	Manukau	0	0	0	0	0	0	0	0	100	Blue mackerel	Manukau	0	0	0	0	0	0	0	0	100
Barracouta	Marlborough	0	0	10	0	0	90	0	0	0	Blue mackerel	Marlborough	0	0	0	0	0	0	0	100	0
Barracouta	Mercury.Bay	100	0	0	0	0	0	0	0	0	Blue mackerel	Mercury.Bay	100	0	0	0	0	0	0	0	0
Barracouta	Milford.Sd	0	0	0	0	100	0	0	0	0	Blue mackerel	Milford.Sd	0	0	0	0	0	0	0	0	0
Barracouta	Moeraki	0	0	100	0	0	0	0	0	0	Blue mackerel	Moeraki	0	0	100	0	0	0	0	0	0
Barracouta	Napier	10	90	0	0	0	0	0	0	0	Blue mackerel	Napier	10	90	0	0	0	0	0	0	0
Barracouta	Nelson	0	0	20	0	0	70	10	0	0	Blue mackerel	Nelson	0	0	0	0	0	0	80	20	0
Barracouta	New.Plymouth	0	0	0	0	0	0	40	60	0	Blue mackerel	New.Plymouth	0	0	0	0	0	0	10	70	20
Barracouta	Nuggets	0	0	80	0	20	0	0	0	0	Blue mackerel	Nuggets	0	0	100	0	0	0	0	0	0
Barracouta	Oamaru	0	0	90	0	10	0	0	0	0	Blue mackerel	Oamaru	0	0	100	0	0	0	0	0	0
Barracouta	Riverton	0	0	0	0	100	0	0	0	0	Blue mackerel	Riverton	0	0	0	0	0	0	100	0	0
Barracouta	Taieri	0	0	80	0	20	0	0	0	0	Blue mackerel	Taieri	0	0	100	0	0	0	0	0	0
Barracouta	Tauranga	100	0	0	0	0	0	0	0	0	Blue mackerel	Tauranga	100	0	0	0	0	0	0	0	0
Barracouta	Thames	100	0	0	0	0	0	0	0	0	Blue mackerel	Thames	100	0	0	0	0	0	0	0	0
Barracouta	Timaru	0	0	90	0	10	0	0	0	0	Blue mackerel	Timaru	0	0	100	0	0	0	0	0	0
Barracouta	Waikawa	0	0	10	0	90	0	0	0	0	Blue mackerel	Waikawa	0	0	0	0	0	0	100	0	0
Barracouta	Wellington	0	40	0	0	0	20	40	0	0	Blue mackerel	Wellington	0	70	0	0	0	0	10	20	0
Barracouta	Westport	0	0	0	0	0	100	0	0	0	Blue mackerel	Westport	0	0	0	0	0	0	100	0	0
Barracouta	Whakatane	100	0	0	0	0	0	0	0	0	Blue mackerel	Whakatane	100	0	0	0	0	0	0	0	0
Barracouta	Whangarei	100	0	0	0	0	0	0	0	0	Blue mackerel	Whangarei	100	0	0	0	0	0	0	0	0
Barracouta	Whangaroa	100	0	0	0	0	0	0	0	0	Blue mackerel	Whangaroa	100	0	0	0	0	0	0	0	0
Blue cod	Akaroa	0	0	100	0	0	0	0	0	0	Blue maomao	Akaroa	0	0	100	0	0	0	0	0	0
Blue cod	Auckland	100	0	0	0	0	0	0	0	0	Blue maomao	Auckland	100	0	0	0	0	0	0	0	0
Blue cod	Bay.of.Islands	100	0	0	0	0	0	0	0	0	Blue maomao	Bay.of.Islands	100	0	0	0	0	0	0	0	0
Blue cod	Bluff	0	0	0	0	100	0	0	0	0	Blue maomao	Bluff	0	0	0	0	0	0	0	0	0
Blue cod	Castlepoint	0	100	0	0	0	0	0	0	0	Blue maomao	Castlepoint	0	100	0	0	0	0	0	0	0
Blue cod	Chatham.Is	0	0	0	100	0	0	0	0	0	Blue maomao	Chatham.Is	0	0	0	100	0	0	0	0	0
Blue cod	Coromandel	100	0	0	0	0	0	0	0	0	Blue maomao	Coromandel	100	0	0	0	0	0	0	0	0
Blue cod	Dunedin	0	0	60	0	40	0	0	0	0	Blue maomao	Dunedin	0	0	100	0	0	0	0	0	0
Blue cod	Gisborne	0	100	0	0	0	0	0	0	0	Blue maomao	Gisborne	50	50	0	0	0	0	0	0	0
Blue cod	Greymouth	0	0	0	0	100	0	0	0	0	Blue maomao	Greymouth	0	0	0	0	0	0	0	100	0
Blue cod	Hokianga	0	0	0	0	0	0	0	100	0	Blue maomao	Hokianga	0	0	0	0	0	0	0	0	100
Blue cod	Horowhenua	0	0	0	0	0	0	0	100	0	Blue maomao	Horowhenua	0	0	0	0	0	0	0	0	100
Blue cod	Kaipara	0	0	100	0	0	0	0	0	0	Blue maomao	Kaipara	0	0	100	0	0	0	0	0	0
Blue cod	Karitane	0	0	80	0	20	0	0	0	0	Blue maomao	Karitane	0	0	100	0	0	0	0	0	0
Blue cod	Kawhia	0	0	0	0	0	0	0	0	100	Blue maomao	Kawhia	0	0	0	0	0	0	0	0	100
Blue cod	Lake Ellesmere	0	0	100	0	0	0	0	0	0	Blue maomao	Lake Ellesmere	0	0	100	0	0	0	0	0	0
Blue cod	Lytton	0	0	100	0	0	0	0	0	0	Blue maomao	Lytton	0	0	100	0	0	0	0	0	0
Blue cod	Manawatu	0	0	0	0	0	0	0	100	0	Blue maomao	Manawatu	0	0	0	0	0	0	0	0	100
Blue cod	Mangonui	100	0	0	0	0	0	0	0	0	Blue maomao	Mangonui	100	0	0	0	0	0	0	0	0
Blue cod	Manukau	0	0	0	0	0	0	0	0	100	Blue maomao	Manukau	0	0	0	0	0	0	0	0	100
Blue cod	Marlborough	0	0	0	0	0	0	100	0	0	Blue maomao	Marlborough	0	0	0	0	0	0	0	0	100
Blue cod	Mercury.Bay	100	0	0	0	0	0	0	0	0	Blue maomao	Mercury.Bay	100	0	0	0	0	0	0	0	0
Blue cod	Milford.Sd	0	0	0	0	0	100	0	0	0	Blue maomao	Milford.Sd	0	0	0	0	0	0	0	0	0
Blue cod	Moeraki	0	0	90	0	10	0	0	0	0	Blue maomao	Moeraki	0	0	100	0	0	0	0	0	0
Blue cod	Napier	0	100	0	0	0	0	0	0	0	Blue maomao	Napier	50	50	0	0	0	0	0	0	0
Blue cod	Nelson	0	0	0	0	0	0	100	0	0	Blue maomao	Nelson	0	10	0	0	0	0	60	30	0
Blue cod	New.Plymouth	0	0	0	0	0	0	0	100	0	Blue maomao	New.Plymouth	0	0	0	0	0	0	0	40	60
Blue cod	Nuggets	0	0	50	0	50	0	0	0	0	Blue maomao	Nuggets	0	0	100	0	0	0	0	0	0
Blue cod	Oamaru	0	0	90	0	10	0	0	0	0	Blue maomao	Oamaru	0	0	100	0	0	0	0	0	0
Blue cod	Riverton	0	0	0	0	100	0	0	0	0	Blue maomao										

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9
Blue moki	Akaroa	0	0	100	0	0	0	0	0	Bluenose	Akaroa	0	0	100	0	0	0	0	0
Blue moki	Auckland	100	0	0	0	0	0	0	0	Bluenose	Auckland	100	0	0	0	0	0	0	0
Blue moki	Bay.of.Islands	100	0	0	0	0	0	0	0	Bluenose	Bay.of.Islands	90	0	0	0	0	0	0	10
Blue moki	Bluff	0	0	0	10	0	90	0	0	Bluenose	Bluff	0	0	0	0	100	0	0	0
Blue moki	Castlepoint	0	100	0	0	0	0	0	0	Bluenose	Castlepoint	0	100	0	0	0	0	0	0
Blue moki	Chatham.Is	0	0	0	100	0	0	0	0	Bluenose	Chatham.Is	0	0	0	100	0	0	0	0
Blue moki	Coromandel	100	0	0	0	0	0	0	0	Bluenose	Coromandel	100	0	0	0	0	0	0	0
Blue moki	Dunedin	0	0	90	0	10	0	0	0	Bluenose	Dunedin	0	0	60	0	40	0	0	0
Blue moki	Gisborne	0	100	0	0	0	0	0	0	Bluenose	Gisborne	10	90	0	0	0	0	0	0
Blue moki	Greymouth	0	0	0	0	0	100	0	0	Bluenose	Greymouth	0	0	0	0	0	100	0	0
Blue moki	Hokianga	0	0	0	0	0	0	0	100	Bluenose	Hokianga	0	0	0	0	0	0	0	100
Blue moki	Horowhenua	0	0	0	0	0	0	100	0	Bluenose	Horowhenua	0	0	0	0	0	0	0	100
Blue moki	Kaikoura	0	10	80	0	0	10	0	0	Bluenose	Kaikoura	0	10	80	0	0	10	0	0
Blue moki	Kaipara	0	0	0	0	0	0	0	100	Bluenose	Kaipara	0	0	0	0	0	0	0	100
Blue moki	Karitane	0	0	100	0	0	0	0	0	Bluenose	Karitane	0	0	80	0	20	0	0	0
Blue moki	Kawhia	0	0	0	0	0	0	0	100	Bluenose	Kawhia	0	0	0	0	0	0	10	90
Blue moki	Lake.Ellsmere	0	0	100	0	0	0	0	0	Bluenose	Lake.Ellsmere	0	0	100	0	0	0	0	0
Blue moki	Lytton	0	0	100	0	0	0	0	0	Bluenose	Lytton	0	0	100	0	0	0	0	0
Blue moki	Manawatu	0	0	0	0	0	0	100	0	Bluenose	Manawatu	0	0	0	0	0	0	0	100
Blue moki	Mangonui	100	0	0	0	0	0	0	0	Bluenose	Mangonui	80	0	0	0	0	0	0	20
Blue moki	Manukau	0	0	0	0	0	0	0	100	Bluenose	Manukau	0	0	0	0	0	0	0	100
Blue moki	Marlborough	0	0	0	0	0	0	100	0	Bluenose	Marlborough	0	20	0	0	0	80	0	0
Blue moki	Mercury.Bay	100	0	0	0	0	0	0	0	Bluenose	Mercury.Bay	100	0	0	0	0	0	0	0
Blue moki	Milford.Sd	0	0	0	0	0	100	0	0	Bluenose	Milford.Sd	0	0	0	0	100	0	0	0
Blue moki	Moeraki	0	0	100	0	0	0	0	0	Bluenose	Moeraki	0	0	90	0	10	0	0	0
Blue moki	Napier	0	100	0	0	0	0	0	0	Bluenose	Napier	0	100	0	0	0	0	0	0
Blue moki	Nelson	0	10	0	0	0	90	0	0	Bluenose	Nelson	0	10	0	0	0	90	0	0
Blue moki	New.Plymouth	0	0	0	0	0	0	0	100	0	Bluenose	New.Plymouth	0	0	0	0	0	60	40
Blue moki	Nuggets	0	0	100	0	0	0	0	0	Bluenose	Nuggets	0	0	50	0	50	0	0	0
Blue moki	Oamaru	0	0	100	0	0	0	0	0	Bluenose	Oamaru	0	0	90	0	10	0	0	0
Blue moki	Riverton	0	0	0	0	100	0	0	0	Bluenose	Riverton	0	0	0	0	100	0	0	0
Blue moki	Taiheri	0	0	100	0	0	0	0	0	Bluenose	Taiheri	0	0	60	0	40	0	0	0
Blue moki	Tauranga	10	90	0	0	0	0	0	0	Bluenose	Tauranga	100	0	0	0	0	0	0	0
Blue moki	Thames	100	0	0	0	0	0	0	0	Bluenose	Thames	100	0	0	0	0	0	0	0
Blue moki	Timaru	0	0	100	0	0	0	0	0	Bluenose	Timaru	0	0	100	0	0	0	0	0
Blue moki	Waikawa	0	0	0	0	0	100	0	0	Bluenose	Waikawa	0	0	0	0	100	0	0	0
Blue moki	Wellington	0	80	0	0	0	10	10	0	Bluenose	Wellington	0	70	0	0	0	20	10	0
Blue moki	Westport	0	0	0	0	0	0	100	0	Bluenose	Westport	0	0	0	0	0	100	0	0
Blue moki	Whakatane	100	0	0	0	0	0	0	0	Bluenose	Whakatane	100	0	0	0	0	0	0	0
Blue moki	Whangarei	100	0	0	0	0	0	0	0	Bluenose	Whangarei	100	0	0	0	0	0	0	0
Blue moki	Whangaroa	100	0	0	0	0	0	0	0	Bluenose	Whangaroa	90	0	0	0	0	0	0	10
Blue warehou	Akaroa	0	0	100	0	0	0	0	0	Butterfish	Akaroa	0	0	100	0	0	0	0	0
Blue warehou	Auckland	100	0	0	0	0	0	0	0	Butterfish	Auckland	100	0	0	0	0	0	0	0
Blue warehou	Bay.of.Islands	100	0	0	0	0	0	0	0	Butterfish	Bay.of.Islands	100	0	0	0	0	0	0	0
Blue warehou	Bluff	0	0	0	0	10	90	0	0	Butterfish	Bluff	0	0	0	0	100	0	0	0
Blue warehou	Castlepoint	0	100	0	0	0	0	0	0	Butterfish	Castlepoint	0	100	0	0	0	0	0	0
Blue warehou	Chatham.Is	0	0	0	100	0	0	0	0	Butterfish	Chatham.Is	0	0	0	100	0	0	0	0
Blue warehou	Coromandel	100	0	0	0	0	0	0	0	Butterfish	Coromandel	100	0	0	0	0	0	0	0
Blue warehou	Dunedin	0	0	90	0	10	0	0	0	Butterfish	Dunedin	0	0	100	0	0	0	0	0
Blue warehou	Gisborne	0	100	0	0	0	0	0	0	Butterfish	Gisborne	0	100	0	0	0	0	0	0
Blue warehou	Greymouth	0	0	0	0	0	0	100	0	Butterfish	Greymouth	0	0	0	0	0	100	0	0
Blue warehou	Hokianga	0	0	0	0	0	0	0	100	Butterfish	Hokianga	0	0	0	0	0	0	0	100
Blue warehou	Horowhenua	0	0	0	0	0	0	0	100	Butterfish	Horowhenua	0	0	0	0	0	0	0	100
Blue warehou	Kaikoura	0	0	100	0	0	0	0	0	Butterfish	Kaikoura	0	0	100	0	0	0	0	0
Blue warehou	Kaipara	0	0	0	0	0	0	0	100	Butterfish	Kaipara	0	0	0	0	0	0	0	100
Blue warehou	Karitane	0	0	100	0	0	0	0	0	Butterfish	Karitane	0	0	100	0	0	0	0	0
Blue warehou	Kawhia	0	0	0	0	0	0	0	100	Butterfish	Kawhia	0	0	0	0	0	0	0	100
Blue warehou	Lake.Ellsmere	0	0	100	0	0	0	0	0	Butterfish	Lake.Ellsmere	0	0	100	0	0	0	0	0
Blue warehou	Lytton	0	0	90	0	10	0	0	0	Butterfish	Lytton	0	0	100	0	0	0	0	0
Blue warehou	Manawatu	0	0	0	0	0	0	100	0	Butterfish	Manawatu	0	0	0	0	0	0	0	100
Blue warehou	Mangonui	100	0	0	0	0	0	0	0	Butterfish	Mangonui	100	0	0	0	0	0	0	0
Blue warehou	Manukau	0	0	0	0	0	0	0	100	Butterfish	Manukau	0	0	0	0	0	0	0	100
Blue warehou	Marlborough	0	0	0	0	0	0	100	0	Butterfish	Marlborough	0	0	0	0	0	100	0	0
Blue warehou	Mercury.Bay	100	0	0	0	0	0	0	0	Butterfish	Mercury.Bay	100	0	0	0	0	0	0	0
Blue warehou	Milford.Sd	0	0	0	0	0	100	0	0	Butterfish	Milford.Sd	0	0	0	0	0	100	0	0
Blue warehou	Moeraki	0	0	100	0	0	0	0	0	Butterfish	Moeraki	0	0	100	0	0	0	0	0
Blue warehou	Napier	0	100	0	0	0	0	0	0	Butterfish	Napier	0	100	0	0	0	0	0	0
Blue warehou	Nelson	0	10	10	0	0	80	0	0	Butterfish	Nelson	0	0	0	0	0	100	0	0
Blue warehou	New.Plymouth	0	0	0	0	0	0	80	20	Butterfish	New.Plymouth	0	0	0	0	0	0	0	100
Blue warehou	Nuggets	0	0	90	0	10	0	0	0	Butterfish	Nuggets	0	0	100	0	0	0	0	0
Blue warehou	Oamaru	0	0	90	0	10	0	0	0	Butterfish	Oamaru	0	0	100	0	0	0	0	0
Blue warehou	Riverton	0	0	0	0	0	100	0	0	Butterfish	Riverton	0	0	0	0	0	100	0	0
Blue warehou	Taiheri	0	0	90	0	10	0	0	0	Butterfish	Taiheri	0	0	100	0	0	0	0	0
Blue warehou	Tauranga	100	0	0	0	0	0	0	0	Butterfish	Tauranga	100	0	0	0	0	0	0	0
Blue warehou	Thames	100	0	0	0	0	0	0	0	Butterfish	Thames	100	0	0	0	0	0	0	0
Blue warehou	Timaru	0	0	90	0	10	0	0	0	Butterfish	Timaru	0	0	100	0	0	0	0	0
Blue warehou	Waikawa	0	0	0	0	0	100	0	0	Butterfish	Waikawa	0	0	0	0	0	100	0	0
Blue warehou	Wellington	0	80	0	0	0	10	10	0	Butterfish	Wellington	0	100	0	0	0	0	0	0
Blue warehou	Westport	0	0	0	0	0	0	100											

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9
Conger eel	Akaroa	0	0	100	0	0	0	0	0	Flatfish	Akaroa	0	0	100	0	0	0	0	0
Conger eel	Auckland	100	0	0	0	0	0	0	0	Flatfish	Auckland	100	0	0	0	0	0	0	0
Conger eel	Bay.of.Islands	100	0	0	0	0	0	0	0	Flatfish	Bay.of.Islands	100	0	0	0	0	0	0	0
Conger eel	Bluff	0	0	0	0	0	100	0	0	Flatfish	Bluff	0	0	10	0	90	0	0	0
Conger eel	Castlepoint	0	100	0	0	0	0	0	0	Flatfish	Castlepoint	0	100	0	0	0	0	0	0
Conger eel	Chatham.Is	0	0	0	100	0	0	0	0	Flatfish	Chatham.Is	0	0	0	100	0	0	0	0
Conger eel	Coromandel	100	0	0	0	0	0	0	0	Flatfish	Coromandel	100	0	0	0	0	0	0	0
Conger eel	Dunedin	0	0	70	0	30	0	0	0	Flatfish	Dunedin	0	0	90	0	10	0	0	0
Conger eel	Gisborne	10	90	0	0	0	0	0	0	Flatfish	Gisborne	0	100	0	0	0	0	0	0
Conger eel	Greymouth	0	0	0	0	0	0	100	0	Flatfish	Greymouth	0	0	0	0	0	100	0	0
Conger eel	Hokianga	0	0	0	0	0	0	0	100	Flatfish	Hokianga	0	0	0	0	0	0	0	100
Conger eel	Horowhenua	0	0	0	0	0	0	0	100	Flatfish	Horowhenua	0	0	0	0	0	0	0	100
Conger eel	Kaikoura	0	10	80	0	0	10	0	0	Flatfish	Kaikoura	0	0	100	0	0	0	0	0
Conger eel	Kaipara	0	0	0	0	0	0	0	100	Flatfish	Kaipara	0	0	0	0	0	0	0	100
Conger eel	Karitane	0	0	90	0	10	0	0	0	Flatfish	Karitane	0	0	100	0	0	0	0	0
Conger eel	Kawhia	0	0	0	0	0	0	10	90	Flatfish	Kawhia	0	0	0	0	0	0	0	100
Conger eel	Lake.Ellsmere	0	0	100	0	0	0	0	0	Flatfish	Lake.Ellsmere	0	0	100	0	0	0	0	0
Conger eel	Lyttelton	0	0	100	0	0	0	0	0	Flatfish	Lyttelton	0	0	100	0	0	0	0	0
Conger eel	Manawatu	0	0	0	0	0	0	0	100	Flatfish	Manawatu	0	0	0	0	0	0	0	100
Conger eel	Mangonui	90	0	0	0	0	0	0	10	Flatfish	Mangonui	100	0	0	0	0	0	0	0
Conger eel	Manukau	0	0	0	0	0	0	0	100	Flatfish	Manukau	0	0	0	0	0	0	0	100
Conger eel	Marlborough	0	10	0	0	0	0	90	0	Flatfish	Marlborough	0	0	0	0	0	100	0	0
Conger eel	Mercury.Bay	100	0	0	0	0	0	0	0	Flatfish	Mercury.Bay	100	0	0	0	0	0	0	0
Conger eel	Milford.Sd	0	0	0	0	0	100	0	0	Flatfish	Milford.Sd	0	0	0	0	0	100	0	0
Conger eel	Moeraki	0	0	90	0	10	0	0	0	Flatfish	Moeraki	0	0	100	0	0	0	0	0
Conger eel	Napier	0	100	0	0	0	0	0	0	Flatfish	Napier	0	100	0	0	0	0	0	0
Conger eel	Nelson	0	10	0	0	0	0	90	0	Flatfish	Nelson	0	0	10	0	0	90	0	0
Conger eel	New.Plymouth	0	0	0	0	0	0	70	30	Flatfish	New.Plymouth	0	0	0	0	0	0	100	0
Conger eel	Nuggets	0	0	60	0	40	0	0	0	Flatfish	Nuggets	0	0	100	0	0	0	0	0
Conger eel	Oamaru	0	0	90	0	10	0	0	0	Flatfish	Oamaru	0	0	100	0	0	0	0	0
Conger eel	Riverton	0	0	0	0	100	0	0	0	Flatfish	Riverton	0	0	0	0	100	0	0	0
Conger eel	Taiari	0	0	70	0	30	0	0	0	Flatfish	Taiari	0	0	100	0	0	0	0	0
Conger eel	Tauranga	100	0	0	0	0	0	0	0	Flatfish	Tauranga	100	0	0	0	0	0	0	0
Conger eel	Thames	100	0	0	0	0	0	0	0	Flatfish	Thames	100	0	0	0	0	0	0	0
Conger eel	Timaru	0	0	100	0	0	0	0	0	Flatfish	Timaru	0	0	100	0	0	0	0	0
Conger eel	Waikawa	0	0	0	0	100	0	0	0	Flatfish	Waikawa	0	0	0	0	100	0	0	0
Conger eel	Wellington	0	70	0	0	20	10	0	0	Flatfish	Wellington	0	70	10	0	0	10	10	0
Conger eel	Westport	0	0	0	0	0	0	100	0	Flatfish	Westport	0	0	0	0	0	0	100	0
Conger eel	Whakatane	100	0	0	0	0	0	0	0	Flatfish	Whakatane	100	0	0	0	0	0	0	0
Conger eel	Whangarei	100	0	0	0	0	0	0	0	Flatfish	Whangarei	100	0	0	0	0	0	0	0
Conger eel	Whangaroa	100	0	0	0	0	0	0	0	Flatfish	Whangaroa	100	0	0	0	0	0	0	0
Elephantfish	Akaroa	0	0	100	0	0	0	0	0	Frostfish	Akaroa	0	0	100	0	0	0	0	0
Elephantfish	Auckland	100	0	0	0	0	0	0	0	Frostfish	Auckland	80	0	0	0	0	0	0	20
Elephantfish	Bay.of.Islands	100	0	0	0	0	0	0	0	Frostfish	Bay.of.Islands	100	0	0	0	0	0	0	0
Elephantfish	Bluff	0	0	20	0	80	0	0	0	Frostfish	Bluff	0	0	20	0	80	0	0	0
Elephantfish	Castlepoint	0	100	0	0	0	0	0	0	Frostfish	Castlepoint	0	100	0	0	0	0	0	0
Elephantfish	Chatham.Is	0	0	0	100	0	0	0	0	Frostfish	Chatham.Is	0	0	0	100	0	0	0	0
Elephantfish	Coromandel	100	0	0	0	0	0	0	0	Frostfish	Coromandel	100	0	0	0	0	0	0	0
Elephantfish	Dunedin	0	0	70	0	30	0	0	0	Frostfish	Dunedin	0	0	80	0	20	0	0	0
Elephantfish	Gisborne	0	100	0	0	0	0	0	0	Frostfish	Gisborne	10	90	0	0	0	0	0	0
Elephantfish	Greymouth	0	0	0	0	0	100	0	0	Frostfish	Greymouth	0	0	0	0	0	100	0	0
Elephantfish	Hokianga	0	0	0	0	0	0	0	100	Frostfish	Hokianga	0	0	0	0	0	0	0	100
Elephantfish	Horowhenua	0	0	0	0	0	0	0	100	Frostfish	Horowhenua	0	0	0	0	0	0	0	100
Elephantfish	Kaikoura	0	0	100	0	0	0	0	0	Frostfish	Kaikoura	0	0	100	0	0	0	0	0
Elephantfish	Kaipara	0	0	0	0	0	0	0	100	Frostfish	Kaipara	0	0	0	0	0	0	0	100
Elephantfish	Karitane	0	0	100	0	0	0	0	0	Frostfish	Karitane	0	0	100	0	0	0	0	0
Elephantfish	Kawhia	0	0	0	0	0	0	0	100	Frostfish	Kawhia	0	0	0	0	0	0	0	100
Elephantfish	Lake.Ellsmere	0	0	100	0	0	0	0	0	Frostfish	Lake.Ellsmere	0	0	100	0	0	0	0	0
Elephantfish	Lyttelton	0	0	100	0	0	0	0	0	Frostfish	Lyttelton	0	0	100	0	0	0	0	0
Elephantfish	Manawatu	0	0	0	0	0	0	0	100	Frostfish	Manawatu	0	0	0	0	0	0	0	100
Elephantfish	Mangonui	100	0	0	0	0	0	0	0	Frostfish	Mangonui	100	0	0	0	0	0	0	0
Elephantfish	Manukau	0	0	0	0	0	0	0	100	Frostfish	Manukau	0	0	0	0	0	0	0	100
Elephantfish	Marlborough	0	0	0	0	0	0	100	0	Frostfish	Marlborough	0	0	0	0	0	0	0	0
Elephantfish	Mercury.Bay	100	0	0	0	0	0	0	0	Frostfish	Mercury.Bay	100	0	0	0	0	0	0	0
Elephantfish	Milford.Sd	0	0	0	0	0	100	0	0	Frostfish	Milford.Sd	0	0	0	0	0	100	0	0
Elephantfish	Moeraki	0	0	100	0	0	0	0	0	Frostfish	Moeraki	0	0	100	0	0	0	0	0
Elephantfish	Napier	0	100	0	0	0	0	0	0	Frostfish	Napier	0	100	0	0	0	0	0	0
Elephantfish	Nelson	0	0	30	0	0	70	0	0	Frostfish	Nelson	0	10	0	0	0	80	10	0
Elephantfish	New.Plymouth	0	0	0	0	0	0	0	100	Frostfish	New.Plymouth	0	0	0	0	0	0	50	50
Elephantfish	Nuggets	0	0	100	0	0	0	0	0	Frostfish	Nuggets	0	0	100	0	0	0	0	0
Elephantfish	Oamaru	0	0	100	0	0	0	0	0	Frostfish	Oamaru	0	0	100	0	0	0	0	0
Elephantfish	Riverton	0	0	0	0	0	100	0	0	Frostfish	Riverton	0	0	0	0	0	100	0	0
Elephantfish	Taiari	0	0	100	0	0	0	0	0	Frostfish	Taiari	0	0	100	0	0	0	0	0
Elephantfish	Tauranga	100	0	0	0	0	0	0	0	Frostfish	Tauranga	100	0	0	0	0	0	0	0
Elephantfish	Thames	100	0	0	0	0	0	0	0	Frostfish	Thames	100	0	0	0	0	0	0	0
Elephantfish	Timaru	0	0	100	0	0	0	0	0	Frostfish	Timaru	0	0	100	0	0	0	0	0
Elephantfish	Waikawa	0	0	0	0	0	100	0	0	Frostfish	Waikawa	0	0	20	0	80	0	0	0
Elephantfish	Wellington	0	30	40	0	0	30	0	0	Frostfish	Wellington	0	70	0	0	0	20	10	0
Elephantfish	Westport	0	0	0	0	0	0	100	0	Frostfish	Westport	0	0	0					

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	
Garfish	Akaroa	0	0	100	0	0	0	0	0	Ghost sharks	Akaroa	0	0	100	0	0	0	0	0	
Garfish	Auckland	100	0	0	0	0	0	0	0	Ghost sharks	Auckland	80	0	0	0	0	0	0	20	
Garfish	Bay.of.Islands	100	0	0	0	0	0	0	0	Ghost sharks	Bay.of.Islands	100	0	0	0	0	0	0	0	
Garfish	Bluff	0	0	0	0	0	100	0	0	Ghost sharks	Bluff	0	0	10	0	90	0	0	0	
Garfish	Castlepoint	0	100	0	0	0	0	0	0	Ghost sharks	Castlepoint	0	100	0	0	0	0	0	0	
Garfish	Chatham.Is	0	0	0	0	100	0	0	0	Ghost sharks	Chatham.Is	0	0	0	100	0	0	0	0	
Garfish	Coromandel	100	0	0	0	0	0	0	0	Ghost sharks	Coromandel	100	0	0	0	0	0	0	0	
Garfish	Dunedin	0	0	100	0	0	0	0	0	Ghost sharks	Dunedin	0	0	70	0	30	0	0	0	
Garfish	Gisborne	0	100	0	0	0	0	0	0	Ghost sharks	Gisborne	0	80	0	0	0	0	20	0	
Garfish	Greymouth	0	0	0	0	0	0	100	0	Ghost sharks	Greymouth	0	0	0	0	0	100	0	0	
Garfish	Hokianga	0	0	0	0	0	0	0	100	Ghost sharks	Hokianga	0	0	0	0	0	0	0	100	
Garfish	Horowhenua	0	0	0	0	0	0	0	100	Ghost sharks	Horowhenua	0	0	0	0	0	0	100	0	
Garfish	Kaikoura	0	0	0	100	0	0	0	0	Ghost sharks	Kaikoura	0	0	100	0	0	0	0	0	
Garfish	Kaipara	0	0	0	0	0	0	0	100	Ghost sharks	Kaipara	0	0	0	0	0	0	0	100	
Garfish	Karitane	0	0	0	100	0	0	0	0	Ghost sharks	Karitane	0	0	100	0	0	0	0	0	
Garfish	Kawhia	0	0	0	0	0	0	0	100	Ghost sharks	Kawhia	0	0	0	0	0	0	0	100	
Garfish	Lake.Ellsmere	0	0	0	100	0	0	0	0	Ghost sharks	Lake Ellsmere	0	0	100	0	0	0	0	0	
Garfish	Lytton	0	0	100	0	0	0	0	0	Ghost sharks	Lytton	0	0	90	0	10	0	0	0	
Garfish	Manawatu	0	0	0	0	0	0	100	0	Ghost sharks	Manawatu	0	0	0	0	0	0	0	90	
Garfish	Mangonui	100	0	0	0	0	0	0	0	Ghost sharks	Mangonui	100	0	0	0	0	0	0	0	
Garfish	Manukau	0	0	0	0	0	0	0	100	Ghost sharks	Manukau	0	0	0	0	0	0	0	100	
Garfish	Marlborough	0	0	0	0	0	0	100	0	Ghost sharks	Marlborough	0	0	10	0	0	0	0	0	
Garfish	Mercury.Bay	100	0	0	0	0	0	0	0	Ghost sharks	Mercury.Bay	100	0	0	0	0	0	0	0	
Garfish	Milford.Sd	0	0	0	0	0	100	0	0	Ghost sharks	Milford.Sd	0	0	0	0	100	0	0	0	
Garfish	Moeraki	0	0	100	0	0	0	0	0	Ghost sharks	Moeraki	0	0	100	0	0	0	0	0	
Garfish	Napier	0	100	0	0	0	0	0	0	Ghost sharks	Napier	0	90	0	0	0	0	10	0	
Garfish	Nelson	0	0	0	0	0	0	100	0	Ghost sharks	Nelson	0	0	20	0	0	70	0	0	
Garfish	New.Plymouth	0	0	0	0	0	0	0	100	Ghost sharks	New.Plymouth	0	0	0	0	0	0	60	40	
Garfish	Nuggets	0	0	100	0	0	0	0	0	Ghost sharks	Nuggets	0	0	80	0	20	0	0	0	
Garfish	Oamaru	0	0	100	0	0	0	0	0	Ghost sharks	Oamaru	0	0	90	0	10	0	0	0	
Garfish	Riverton	0	0	0	0	0	100	0	0	Ghost sharks	Riverton	0	0	0	0	100	0	0	0	
Garfish	Taiieri	0	0	100	0	0	0	0	0	Ghost sharks	Taiieri	0	0	80	0	20	0	0	0	
Garfish	Tauranga	100	0	0	0	0	0	0	0	Ghost sharks	Tauranga	100	0	0	0	0	0	0	0	
Garfish	Thames	100	0	0	0	0	0	0	0	Ghost sharks	Thames	100	0	0	0	0	0	0	0	
Garfish	Timaru	0	0	100	0	0	0	0	0	Ghost sharks	Timaru	0	0	90	0	10	0	0	0	
Garfish	Waikawa	0	0	0	0	0	0	0	100	Ghost sharks	Waikawa	0	0	10	0	90	0	0	0	
Garfish	Wellington	0	100	0	0	0	0	0	0	Ghost sharks	Wellington	0	40	0	0	0	0	20	40	
Garfish	Westport	0	0	0	0	0	0	100	0	Ghost sharks	Westport	0	0	0	0	0	0	100	0	
Garfish	Whakatane	100	0	0	0	0	0	0	0	Ghost sharks	Whakatane	100	0	0	0	0	0	0	0	
Garfish	Whangarei	100	0	0	0	0	0	0	0	Ghost sharks	Whangarei	90	0	0	0	0	0	0	10	
Garfish	Whangaroa	100	0	0	0	0	0	0	0	Ghost sharks	Whangaroa	100	0	0	0	0	0	0	0	
Gemfish	Akaroa	0	0	100	0	0	0	0	0	Grey mullet	Akaroa	0	0	100	0	0	0	0	0	
Gemfish	Auckland	80	0	0	0	0	0	0	20	Grey mullet	Auckland	90	0	0	0	0	0	0	10	
Gemfish	Bay.of.Islands	100	0	0	0	0	0	0	0	Grey mullet	Bay.of.Islands	100	0	0	0	0	0	0	0	
Gemfish	Bluff	0	0	10	0	0	90	0	0	Grey mullet	Bluff	0	0	0	0	100	0	0	0	
Gemfish	Castlepoint	0	100	0	0	0	0	0	0	Grey mullet	Castlepoint	0	100	0	0	0	0	0	0	
Gemfish	Chatham.Is	0	0	0	0	100	0	0	0	Grey mullet	Chatham.Is	0	0	0	100	0	0	0	0	
Gemfish	Coromandel	100	0	0	0	0	0	0	0	Grey mullet	Coromandel	100	0	0	0	0	0	0	0	
Gemfish	Dunedin	0	0	70	0	30	0	0	0	Grey mullet	Dunedin	0	0	100	0	0	0	0	0	
Gemfish	Gisborne	0	80	0	0	0	0	20	0	Grey mullet	Gisborne	0	100	0	0	0	0	0	0	
Gemfish	Greymouth	0	0	0	0	0	0	100	0	Grey mullet	Greymouth	0	0	0	0	0	100	0	0	
Gemfish	Hokianga	0	0	0	0	0	0	0	100	Grey mullet	Hokianga	0	0	0	0	0	0	0	100	
Gemfish	Horowhenua	0	0	0	0	0	0	0	100	Grey mullet	Horowhenua	0	0	0	0	0	0	0	100	
Gemfish	Kaikoura	0	0	0	100	0	0	0	0	Grey mullet	Kaikoura	0	0	100	0	0	0	0	0	
Gemfish	Kaipara	0	0	0	0	0	0	0	100	Grey mullet	Kaipara	0	0	0	0	0	0	0	100	
Gemfish	Karitane	0	0	0	100	0	0	0	0	Grey mullet	Karitane	0	0	100	0	0	0	0	0	
Gemfish	Kawhia	0	0	0	0	0	0	0	10	Grey mullet	Kawhia	0	0	0	0	0	0	0	100	
Gemfish	Lake.Ellsmere	0	0	100	0	0	0	0	0	Grey mullet	Lake.Ellsmere	0	0	100	0	0	0	0	0	
Gemfish	Lytton	0	0	90	0	10	0	0	0	Grey mullet	Lytton	0	0	100	0	0	0	0	0	
Gemfish	Manawatu	0	0	0	0	0	0	0	90	Grey mullet	Manawatu	0	0	0	0	0	0	0	100	
Gemfish	Mangonui	100	0	0	0	0	0	0	0	Grey mullet	Mangonui	100	0	0	0	0	0	0	0	
Gemfish	Manukau	0	0	0	0	0	0	0	100	Grey mullet	Manukau	0	0	0	0	0	0	0	100	
Gemfish	Marlborough	0	0	10	0	0	90	0	0	Grey mullet	Marlborough	0	0	0	0	0	0	0	0	
Gemfish	Mercury.Bay	100	0	0	0	0	0	0	0	Grey mullet	Mercury.Bay	100	0	0	0	0	0	0	0	
Gemfish	Milford.Sd	0	0	0	0	0	100	0	0	Grey mullet	Milford.Sd	0	0	0	0	100	0	0	0	
Gemfish	Moeraki	0	0	100	0	0	0	0	0	Grey mullet	Moeraki	0	0	100	0	0	0	0	0	
Gemfish	Napier	0	90	0	0	0	0	10	0	Grey mullet	Napier	0	100	0	0	0	0	0	0	
Gemfish	Nelson	0	0	20	0	0	70	10	0	Grey mullet	Nelson	0	0	0	0	0	0	100	0	
Gemfish	New.Plymouth	0	0	0	0	0	0	60	40	Grey mullet	New.Plymouth	0	0	0	0	0	0	0	100	
Gemfish	Nuggets	0	0	80	0	0	20	0	0	Grey mullet	Nuggets	0	0	100	0	0	0	0	0	
Gemfish	Oamaru	0	0	90	0	0	10	0	0	Grey mullet	Oamaru	0	0	100	0	0	0	0	0	
Gemfish	Riverton	0	0	0	0	0	100	0	0	Grey mullet	Riverton	0	0	0	0	0	0	100	0	
Gemfish	Taiieri	0	0	80	0	0	20	0	0	Grey mullet	Taiieri	0	0	100	0	0	0	0	0	
Gemfish	Tauranga	100	0	0	0	0	0	0	0	Grey mullet	Tauranga	100	0	0	0	0	0	0	0	
Gemfish	Thames	100	0	0	0	0	0	0	0	Grey mullet	Thames	100	0	0	0	0	0	0	0	
Gemfish	Timaru	0	0	90	0	0	10	0	0	Grey mullet	Timaru	0	0	100	0	0	0	0	0	
Gemfish	Waikawa	0	0	0	10	0	90	0	0	Grey mullet	Waikawa	0	0	0	0	0	0	100	0	
Gemfish	Wellington	0	40	0	0	0	0	20	40	Grey mullet	Wellington	0	100	0	0	0	0	0	0	
Gemfish	Westport	0	0	0	0	0	0	100	0	Grey mullet	Westport	0	0	0	0	0	0	0	100	
Gemfish	Whakatane	100	0	0	0	0	0	0	0	Grey mullet	Whakatane	100	0	0	0	0	0	0	0	
Gemfish	Whangarei	90	0	0	0	0	0	0	0	10	Grey mullet	Whangarei	100	0	0	0	0	0	0	0
Gemfish	Whangaroa	100	0	0	0	0	0	0	0	Grey mullet	Whangaroa	100	0	0	0	0	0	0	0	

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	
Groper	Akaroa	0	0	100	0	0	0	0	0	John dory	Akaroa	0	0	100	0	0	0	0	0	
Groper	Auckland	100	0	0	0	0	0	0	0	John dory	Auckland	90	0	0	0	0	0	0	10	
Groper	Bay.of.Islands	90	0	0	0	0	0	0	10	John dory	Bay.of.Islands	100	0	0	0	0	0	0	0	
Groper	Bluff	0	0	0	0	0	100	0	0	John dory	Bluff	0	0	0	0	100	0	0	0	
Groper	Castlepoint	0	100	0	0	0	0	0	0	John dory	Castlepoint	0	100	0	0	0	0	0	0	
Groper	Chatham.Is	0	0	0	100	0	0	0	0	John dory	Chatham.Is	0	0	0	100	0	0	0	0	
Groper	Coromandel	100	0	0	0	0	0	0	0	John dory	Coromandel	100	0	0	0	0	0	0	0	
Groper	Dunedin	0	0	60	0	40	0	0	0	John dory	Dunedin	0	0	100	0	0	0	0	0	
Groper	Gisborne	10	90	0	0	0	0	0	0	John dory	Gisborne	10	90	0	0	0	0	0	0	
Groper	Greymouth	0	0	0	0	0	0	100	0	John dory	Greymouth	0	0	0	0	0	100	0	0	
Groper	Hokianga	0	0	0	0	0	0	0	100	John dory	Hokianga	0	0	0	0	0	0	0	100	
Groper	Horowhenua	0	0	0	0	0	0	0	100	John dory	Horowhenua	0	0	0	0	0	0	0	100	
Groper	Kaikoura	0	10	80	0	0	10	0	0	John dory	Kaikoura	0	0	100	0	0	0	0	0	
Groper	Kaipara	0	0	0	0	0	0	0	100	John dory	Kaipara	0	0	0	0	0	0	0	100	
Groper	Karitane	0	0	80	0	20	0	0	0	John dory	Karitane	0	0	100	0	0	0	0	0	
Groper	Kawhia	0	0	0	0	0	0	10	90	John dory	Kawhia	0	0	0	0	0	0	10	90	
Groper	Lake.Ellsmere	0	0	100	0	0	0	0	0	John dory	Lake.Ellsmere	0	0	100	0	0	0	0	0	
Groper	Lyttelton	0	0	100	0	0	0	0	0	John dory	Lyttelton	0	0	100	0	0	0	0	0	
Groper	Manawatu	0	0	0	0	0	0	0	100	John dory	Manawatu	0	0	0	0	0	0	0	100	
Groper	Mangonui	80	0	0	0	0	0	0	20	John dory	Mangonui	100	0	0	0	0	0	0	0	
Groper	Manukau	0	0	0	0	0	0	0	100	John dory	Manukau	0	0	0	0	0	0	0	100	
Groper	Marlborough	0	20	0	0	0	80	0	0	John dory	Marlborough	0	0	0	0	0	0	100	0	
Groper	Mercury.Bay	100	0	0	0	0	0	0	0	John dory	Mercury.Bay	100	0	0	0	0	0	0	0	
Groper	Milford.Sd	0	0	0	0	0	100	0	0	John dory	Milford.Sd	0	0	0	0	0	100	0	0	
Groper	Moeraki	0	0	90	0	10	0	0	0	John dory	Moeraki	0	0	100	0	0	0	0	0	
Groper	Napier	0	100	0	0	0	0	0	0	John dory	Napier	0	100	0	0	0	0	0	0	
Groper	Nelson	0	10	0	0	90	0	0	0	John dory	Nelson	0	30	0	0	0	60	10	0	
Groper	New.Plymouth	0	0	0	0	0	60	40	0	John dory	New.Plymouth	0	0	0	0	0	50	50	0	
Groper	Nuggets	0	0	50	0	50	0	0	0	John dory	Nuggets	0	0	100	0	0	0	0	0	
Groper	Oamaru	0	0	90	0	10	0	0	0	John dory	Oamaru	0	0	100	0	0	0	0	0	
Groper	Riverton	0	0	0	0	100	0	0	0	John dory	Riverton	0	0	0	0	100	0	0	0	
Groper	Taieri	0	0	60	0	40	0	0	0	John dory	Taieri	0	0	100	0	0	0	0	0	
Groper	Tauranga	100	0	0	0	0	0	0	0	John dory	Tauranga	100	0	0	0	0	0	0	0	
Groper	Thames	100	0	0	0	0	0	0	0	John dory	Thames	100	0	0	0	0	0	0	0	
Groper	Timaru	0	0	100	0	0	0	0	0	John dory	Timaru	0	0	100	0	0	0	0	0	
Groper	Waikawa	0	0	0	0	100	0	0	0	John dory	Waikawa	0	0	0	0	100	0	0	0	
Groper	Wellington	0	70	0	0	0	20	10	0	John dory	Wellington	0	60	0	0	0	0	40	0	
Groper	Westport	0	0	0	0	0	0	100	0	John dory	Westport	0	0	0	0	0	0	100	0	
Groper	Whakatane	100	0	0	0	0	0	0	0	John dory	Whakatane	100	0	0	0	0	0	0	0	
Groper	Whangarei	100	0	0	0	0	0	0	0	John dory	Whangarei	100	0	0	0	0	0	0	0	
Groper	Whangaroa	90	0	0	0	0	0	0	10	John dory	Whangaroa	100	0	0	0	0	0	0	0	
Jack mackerels	Akaroa	0	0	100	0	0	0	0	0	Kahawai	Akaroa	0	0	100	0	0	0	0	0	
Jack mackerels	Auckland	100	0	0	0	0	0	0	0	Kahawai	Auckland	100	0	0	0	0	0	0	0	
Jack mackerels	Bay.of.Islands	100	0	0	0	0	0	0	0	Kahawai	Bay.of.Islands	100	0	0	0	0	0	0	0	
Jack mackerels	Bluff	0	0	0	10	0	90	0	0	Kahawai	Bluff	0	0	0	0	100	0	0	0	
Jack mackerels	Castlepoint	0	100	0	0	0	0	0	0	Kahawai	Castlepoint	0	100	0	0	0	0	0	0	
Jack mackerels	Chatham.Is	0	0	0	100	0	0	0	0	Kahawai	Chatham.Is	0	0	0	100	0	0	0	0	
Jack mackerels	Coromandel	100	0	0	0	0	0	0	0	Kahawai	Coromandel	100	0	0	0	0	0	0	0	
Jack mackerels	Dunedin	0	0	90	0	10	0	0	0	Kahawai	Dunedin	0	0	90	0	10	0	0	0	
Jack mackerels	Gisborne	20	80	0	0	0	0	0	0	Kahawai	Gisborne	20	80	0	0	0	0	0	0	
Jack mackerels	Greymouth	0	0	0	0	0	100	0	0	Kahawai	Greymouth	0	0	0	0	0	100	0	0	
Jack mackerels	Hokianga	0	0	0	0	0	0	0	100	Kahawai	Hokianga	0	0	0	0	0	0	0	100	
Jack mackerels	Horowhenua	0	0	0	0	0	0	0	100	Kahawai	Horowhenua	0	0	0	0	0	0	0	100	
Jack mackerels	Kaikoura	0	0	100	0	0	0	0	0	Kahawai	Kaikoura	0	0	100	0	0	0	0	0	
Jack mackerels	Kaipara	0	0	0	0	0	0	0	100	Kahawai	Kaipara	0	0	0	0	0	0	0	100	
Jack mackerels	Karitane	0	0	100	0	0	0	0	0	Kahawai	Karitane	0	0	100	0	0	0	0	0	
Jack mackerels	Kawhia	0	0	0	0	0	0	0	100	Kahawai	Kawhia	0	0	0	0	0	0	0	100	
Jack mackerels	Lake.Ellsmere	0	0	100	0	0	0	0	0	Kahawai	Lake.Ellsmere	0	0	100	0	0	0	0	0	
Jack mackerels	Lyttelton	0	0	100	0	0	0	0	0	Kahawai	Lyttelton	0	0	100	0	0	0	0	0	
Jack mackerels	Manawatu	0	0	0	0	0	0	100	0	Kahawai	Manawatu	0	0	0	0	0	0	0	100	
Jack mackerels	Mangonui	100	0	0	0	0	0	0	0	Kahawai	Mangonui	100	0	0	0	0	0	0	0	
Jack mackerels	Manukau	0	0	0	0	0	0	0	100	Kahawai	Manukau	0	0	0	0	0	0	0	100	
Jack mackerels	Marlborough	0	0	0	0	0	0	100	0	Kahawai	Marlborough	0	0	0	0	0	100	0	0	
Jack mackerels	Mercury.Bay	100	0	0	0	0	0	0	0	Kahawai	Mercury.Bay	100	0	0	0	0	0	0	0	
Jack mackerels	Milford.Sd	0	0	0	0	0	100	0	0	Kahawai	Milford.Sd	0	0	0	0	0	100	0	0	
Jack mackerels	Moeraki	0	0	100	0	0	0	0	0	Kahawai	Moeraki	0	0	100	0	0	0	0	0	
Jack mackerels	Napier	10	90	0	0	0	0	0	0	Kahawai	Napier	10	90	0	0	0	0	0	0	
Jack mackerels	Nelson	0	0	0	0	0	80	20	0	Kahawai	Nelson	0	20	20	0	0	60	0	0	
Jack mackerels	New.Plymouth	0	0	0	0	0	0	10	70	20	Kahawai	New.Plymouth	0	0	0	0	0	60	40	0
Jack mackerels	Nuggets	0	0	0	100	0	0	0	0	0	Kahawai	Nuggets	0	0	100	0	0	0	0	0
Jack mackerels	Oamaru	0	0	100	0	0	0	0	0	Kahawai	Oamaru	0	0	100	0	0	0	0	0	
Jack mackerels	Riverton	0	0	0	0	0	100	0	0	Kahawai	Riverton	0	0	0	0	0	100	0	0	
Jack mackerels	Taieri	0	0	100	0	0	0	0	0	Kahawai	Taieri	0	0	100	0	0	0	0	0	
Jack mackerels	Tauranga	100	0	0	0	0	0	0	0	Kahawai	Tauranga	100	0	0	0	0	0	0	0	
Jack mackerels	Thames	100	0	0	0	0	0	0	0	Kahawai	Thames	100	0	0	0	0	0	0	0	
Jack mackerels	Timaru	0	0	100	0	0	0	0	0	Kahawai	Timaru	0	0	100	0	0	0	0	0	
Jack mackerels	Waikawa	0	0	0	0	0	100	0	0	Kahawai	Waikawa	0	0	0	0	0	100	0	0	
Jack mackerels	Wellington	0	70	0	0	0	0	10	20	0	Kahawai	Wellington	0	60	0	0	0	20	20	0
Jack mackerels	Westport	0	0	0	0	0	0	100	0	0	Kahawai	West								

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	
Kingfish	Akaroa	0	0	100	0	0	0	0	0	Ling	Akaroa	0	0	100	0	0	0	0	0	
Kingfish	Auckland	100	0	0	0	0	0	0	0	Ling	Auckland	90	0	0	0	0	0	0	10	
Kingfish	Bay.of.Islands	100	0	0	0	0	0	0	0	Ling	Bay.of.Islands	90	0	0	0	0	0	0	10	
Kingfish	Bluff	0	0	0	0	0	100	0	0	Ling	Bluff	0	0	0	0	0	100	0	0	
Kingfish	Castlepoint	0	100	0	0	0	0	0	0	Ling	Castlepoint	0	100	0	0	0	0	0	0	
Kingfish	Chatham.Is	0	0	0	100	0	0	0	0	Ling	Chatham.Is	0	0	0	100	0	0	0	0	
Kingfish	Coromandel	100	0	0	0	0	0	0	0	Ling	Coromandel	100	0	0	0	0	0	0	0	
Kingfish	Dunedin	0	0	100	0	0	0	0	0	Ling	Dunedin	0	0	60	0	40	0	0	0	
Kingfish	Gisborne	20	80	0	0	0	0	0	0	Ling	Gisborne	10	90	0	0	0	0	0	0	
Kingfish	Greymouth	0	0	0	0	0	0	100	0	Ling	Greymouth	0	0	0	0	0	100	0	0	
Kingfish	Hokianga	0	0	0	0	0	0	0	100	Ling	Hokianga	0	0	0	0	0	0	0	100	
Kingfish	Horowhenua	0	0	0	0	0	0	0	100	Ling	Horowhenua	0	0	0	0	0	0	0	100	
Kingfish	Kaikoura	0	0	100	0	0	0	0	0	Ling	Kaikoura	0	10	80	0	0	10	0	0	
Kingfish	Kaipara	0	0	0	0	0	0	0	100	Ling	Kaipara	0	0	0	0	0	0	0	100	
Kingfish	Karitane	0	0	100	0	0	0	0	0	Ling	Karitane	0	0	80	0	20	0	0	0	
Kingfish	Kawhia	0	0	0	0	0	0	10	90	Ling	Kawhia	0	0	0	0	0	20	80		
Kingfish	Lake.Ellsmere	0	0	100	0	0	0	0	0	Ling	Lake.Ellsmere	0	0	100	0	0	0	0	0	
Kingfish	Lytton	0	0	100	0	0	0	0	0	Ling	Lytton	0	0	100	0	0	0	0	0	
Kingfish	Manawatu	0	0	0	0	0	0	0	100	Ling	Manawatu	0	0	0	0	0	0	0	100	
Kingfish	Mangonui	100	0	0	0	0	0	0	0	Ling	Mangonui	90	0	0	0	0	0	0	10	
Kingfish	Manukau	0	0	0	0	0	0	0	100	Ling	Manukau	0	0	0	0	0	0	0	100	
Kingfish	Marlborough	0	0	0	0	0	0	100	0	Ling	Marlborough	0	0	0	0	0	0	0	0	
Kingfish	Mercury.Bay	100	0	0	0	0	0	0	0	Ling	Mercury.Bay	100	0	0	0	0	0	0	0	
Kingfish	Milford.Sd	0	0	0	0	0	100	0	0	Ling	Milford.Sd	0	0	0	0	0	100	0	0	
Kingfish	Moeraki	0	0	100	0	0	0	0	0	Ling	Moeraki	0	0	90	0	10	0	0	0	
Kingfish	Napier	10	90	0	0	0	0	0	0	Ling	Napier	10	90	0	0	0	0	0	0	
Kingfish	Nelson	0	10	10	0	0	70	10	0	Ling	Nelson	0	10	0	0	0	90	0	0	
Kingfish	New.Plymouth	0	0	0	0	0	0	70	30	Ling	New.Plymouth	0	0	0	0	0	0	70	30	
Kingfish	Nuggets	0	0	100	0	0	0	0	0	Ling	Nuggets	0	0	50	0	50	0	0	0	
Kingfish	Oamaru	0	0	100	0	0	0	0	0	Ling	Oamaru	0	0	90	0	10	0	0	0	
Kingfish	Riverton	0	0	0	0	100	0	0	0	Ling	Riverton	0	0	0	0	100	0	0	0	
Kingfish	Taieri	0	0	100	0	0	0	0	0	Ling	Taieri	0	0	60	0	40	0	0	0	
Kingfish	Tauranga	100	0	0	0	0	0	0	0	Ling	Tauranga	100	0	0	0	0	0	0	0	
Kingfish	Thames	100	0	0	0	0	0	0	0	Ling	Thames	100	0	0	0	0	0	0	0	
Kingfish	Timaru	0	0	100	0	0	0	0	0	Ling	Timaru	0	0	100	0	0	0	0	0	
Kingfish	Waikawa	0	0	0	0	0	100	0	0	Ling	Waikawa	0	0	0	0	100	0	0	0	
Kingfish	Wellington	0	70	0	0	0	10	20	0	Ling	Wellington	0	70	0	0	0	20	10	0	
Kingfish	Westport	0	0	0	0	0	0	100	0	Ling	Westport	0	0	0	0	0	0	100	0	
Kingfish	Whakatane	100	0	0	0	0	0	0	0	Ling	Whakatane	100	0	0	0	0	0	0	0	
Kingfish	Whangarei	100	0	0	0	0	0	0	0	Ling	Whangarei	90	0	0	0	0	0	0	10	
Kingfish	Whangaroa	100	0	0	0	0	0	0	0	Ling	Whangaroa	90	0	0	0	0	0	0	10	
Leatherjacket	Akaroa	0	0	100	0	0	0	0	0	Parore	Akaroa	0	0	100	0	0	0	0	0	
Leatherjacket	Auckland	90	0	0	0	0	0	0	10	Parore	Auckland	100	0	0	0	0	0	0	0	
Leatherjacket	Bay.of.Islands	100	0	0	0	0	0	0	0	Parore	Bay.of.Islands	100	0	0	0	0	0	0	0	
Leatherjacket	Bluff	0	0	0	10	0	90	0	0	Parore	Bluff	0	0	0	0	0	100	0	0	
Leatherjacket	Castlepoint	0	100	0	0	0	0	0	0	Parore	Castlepoint	0	100	0	0	0	0	0	0	
Leatherjacket	Chatham.Is	0	0	0	100	0	0	0	0	Parore	Chatham.Is	0	0	0	100	0	0	0	0	
Leatherjacket	Coromandel	100	0	0	0	0	0	0	0	Parore	Coromandel	100	0	0	0	0	0	0	0	
Leatherjacket	Dunedin	0	0	90	0	10	0	0	0	Parore	Dunedin	0	0	100	0	0	0	0	0	
Leatherjacket	Gisborne	10	90	0	0	0	0	0	0	Parore	Gisborne	0	100	0	0	0	0	0	0	
Leatherjacket	Greymouth	0	0	0	0	0	100	0	0	Parore	Greymouth	0	0	0	0	0	100	0	0	
Leatherjacket	Hokianga	0	0	0	0	0	0	0	100	Parore	Hokianga	0	0	0	0	0	0	0	100	
Leatherjacket	Horowhenua	0	0	0	0	0	0	0	100	Parore	Horowhenua	0	0	0	0	0	0	0	100	
Leatherjacket	Kaikoura	0	0	100	0	0	0	0	0	Parore	Kaikoura	0	0	100	0	0	0	0	0	
Leatherjacket	Kaipara	0	0	0	0	0	0	0	100	Parore	Kaipara	0	0	0	0	0	0	0	100	
Leatherjacket	Karitane	0	0	100	0	0	0	0	0	Parore	Karitane	0	0	100	0	0	0	0	0	
Leatherjacket	Kawhia	0	0	0	0	0	0	0	20	80	Parore	Kawhia	0	0	0	0	0	0	0	100
Leatherjacket	Lake.Ellsmere	0	0	100	0	0	0	0	0	Parore	Lake.Ellsmere	0	0	100	0	0	0	0	0	
Leatherjacket	Lytton	0	0	100	0	0	0	0	0	Parore	Lytton	0	0	100	0	0	0	0	0	
Leatherjacket	Manawatu	0	0	0	0	0	0	100	0	Parore	Manawatu	0	0	0	0	0	0	0	100	
Leatherjacket	Mangonui	100	0	0	0	0	0	0	0	Parore	Mangonui	100	0	0	0	0	0	0	0	
Leatherjacket	Manukau	0	0	0	0	0	0	0	100	Parore	Manukau	0	0	0	0	0	0	0	100	
Leatherjacket	Marlborough	0	0	0	0	0	0	100	0	Parore	Marlborough	0	0	0	0	0	100	0	0	
Leatherjacket	Mercury.Bay	100	0	0	0	0	0	0	0	Parore	Mercury.Bay	100	0	0	0	0	0	0	0	
Leatherjacket	Milford.Sd	0	0	0	0	0	100	0	0	Parore	Milford.Sd	0	0	0	0	0	100	0	0	
Leatherjacket	Moeraki	0	0	100	0	0	0	0	0	Parore	Moeraki	0	0	100	0	0	0	0	0	
Leatherjacket	Napier	0	100	0	0	0	0	0	0	Parore	Napier	0	100	0	0	0	0	0	0	
Leatherjacket	Nelson	0	0	0	0	0	90	10	0	Parore	Nelson	0	0	0	0	0	100	0	0	
Leatherjacket	New.Plymouth	0	0	0	0	0	0	80	20	Parore	New.Plymouth	0	0	0	0	0	0	100	0	
Leatherjacket	Nuggets	0	0	0	100	0	0	0	0	Parore	Nuggets	0	0	100	0	0	0	0	0	
Leatherjacket	Oamaru	0	0	100	0	0	0	0	0	Parore	Oamaru	0	0	100	0	0	0	0	0	
Leatherjacket	Riverton	0	0	0	0	0	100	0	0	Parore	Riverton	0	0	0	0	0	100	0	0	
Leatherjacket	Taieri	0	0	100	0	0	0	0	0	Parore	Taieri	0	0	100	0	0	0	0	0	
Leatherjacket	Tauranga	100	0	0	0	0	0	0	0	Parore	Tauranga	100	0	0	0	0	0	0	0	
Leatherjacket	Thames	100	0	0	0	0	0	0	0	Parore	Thames	100	0	0	0	0	0	0	0	
Leatherjacket	Timaru	0	0	100	0	0	0	0	0	Parore	Timaru	0	0	100	0	0	0	0	0	
Leatherjacket	Waikawa	0	0	10	0	90	0	0	0	Parore	Waikawa	0	0	0	0	0	100	0	0	
Leatherjacket	Wellington	0	80	0	0	0	10	10	0	Parore	Wellington	0	100	0	0	0	0	0	0	
Leatherjacket	Westport	0	0	0	0	0	100	0	0	Parore	Westport	0	0	0	0	0	0	100	0	
Leatherjacket	Whakatane	100	0	0	0	0	0</td													

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	
Pilchard	Akaroa	0	0	100	0	0	0	0	0	Red cod	Akaroa	0	0	100	0	0	0	0	0	
Pilchard	Auckland	100	0	0	0	0	0	0	0	Red cod	Auckland	100	0	0	0	0	0	0	0	
Pilchard	Bay.of.Islands	100	0	0	0	0	0	0	0	Red cod	Bay.of.Islands	100	0	0	0	0	0	0	0	
Pilchard	Bluff	0	0	0	0	0	100	0	0	Red cod	Bluff	0	0	10	0	90	0	0	0	
Pilchard	Castlepoint	0	100	0	0	0	0	0	0	Red cod	Castlepoint	0	100	0	0	0	0	0	0	
Pilchard	Chatham.Is	0	0	0	100	0	0	0	0	Red cod	Chatham.Is	0	0	0	100	0	0	0	0	
Pilchard	Coromandel	100	0	0	0	0	0	0	0	Red cod	Coromandel	100	0	0	0	0	0	0	0	
Pilchard	Dunedin	0	0	100	0	0	0	0	0	Red cod	Dunedin	0	0	10	0	90	0	0	0	
Pilchard	Gisborne	0	100	0	0	0	0	0	0	Red cod	Gisborne	0	100	0	0	0	0	0	0	
Pilchard	Greymouth	0	0	0	0	0	0	100	0	Red cod	Greymouth	0	0	0	0	0	100	0	0	
Pilchard	Hokianga	0	0	0	0	0	0	0	100	Red cod	Hokianga	0	0	0	0	0	0	0	100	
Pilchard	Horowhenua	0	0	0	0	0	0	0	100	Red cod	Horowhenua	0	0	0	0	0	0	0	100	
Pilchard	Kaikoura	0	0	100	0	0	0	0	0	Red cod	Kaikoura	0	0	100	0	0	0	0	0	
Pilchard	Kaipara	0	0	0	0	0	0	0	100	Red cod	Kaipara	0	0	0	0	0	0	0	100	
Pilchard	Karitane	0	0	100	0	0	0	0	0	Red cod	Karitane	0	0	100	0	0	0	0	0	
Pilchard	Kawhia	0	0	0	0	0	0	0	100	Red cod	Kawhia	0	0	0	0	0	0	0	100	
Pilchard	Lake.Ellsmere	0	0	100	0	0	0	0	0	Red cod	Lake.Ellsmere	0	0	100	0	0	0	0	0	
Pilchard	Lyttelton	0	0	100	0	0	0	0	0	Red cod	Lyttelton	0	0	100	0	0	0	0	0	
Pilchard	Manawatu	0	0	0	0	0	0	0	100	Red cod	Manawatu	0	0	0	0	0	0	0	100	
Pilchard	Mangonui	100	0	0	0	0	0	0	0	Red cod	Mangonui	100	0	0	0	0	0	0	0	
Pilchard	Manukau	0	0	0	0	0	0	0	100	Red cod	Manukau	0	0	0	0	0	0	0	100	
Pilchard	Marlborough	0	0	0	0	0	0	100	0	Red cod	Marlborough	0	0	0	0	0	0	100	0	
Pilchard	Mercury.Bay	100	0	0	0	0	0	0	0	Red cod	Mercury.Bay	100	0	0	0	0	0	0	0	
Pilchard	Milford.Sd	0	0	0	0	0	100	0	0	Red cod	Milford.Sd	0	0	0	0	0	100	0	0	
Pilchard	Moeraki	0	0	100	0	0	0	0	0	Red cod	Moeraki	0	0	100	0	0	0	0	0	
Pilchard	Napier	0	100	0	0	0	0	0	0	Red cod	Napier	0	100	0	0	0	0	0	0	
Pilchard	Nelson	0	0	0	0	0	0	100	0	Red cod	Nelson	0	0	30	0	0	70	0	0	
Pilchard	New.Plymouth	0	0	0	0	0	0	0	100	0	Red cod	New.Plymouth	0	0	0	0	0	0	100	0
Pilchard	Nuggets	0	0	100	0	0	0	0	0	Red cod	Nuggets	0	0	100	0	0	0	0	0	
Pilchard	Oamaru	0	0	100	0	0	0	0	0	Red cod	Oamaru	0	0	90	0	10	0	0	0	
Pilchard	Riverton	0	0	0	0	100	0	0	0	Red cod	Riverton	0	0	0	0	100	0	0	0	
Pilchard	Taiheri	0	0	100	0	0	0	0	0	Red cod	Taiheri	0	0	100	0	0	0	0	0	
Pilchard	Tauranga	100	0	0	0	0	0	0	0	Red cod	Tauranga	100	0	0	0	0	0	0	0	
Pilchard	Thames	100	0	0	0	0	0	0	0	Red cod	Thames	100	0	0	0	0	0	0	0	
Pilchard	Timaru	0	0	100	0	0	0	0	0	Red cod	Timaru	0	0	90	0	10	0	0	0	
Pilchard	Waikawa	0	0	0	0	100	0	0	0	Red cod	Waikawa	0	0	0	0	100	0	0	0	
Pilchard	Wellington	0	50	0	0	0	50	0	0	Red cod	Wellington	0	40	20	0	0	40	0	0	
Pilchard	Westport	0	0	0	0	0	0	100	0	Red cod	Westport	0	0	0	0	0	0	100	0	
Pilchard	Whakatane	100	0	0	0	0	0	0	0	Red cod	Whakatane	100	0	0	0	0	0	0	0	
Pilchard	Whangarei	100	0	0	0	0	0	0	0	Red cod	Whangarei	100	0	0	0	0	0	0	0	
Pilchard	Whangaroa	100	0	0	0	0	0	0	0	Red cod	Whangaroa	100	0	0	0	0	0	0	0	
Porae	Akaroa	0	0	100	0	0	0	0	0	Red gurnard	Akaroa	0	0	100	0	0	0	0	0	
Porae	Auckland	100	0	0	0	0	0	0	0	Red gurnard	Auckland	90	0	0	0	0	0	0	10	
Porae	Bay.of.Islands	100	0	0	0	0	0	0	0	Red gurnard	Bay.of.Islands	100	0	0	0	0	0	0	0	
Porae	Bluff	0	0	100	0	0	0	0	0	Red gurnard	Bluff	0	0	10	0	90	0	0	0	
Porae	Castlepoint	0	100	0	0	0	0	0	0	Red gurnard	Castlepoint	0	100	0	0	0	0	0	0	
Porae	Chatham.Is	0	0	100	0	0	0	0	0	Red gurnard	Chatham.Is	0	0	0	100	0	0	0	0	
Porae	Coromandel	100	0	0	0	0	0	0	0	Red gurnard	Coromandel	100	0	0	0	0	0	0	0	
Porae	Dunedin	0	0	100	0	0	0	0	0	Red gurnard	Dunedin	0	0	90	0	10	0	0	0	
Porae	Gisborne	0	100	0	0	0	0	0	0	Red gurnard	Gisborne	10	90	0	0	0	0	0	0	
Porae	Greymouth	0	0	100	0	0	0	0	0	Red gurnard	Greymouth	0	0	0	0	0	100	0	0	
Porae	Hokianga	0	100	0	0	0	0	0	0	Red gurnard	Hokianga	0	0	0	0	0	0	0	100	
Porae	Horowhenua	0	100	0	0	0	0	0	0	Red gurnard	Horowhenua	0	0	0	0	0	0	0	100	
Porae	Kaikoura	0	0	100	0	0	0	0	0	Red gurnard	Kaikoura	0	0	100	0	0	0	0	0	
Porae	Kaipara	0	100	0	0	0	0	0	0	Red gurnard	Kaipara	0	0	0	0	0	0	0	100	
Porae	Karitane	0	0	100	0	0	0	0	0	Red gurnard	Karitane	0	0	100	0	0	0	0	0	
Porae	Kawhia	0	100	0	0	0	0	0	0	Red gurnard	Kawhia	0	0	0	0	0	0	0	100	
Porae	Lake.Ellsmere	0	0	100	0	0	0	0	0	Red gurnard	Lake.Ellsmere	0	0	100	0	0	0	0	0	
Porae	Lyttelton	0	0	100	0	0	0	0	0	Red gurnard	Lyttelton	0	0	100	0	0	0	0	0	
Porae	Manawatu	0	100	0	0	0	0	0	0	Red gurnard	Manawatu	0	0	0	0	0	0	0	100	
Porae	Mangonui	100	0	0	0	0	0	0	0	Red gurnard	Mangonui	100	0	0	0	0	0	0	0	
Porae	Manukau	0	100	0	0	0	0	0	0	Red gurnard	Manukau	0	0	0	0	0	0	0	100	
Porae	Marlborough	0	0	100	0	0	0	0	0	Red gurnard	Marlborough	0	0	0	0	0	0	0	100	
Porae	Mercury.Bay	100	0	0	0	0	0	0	0	Red gurnard	Mercury.Bay	100	0	0	0	0	0	0	0	
Porae	Milford.Sd	0	0	100	0	0	0	0	0	Red gurnard	Milford.Sd	0	0	0	0	0	100	0	0	
Porae	Moeraki	0	0	100	0	0	0	0	0	Red gurnard	Moeraki	0	0	100	0	0	0	0	0	
Porae	Napier	0	100	0	0	0	0	0	0	Red gurnard	Napier	0	100	0	0	0	0	0	0	
Porae	Nelson	0	0	100	0	0	0	0	0	Red gurnard	Nelson	0	0	20	0	0	80	0	0	
Porae	New.Plymouth	0	100	0	0	0	0	0	0	Red gurnard	New.Plymouth	0	0	0	0	0	60	40	0	
Porae	Nuggets	0	0	100	0	0	0	0	0	Red gurnard	Nuggets	0	0	100	0	0	0	0	0	
Porae	Oamaru	0	0	100	0	0	0	0	0	Red gurnard	Oamaru	0	0	90	0	10	0	0	0	
Porae	Riverton	0	0	100	0	0	0	0	0	Red gurnard	Riverton	0	0	0	0	0	100	0	0	
Porae	Taiheri	0	0	100	0	0	0	0	0	Red gurnard	Taiheri	0	0	100	0	0	0	0	0	
Porae	Tauranga	100	0	0	0	0	0	0	0	Red gurnard	Tauranga	100	0	0	0	0	0	0	0	
Porae	Thames	100	0	0	0	0	0	0	0	Red gurnard	Thames	100	0	0	0	0	0	0	0	
Porae	Timaru	0	0	100	0	0	0	0	0	Red gurnard	Timaru	0	0	100	0	0	0	0	0	
Porae	Waikawa	0	0	100	0	0	0	0	0	Red gurnard	Waikawa	0	0	10	0	90	0	0	0	
Porae	Wellington	0	100	0	0	0	0	0	0	Red gurnard	Wellington	0	70	10	0	0	10	10	0	
Porae	Westport	0	0	100	0	0	0	0	0	Red gurnard	Westport	0	0							

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	
Red snapper	Akaroa	0	100	0	0	0	0	0	0	School shark	Akaroa	0	0	100	0	0	0	0	0	
Red snapper	Auckland	100	0	0	0	0	0	0	0	School shark	Auckland	100	0	0	0	0	0	0	0	
Red snapper	Bay.of.Islands	100	0	0	0	0	0	0	0	School shark	Bay.of.Islands	100	0	0	0	0	0	0	0	
Red snapper	Bluff	0	100	0	0	0	0	0	0	School shark	Bluff	0	0	0	0	100	0	0	0	
Red snapper	Castlepoint	0	100	0	0	0	0	0	0	School shark	Castlepoint	0	100	0	0	0	0	0	0	
Red snapper	Chatham.Is	0	100	0	0	0	0	0	0	School shark	Chatham.Is	0	0	0	100	0	0	0	0	
Red snapper	Coromandel	100	0	0	0	0	0	0	0	School shark	Coromandel	100	0	0	0	0	0	0	0	
Red snapper	Dunedin	0	100	0	0	0	0	0	0	School shark	Dunedin	0	0	70	0	30	0	0	0	
Red snapper	Gisborne	0	100	0	0	0	0	0	0	School shark	Gisborne	0	100	0	0	0	0	0	0	
Red snapper	Greymouth	0	100	0	0	0	0	0	0	School shark	Greymouth	0	0	0	0	100	0	0	0	
Red snapper	Hokianga	0	100	0	0	0	0	0	0	School shark	Hokianga	0	0	0	0	0	0	0	100	
Red snapper	Horowhenua	0	100	0	0	0	0	0	0	School shark	Horowhenua	0	10	0	0	0	0	90	0	
Red snapper	Kaikoura	0	100	0	0	0	0	0	0	School shark	Kaikoura	0	0	100	0	0	0	0	0	
Red snapper	Kaipara	0	100	0	0	0	0	0	0	School shark	Kaipara	0	0	0	0	0	0	0	100	
Red snapper	Karitane	0	100	0	0	0	0	0	0	School shark	Karitane	0	0	80	0	20	0	0	0	
Red snapper	Kawhia	0	100	0	0	0	0	0	0	School shark	Kawhia	0	0	0	0	0	0	0	10	
Red snapper	Lake.Ellsmere	0	100	0	0	0	0	0	0	School shark	Lake Ellsmere	0	0	100	0	0	0	0	0	
Red snapper	Lytton	0	100	0	0	0	0	0	0	School shark	Lytton	0	0	100	0	0	0	0	0	
Red snapper	Manawatu	0	100	0	0	0	0	0	0	School shark	Manawatu	0	0	0	0	0	0	100	0	
Red snapper	Mangonui	100	0	0	0	0	0	0	0	School shark	Mangonui	100	0	0	0	0	0	0	0	
Red snapper	Manukau	0	100	0	0	0	0	0	0	School shark	Manukau	0	0	0	0	0	0	0	100	
Red snapper	Marlborough	0	100	0	0	0	0	0	0	School shark	Marlborough	0	10	0	0	0	0	80	10	
Red snapper	Mercury.Bay	100	0	0	0	0	0	0	0	School shark	Mercury.Bay	100	0	0	0	0	0	0	0	
Red snapper	Milford.Sd	0	100	0	0	0	0	0	0	School shark	Milford.Sd	0	0	0	0	100	0	0	0	
Red snapper	Moeraki	0	100	0	0	0	0	0	0	School shark	Moeraki	0	0	90	0	10	0	0	0	
Red snapper	Napier	0	100	0	0	0	0	0	0	School shark	Napier	0	100	0	0	0	0	0	0	
Red snapper	Nelson	0	100	0	0	0	0	0	0	School shark	Nelson	0	40	10	0	0	50	0	0	
Red snapper	New.Plymouth	0	100	0	0	0	0	0	0	School shark	New.Plymouth	0	0	0	0	0	0	80	20	
Red snapper	Nuggets	0	100	0	0	0	0	0	0	School shark	Nuggets	0	0	60	0	40	0	0	0	
Red snapper	Oamaru	0	100	0	0	0	0	0	0	School shark	Oamaru	0	0	100	0	0	0	0	0	
Red snapper	Riverton	0	100	0	0	0	0	0	0	School shark	Riverton	0	0	0	0	100	0	0	0	
Red snapper	Taieri	0	100	0	0	0	0	0	0	School shark	Taieri	0	0	60	0	40	0	0	0	
Red snapper	Tauranga	100	0	0	0	0	0	0	0	School shark	Tauranga	100	0	0	0	0	0	0	0	
Red snapper	Thames	100	0	0	0	0	0	0	0	School shark	Thames	100	0	0	0	0	0	0	0	
Red snapper	Timaru	0	100	0	0	0	0	0	0	School shark	Timaru	0	0	100	0	0	0	0	0	
Red snapper	Waikawa	0	100	0	0	0	0	0	0	School shark	Waikawa	0	0	0	0	100	0	0	0	
Red snapper	Wellington	0	100	0	0	0	0	0	0	School shark	Wellington	0	40	0	0	0	0	20	40	
Red snapper	Westport	0	100	0	0	0	0	0	0	School shark	Westport	0	0	0	0	0	0	100	0	
Red snapper	Whakatane	100	0	0	0	0	0	0	0	School shark	Whakatane	100	0	0	0	0	0	0	0	
Red snapper	Whangarei	100	0	0	0	0	0	0	0	School shark	Whangarei	100	0	0	0	0	0	0	0	
Red snapper	Whangaroa	100	0	0	0	0	0	0	0	School shark	Whangaroa	100	0	0	0	0	0	0	0	
Rig	Akaroa	0	0	100	0	0	0	0	0	Sea perch	Akaroa	0	0	100	0	0	0	0	0	
Rig	Auckland	100	0	0	0	0	0	0	0	Sea perch	Auckland	100	0	0	0	0	0	0	0	
Rig	Bay.of.Islands	100	0	0	0	0	0	0	0	Sea perch	Bay.of.Islands	100	0	0	0	0	0	0	0	
Rig	Bluff	0	0	10	0	90	0	0	0	Sea perch	Bluff	0	0	10	0	90	0	0	0	
Rig	Castlepoint	0	100	0	0	0	0	0	0	Sea perch	Castlepoint	0	100	0	0	0	0	0	0	
Rig	Chatham.Is	0	0	0	100	0	0	0	0	Sea perch	Chatham.Is	0	0	0	100	0	0	0	0	
Rig	Coromandel	100	0	0	0	0	0	0	0	Sea perch	Coromandel	100	0	0	0	0	0	0	0	
Rig	Dunedin	0	0	90	0	10	0	0	0	Sea perch	Dunedin	0	0	90	0	10	0	0	0	
Rig	Gisborne	0	100	0	0	0	0	0	0	Sea perch	Gisborne	0	100	0	0	0	0	0	0	
Rig	Greymouth	0	0	0	0	0	100	0	0	Sea perch	Greymouth	0	0	0	0	0	100	0	0	
Rig	Hokianga	0	0	0	0	0	0	0	100	Sea perch	Hokianga	0	0	0	0	0	0	0	100	
Rig	Horowhenua	0	0	0	0	0	0	0	100	Sea perch	Horowhenua	0	0	0	0	0	0	0	100	
Rig	Kaikoura	0	0	100	0	0	0	0	0	Sea perch	Kaikoura	0	0	100	0	0	0	0	0	
Rig	Kaipara	0	0	0	0	0	0	0	100	Sea perch	Kaipara	0	0	0	0	0	0	0	100	
Rig	Karitane	0	0	100	0	0	0	0	0	Sea perch	Karitane	0	0	100	0	0	0	0	0	
Rig	Kawhia	0	0	0	0	0	0	0	10	Sea perch	Kawhia	0	0	0	0	0	0	0	100	
Rig	Lake.Ellsmere	0	0	100	0	0	0	0	0	Sea perch	Lake.Ellsmere	0	0	100	0	0	0	0	0	
Rig	Lytton	0	0	100	0	0	0	0	0	Sea perch	Lytton	0	0	100	0	0	0	0	0	
Rig	Manawatu	0	0	0	0	0	0	0	100	Sea perch	Manawatu	0	0	0	0	0	0	0	100	
Rig	Mangonui	100	0	0	0	0	0	0	0	Sea perch	Mangonui	100	0	0	0	0	0	0	0	
Rig	Manukau	0	0	0	0	0	0	0	100	Sea perch	Manukau	0	0	0	0	0	0	0	100	
Rig	Marlborough	0	0	0	0	0	0	0	100	Sea perch	Marlborough	0	0	0	0	0	0	0	100	
Rig	Mercury.Bay	100	0	0	0	0	0	0	0	Sea perch	Mercury.Bay	100	0	0	0	0	0	0	0	
Rig	Milford.Sd	0	0	0	0	0	100	0	0	Sea perch	Milford.Sd	0	0	0	0	100	0	0	0	
Rig	Moeraki	0	0	100	0	0	0	0	0	Sea perch	Moeraki	0	0	0	100	0	0	0	0	
Rig	Napier	0	100	0	0	0	0	0	0	Sea perch	Napier	0	100	0	0	0	0	0	0	
Rig	Nelson	0	10	10	0	0	0	80	0	Sea perch	Nelson	0	10	20	0	0	70	0	0	
Rig	New.Plymouth	0	0	0	0	0	0	0	90	10	Sea perch	New.Plymouth	0	0	0	0	0	0	100	0
Rig	Nuggets	0	0	100	0	0	0	0	0	Sea perch	Nuggets	0	0	100	0	0	0	0	0	
Rig	Oamaru	0	0	100	0	0	0	0	0	Sea perch	Oamaru	0	0	100	0	0	0	0	0	
Rig	Riverton	0	0	0	0	0	100	0	0	Sea perch	Riverton	0	0	0	0	0	100	0	0	
Rig	Taieri	0	0	100	0	0	0	0	0	Sea perch	Taieri	0	0	100	0	0	0	0	0	
Rig	Tauranga	100	0	0	0	0	0	0	0	Sea perch	Tauranga	100	0	0	0	0	0	0	0	
Rig	Thames	100	0	0	0	0	0	0	0	Sea perch	Thames	100	0	0	0	0	0	0	0	
Rig	Timaru	0	0	100	0	0	0	0	0	Sea perch	Timaru	0	0	100	0	0	0	0	0	
Rig	Waikawa	0	0	0	0	0	100	0	0	Sea perch	Waikawa	0	0	0	0	0	100	0	0	
Rig	Wellington	0	80	0	0	0	0	10	10	0	Sea perch	Wellington	0	70	0	0	0	0	20	10
Rig	Westport	0	0	0	0	0	0	0	100	0	Sea perch	Westport	0	0	0	0	0	0	100	0
Rig	Whakatane	100	0	0	0	0	0	0	0	Sea perch	Whakatane	100	0	0	0	0	0	0	0	
Rig	Whangarei	100	0	0	0	0	0	0	0	Sea perch	Whangarei	100	0	0	0	0	0	0	0	
Rig	Whangaroa	100	0	0	0	0	0	0	0	Sea perch	Whangaroa	100	0	0	0	0	0	0	0	

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9		
Skates	Akaroa	0	0	100	0	0	0	0	0	Spiny dogfish	Akaroa	0	0	100	0	0	0	0	0		
Skates	Auckland	90	0	0	0	0	0	0	10	Spiny dogfish	Auckland	100	0	0	0	0	0	0	0		
Skates	Bay.of.Islands	100	0	0	0	0	0	0	0	Spiny dogfish	Bay.of.Islands	100	0	0	0	0	0	0	0		
Skates	Bluff	0	0	20	0	80	0	0	0	Spiny dogfish	Bluff	0	0	0	0	100	0	0	0		
Skates	Castlepoint	0	100	0	0	0	0	0	0	Spiny dogfish	Castlepoint	0	100	0	0	0	0	0	0		
Skates	Chatham.Is	0	0	0	100	0	0	0	0	Spiny dogfish	Chatham.Is	0	0	0	100	0	0	0	0		
Skates	Coromandel	100	0	0	0	0	0	0	0	Spiny dogfish	Coromandel	100	0	0	0	0	0	0	0		
Skates	Dunedin	0	0	80	0	20	0	0	0	Spiny dogfish	Dunedin	0	0	80	0	20	0	0	0		
Skates	Gisborne	10	90	0	0	0	0	0	0	Spiny dogfish	Gisborne	0	100	0	0	0	0	0	0		
Skates	Greymouth	0	0	0	0	0	100	0	0	Spiny dogfish	Greymouth	0	0	0	0	0	100	0	0		
Skates	Hokianga	0	0	0	0	0	0	0	100	Spiny dogfish	Hokianga	0	0	0	0	0	0	100	0		
Skates	Horowhenua	0	0	0	0	0	0	100	0	Spiny dogfish	Horowhenua	0	0	0	0	0	0	0	100		
Skates	Kaikoura	0	0	100	0	0	0	0	0	Spiny dogfish	Kaikoura	0	0	100	0	0	0	0	0		
Skates	Kaipara	0	0	0	0	0	0	0	100	Spiny dogfish	Kaipara	0	0	0	0	0	0	0	100		
Skates	Karitane	0	0	100	0	0	0	0	0	Spiny dogfish	Karitane	0	0	100	0	0	0	0	0		
Skates	Kawhia	0	0	0	0	0	0	10	90	Spiny dogfish	Kawhia	0	0	0	0	0	0	0	100		
Skates	Lake.Ellsmere	0	0	100	0	0	0	0	0	Spiny dogfish	Lake.Ellsmere	0	0	100	0	0	0	0	0		
Skates	Lytton	0	0	100	0	0	0	0	0	Spiny dogfish	Lytton	0	0	100	0	0	0	0	0		
Skates	Manawatu	0	0	0	0	0	0	100	0	Spiny dogfish	Manawatu	0	0	0	0	0	0	0	100		
Skates	Mangonui	100	0	0	0	0	0	0	0	Spiny dogfish	Mangonui	100	0	0	0	0	0	0	0		
Skates	Manukau	0	0	0	0	0	0	0	100	Spiny dogfish	Manukau	0	0	0	0	0	0	0	100		
Skates	Marlborough	0	0	0	0	0	0	100	0	Spiny dogfish	Marlborough	0	0	0	0	0	0	100	0		
Skates	Mercury.Bay	100	0	0	0	0	0	0	0	Spiny dogfish	Mercury.Bay	100	0	0	0	0	0	0	0		
Skates	Milford.Sd	0	0	0	0	0	100	0	0	Spiny dogfish	Milford.Sd	0	0	0	0	0	100	0	0		
Skates	Moeraki	0	0	100	0	0	0	0	0	Spiny dogfish	Moeraki	0	0	100	0	0	0	0	0		
Skates	Napier	0	100	0	0	0	0	0	0	Spiny dogfish	Napier	0	100	0	0	0	0	0	0		
Skates	Nelson	0	10	20	0	0	70	0	0	Spiny dogfish	Nelson	0	10	20	0	0	70	0	0		
Skates	New.Plymouth	0	0	0	0	0	0	50	50	Spiny dogfish	New.Plymouth	0	0	0	0	0	0	0	100		
Skates	Nuggets	0	0	100	0	0	0	0	0	Spiny dogfish	Nuggets	0	0	100	0	0	0	0	0		
Skates	Oamaru	0	0	100	0	0	0	0	0	Spiny dogfish	Oamaru	0	0	100	0	0	0	0	0		
Skates	Riverton	0	0	0	0	100	0	0	0	Spiny dogfish	Riverton	0	0	0	0	100	0	0	0		
Skates	Taiheri	0	0	100	0	0	0	0	0	Spiny dogfish	Taiheri	0	0	100	0	0	0	0	0		
Skates	Tauranga	100	0	0	0	0	0	0	0	Spiny dogfish	Tauranga	100	0	0	0	0	0	0	0		
Skates	Thames	100	0	0	0	0	0	0	0	Spiny dogfish	Thames	100	0	0	0	0	0	0	0		
Skates	Timaru	0	0	100	0	0	0	0	0	Spiny dogfish	Timaru	0	0	100	0	0	0	0	0		
Skates	Waikawa	0	0	0	0	0	100	0	0	Spiny dogfish	Waikawa	0	0	0	0	0	100	0	0		
Skates	Wellington	0	70	10	0	0	10	10	0	Spiny dogfish	Wellington	0	90	0	0	0	0	10	0		
Skates	Westport	0	0	0	0	0	0	100	0	Spiny dogfish	Westport	0	0	0	0	0	0	100	0		
Skates	Whakatane	100	0	0	0	0	0	0	0	Spiny dogfish	Whakatane	100	0	0	0	0	0	0	0		
Skates	Whangarei	100	0	0	0	0	0	0	0	Spiny dogfish	Whangarei	100	0	0	0	0	0	0	0		
Skates	Whangaroa	100	0	0	0	0	0	0	0	Spiny dogfish	Whangaroa	100	0	0	0	0	0	0	0		
Snapper	Akaroa	0	0	100	0	0	0	0	0	Stargazers	Akaroa	0	0	100	0	0	0	0	0		
Snapper	Auckland	95	0	0	0	0	0	0	5	Stargazers	Auckland	100	0	0	0	0	0	0	0		
Snapper	Bay.of.Islands	100	0	0	0	0	0	0	0	Stargazers	Bay.of.Islands	100	0	0	0	0	0	0	0		
Snapper	Bluff	0	0	0	0	0	100	0	0	Stargazers	Bluff	0	0	10	0	90	0	0	0		
Snapper	Castlepoint	0	100	0	0	0	0	0	0	Stargazers	Castlepoint	0	100	0	0	0	0	0	0		
Snapper	Chatham.Is	0	0	0	100	0	0	0	0	Stargazers	Chatham.Is	0	0	0	100	0	0	0	0		
Snapper	Coromandel	100	0	0	0	0	0	0	0	Stargazers	Coromandel	100	0	0	0	0	0	0	0		
Snapper	Dunedin	0	0	100	0	0	0	0	0	Stargazers	Dunedin	0	0	70	0	30	0	0	0		
Snapper	Gisborne	20	80	0	0	0	0	0	0	Stargazers	Gisborne	0	90	0	0	0	0	0	10		
Snapper	Greymouth	0	0	0	0	0	0	100	0	Stargazers	Greymouth	0	0	0	0	0	100	0	0		
Snapper	Hokianga	0	0	0	0	0	0	0	100	Stargazers	Hokianga	0	0	0	0	0	0	0	100		
Snapper	Horowhenua	0	0	0	0	0	0	0	100	Stargazers	Horowhenua	0	0	0	0	0	0	0	100		
Snapper	Kaikoura	0	0	100	0	0	0	0	0	Stargazers	Kaikoura	0	0	100	0	0	0	0	0		
Snapper	Karitane	0	0	0	0	0	0	0	100	Stargazers	Karitane	0	0	100	0	0	0	0	0		
Snapper	Kawhia	0	0	0	0	0	0	0	10	90	Stargazers	Kawhia	0	0	0	0	0	0	10	90	
Snapper	Lake.Ellsmere	0	0	100	0	0	0	0	0	Stargazers	Lake.Ellsmere	0	0	100	0	0	0	0	0		
Snapper	Lytton	0	0	100	0	0	0	0	0	Stargazers	Lytton	0	0	90	0	0	0	10	0		
Snapper	Manawatu	0	0	0	0	0	0	0	100	Stargazers	Manawatu	0	0	0	0	0	0	0	100		
Snapper	Mangonui	100	0	0	0	0	0	0	0	Stargazers	Mangonui	100	0	0	0	0	0	0	0		
Snapper	Manukau	0	0	0	0	0	0	0	100	Stargazers	Manukau	0	0	0	0	0	0	0	100		
Snapper	Marlborough	0	0	0	0	0	0	0	100	Stargazers	Marlborough	0	0	0	0	0	0	0	100		
Snapper	Mercury.Bay	100	0	0	0	0	0	0	0	Stargazers	Mercury.Bay	100	0	0	0	0	0	0	0		
Snapper	Milford.Sd	0	0	0	0	0	0	100	0	Stargazers	Milford.Sd	0	0	0	0	0	0	100	0		
Snapper	Moeraki	0	0	100	0	0	0	0	0	Stargazers	Moeraki	0	0	100	0	0	0	0	0		
Snapper	Napier	10	90	0	0	0	0	0	0	Stargazers	Napier	0	100	0	0	0	0	0	0		
Snapper	Nelson	0	0	0	0	0	0	70	30	0	Stargazers	Nelson	0	10	20	0	0	70	0	0	
Snapper	New.Plymouth	0	0	0	0	0	0	0	70	30	0	Stargazers	New.Plymouth	0	0	0	0	0	0	50	50
Snapper	Nuggets	0	0	100	0	0	0	0	0	0	Stargazers	Nuggets	0	0	90	0	0	10	0	0	
Snapper	Oamaru	0	0	100	0	0	0	0	0	0	Stargazers	Oamaru	0	0	90	0	0	10	0	0	
Snapper	Riverton	0	0	0	0	0	0	100	0	0	Stargazers	Riverton	0	0	0	0	0	0	0	0	
Snapper	Taiheri	0	0	100	0	0	0	0	0	0	Stargazers	Taiheri	0	0	90	0	0	10	0	0	
Snapper	Tauranga	100	0	0	0	0	0	0	0	0	Stargazers	Tauranga	100	0	0	0	0	0	0	0	
Snapper	Thames	100	0	0	0	0	0	0	0	0	Stargazers	Thames	100	0	0	0	0	0	0	0	
Snapper	Timaru	0	0	100	0	0	0	0	0	0	Stargazers	Timaru	0	0	90	0	0	10	0	0	
Snapper	Waikawa	0	0	0	0	0	100	0	0	0	Stargazers	Waikawa	0	0	0	0	0	0	0	0	
Snapper	Wellington	0	50	0	0	0	0	0	50	0	Stargazers	Wellington	0	80	0	0	0	0	10	10	
Snapper	Westport	0	0	0	0	0	0	100	0	0	Stargazers	Westport	0	0	0	0	0	0	0	0	
Snapper	Whakatane	100</																			

Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	Species	Port	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9			
Tarakihi	Akaroa	0	0	100	0	0	0	0	0	Trumpeter	Akaroa	0	0	100	0	0	0	0	0			
Tarakihi	Auckland	90	10	0	0	0	0	0	0	Trumpeter	Auckland	100	0	0	0	0	0	0	0			
Tarakihi	Bay.of.Islands	100	0	0	0	0	0	0	0	Trumpeter	Bay.of.Islands	100	0	0	0	0	0	0	0			
Tarakihi	Bluff	0	0	10	0	90	0	0	0	Trumpeter	Bluff	0	0	10	0	90	0	0	0			
Tarakihi	Castlepoint	0	100	0	0	0	0	0	0	Trumpeter	Castlepoint	0	100	0	0	0	0	0	0			
Tarakihi	Chatham.Is	0	0	0	0	100	0	0	0	Trumpeter	Chatham.Is	0	0	0	100	0	0	0	0			
Tarakihi	Coromandel	100	0	0	0	0	0	0	0	Trumpeter	Coromandel	100	0	0	0	0	0	0	0			
Tarakihi	Dunedin	0	0	90	0	10	0	0	0	Trumpeter	Dunedin	0	0	90	0	10	0	0	0			
Tarakihi	Gisborne	10	90	0	0	0	0	0	0	Trumpeter	Gisborne	0	90	0	0	0	0	10	0			
Tarakihi	Greymouth	0	0	0	0	0	100	0	0	Trumpeter	Greymouth	0	0	0	0	0	100	0	0			
Tarakihi	Hokianga	0	0	0	0	0	0	0	100	Trumpeter	Hokianga	0	0	0	0	0	0	0	100			
Tarakihi	Horowhenua	0	0	0	0	0	0	0	100	0	Trumpeter	Horowhenua	0	0	0	0	0	0	100	0		
Tarakihi	Kaikoura	0	0	0	100	0	0	0	0	Trumpeter	Kaikoura	0	0	100	0	0	0	0	0			
Tarakihi	Kaipara	0	0	0	0	0	0	0	100	Trumpeter	Kaipara	0	0	0	0	0	0	0	100			
Tarakihi	Karitane	0	0	0	100	0	0	0	0	Trumpeter	Karitane	0	0	90	0	0	10	0	0			
Tarakihi	Kawhia	0	0	0	0	0	0	0	10	90	Trumpeter	Kawhia	0	0	0	0	0	0	0	20		
Tarakihi	Lake.Ellsmere	0	0	0	100	0	0	0	0	Trumpeter	Lake.Ellsmere	0	0	100	0	0	0	0	0			
Tarakihi	Lytton	0	0	100	0	0	0	0	0	Trumpeter	Lytton	0	0	100	0	0	0	0	0			
Tarakihi	Manawatu	0	0	0	0	0	0	0	100	0	Trumpeter	Manawatu	0	0	0	0	0	0	0	100		
Tarakihi	Mangonui	100	0	0	0	0	0	0	0	Trumpeter	Mangonui	100	0	0	0	0	0	0	0			
Tarakihi	Manukau	0	0	0	0	0	0	0	100	Trumpeter	Manukau	0	0	0	0	0	0	0	0			
Tarakihi	Marlborough	0	0	0	0	0	0	100	0	0	Trumpeter	Marlborough	0	0	0	0	0	0	0	0		
Tarakihi	Mercury.Bay	100	0	0	0	0	0	0	0	Trumpeter	Mercury.Bay	100	0	0	0	0	0	0	0			
Tarakihi	Milford.Sd	0	0	0	0	0	100	0	0	Trumpeter	Milford.Sd	0	0	0	0	0	100	0	0			
Tarakihi	Moeraki	0	0	0	100	0	0	0	0	Trumpeter	Moeraki	0	0	90	0	0	10	0	0			
Tarakihi	Napier	0	100	0	0	0	0	0	0	Trumpeter	Napier	0	100	0	0	0	0	0	0			
Tarakihi	Nelson	0	0	0	10	0	0	90	0	0	Trumpeter	Nelson	0	0	10	0	0	90	0	0		
Tarakihi	New.Plymouth	0	0	0	0	0	0	0	80	20	Trumpeter	New.Plymouth	0	0	0	0	0	0	70	30		
Tarakihi	Nuggets	0	0	0	100	0	0	0	0	0	Trumpeter	Nuggets	0	0	90	0	0	10	0	0		
Tarakihi	Oamaru	0	0	0	100	0	0	0	0	0	Trumpeter	Oamaru	0	0	90	0	0	10	0	0		
Tarakihi	Riverton	0	0	0	0	0	100	0	0	0	Trumpeter	Riverton	0	0	0	0	0	100	0	0		
Tarakihi	Taiheri	0	0	0	100	0	0	0	0	0	Trumpeter	Taiheri	0	0	90	0	0	10	0	0		
Tarakihi	Tauranga	90	10	0	0	0	0	0	0	0	Trumpeter	Tauranga	10	90	0	0	0	0	0	0		
Tarakihi	Thames	100	0	0	0	0	0	0	0	0	Trumpeter	Thames	100	0	0	0	0	0	0	0		
Tarakihi	Timaru	0	0	0	100	0	0	0	0	0	Trumpeter	Timaru	0	0	90	0	0	10	0	0		
Tarakihi	Waikawa	0	0	0	0	0	0	0	100	0	0	Trumpeter	Waikawa	0	0	10	0	90	0	0	0	
Tarakihi	Wellington	0	50	0	0	0	0	50	0	0	Trumpeter	Wellington	0	80	10	0	0	0	10	0		
Tarakihi	Westport	0	0	0	0	0	0	100	0	0	Trumpeter	Westport	0	0	0	0	0	0	0	100		
Tarakihi	Whakatane	100	0	0	0	0	0	0	0	0	Trumpeter	Whakatane	100	0	0	0	0	0	0	0		
Tarakihi	Whangarei	100	0	0	0	0	0	0	0	0	Trumpeter	Whangarei	100	0	0	0	0	0	0	0		
Tarakihi	Whangaroa	100	0	0	0	0	0	0	0	0	Trumpeter	Whangaroa	100	0	0	0	0	0	0	0		
Trevally	Akaroa	0	0	100	0	0	0	0	0	Yelloweyed mullet	Akaroa	0	0	100	0	0	0	0	0			
Trevally	Auckland	90	0	0	0	0	0	0	10	Yelloweyed mullet	Auckland	100	0	0	0	0	0	0	0			
Trevally	Bay.of.Islands	100	0	0	0	0	0	0	0	Yelloweyed mullet	Bay.of.Islands	100	0	0	0	0	0	0	0			
Trevally	Bluff	0	0	0	0	0	0	100	0	0	Yelloweyed mullet	Bluff	0	0	0	0	0	100	0	0		
Trevally	Castlepoint	0	100	0	0	0	0	0	0	Yelloweyed mullet	Castlepoint	0	100	0	0	0	0	0	0			
Trevally	Chatham.Is	0	0	0	0	100	0	0	0	Yelloweyed mullet	Chatham.Is	0	0	0	100	0	0	0	0			
Trevally	Coromandel	100	0	0	0	0	0	0	0	Yelloweyed mullet	Coromandel	100	0	0	0	0	0	0	0			
Trevally	Dunedin	0	0	0	100	0	0	0	0	Yelloweyed mullet	Dunedin	0	0	100	0	0	0	0	0			
Trevally	Gisborne	30	70	0	0	0	0	0	0	Yelloweyed mullet	Gisborne	0	100	0	0	0	0	0	0			
Trevally	Greymouth	0	0	0	0	0	0	0	100	0	Yelloweyed mullet	Greymouth	0	0	0	0	0	0	100	0		
Trevally	Hokianga	0	0	0	0	0	0	0	0	100	0	Yelloweyed mullet	Hokianga	0	0	0	0	0	0	0	100	
Trevally	Horowhenua	0	0	0	0	0	0	0	100	0	Yelloweyed mullet	Horowhenua	0	0	0	0	0	0	0	100		
Trevally	Kaikoura	0	0	0	100	0	0	0	0	0	Yelloweyed mullet	Kaikoura	0	0	100	0	0	0	0	0		
Trevally	Kaipara	0	0	0	0	0	0	0	0	0	Yelloweyed mullet	Kaipara	0	0	0	0	0	0	0	100		
Trevally	Karitane	0	0	0	100	0	0	0	0	0	Yelloweyed mullet	Karitane	0	0	100	0	0	0	0	0		
Trevally	Kawhia	0	0	0	0	0	0	0	10	90	0	Yelloweyed mullet	Kawhia	0	0	0	0	0	0	0	100	
Trevally	Lake.Ellsmere	0	0	0	100	0	0	0	0	0	Yelloweyed mullet	Lake.Ellsmere	0	0	100	0	0	0	0	0		
Trevally	Lytton	0	0	0	100	0	0	0	0	0	Yelloweyed mullet	Lytton	0	0	100	0	0	0	0	0		
Trevally	Manawatu	0	0	0	0	0	0	0	100	0	Yelloweyed mullet	Manawatu	0	0	0	0	0	0	0	100		
Trevally	Mangonui	100	0	0	0	0	0	0	0	0	Yelloweyed mullet	Mangonui	100	0	0	0	0	0	0	0		
Trevally	Manukau	0	0	0	0	0	0	0	0	0	100	0	Yelloweyed mullet	Manukau	0	0	0	0	0	0	0	100
Trevally	Marlborough	0	0	0	0	0	0	0	100	0	0	Yelloweyed mullet	Marlborough	0	0	0	0	0	0	0	100	
Trevally	Mercury.Bay	100	0	0	0	0	0	0	0	0	0	Yelloweyed mullet	Mercury.Bay	100	0	0	0	0	0	0	0	
Trevally	Milford.Sd	0	0	0	0	0	0	100	0	0	0	Yelloweyed mullet	Milford.Sd	0	0	0	0	0	100	0	0	
Trevally	Moeraki	0	0	0	100	0	0	0	0	0	0	Yelloweyed mullet	Moeraki	0	0	100	0	0	0	0	0	
Trevally	Napier	10	90	0	0	0	0	0	0	0	0	Yelloweyed mullet	Napier	0	100	0	0	0	0	0	0	
Trevally	Nelson	0	10	0	0	0	0	0	80	10	0	Yelloweyed mullet	Nelson	0	0	0	0	0	0	0	100	
Trevally	New.Plymouth	0	0	0	0	0	0	0	60	40	0	Yelloweyed mullet	New.Plymouth	0	0	0	0	0	0	0	100	
Trevally	Nuggets	0	0	0	100	0	0	0	0	0	0	Yelloweyed mullet	Nuggets	0	0	100	0	0	0	0	0	
Trevally	Oamaru	0	0	0	100	0	0	0	0	0	0	Yelloweyed mullet	Oamaru	0	0	100	0	0	0	0	0	
Trevally	Riverton	0	0	0	0	0	0	100	0	0	0	Yelloweyed mullet	Riverton	0	0	0	0	0	0	0	100	
Trevally	Taiheri	0	0	0	100	0	0	0	0	0	0	Yelloweyed mullet	Taiheri	0	0	0	0	0	0	0	0	
Trevally	Tauranga	100	0	0	0	0	0	0	0	0	0	Yelloweyed mullet	Tauranga	100	0	0	0	0	0	0	0	
Trevally	Thames	100	0	0	0	0	0	0	0	0	0	Yelloweyed mullet	Thames	100	0	0	0	0	0	0	0	
Trevally	Timaru	0	0	0	100	0	0	0	0	0	0	Yelloweyed mullet	Timaru	0	0	100	0	0	0	0	0	
Trevally	Waikawa	0	0	0	0	0	0	100	0	0	0	Yelloweyed mullet	Waikawa	0	0	0	0	0	0	0	100	
Trevally	Wellington	0	70	0	0	0	0	10	20	0	0	Yelloweyed mullet	Wellington	0	100	0	0	0	0	0	0	
Trevally	Westport	0	0	0	0	0	0	0	100	0	0	Yelloweyed mullet	Westport	0	0	0	0	0	0	0	100	
Trevally	Whakatane	100	0	0	0	0	0	0	0	0	0	Yelloweyed mullet	Whakatane	100	0	0	0	0	0	0	0	
Trevally	Whangarei	100	0	0	0	0	0	0	0	0	0	Yelloweyed mullet	Whangarei	100	0	0	0	0	0	0	0	
Trevally	Whangaroa	100	0	0	0	0	0	0	0	0	0	Yelloweyed mullet	Whangaroa	100	0	0	0	0	0	0	0	

APPENDIX 3: LANDINGS HISTORIES FOR INSHORE FINFISH SPECIES BY FISHERIES MANAGEMENT AREA

Landings histories are in tonnes.

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Barracouta	1931	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Barracouta	1932	0	51	4	0	0	26	51	0	0	0	0	0	0	0	0	0	0	0	51	4	0	0	0	0	26	51	0	132
Barracouta	1933	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	6
Barracouta	1934	0	35	1	0	0	17	35	0	0	0	0	0	0	0	0	0	0	0	35	1	0	0	0	0	17	35	0	88
Barracouta	1935	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Barracouta	1936	0	23	3	0	0	12	23	0	0	0	0	0	0	0	0	0	0	0	23	3	0	0	0	0	12	23	0	61
Barracouta	1937	0	16	5	0	0	10	16	0	0	0	0	0	0	0	0	0	0	0	16	5	0	0	0	0	10	16	0	47
Barracouta	1938	0	36	55	0	22	19	36	0	0	0	0	0	0	0	0	0	0	0	36	55	0	22	0	19	36	0	0	168
Barracouta	1939	0	33	74	0	27	17	33	0	0	0	0	0	0	0	0	0	0	0	33	74	0	27	0	17	33	0	0	184
Barracouta	1940	0	18	135	0	53	12	18	0	0	0	0	0	0	0	0	0	0	0	18	135	0	53	0	12	18	0	0	236
Barracouta	1941	0	8	204	0	86	9	8	0	0	0	0	0	0	0	0	0	0	0	8	204	0	86	0	9	8	0	0	315
Barracouta	1942	1	10	360	0	151	10	10	0	0	0	0	0	0	0	0	0	0	1	10	360	0	151	0	10	10	0	0	542
Barracouta	1943	0	3	189	0	79	4	3	0	0	0	0	0	0	0	0	0	0	0	3	189	0	79	0	4	3	0	0	278
Barracouta	1944	3	4	240	0	97	45	5	0	0	0	0	0	0	0	0	0	0	3	4	240	0	97	0	45	5	0	0	394
Barracouta	1945	23	11	272	0	114	17	12	3	0	0	0	0	0	0	0	0	0	23	11	272	0	114	0	17	12	3	0	452
Barracouta	1946	57	8	326	0	125	47	10	6	0	0	0	0	0	0	0	0	0	57	8	326	0	125	0	47	10	6	0	579
Barracouta	1947	60	10	520	0	213	27	11	7	0	0	0	0	0	0	0	0	0	60	10	520	0	213	0	27	11	7	0	848
Barracouta	1948	40	13	413	0	172	9	13	5	0	0	0	0	0	0	0	0	0	40	13	413	0	172	0	9	13	5	0	665
Barracouta	1949	0	20	405	0	169	19	21	0	0	0	0	0	0	0	0	0	0	20	405	0	169	0	19	21	0	0	634	
Barracouta	1950	8	49	373	0	153	26	49	1	0	0	0	0	0	0	0	0	0	8	49	373	0	153	0	26	49	1	0	659
Barracouta	1951	3	31	232	0	95	16	31	0	0	0	0	0	0	0	0	0	0	3	31	232	0	95	0	16	31	0	0	408
Barracouta	1952	2	41	147	0	56	27	41	0	0	0	0	0	0	0	0	0	0	2	41	147	0	56	0	27	41	0	0	314
Barracouta	1953	0	51	151	0	41	26	51	0	0	0	0	0	0	0	0	0	0	0	51	151	0	41	0	26	51	0	0	320
Barracouta	1954	1	26	139	0	35	13	25	0	0	0	0	0	0	0	0	0	0	1	26	139	0	35	0	13	25	0	0	239
Barracouta	1955	0	38	101	0	14	19	39	0	0	0	0	0	0	0	0	0	0	0	38	101	0	14	0	19	39	0	0	211
Barracouta	1956	0	29	136	0	16	14	31	0	0	0	0	0	0	0	0	0	0	0	29	136	0	16	0	14	31	0	0	226
Barracouta	1957	0	46	117	0	20	33	47	0	0	0	0	0	0	0	0	0	0	46	117	0	20	0	33	47	0	0	263	
Barracouta	1958	1	46	99	0	15	31	47	0	0	0	0	0	0	0	0	0	0	46	99	0	15	0	31	47	0	0	239	
Barracouta	1959	7	47	85	0	18	28	42	1	0	0	0	0	0	0	0	0	0	7	47	85	0	18	0	28	42	1	0	228
Barracouta	1960	5	51	61	0	13	48	42	0	0	0	0	0	0	0	0	0	0	5	51	61	0	13	0	48	42	0	0	220
Barracouta	1961	8	40	139	0	22	36	30	2	0	0	0	0	0	0	0	0	0	40	139	0	22	0	36	30	2	0	277	
Barracouta	1962	3	41	60	0	25	15	29	0	0	0	0	0	0	0	0	0	0	41	60	0	25	0	15	29	0	0	173	
Barracouta	1963	5	18	40	0	4	6	13	1	0	0	0	0	0	0	0	0	0	18	40	0	4	0	6	13	1	0	87	
Barracouta	1964	8	16	42	0	4	8	8	5	0	0	0	0	0	0	0	0	0	16	42	0	4	0	8	8	5	0	91	
Barracouta	1965	36	58	17	0	1	26	45	5	0	0	0	0	0	0	0	0	0	36	58	17	0	1	0	26	45	5	0	188
Barracouta	1966	9	18	35	0	1	80	26	10	0	0	0	0	0	0	0	0	0	9	18	35	0	1	0	80	26	10	0	179
Barracouta	1967	1	5	47	0	1	152	26	0	0	0	0	0	0	0	0	0	0	1	5	47	0	1	0	152	26	0	0	232
Barracouta	1968	13	46	115	0	3	341	50	0	4	0	9935	0	0	0	111	520	174	17	46	10050	0	3	0	452	571	174	0	11313
Barracouta	1969	47	181	92	0	2	261	55	6	0	0	8179	0	0	0	778	3492	1164	47	181	8271	0	2	0	1039	3547	1170	0	14257
Barracouta	1970	103	191	96	0	2	271	65	27	3	0	12591	0	0	0	525	2304	768	106	191	12687	0	2	0	796	2369	795	0	16946
Barracouta	1971	185	249	130	0	3	377	92	66	26	0	10737	0	185	3	1004	1850	617	211	249	10867	0	188	3	1381	1942	682	0	15523
Barracouta	1972	218	182	233	0	8	577	148	63	4	0	28670	2	78	0	714	1489	496	222	182	28903	2	86	0	1291	1637	559	0	32882
Barracouta	1973	551	77	628	0	59	1125	210	200	0	0	13600	0	11	9	616	1910	637	551	77	14228	0	70	9	1741	2120	837	0	19633
Barracouta	1974	703	47	788	0	87	1307	195	267	0	0	21882	0	19	0	5782	1108	369	703	47	22670	0	106	0	7089	1302	636	0	32553
Barracouta	1975	179	15	515	0	53	1320	184	236	8	8	8260	0	771	31	2943	1180	394	187	23	8775	0	824	31	4263	1365	630	0	16098
Barracouta	1976	313	4	813	0	58	1939	276	266	0	36	17958	5	437	0	2208	1580	526	313	40	18771	5	496	0	4147	1856	793	0	26421
Barracouta	1977	400	32	1059	0	85	2453	409	249	0	4	5486	9095	1956	0	25099	3792	1264	400	36	6545	9095	2041	0	27552	4201	1513	0	51383
Barracouta	1978	804	49	1105	1	84	2271	490	380	0	25	4850	16	1078	0	2759	764	254	804	74	5955	17	1162	0	5030	1254	635	0	14931
Barracouta	1979	938	59	2367	0	2																							

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	
Blue cod	1931	29	0	55	148	719	4	4	0	0	0	0	0	0	0	0	0	0	0	29	0	55	148	719	0	4	4	0	959
Blue cod	1932	12	0	59	111	726	1	5	0	0	0	0	0	0	0	0	0	0	12	0	59	111	726	0	1	5	0	914	
Blue cod	1933	24	5	26	1055	792	3	2	0	0	0	0	0	0	0	0	0	0	24	5	26	1055	792	0	3	2	0	1907	
Blue cod	1934	17	5	23	1306	1057	0	4	0	0	0	0	0	0	0	0	0	0	17	5	23	1306	1057	0	0	4	0	2412	
Blue cod	1935	18	23	34	1197	284	44	2	0	0	0	0	0	0	0	0	0	0	18	23	34	1197	284	0	44	2	0	1602	
Blue cod	1936	3	7	27	755	113	61	0	0	0	0	0	0	0	0	0	0	0	3	7	27	755	113	0	61	0	0	966	
Blue cod	1937	2	8	31	793	172	81	0	0	0	0	0	0	0	0	0	0	0	2	8	31	793	172	0	81	0	0	1087	
Blue cod	1938	2	3	19	686	94	57	0	0	0	0	0	0	0	0	0	0	0	2	3	19	686	94	0	57	0	0	861	
Blue cod	1939	1	4	33	715	135	68	0	0	0	0	0	0	0	0	0	0	0	1	4	33	715	135	0	68	0	0	956	
Blue cod	1940	3	7	39	320	177	72	0	0	0	0	0	0	0	0	0	0	0	3	7	39	320	177	0	72	0	0	618	
Blue cod	1941	2	5	30	189	128	54	0	0	0	0	0	0	0	0	0	0	0	2	5	30	189	128	0	54	0	0	408	
Blue cod	1942	3	5	20	204	139	65	0	0	0	0	0	0	0	0	0	0	0	3	5	20	204	139	0	65	0	0	436	
Blue cod	1943	4	12	31	212	221	80	0	0	0	0	0	0	0	0	0	0	0	4	12	31	212	221	0	80	0	0	560	
Blue cod	1944	3	10	38	216	552	88	0	0	0	0	0	0	0	0	0	0	0	3	10	38	216	552	0	88	0	0	907	
Blue cod	1945	8	6	45	102	634	109	0	0	0	0	0	0	0	0	0	0	0	8	6	45	102	634	0	109	0	0	904	
Blue cod	1946	11	9	43	175	715	116	2	0	0	0	0	0	0	0	0	0	0	11	9	43	175	715	0	116	2	0	1071	
Blue cod	1947	8	22	81	278	955	153	1	0	0	0	0	0	0	0	0	0	0	8	22	81	278	955	0	153	1	0	1498	
Blue cod	1948	7	24	74	623	852	88	2	0	0	0	0	0	0	0	0	0	0	7	24	74	623	852	0	88	2	0	1670	
Blue cod	1949	37	6	98	390	929	82	3	0	0	0	0	0	0	0	0	0	0	37	6	98	390	929	0	82	3	0	1545	
Blue cod	1950	5	5	66	485	1005	94	1	0	0	0	0	0	0	0	0	0	0	5	5	66	485	1005	0	94	1	0	1661	
Blue cod	1951	4	9	51	494	873	74	2	0	0	0	0	0	0	0	0	0	0	4	9	51	494	873	0	74	2	0	1507	
Blue cod	1952	5	7	53	543	889	95	3	0	0	0	0	0	0	0	0	0	0	5	7	53	543	889	0	95	3	0	1595	
Blue cod	1953	7	20	62	682	414	114	2	0	0	0	0	0	0	0	0	0	0	7	20	62	682	414	0	114	2	0	1301	
Blue cod	1954	5	9	84	603	385	112	2	0	0	0	0	0	0	0	0	0	0	5	9	84	603	385	0	112	2	0	1200	
Blue cod	1955	4	8	83	355	405	79	3	0	0	0	0	0	0	0	0	0	0	4	8	83	355	405	0	79	3	0	937	
Blue cod	1956	1	7	86	636	656	77	2	0	0	0	0	0	0	0	0	0	0	1	7	86	636	656	0	77	2	0	1465	
Blue cod	1957	2	5	63	1185	581	61	2	0	0	0	0	0	0	0	0	0	0	2	5	63	1185	581	0	61	2	0	1899	
Blue cod	1958	2	4	57	892	542	71	2	0	0	0	0	0	0	0	0	0	0	2	4	57	892	542	0	71	2	0	1570	
Blue cod	1959	1	2	51	1158	492	71	1	0	0	0	0	0	0	0	0	0	0	1	2	51	1158	492	0	71	1	0	1776	
Blue cod	1960	1	4	48	903	757	65	2	0	0	0	0	0	0	0	0	0	0	1	4	48	903	757	0	65	2	0	1780	
Blue cod	1961	1	2	43	871	590	55	3	0	0	0	0	0	0	0	0	0	0	1	2	43	871	590	0	55	3	0	1565	
Blue cod	1962	1	9	37	550	668	65	3	0	0	0	0	0	0	0	0	0	0	1	9	37	550	668	0	65	3	0	1333	
Blue cod	1963	1	12	46	633	621	60	4	0	0	0	0	0	0	0	0	0	0	1	12	46	633	621	0	60	4	0	1377	
Blue cod	1964	1	107	83	495	462	70	3	0	0	0	0	0	0	0	0	0	0	1	107	83	495	462	0	70	3	0	1221	
Blue cod	1965	1	18	55	742	296	59	2	0	0	0	0	0	0	0	0	0	0	1	18	55	742	296	0	59	2	0	1173	
Blue cod	1966	1	395	35	13	337	79	6	0	0	0	0	0	0	0	0	0	0	1	395	35	13	337	0	79	6	0	866	
Blue cod	1967	1	437	34	0	518	74	5	0	0	0	0	0	0	0	0	0	0	1	437	34	0	518	0	74	5	0	1069	
Blue cod	1968	1	312	69	0	494	105	2	0	0	0	0	0	0	0	0	0	0	1	312	69	0	494	0	105	2	0	983	
Blue cod	1969	6	232	92	8	361	60	1	0	0	0	0	0	0	0	0	0	0	6	232	92	8	361	0	60	1	0	760	
Blue cod	1970	0	402	70	39	432	70	8	0	0	0	0	0	0	0	0	0	0	402	70	39	432	0	70	8	0	1021		
Blue cod	1971	1	105	81	36	375	44	2	0	0	0	0	0	0	0	0	0	0	1	105	81	36	375	0	44	2	0	644	
Blue cod	1972	0	137	60	3	194	63	1	0	0	0	0	0	0	0	0	0	0	0	137	60	3	194	0	63	1	0	458	
Blue cod	1973	1	127	65	4	571	68	11	0	0	0	0	0	0	0	0	0	0	1	127	65	4	571	0	68	11	0	847	
Blue cod	1974	0	67	61	1	486	61	16	0	0	0	0	0	0	0	0	0	0	0	67	61	1	486	0	61	16	0	692	
Blue cod	1975	0	5	42	2	232	58	14	0	0	0	0	0	0	0	0	0	0	0	5	42	2	232	0	58	14	0	353	
Blue cod	1976	0	103	72	17	254	58	17	0	0	0	0	0	0	0	0	0	0	0	103	72	17	254	0	58	17	0	521	
Blue cod	1977	2	3	21	46	208	87	19	0	0	0	0	0	0	0	0	0	0	2	3	21	46	208	0	87	19	0	386	
Blue cod	1978	0	9	49	14	197	104	12	0	0	0	0	0	0	0	0	0	0	0	9	49	14	197	0	104	12	0	385	
Blue cod	1979	0	17	73	13	217	98	16	0	0	0	1	0	0	0	0	0	0	0	17	74	13	217	0	98	16	0	435	
Blue cod	1980	1	1	89	1	403	62	18	0	0	0	0	0	0	0	0	0	0	1	1	89	1	403	0	62	18	0	575	
Blue cod	1981	1	2	69	40	490	79	23	0	0	0	0	0	1	0	0	0	0	1	2	70	40	491	3	79	23	0	709	

Appendix 3: (continued).

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Blue maomao	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1933	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Blue maomao	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1937	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Blue maomao	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1942	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1943	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Blue maomao	1944	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1945	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1946	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1947	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1948	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1953	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1954	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Blue maomao	1955	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1956	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1958	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1959	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1962	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1963	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Blue maomao	1964	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue maomao	1966	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1967	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1968	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Blue maomao	1969	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	5
Blue maomao	1970	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
Blue maomao	1971	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
Blue maomao	1972	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	5
Blue maomao	1973	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1	0	0	0	0	0	0	0	0	13
Blue maomao	1974	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
Blue maomao	1975	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Blue maomao	1976	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Blue maomao	1977	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Blue maomao	1978	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Blue maomao	1979	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	6
Blue maomao	1980	13	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	14
Blue maomao	1981	12	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	13
Blue maomao	1982	7	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	9

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total		
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9				
Blue moki	1931	0	0	5	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	4	0	0	9	
Blue moki	1932	0	0	4	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	3	0	0	7	
Blue moki	1933	0	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4	0	0	6	
Blue moki	1934	0	43	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	5	5	0	53	
Blue moki	1935	0	56	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	7	7	0	70	
Blue moki	1936	0	63	11	0	1	24	8	0	0	0	0	0	0	0	0	0	0	0	0	63	11	0	1	0	24	8	0	107		
Blue moki	1937	0	63	7	0	0	9	7	0	0	0	0	0	0	0	0	0	0	0	0	63	7	0	0	0	0	9	7	0	86	
Blue moki	1938	0	120	16	0	0	19	14	0	0	0	0	0	0	0	0	0	0	0	0	120	16	0	0	0	0	19	14	0	169	
Blue moki	1939	0	102	15	0	0	11	8	0	0	0	0	0	0	0	0	0	0	0	0	102	15	0	0	0	0	11	8	0	136	
Blue moki	1940	0	88	26	0	1	7	4	0	0	0	0	0	0	0	0	0	0	0	0	88	26	0	1	0	7	4	0	0	126	
Blue moki	1941	0	134	16	0	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	134	16	0	1	0	5	5	0	0	161	
Blue moki	1942	0	95	15	0	1	11	10	0	0	0	0	0	0	0	0	0	0	0	0	95	15	0	1	0	11	10	0	0	132	
Blue moki	1943	0	21	10	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	21	10	0	0	0	4	2	0	0	37	
Blue moki	1944	0	15	10	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	15	10	0	0	0	2	5	0	0	32	
Blue moki	1945	0	28	8	0	0	4	5	0	0	0	0	0	0	0	0	0	0	0	0	28	8	0	0	0	4	5	0	0	45	
Blue moki	1946	1	71	7	0	0	13	9	0	0	0	0	0	0	0	0	0	0	0	1	71	7	0	0	0	0	13	9	0	101	
Blue moki	1947	2	50	21	0	1	10	6	0	0	0	0	0	0	0	0	0	0	0	2	50	21	0	1	0	10	6	0	0	90	
Blue moki	1948	0	62	22	0	3	31	4	0	0	0	0	0	0	0	0	0	0	0	62	22	0	3	0	31	4	0	0	122		
Blue moki	1949	0	144	21	0	1	28	7	0	0	0	0	0	0	0	0	0	0	0	144	21	0	1	0	28	7	0	0	201		
Blue moki	1950	2	177	21	0	1	56	10	0	0	0	0	0	0	0	0	0	0	0	2	177	21	0	1	0	56	10	0	0	267	
Blue moki	1951	2	178	18	0	1	27	15	0	0	0	0	0	0	0	0	0	0	0	2	178	18	0	1	0	27	15	0	0	241	
Blue moki	1952	19	208	18	0	1	38	17	0	0	0	0	0	0	0	0	0	0	0	19	208	18	0	1	0	38	17	0	0	301	
Blue moki	1953	42	224	17	0	3	31	17	0	0	0	0	0	0	0	0	0	0	0	42	224	17	0	3	0	31	17	0	0	334	
Blue moki	1954	13	186	19	0	1	29	20	0	0	0	0	0	0	0	0	0	0	0	13	186	19	0	1	0	29	20	0	0	268	
Blue moki	1955	37	146	18	0	2	32	28	0	0	0	0	0	0	0	0	0	0	0	37	146	18	0	2	0	32	28	0	0	263	
Blue moki	1956	24	226	11	0	2	30	24	0	0	0	0	0	0	0	0	0	0	0	24	226	11	0	2	0	30	24	0	0	317	
Blue moki	1957	54	152	47	0	4	40	20	0	0	0	0	0	0	0	0	0	0	0	54	152	47	0	4	0	40	20	0	0	317	
Blue moki	1958	52	212	23	0	1	50	35	0	0	0	0	0	0	0	0	0	0	0	52	212	23	0	1	0	50	35	0	0	373	
Blue moki	1959	7	212	17	0	1	28	23	0	0	0	0	0	0	0	0	0	0	0	7	212	17	0	1	0	28	23	0	0	288	
Blue moki	1960	2	253	16	0	0	25	23	0	0	0	0	0	0	0	0	0	0	0	2	253	16	0	0	0	25	23	0	0	319	
Blue moki	1961	9	380	16	0	2	24	20	0	0	0	0	0	0	0	0	0	0	0	9	380	16	0	2	0	24	20	0	0	451	
Blue moki	1962	9	363	38	0	2	26	33	0	0	0	0	0	0	0	0	0	0	0	9	363	38	0	2	0	26	33	0	0	471	
Blue moki	1963	7	549	22	0	2	30	41	0	0	0	0	0	0	0	0	0	0	0	7	549	22	0	2	0	30	41	0	0	651	
Blue moki	1964	9	523	28	0	1	27	34	1	0	0	0	0	0	0	0	0	0	0	9	523	28	0	1	0	27	34	1	0	623	
Blue moki	1965	4	540	25	0	1	25	29	0	0	0	0	0	0	0	0	0	0	0	4	540	25	0	1	0	25	29	0	0	624	
Blue moki	1966	4	552	14	0	0	21	42	0	0	0	0	0	0	0	0	0	0	0	4	552	14	0	0	0	0	21	42	0	0	633
Blue moki	1967	4	816	13	0	0	50	35	0	0	0	0	0	0	0	0	0	0	0	4	816	13	0	0	0	50	35	0	0	918	
Blue moki	1968	4	584	11	0	1	47	83	0	0	0	0	0	0	0	0	0	0	0	4	584	11	0	1	0	47	83	0	0	730	
Blue moki	1969	2	550	17	0	2	54	64	0	0	0	0	0	0	0	0	0	0	0	2	550	17	0	2	0	54	64	0	0	689	
Blue moki	1970	3	782	22	0	1	89	59	0	0	0	0	0	0	0	0	0	0	0	3	782	22	0	1	0	89	59	0	0	956	
Blue moki	1971	6	692	30	0	1	74	78	0	0	0	0	0	0	0	0	0	0	0	6	692	30	0	1	0	74	78	0	0	881	
Blue moki	1972	4	619	76	0	0	45	61	0	0	0	0	0	0	0	0	0	0	0	4	619	76	0	0	0	45	61	0	0	805	
Blue moki	1973	6	604	119	0	1	59	37	0	0	0	0	0	0	0	0	0	0	0	6	604	119	0	1	0	59	37	0	0	826	
Blue moki	1974	3	514	142	0	1	43	28	0	0	0	0	0	0	0	0	0	0	0	3	514	142	0	1	0	43	28	0	0	731	
Blue moki	1975	3	356	139	0	1	49	48	0	0	0	0	0	0	0	0	0	0	0	3	356	139	0	1	0	49	48	0	0	596	
Blue moki	1976	18	346	97	0	1	55	67	0	0	0	0	0	0	0	0	0	0	0	18	346	97	0	1	0	55	67	0	0	584	
Blue moki	1977	34	411	120	0	0	69	49	0	0	0	0	0	0	0	0	0	0	0	34	411	120	0	0	0	69	49	0	0	683	
Blue moki	1978	27	554	98	0	0	74	60	3	0	0	0	0	0	0	0	0	0	0	27	554	98	0	0	0	74	60	3	0	816	
Blue moki	1979	34	696	67	0	0	114	42	0	0	0	8	0	1	0	2	0	0	0	34	696	75	0	1	0	116	42	0	0	964	
Blue moki	1980	28	747	66	0	1	30	42	0	0	1	0	0	1	0	0	0	0	0	28	748	66	0	2	0	30	42	0	0	916	
Blue moki	1981	22	660	58	0	1	32	29	0	0	0	0	0	0	0	0	0	0	0	22	660	58	0	1	0	32	29	0	0	802	
Blue moki	1982	40	355	43	0	3	29	31	0	0	0	0	0	0	0	0	0	0	0	40	355	43	0	3	0	29	31	0	0	501	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Blue warehou	1931	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Blue warehou	1932	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Blue warehou	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue warehou	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue warehou	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue warehou	1936	0	63	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	63	0	0	0	0	0	8	8	0
Blue warehou	1937	0	96	2	0	0	12	12	0	0	0	0	0	0	0	0	0	0	96	2	0	0	0	0	12	12	0	122	
Blue warehou	1938	0	83	7	0	1	11	10	0	0	0	0	0	0	0	0	0	0	0	83	7	0	1	0	11	10	0	112	
Blue warehou	1939	0	7	8	0	1	1	1	0	0	0	0	0	0	0	0	0	0	7	8	0	1	0	1	1	0	0	18	
Blue warehou	1940	0	31	7	0	1	4	4	0	0	0	0	0	0	0	0	0	0	31	7	0	1	0	4	4	0	0	47	
Blue warehou	1941	0	43	11	0	1	5	5	0	0	0	0	0	0	0	0	0	0	43	11	0	1	0	5	5	0	0	65	
Blue warehou	1942	0	45	1	0	0	6	6	0	0	0	0	0	0	0	0	0	0	45	1	0	0	0	6	6	0	0	58	
Blue warehou	1943	0	45	2	0	0	6	6	0	0	0	0	0	0	0	0	0	0	45	2	0	0	0	6	6	0	0	59	
Blue warehou	1944	0	21	6	0	1	4	11	0	0	0	0	0	0	0	0	0	0	21	6	0	1	0	4	11	0	0	43	
Blue warehou	1945	0	8	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	1	4	0	0	13	
Blue warehou	1946	0	5	0	0	0	1	16	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	1	16	0	0	22	
Blue warehou	1947	0	5	1	0	0	0	1	24	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	1	24	0	0	31
Blue warehou	1948	0	1	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	20	
Blue warehou	1949	0	11	2	0	0	1	7	0	0	0	0	0	0	0	0	0	0	11	2	0	0	0	0	1	7	0	0	21
Blue warehou	1950	0	28	1	0	0	4	20	0	0	0	0	0	0	0	0	0	0	28	1	0	0	0	4	20	0	0	53	
Blue warehou	1951	0	11	0	0	0	1	20	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	1	20	0	0	32
Blue warehou	1952	0	10	1	0	0	1	5	0	0	0	0	0	0	0	0	0	0	10	1	0	0	0	0	1	5	0	0	17
Blue warehou	1953	0	30	0	0	0	4	11	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	4	11	0	0	45
Blue warehou	1954	0	43	0	0	0	6	20	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	6	20	0	0	69
Blue warehou	1955	0	33	0	0	0	5	7	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	5	7	0	0	45
Blue warehou	1956	0	52	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	7	7	0	0	66
Blue warehou	1957	0	99	0	0	0	15	12	0	0	0	0	0	0	0	0	0	0	99	0	0	0	0	0	15	12	0	0	126
Blue warehou	1958	0	85	3	0	0	12	11	0	0	0	0	0	0	0	0	0	0	85	3	0	0	0	0	12	11	0	0	111
Blue warehou	1959	0	109	2	0	0	14	14	0	0	0	0	0	0	0	0	0	0	109	2	0	0	0	0	14	14	0	0	139
Blue warehou	1960	0	56	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	7	7	0	0	70
Blue warehou	1961	0	69	1	0	0	9	8	0	0	0	0	0	0	0	0	0	0	69	1	0	0	0	0	9	8	0	0	87
Blue warehou	1962	0	88	2	1	0	10	11	0	0	0	0	0	0	0	0	0	0	88	2	1	0	0	0	10	11	0	0	112
Blue warehou	1963	0	86	7	1	1	11	10	0	0	0	0	0	0	0	0	0	0	86	7	1	1	0	11	10	0	0	116	
Blue warehou	1964	0	101	11	0	1	16	14	0	0	0	0	0	0	0	0	0	0	101	11	0	1	0	16	14	0	0	143	
Blue warehou	1965	0	59	4	0	0	7	7	0	0	0	0	0	0	0	0	0	0	59	4	0	0	0	0	7	7	0	0	77
Blue warehou	1966	0	25	4	0	0	9	3	0	0	0	0	0	0	0	0	0	0	25	4	0	0	0	0	9	3	0	0	41
Blue warehou	1967	0	72	28	0	0	229	6	0	0	0	0	0	0	0	0	0	0	72	28	0	0	0	0	229	6	0	0	335
Blue warehou	1968	0	73	33	0	0	256	4	0	0	0	0	0	0	0	0	0	0	73	33	0	0	0	0	256	4	0	0	366
Blue warehou	1969	1	97	7	0	0	56	9	0	0	0	0	0	0	0	0	0	1	97	7	0	0	0	0	56	9	0	0	170
Blue warehou	1970	0	101	28	0	1	230	9	0	0	0	0	0	0	0	0	0	0	101	28	0	1	0	0	230	9	0	0	369
Blue warehou	1971	0	138	31	0	1	244	25	0	0	0	0	0	0	0	0	0	0	138	31	0	1	0	0	244	25	0	0	439
Blue warehou	1972	0	166	58	0	5	182	23	0	0	0	0	0	0	0	0	0	0	166	58	0	5	0	0	182	23	0	0	434
Blue warehou	1973	0	184	86	0	4	413	33	5	0	0	0	0	0	0	0	0	0	184	86	0	4	0	0	413	33	5	0	725
Blue warehou	1974	0	180	103	0	5	530	25	1	0	0	0	0	0	0	0	0	0	180	103	0	5	0	0	530	25	1	0	844
Blue warehou	1975	0	123	48	0	6	308	39	2	0	0	0	0	0	0	0	0	0	123	48	0	6	0	0	308	39	2	0	526
Blue warehou	1976	3	190	212	4	58	422	90	11	0	0	0	0	0	0	0	0	3	190	212	4	58	0	0	422	90	11	0	990
Blue warehou	1977	3	238	227	1	18	433	140	24	0	0	0	0	0	0	0	0	3	238	227	1	18	0	0	433	140	24	0	1084
Blue warehou	1978	11	404	179	0	6	855	193	25	0	0	0	0	41	12	25	0	0	11	404	179	0	47	12	880	193	25	0	1751
Blue warehou	1979	7	597	210	1	18	720	244	17	0	1	45	9	645	26	6	3	1	7	598	255	10	663	26	726	247	18	0	2550
Blue warehou	1980	7	427	539	1	57	628	192	17	0	0	14	4	804	12	5	1	0	7	427	553	5	860	12	633	193	17	0	2707
Blue warehou	1981	6	457	1001	1	98	1062	214	24	0	0	9	6	1679	9	9	5	1	6	457	1010	7	1777	9	1071	219	25	0	4581
Blue warehou	1982	32	387	535	1	54	1036	222	30	0	0	12	13	1296	4	13													

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Bluenose	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1938	0	2	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	2	0	1	0	0	8
Bluenose	1939	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
Bluenose	1940	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
Bluenose	1941	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
Bluenose	1942	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Bluenose	1943	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Bluenose	1944	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Bluenose	1945	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Bluenose	1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1963	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Bluenose	1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1965	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Bluenose	1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1969	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Bluenose	1970	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	7
Bluenose	1971	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Bluenose	1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bluenose	1977	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Bluenose	1978	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Bluenose	1979	0	0	0	0	0	0	0	0	0	0	0	4	1	6	0	0	0	0	4	1	6	0	0	0	0	0	0	11
Bluenose	1980	0	0	0	0	0	0	0	0	0	0	0	0	4	8	0	3	0	0	0	0	0	4	8	0	3	0	0	15
Bluenose	1981	124	94	15	0	19	34	12	21	0	0	0	6	7	0	3	0	0	0	124	94	16	6	26	0	37	12	21	336
Bluenose	1982	230	141	39	0	3	40	9	17	0	0	10	8	23	0	3	1	0	230	141	48	8	26	0	43	10	17	523	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total	
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9			
Butterfish	1931	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	4	
Butterfish	1932	0	0	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5	0	0	7	
Butterfish	1933	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6	
Butterfish	1934	0	14	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	1	0	0	0	0	0	15	
Butterfish	1935	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	9
Butterfish	1936	0	35	0	0	3	12	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	3	0	12	0	0	0	50	
Butterfish	1937	1	40	6	0	1	5	0	0	0	0	0	0	0	0	0	0	0	1	40	6	0	1	0	5	0	0	0	53	
Butterfish	1938	0	29	4	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	29	4	0	0	0	11	0	0	0	44	
Butterfish	1939	0	15	5	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	15	5	0	0	0	7	0	0	0	27	
Butterfish	1940	0	15	5	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	15	5	0	0	0	12	0	0	0	32	
Butterfish	1941	0	15	4	0	5	10	0	0	0	0	0	0	0	0	0	0	0	0	15	4	0	5	0	10	0	0	0	34	
Butterfish	1942	7	14	7	0	5	5	0	0	0	0	0	0	0	0	0	0	0	7	14	7	0	5	0	5	0	0	0	38	
Butterfish	1943	24	17	3	0	0	8	0	0	0	0	0	0	0	0	0	0	0	24	17	3	0	0	8	0	0	0	52		
Butterfish	1944	23	17	4	0	2	19	3	0	0	0	0	0	0	0	0	0	0	23	17	4	0	2	0	19	3	0	0	68	
Butterfish	1945	19	16	2	0	0	20	4	0	0	0	0	0	0	0	0	0	0	19	16	2	0	0	0	20	4	0	0	61	
Butterfish	1946	44	14	4	0	3	17	16	0	0	0	0	0	0	0	0	0	0	44	14	4	0	3	0	17	16	0	0	98	
Butterfish	1947	19	20	2	0	3	30	22	0	0	0	0	0	0	0	0	0	0	19	20	2	0	3	0	30	22	0	0	96	
Butterfish	1948	1	12	5	0	15	23	23	0	0	0	0	0	0	0	0	0	0	1	12	5	0	15	0	23	23	0	0	79	
Butterfish	1949	2	14	3	0	5	17	17	0	0	0	0	0	0	0	0	0	0	2	14	3	0	5	0	17	17	0	0	58	
Butterfish	1950	1	17	6	0	1	23	15	0	0	0	0	0	0	0	0	0	0	1	17	6	0	1	0	23	15	0	0	63	
Butterfish	1951	0	14	4	0	1	17	22	0	0	0	0	0	0	0	0	0	0	14	4	0	1	0	17	22	0	0	58		
Butterfish	1952	0	12	7	0	1	25	21	0	0	0	0	0	0	0	0	0	0	12	7	0	1	0	25	21	0	0	66		
Butterfish	1953	1	10	6	0	10	31	17	0	0	0	0	0	0	0	0	0	0	1	10	6	0	10	0	31	17	0	0	75	
Butterfish	1954	2	12	6	0	6	34	18	0	0	0	0	0	0	0	0	0	0	2	12	6	0	6	0	34	18	0	0	78	
Butterfish	1955	0	12	4	0	5	30	16	0	0	0	0	0	0	0	0	0	0	12	4	0	5	0	30	16	0	0	67		
Butterfish	1956	3	24	4	0	7	32	16	0	0	0	0	0	0	0	0	0	0	3	24	4	0	7	0	32	16	0	0	86	
Butterfish	1957	2	14	3	0	4	25	16	0	0	0	0	0	0	0	0	0	0	2	14	3	0	4	0	25	16	0	0	64	
Butterfish	1958	1	14	6	0	4	33	15	0	0	0	0	0	0	0	0	0	0	1	14	6	0	4	0	33	15	0	0	73	
Butterfish	1959	1	15	3	0	10	51	20	0	0	0	0	0	0	0	0	0	0	1	15	3	0	10	0	51	20	0	0	100	
Butterfish	1960	0	13	3	0	1	42	18	0	0	0	0	0	0	0	0	0	0	13	3	0	1	0	42	18	0	0	77		
Butterfish	1961	0	21	3	0	5	50	15	0	0	0	0	0	0	0	0	0	0	21	3	0	5	0	50	15	0	0	94		
Butterfish	1962	0	31	4	0	4	56	17	0	0	0	0	0	0	0	0	0	0	31	4	0	4	0	56	17	0	0	112		
Butterfish	1963	0	13	3	0	2	55	13	0	0	0	0	0	0	0	0	0	0	13	3	0	2	0	55	13	0	0	86		
Butterfish	1964	0	22	6	0	0	57	16	0	0	0	0	0	0	0	0	0	0	22	6	0	0	0	57	16	0	0	101		
Butterfish	1965	6	17	2	0	1	59	15	0	0	0	0	0	0	0	0	0	6	17	2	0	1	0	59	15	0	0	100		
Butterfish	1966	1	21	2	0	0	60	18	0	0	0	0	0	0	0	0	0	0	1	21	2	0	0	0	60	18	0	0	102	
Butterfish	1967	0	20	7	0	0	58	9	0	0	0	0	0	0	0	0	0	0	20	7	0	0	0	58	9	0	0	94		
Butterfish	1968	0	25	4	0	1	50	10	0	0	0	0	0	0	0	0	0	0	25	4	0	1	0	50	10	0	0	90		
Butterfish	1969	1	27	8	0	0	38	6	0	0	0	0	0	0	0	0	0	0	1	27	8	0	0	0	38	6	0	0	80	
Butterfish	1970	1	22	4	0	0	50	8	0	0	0	0	0	0	0	0	0	0	1	22	4	0	0	0	50	8	0	0	85	
Butterfish	1971	1	32	2	0	0	36	7	0	0	0	0	0	0	0	0	0	0	1	32	2	0	0	0	36	7	0	0	78	
Butterfish	1972	0	12	1	0	0	32	5	0	0	0	0	0	0	0	0	0	0	12	1	0	0	0	32	5	0	0	50		
Butterfish	1973	1	25	1	0	2	36	5	0	0	0	0	0	0	0	0	0	0	1	25	1	0	2	0	36	5	0	0	70	
Butterfish	1974	0	20	4	0	3	25	6	0	0	0	0	0	0	0	0	0	0	20	4	0	3	0	25	6	0	0	58		
Butterfish	1975	1	8	4	0	0	26	7	0	0	0	0	0	0	0	0	0	0	1	8	4	0	0	0	26	7	0	0	46	
Butterfish	1976	0	14	3	0	0	54	8	0	0	0	0	0	0	0	0	0	0	0	14	3	0	0	0	54	8	0	0	79	
Butterfish	1977	0	15	5	0	2	43	6	0	0	0	0	0	0	0	0	0	0	15	5	0	2	0	43	6	0	0	71		
Butterfish	1978	0	15	4	0	1	67	10	0	0	0	0	0	0	0	0	0	0	15	4	0	1	0	67	10	0	0	97		
Butterfish	1979	0	22	13	0	2	34	10	0	0	0	0	0	0	0	0	0	0	22	13	0	2	0	34	10	0	0	81		
Butterfish	1980	0	35	3	0	2	39	6	1	0	0	0	0	0	0	0	0	0	35	3	0	2	0	39	6	1	0	86		
Butterfish	1981	0	30	5	0	4	50	12	0	0	0	0	0	0	0	0	0	0	30	5	0	4	0	50	12	0	0	101		
Butterfish	1982	1	34	5	0	4	59	5	0	0	0	0	0	0	0	0	0	0	1	34	5	0	4	0	59	5	0	0	108	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total	
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9			
Conger eel	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger eel	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger eel	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger eel	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger eel	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger eel	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger eel	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger eel	1938	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	3
Conger eel	1939	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	
Conger eel	1940	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	4	
Conger eel	1941	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	4	
Conger eel	1942	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	3	
Conger eel	1943	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	4	
Conger eel	1944	0	2	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3	1	0	0	6	
Conger eel	1945	0	2	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4	1	0	0	7	
Conger eel	1946	0	3	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5	1	0	0	9	
Conger eel	1947	0	3	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6	1	0	0	10	
Conger eel	1948	0	3	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4	1	0	0	8	
Conger eel	1949	2	2	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	3	1	0	0	8	
Conger eel	1950	1	1	1	0	0	3	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	3	1	0	0	7	
Conger eel	1951	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	3	
Conger eel	1952	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	
Conger eel	1953	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Conger eel	1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Conger eel	1955	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	2	
Conger eel	1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Conger eel	1957	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Conger eel	1958	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	5	
Conger eel	1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Conger eel	1960	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Conger eel	1961	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3		
Conger eel	1962	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	4	
Conger eel	1963	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
Conger eel	1964	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Conger eel	1965	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
Conger eel	1966	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Conger eel	1967	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Conger eel	1968	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
Conger eel	1969	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
Conger eel	1970	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	
Conger eel	1971	0	3	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	1	0	0	6	
Conger eel	1972	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	
Conger eel	1973	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	3	
Conger eel	1974	0	3	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	3	0	0	0	7	
Conger eel	1975	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	2	0	0	0	6	
Conger eel	1976	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	
Conger eel	1977	0	3	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	8	0	0	0	11	
Conger eel	1978	0	3	3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	5	0	0	0	11	
Conger eel	1979	0	2	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	4	0	0	0	8	
Conger eel	1980	0	3	6	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	3	6	0	0	0	10	0	0	0	19	
Conger eel	1981	0	3	9	0	1	13	0	0	0	0	0	0	0	0	0	0	0	0	3	9	0	1	0	13	0	0	0	26	
Conger eel	1982	4	0	7	0	1	8	1	0	0	0	0	0	0	0	0	0	0	4	0	7	0	1	0	8	1	0	0	21	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total	
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9			
Elephantfish	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Elephantfish	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Elephantfish	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Elephantfish	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Elephantfish	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Elephantfish	1936	0	0	79	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	0	0	0	1	0	0	0	80
Elephantfish	1937	0	0	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183	0	0	0	0	0	0	0	0	183
Elephantfish	1938	0	0	194	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	194	0	1	0	2	0	0	0	0	197
Elephantfish	1939	0	1	190	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	190	0	1	0	1	0	0	0	0	193
Elephantfish	1940	0	1	243	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	1	243	0	8	0	1	0	0	0	0	253
Elephantfish	1941	0	0	220	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220	0	1	0	0	0	0	0	0	221
Elephantfish	1942	0	0	163	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163	0	6	0	0	0	0	0	0	169
Elephantfish	1943	0	0	219	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	219	0	1	0	0	0	0	0	0	220
Elephantfish	1944	0	0	251	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	251	0	10	0	0	0	0	0	0	261
Elephantfish	1945	0	2	205	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	2	205	0	3	0	3	0	0	0	0	213
Elephantfish	1946	0	0	228	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	228	0	3	0	4	0	0	0	0	235
Elephantfish	1947	0	2	176	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	2	176	0	0	0	10	0	0	0	0	188
Elephantfish	1948	0	1	227	0	0	9	1	0	0	0	0	0	0	0	0	0	0	0	1	227	0	0	0	9	1	0	0	0	238
Elephantfish	1949	0	1	296	0	2	13	0	0	0	0	0	0	0	0	0	0	0	0	1	296	0	2	0	13	0	0	0	0	312
Elephantfish	1950	0	1	522	0	14	13	0	0	0	0	0	0	0	0	0	0	0	0	1	522	0	14	0	13	0	0	0	0	550
Elephantfish	1951	0	2	585	0	6	10	0	0	0	0	0	0	0	0	0	0	0	0	2	585	0	6	0	10	0	0	0	0	603
Elephantfish	1952	0	0	440	0	9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	440	0	9	0	5	0	0	0	0	454
Elephantfish	1953	0	1	514	0	13	3	2	0	0	0	0	0	0	0	0	0	0	0	1	514	0	13	0	3	2	0	0	0	533
Elephantfish	1954	0	1	839	0	5	7	1	0	0	0	0	0	0	0	0	0	0	0	1	839	0	5	0	7	1	0	0	0	853
Elephantfish	1955	0	2	771	0	4	25	1	0	0	0	0	0	0	0	0	0	0	0	2	771	0	4	0	25	1	0	0	0	803
Elephantfish	1956	0	0	933	0	16	29	1	0	0	0	0	0	0	0	0	0	0	0	0	933	0	16	0	29	1	0	0	0	979
Elephantfish	1957	0	2	992	0	28	46	0	0	0	0	0	0	0	0	0	0	0	0	2	992	0	28	0	46	0	0	0	0	1068
Elephantfish	1958	0	0	1140	0	47	51	0	0	0	0	0	0	0	0	0	0	0	0	0	1140	0	47	0	51	0	0	0	0	1238
Elephantfish	1959	0	0	1066	0	37	44	0	0	0	0	0	0	0	0	0	0	0	0	0	1066	0	37	0	44	0	0	0	0	1147
Elephantfish	1960	0	1	1099	0	38	27	0	0	0	0	0	0	0	0	0	0	0	0	1	1099	0	38	0	27	0	0	0	0	1165
Elephantfish	1961	0	0	913	0	43	27	0	0	0	0	0	0	0	0	0	0	0	0	0	913	0	43	0	27	0	0	0	0	983
Elephantfish	1962	0	2	1066	0	73	14	2	0	0	0	0	0	0	0	0	0	0	0	2	1066	0	73	0	14	2	0	0	0	1157
Elephantfish	1963	0	2	976	0	111	8	0	0	0	0	0	0	0	0	0	0	0	0	2	976	0	111	0	8	0	0	0	0	1097
Elephantfish	1964	0	2	1109	0	107	16	1	0	0	0	0	0	0	0	0	0	0	0	2	1109	0	107	0	16	1	0	0	0	1235
Elephantfish	1965	0	5	983	0	88	34	2	0	0	0	0	0	0	0	0	0	0	0	5	983	0	88	0	34	2	0	0	0	1112
Elephantfish	1966	0	1	985	0	99	27	0	0	0	0	0	0	0	0	0	0	0	0	1	985	0	99	0	27	0	0	0	0	1112
Elephantfish	1967	0	1	812	0	77	45	0	0	0	0	0	0	0	0	0	0	0	0	1	812	0	77	0	45	0	0	0	0	935
Elephantfish	1968	0	1	756	1	54	52	0	0	0	0	0	0	0	0	0	0	0	0	1	756	1	54	0	52	0	0	0	0	864
Elephantfish	1969	0	1	824	0	75	33	0	0	0	0	0	0	0	0	0	0	0	0	1	824	0	75	0	33	0	0	0	0	933
Elephantfish	1970	0	2	987	0	87	53	1	0	0	0	0	0	0	0	0	0	0	0	2	987	0	87	0	53	1	0	0	0	1130
Elephantfish	1971	0	0	1243	0	103	37	0	0	0	0	0	0	0	0	0	0	0	0	1243	0	103	0	37	0	0	0	0	1383	
Elephantfish	1972	0	0	928	0	70	15	0	0	0	0	0	0	0	0	0	0	0	0	928	0	70	0	15	0	0	0	0	1013	
Elephantfish	1973	0	0	864	0	73	21	0	0	0	0	0	0	0	0	0	0	0	0	864	0	73	0	21	0	0	0	0	958	
Elephantfish	1974	0	0	766	0	97	41	0	0	0	0	0	0	0	0	0	0	0	0	766	0	97	0	41	0	0	0	0	904	
Elephantfish	1975	0	0	553	4	55	28	1	0	0	0	0	0	0	0	0	0	0	0	553	4	55	0	28	1	0	0	0	641	
Elephantfish	1976	0	0	622	0	91	52	0	0	0	0	0	0	0	0	0	0	0	0	622	0	91	0	52	0	0	0	0	765	
Elephantfish	1977	0	0	601	0	114	45	0	0	0	0	0	0	0	0	0	0	0	0	601	0	114	0	45	0	0	0	0	760	
Elephantfish	1978	0	0	552	0	49	26	0	0	0	0	0	0	0	0	0	0	0	0	552	0	49	0	26	0	0	0	0	627	
Elephantfish	1979	0	0	660	0	63	18	0	0	0	0	0	1	0	0	0	0	0	0	661	0	63	0	18	0	0	0	0	742	
Elephantfish	1980	0	0	794	0	128	34	0	0	0	0	0	0	1	0	0	0	0	0	794	0	129	0	34	0	0	0	0	957	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Flatfish	1931	559	290	203	0	16	265	0	208	0	0	0	0	0	0	0	0	0	559	290	203	0	16	0	265	0	208	1541	
Flatfish	1932	799	218	52	0	9	276	1	159	0	0	0	0	0	0	0	0	0	799	218	52	0	9	0	276	1	159	1514	
Flatfish	1933	546	274	168	0	13	346	3	152	0	0	0	0	0	0	0	0	0	546	274	168	0	13	0	346	3	152	1502	
Flatfish	1934	529	201	68	0	15	195	2	179	0	0	0	0	0	0	0	0	0	529	201	68	0	15	0	195	2	179	1189	
Flatfish	1935	485	118	57	0	0	209	0	201	0	0	0	0	0	0	0	0	0	485	118	57	0	0	0	209	0	201	1070	
Flatfish	1936	325	126	122	0	17	139	1	113	0	0	0	0	0	0	0	0	0	325	126	122	0	17	0	139	1	113	843	
Flatfish	1937	416	124	339	0	41	123	1	154	0	0	0	0	0	0	0	0	0	416	124	339	0	41	0	123	1	154	1198	
Flatfish	1938	561	82	564	0	75	94	1	156	0	0	0	0	0	0	0	0	0	561	82	564	0	75	0	94	1	156	1533	
Flatfish	1939	560	128	409	0	39	83	0	161	0	0	0	0	0	0	0	0	0	560	128	409	0	39	0	83	0	161	1380	
Flatfish	1940	811	180	442	0	52	101	0	193	0	0	0	0	0	0	0	0	0	811	180	442	0	52	0	101	0	193	1779	
Flatfish	1941	777	139	573	0	49	139	0	166	0	0	0	0	0	0	0	0	0	777	139	573	0	49	0	139	0	166	1843	
Flatfish	1942	489	192	556	0	38	154	0	102	0	0	0	0	0	0	0	0	0	489	192	556	0	38	0	154	0	102	1531	
Flatfish	1943	555	89	572	0	34	172	0	114	0	0	0	0	0	0	0	0	0	555	89	572	0	34	0	172	0	114	1536	
Flatfish	1944	356	104	681	0	102	78	0	85	0	0	0	0	0	0	0	0	0	356	104	681	0	102	0	78	0	85	1406	
Flatfish	1945	338	103	820	0	164	83	1	97	0	0	0	0	0	0	0	0	0	338	103	820	0	164	0	83	1	97	1606	
Flatfish	1946	283	161	1062	0	202	146	7	109	0	0	0	0	0	0	0	0	0	283	161	1062	0	202	0	146	7	109	1970	
Flatfish	1947	418	93	1426	0	259	198	6	133	0	0	0	0	0	0	0	0	0	418	93	1426	0	259	0	198	6	133	2533	
Flatfish	1948	291	85	1274	0	220	214	8	142	0	0	0	0	0	0	0	0	0	291	85	1274	0	220	0	214	8	142	2234	
Flatfish	1949	276	68	1161	0	312	202	8	136	0	0	0	0	0	0	0	0	0	276	68	1161	0	312	0	202	8	136	2163	
Flatfish	1950	176	26	1159	0	287	176	5	108	0	0	0	0	0	0	0	0	0	176	26	1159	0	287	0	176	5	108	1937	
Flatfish	1951	209	59	969	0	209	135	3	99	0	0	0	0	0	0	0	0	0	209	59	969	0	209	0	135	3	99	1683	
Flatfish	1952	247	91	848	0	269	166	3	102	0	0	0	0	0	0	0	0	0	247	91	848	0	269	0	166	3	102	1726	
Flatfish	1953	227	147	1326	0	184	197	2	122	0	0	0	0	0	0	0	0	0	227	147	1326	0	184	0	197	2	122	2205	
Flatfish	1954	226	104	1052	0	132	213	8	150	0	0	0	0	0	0	0	0	0	226	104	1052	0	132	0	213	8	150	1885	
Flatfish	1955	242	114	816	0	97	248	11	135	0	0	0	0	0	0	0	0	0	242	114	816	0	97	0	248	11	135	1663	
Flatfish	1956	156	98	692	0	80	190	8	152	0	0	0	0	0	0	0	0	0	156	98	692	0	80	0	190	8	152	1376	
Flatfish	1957	161	59	484	0	45	183	5	147	0	0	0	0	0	0	0	0	0	161	59	484	0	45	0	183	5	147	1084	
Flatfish	1958	194	54	863	0	126	321	5	168	0	0	0	0	0	0	0	0	0	194	54	863	0	126	0	321	5	168	1731	
Flatfish	1959	175	40	883	0	88	382	8	187	0	0	0	0	0	0	0	0	0	175	40	883	0	88	0	382	8	187	1763	
Flatfish	1960	220	50	1121	0	136	361	8	190	0	0	0	0	0	0	0	0	0	220	50	1121	0	136	0	361	8	190	2086	
Flatfish	1961	167	95	609	0	56	273	7	219	0	0	0	0	0	0	0	0	0	167	95	609	0	56	0	273	7	219	1426	
Flatfish	1962	172	149	527	0	57	228	7	211	0	0	0	0	0	0	0	0	0	172	149	527	0	57	0	228	7	211	1351	
Flatfish	1963	157	101	566	0	61	228	5	195	0	0	0	0	0	0	0	0	0	157	101	566	0	61	0	228	5	195	1313	
Flatfish	1964	292	128	816	0	63	350	6	207	0	0	0	0	0	0	0	0	0	292	128	816	0	63	0	350	6	207	1862	
Flatfish	1965	426	99	845	0	72	518	10	173	0	0	0	0	0	0	0	0	0	426	99	845	0	72	0	518	10	173	2143	
Flatfish	1966	347	206	1024	0	117	496	16	200	0	0	0	0	0	0	0	0	0	347	206	1024	0	117	0	496	16	200	2406	
Flatfish	1967	399	221	1102	0	171	493	10	247	0	0	0	0	0	0	0	0	0	399	221	1102	0	171	0	493	10	247	2643	
Flatfish	1968	326	124	878	0	95	311	15	215	0	0	0	0	0	0	0	0	0	326	124	878	0	95	0	311	15	215	1964	
Flatfish	1969	396	171	778	0	158	269	22	290	0	0	0	0	0	0	0	0	0	396	171	778	0	158	0	269	22	290	2084	
Flatfish	1970	233	193	893	0	134	471	69	324	0	0	0	0	0	0	0	0	0	233	193	893	0	134	0	471	69	324	2317	
Flatfish	1971	169	123	921	0	107	276	26	238	0	0	0	0	0	0	0	0	0	169	123	921	0	107	0	276	26	238	1860	
Flatfish	1972	238	103	471	0	77	166	11	237	0	0	0	0	0	0	0	0	0	238	103	471	0	77	0	166	11	237	1303	
Flatfish	1973	213	131	602	0	115	442	18	225	0	0	0	0	0	0	0	0	0	213	131	602	0	115	0	442	18	225	1746	
Flatfish	1974	156	136	542	0	95	748	11	347	0	0	0	0	0	0	0	0	0	156	136	542	0	95	0	748	11	347	2035	
Flatfish	1975	130	153	520	5	73	476	3	301	0	0	0	0	0	0	0	0	0	130	153	520	5	73	0	476	3	301	1661	
Flatfish	1976	216	124	702	0	100	929	8	332	0	0	0	0	0	0	0	0	0	216	124	702	0	100	0	929	8	332	2411	
Flatfish	1977	286	248	794	0	122	1165	7	478	0	0	0	0	0	0	0	0	0	286	248	794	0	122	0	1165	7	478	3100	
Flatfish	1978	335	191	1381	0	349	1225	11	371	0	0	0	0	0	0	0	0	0	335	191	1381	0	349	0	1225	11	371	3863	
Flatfish	1979	371	265	1706	0	254	899	22	371	0	0	0	1	0	1	0	0												

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Frostfish	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1941	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Frostfish	1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1947	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	4
Frostfish	1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1966	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Frostfish	1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1969	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Frostfish	1970	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Frostfish	1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Frostfish	1978	1	0	0	0	0	0	3	0	0	0	4	2	0	0	0	779	30	16	1	5	2	0	0	0	782	31	16	837
Frostfish	1979	1	2	0	0	0	2	0	0	0	12	4	19	1	1	612	93	88	1	15	4	19	1	1	614	93	88	836	
Frostfish	1980	0	0	0	0	0	1	0	0	0	0	2	20	7	1	40	54	10	0	0	2	20	7	1	41	54	10	135	
Frostfish	1981	0	0	0	0	0	0	0	0	0	0	6	25	3	0	327	226	209	0	0	6	25	3	0	327	226	209	796	
Frostfish	1982	4	0	0	0	0	0	0	0	0	0	0	8	13	0	132	385	546	4	0	0	8	13	0	132	385	546	1088	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Garfish	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1933	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Garfish	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1939	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Garfish	1940	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Garfish	1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garfish	1944	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2
Garfish	1945	7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	1	0	0	0	8
Garfish	1946	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	3
Garfish	1947	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Garfish	1948	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Garfish	1949	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	1
Garfish	1950	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Garfish	1951	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Garfish	1952	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Garfish	1953	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Garfish	1954	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Garfish	1955	8	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	1
Garfish	1956	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	1
Garfish	1957	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2
Garfish	1958	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Garfish	1959	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1
Garfish	1960	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	2	0	0	6
Garfish	1961	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Garfish	1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Garfish	1963	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Garfish	1964	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Garfish	1965	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Garfish	1966	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
Garfish	1967	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Garfish	1968	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Garfish	1969	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Garfish	1970	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Garfish	1971	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Garfish	1972	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Garfish	1973	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Garfish	1974	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Garfish	1975	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Garfish	1976	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Garfish	1977	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Garfish	1978	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Garfish	1979	12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	1	0	0	0	0	0	0	0	13
Garfish	1980	9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	1	0	0	0	0	0	0	0	10
Garfish	1981	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Garfish	1982	11	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	2	0	0	0	13

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Gemfish	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gemfish	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gemfish	1933	0	42	0	0	0	24	42	0	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	24	42	0	108
Gemfish	1934	0	70	0	0	0	35	70	0	0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	35	70	0	175
Gemfish	1935	0	39	0	0	0	20	39	0	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	20	39	0	98
Gemfish	1936	0	37	12	0	1	20	37	0	0	0	0	0	0	0	0	0	0	0	37	12	0	1	0	0	20	37	0	107
Gemfish	1937	0	86	17	0	2	44	86	0	0	0	0	0	0	0	0	0	0	0	86	17	0	2	0	0	44	86	0	235
Gemfish	1938	0	50	36	0	11	22	44	0	0	0	0	0	0	0	0	0	0	0	50	36	0	11	0	0	22	44	0	163
Gemfish	1939	0	48	42	0	5	24	48	0	0	0	0	0	0	0	0	0	0	0	48	42	0	5	0	0	24	48	0	167
Gemfish	1940	0	58	56	0	16	29	58	0	0	0	0	0	0	0	0	0	0	0	58	56	0	16	0	0	29	58	0	217
Gemfish	1941	1	63	39	0	11	33	63	0	0	0	0	0	0	0	0	0	0	1	63	39	0	11	0	0	33	63	0	210
Gemfish	1942	0	47	17	0	5	24	47	0	0	0	0	0	0	0	0	0	0	0	47	17	0	5	0	0	24	47	0	140
Gemfish	1943	0	15	13	0	2	8	15	0	0	0	0	0	0	0	0	0	0	0	15	13	0	2	0	0	8	15	0	53
Gemfish	1944	0	14	13	0	2	8	15	0	0	0	0	0	0	0	0	0	0	0	14	13	0	2	0	0	8	15	0	52
Gemfish	1945	5	19	12	0	1	10	20	1	0	0	0	0	0	0	0	0	0	5	19	12	0	1	0	0	10	20	1	68
Gemfish	1946	4	20	27	0	3	12	21	1	0	0	0	0	0	0	0	0	0	4	20	27	0	3	0	0	12	21	1	88
Gemfish	1947	0	23	60	0	14	11	21	0	0	0	0	0	0	0	0	0	0	0	23	60	0	14	0	0	11	21	0	129
Gemfish	1948	1	28	42	0	9	16	28	0	0	0	0	0	0	0	0	0	0	1	28	42	0	9	0	0	16	28	0	124
Gemfish	1949	3	19	40	0	8	9	19	1	0	0	0	0	0	0	0	0	0	3	19	40	0	8	0	0	9	19	1	99
Gemfish	1950	12	32	45	0	14	10	20	3	0	0	0	0	0	0	0	0	0	12	32	45	0	14	0	0	10	20	3	136
Gemfish	1951	4	29	28	0	7	9	18	1	0	0	0	0	0	0	0	0	0	4	29	28	0	7	0	0	9	18	1	96
Gemfish	1952	1	21	38	0	7	7	15	0	0	0	0	0	0	0	0	0	0	1	21	38	0	7	0	0	7	15	0	89
Gemfish	1953	1	13	37	0	5	3	7	0	0	0	0	0	0	0	0	0	0	1	37	0	5	0	0	3	7	0	66	
Gemfish	1954	1	31	11	0	1	12	26	1	0	0	0	0	0	0	0	0	0	1	31	11	0	1	0	0	12	26	1	83
Gemfish	1955	0	25	20	0	2	7	16	0	0	0	0	0	0	0	0	0	0	25	20	0	2	0	0	7	16	0	70	
Gemfish	1956	0	31	24	0	3	11	24	0	0	0	0	0	0	0	0	0	0	31	24	0	3	0	0	11	24	0	93	
Gemfish	1957	0	12	19	0	2	3	7	2	0	0	0	0	0	0	0	0	0	12	19	0	2	0	0	3	7	2	45	
Gemfish	1958	0	34	17	0	2	9	19	5	0	0	0	0	0	0	0	0	0	34	17	0	2	0	0	9	19	5	86	
Gemfish	1959	1	40	52	0	6	12	26	1	0	0	0	0	0	0	0	0	1	40	52	0	6	0	0	12	26	1	138	
Gemfish	1960	2	61	59	0	6	12	27	1	0	0	0	0	0	0	0	0	2	61	59	0	6	0	0	12	27	1	168	
Gemfish	1961	5	42	13	0	1	5	14	1	0	0	0	0	0	0	0	0	5	42	13	0	1	0	0	5	14	1	81	
Gemfish	1962	4	58	44	0	5	7	20	1	0	0	0	0	0	0	0	0	4	58	44	0	5	0	0	7	20	1	139	
Gemfish	1963	17	72	17	0	2	10	28	2	0	0	0	0	0	0	0	0	17	72	17	0	2	0	0	10	28	2	148	
Gemfish	1964	15	48	18	0	2	8	21	2	0	0	0	0	0	0	0	0	15	48	18	0	2	0	0	8	21	2	114	
Gemfish	1965	18	96	10	0	1	5	23	1	0	0	0	0	0	0	0	0	18	96	10	0	1	0	0	5	23	1	154	
Gemfish	1966	12	102	10	0	5	0	26	0	0	0	0	0	0	0	0	0	12	102	10	0	5	0	0	0	26	0	154	
Gemfish	1967	31	173	13	0	1	37	9	1	0	0	0	0	0	0	0	0	31	173	13	0	1	0	0	37	9	1	265	
Gemfish	1968	18	183	14	0	1	23	10	0	0	0	0	0	0	0	0	0	18	183	14	0	1	0	0	23	10	0	247	
Gemfish	1969	60	308	10	0	1	11	11	0	0	0	0	0	0	0	0	0	60	308	10	0	1	0	0	11	11	0	398	
Gemfish	1970	50	281	21	0	1	21	7	0	0	0	0	0	0	0	0	0	50	281	21	0	1	0	0	21	7	0	377	
Gemfish	1971	52	315	21	0	3	42	17	0	0	0	0	0	0	0	0	0	52	315	21	0	3	0	0	42	17	0	448	
Gemfish	1972	84	261	12	0	3	29	8	1	0	0	0	0	0	0	0	0	84	261	12	0	3	0	0	29	8	1	398	
Gemfish	1973	54	237	42	0	4	45	57	2	0	0	0	0	0	0	0	0	54	237	42	0	4	0	0	45	57	2	441	
Gemfish	1974	19	150	14	0	0	48	41	2	0	0	0	0	0	0	0	0	19	150	14	0	0	0	0	48	41	2	274	
Gemfish	1975	2	96	5	0	1	7	30	0	0	0	0	0	0	166	0	0	2	96	5	0	167	0	0	7	30	0	307	
Gemfish	1976	11	108	4	0	4	7	29	0	0	0	0	0	0	0	0	0	11	108	4	0	4	0	0	7	29	0	163	
Gemfish	1977	22	118	3	0	1	37	37	0	0	0	0	0	0	0	0	0	22	118	3	0	1	0	0	37	37	0	218	
Gemfish	1978	11	172	28	0	4	77	56	0	0	63	48	0	331	0	901	35	25	11	235	76	0	334	0	0	978	92	25	1751
Gemfish	1979	35	131	44	0	3	122	59	4	0	104	1016	25	994	22	430	17	43	35	235	1059	25	997	22	552	76	47	3048	
Gemfish	1980	247	277	73	0	9	222	141	30	0	10	112	3	1689	13	558	3	1	247	287	185	3	1698	13	780	144	31	3388	
Gemfish	1981	204	350	181	0	19	287	156	13	0	0	179	8	970	12	1207	19	19	204	350	360	8	989	12	1494	175	32	3624	
Gemfish	1982	144	219	144	0	12	111	84	18	0	0</																		

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total			
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9					
Ghost sharks	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ghost sharks	1972	0	0	103	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	
Ghost sharks	1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ghost sharks	1974	0	0	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Ghost sharks	1975	0	0	8	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Ghost sharks	1976	0	0	19	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	
Ghost sharks	1977	0	0	2	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Ghost sharks	1978	0	0	5	0	0	10	2	0	0	0	49	0	100	30	5	0	0	0	0	53	0	100	30	15	2	0	0	0	0	200	
Ghost sharks	1979	0	0	88	0	5	162	24	0	0	2	398	383	173	131	106	4	0	0	2	486	383	178	131	267	27	1	0	0	0	1475	
Ghost sharks	1980	0	0	79	0	11	135	17	0	0	0	71	230	81	144	9	0	0	0	0	150	230	93	144	144	17	0	0	0	0	778	
Ghost sharks	1981	0	0	39	0	4	11	7	1	0	0	194	243	107	35	6	0	1	0	0	0	233	243	111	35	17	7	2	0	0	0	648
Ghost sharks	1982	0	0	106	0	11</td																										

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Grey mullet	1931	66	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	0	62	128
Grey mullet	1932	60	0	0	0	0	0	0	78	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	78	138
Grey mullet	1933	37	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	41	78
Grey mullet	1934	48	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	0	63	111
Grey mullet	1935	78	0	0	0	0	0	0	69	0	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	0	0	69	147
Grey mullet	1936	44	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	36	80
Grey mullet	1937	49	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	33	82
Grey mullet	1938	61	1	0	0	0	1	0	56	0	0	0	0	0	0	0	0	0	61	1	0	0	0	0	0	1	0	56	119
Grey mullet	1939	46	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	45	91
Grey mullet	1940	39	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	38	77
Grey mullet	1941	15	2	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	15	2	0	0	0	0	0	0	0	33	50
Grey mullet	1942	16	2	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	16	2	0	0	0	0	0	0	0	28	46
Grey mullet	1943	7	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	28	35
Grey mullet	1944	37	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	67	104
Grey mullet	1945	89	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	0	0	49	138
Grey mullet	1946	52	0	0	0	0	0	0	89	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	89	141
Grey mullet	1947	63	0	0	0	0	0	0	88	0	0	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	88	151
Grey mullet	1948	43	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	71	114
Grey mullet	1949	53	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	47	100
Grey mullet	1950	38	0	0	0	0	0	0	91	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	91	129
Grey mullet	1951	20	0	0	0	0	0	0	88	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	88	108
Grey mullet	1952	22	0	0	0	0	0	0	114	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	114	136
Grey mullet	1953	52	0	0	0	0	0	0	114	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	114	166
Grey mullet	1954	61	0	0	0	0	0	0	129	0	0	0	0	0	0	0	0	0	61	0	0	0	0	0	0	0	0	129	190
Grey mullet	1955	56	0	0	0	0	0	0	132	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	132	188
Grey mullet	1956	91	0	0	0	0	0	0	102	0	0	0	0	0	0	0	0	0	91	0	0	0	0	0	0	0	0	102	193
Grey mullet	1957	90	1	0	0	0	0	0	114	0	0	0	0	0	0	0	0	0	90	1	0	0	0	0	0	0	0	114	205
Grey mullet	1958	116	0	0	0	0	0	0	146	0	0	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0	0	146	262
Grey mullet	1959	106	0	0	0	0	0	0	138	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	138	244
Grey mullet	1960	70	0	0	0	0	0	0	143	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	143	213
Grey mullet	1961	70	0	0	0	0	0	0	160	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	160	230
Grey mullet	1962	71	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	120	191
Grey mullet	1963	79	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	120	199
Grey mullet	1964	113	0	0	0	0	0	0	101	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	0	0	0	101	214
Grey mullet	1965	104	2	3	0	0	0	0	118	0	0	0	0	0	0	0	0	0	104	2	3	0	0	0	0	0	0	118	227
Grey mullet	1966	103	0	0	0	0	0	0	137	0	0	0	0	0	0	0	0	0	103	0	0	0	0	0	0	0	0	137	240
Grey mullet	1967	65	0	0	0	0	0	0	178	0	0	0	0	0	0	0	0	0	65	0	0	0	0	0	0	0	0	178	243
Grey mullet	1968	64	0	0	0	0	0	0	192	0	0	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0	192	256
Grey mullet	1969	90	1	1	0	0	0	0	193	0	0	0	0	0	0	0	0	0	90	1	1	0	0	0	0	0	0	193	285
Grey mullet	1970	106	1	0	0	0	0	0	142	0	0	0	0	0	0	0	0	0	106	1	0	0	0	0	0	0	0	142	249
Grey mullet	1971	89	1	0	0	0	0	0	164	0	0	0	0	0	0	0	0	0	89	1	0	0	0	0	0	0	0	164	254
Grey mullet	1972	130	0	1	0	0	0	0	175	0	0	0	0	0	0	0	0	0	130	0	1	0	0	0	0	0	0	175	306
Grey mullet	1973	118	1	4	0	0	2	0	275	0	0	0	0	0	0	0	0	0	118	1	4	0	0	0	0	2	0	275	400
Grey mullet	1974	92	0	0	0	0	0	0	294	0	0	0	0	0	0	0	0	0	92	0	0	0	0	0	0	0	0	294	386
Grey mullet	1975	101	0	0	0	0	0	0	259	0	0	0	0	0	0	0	0	0	101	0	0	0	0	0	0	0	0	259	360
Grey mullet	1976	117	0	0	0	0	0	0	277	0	0	0	0	0	0	0	0	0	117	0	0	0	0	0	0	0	0	277	394
Grey mullet	1977	215	0	0	0	0	0	0	342	0	0	0	0	0	0	0	0	0	215	0	0	0	0	0	0	0	0	342	557
Grey mullet	1978	180	0	0	0	0	0	0	424	0	0	0	0	0	0	0	0	0	180	0	0	0	0	0	0	0	0	424	604
Grey mullet	1979	218	0	0	0	0	0	0	517	0	0	0	0	0	0	0	0	0	218	0	0	0	0	0	0	0	0	517	735
Grey mullet	1980	126	0	0	0	0	0	0	368	0	0	0	0	0	0	0	0	0	126	0	0	0	0	0	0	0	0	368	494
Grey mullet	1981	138	0	0	0	0	0	0	474	0	0	0	0	0	0	0	0	0	138	0	0	0	0	0	0	0	0	474	612
Grey mullet	1982	260	0	8	0	0	0	0	730	0</																			

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	
Groper	1931	223	0	207	2	130	13	13	8	0	0	0	0	0	0	0	0	0	223	0	207	2	130	0	13	13	8	596	
Groper	1932	192	276	242	0	91	98	53	9	0	0	0	0	0	0	0	0	0	192	276	242	0	91	0	98	53	9	961	
Groper	1933	190	330	173	25	99	127	53	8	0	0	0	0	0	0	0	0	0	190	330	173	25	99	0	127	53	8	1005	
Groper	1934	196	304	212	57	115	106	56	8	0	0	0	0	0	0	0	0	0	196	304	212	57	115	0	106	56	8	1054	
Groper	1935	176	201	146	70	33	109	33	3	0	0	0	0	0	0	0	0	0	176	201	146	70	33	0	109	33	3	771	
Groper	1936	125	445	115	12	29	156	50	4	0	0	0	0	0	0	0	0	0	125	445	115	12	29	0	156	50	4	936	
Groper	1937	117	523	315	15	29	148	52	2	0	0	0	0	0	0	0	0	0	117	523	315	15	29	0	148	52	2	1201	
Groper	1938	89	621	479	8	75	156	50	1	0	0	0	0	0	0	0	0	0	89	621	479	8	75	0	156	50	1	1479	
Groper	1939	116	502	409	12	59	155	43	2	0	0	0	0	0	0	0	0	0	116	502	409	12	59	0	155	43	2	1298	
Groper	1940	119	444	286	9	54	142	41	1	0	0	0	0	0	0	0	0	0	119	444	286	9	54	0	142	41	1	1096	
Groper	1941	78	450	302	10	46	150	44	2	0	0	0	0	0	0	0	0	0	78	450	302	10	46	0	150	44	2	1082	
Groper	1942	66	287	315	9	44	115	35	3	0	0	0	0	0	0	0	0	0	66	287	315	9	44	0	115	35	3	874	
Groper	1943	55	316	271	8	42	112	42	4	0	0	0	0	0	0	0	0	0	55	316	271	8	42	0	112	42	4	850	
Groper	1944	50	332	286	9	60	188	117	5	0	0	0	0	0	0	0	0	0	50	332	286	9	60	0	188	117	5	1047	
Groper	1945	99	311	271	3	65	173	128	7	0	0	0	0	0	0	0	0	0	99	311	271	3	65	0	173	128	7	1057	
Groper	1946	142	326	409	7	83	229	190	12	0	0	0	0	0	0	0	0	0	142	326	409	7	83	0	229	190	12	1398	
Groper	1947	86	401	563	5	142	250	175	12	0	0	0	0	0	0	0	0	0	86	401	563	5	142	0	250	175	12	1634	
Groper	1948	99	450	526	11	140	275	151	12	0	0	0	0	0	0	0	0	0	99	450	526	11	140	0	275	151	12	1664	
Groper	1949	163	498	547	7	142	364	236	11	0	0	0	0	0	0	0	0	0	163	498	547	7	142	0	364	236	11	1968	
Groper	1950	131	423	555	9	116	281	184	10	0	0	0	0	0	0	0	0	0	131	423	555	9	116	0	281	184	10	1709	
Groper	1951	97	353	381	19	102	267	171	7	0	0	0	0	0	0	0	0	0	97	353	381	19	102	0	267	171	7	1397	
Groper	1952	103	368	373	35	100	281	162	9	0	0	0	0	0	0	0	0	0	103	368	373	35	100	0	281	162	9	1431	
Groper	1953	97	349	431	33	96	252	137	8	0	0	0	0	0	0	0	0	0	97	349	431	33	96	0	252	137	8	1403	
Groper	1954	150	355	397	32	77	235	112	6	0	0	0	0	0	0	0	0	0	150	355	397	32	77	0	235	112	6	1364	
Groper	1955	138	351	419	26	82	197	88	4	0	0	0	0	0	0	0	0	0	138	351	419	26	82	0	197	88	4	1305	
Groper	1956	100	404	439	32	114	227	77	6	0	0	0	0	0	0	0	0	0	100	404	439	32	114	0	227	77	6	1399	
Groper	1957	122	380	419	23	92	246	76	11	0	0	0	0	0	0	0	0	0	122	380	419	23	92	0	246	76	11	1369	
Groper	1958	107	473	458	30	96	250	109	8	0	0	0	0	0	0	0	0	0	107	473	458	30	96	0	250	109	8	1531	
Groper	1959	138	406	350	54	68	198	87	9	0	0	0	0	0	0	0	0	0	138	406	350	54	68	0	198	87	9	1310	
Groper	1960	114	394	331	48	100	150	77	8	0	0	0	0	0	0	0	0	0	114	394	331	48	100	0	150	77	8	1222	
Groper	1961	126	369	348	50	82	139	80	9	0	0	0	0	0	0	0	0	0	126	369	348	50	82	0	139	80	9	1203	
Groper	1962	147	355	298	40	101	142	75	16	0	0	0	0	0	0	0	0	0	147	355	298	40	101	0	142	75	16	1174	
Groper	1963	177	315	321	56	75	159	71	20	0	0	0	0	0	0	0	0	0	177	315	321	56	75	0	159	71	20	1194	
Groper	1964	205	397	365	41	76	193	74	19	0	0	0	0	0	0	0	0	0	205	397	365	41	76	0	193	74	19	1370	
Groper	1965	197	368	325	68	48	176	52	15	0	0	0	0	0	0	0	0	0	197	368	325	68	48	0	176	52	15	1249	
Groper	1966	198	415	315	4	49	163	62	15	0	0	0	0	0	0	0	0	0	198	415	315	4	49	0	163	62	15	1221	
Groper	1967	218	448	275	0	49	228	85	11	0	0	0	0	0	0	0	0	0	218	448	275	0	49	0	228	85	11	1314	
Groper	1968	132	357	264	0	67	176	70	7	0	0	0	0	0	0	0	0	0	132	357	264	0	67	0	176	70	7	1073	
Groper	1969	190	454	220	0	30	138	84	7	0	0	0	0	0	0	0	0	0	190	454	220	0	30	0	138	84	7	1123	
Groper	1970	253	670	239	2	54	175	97	6	0	0	0	0	0	0	0	0	0	253	670	239	2	54	0	175	97	6	1496	
Groper	1971	176	562	289	4	41	181	78	15	0	0	0	0	0	0	0	0	0	176	562	289	4	41	0	181	78	15	1346	
Groper	1972	358	370	188	0	29	99	33	43	0	0	0	0	0	0	0	0	0	358	370	188	0	29	0	99	33	43	1120	
Groper	1973	374	481	215	0	30	136	32	45	0	0	0	0	0	0	0	0	0	374	481	215	0	30	0	136	32	45	1313	
Groper	1974	300	457	208	2	43	140	72	56	0	0	0	0	0	0	0	0	0	300	457	208	2	43	0	140	72	56	1278	
Groper	1975	194	312	170	2	30	291	55	23	3	3	43	16	25	0	88	7	7	198	315	213	18	55	0	379	62	30	1270	
Groper	1976	149	220	198	13	56	355	37	34	0	0	152	94	45	0	90	0	0	149	220	350	107	101	0	445	37	34	1443	
Groper	1977	182	278	144	7	47	289	58	18	22	23	121	80	0	0	286	55	55	204	301	266	87	47	0	575	112	73	1665	
Groper	1978	319	462	190	8	31	259	65	29	0	8	4	2	28	0	21	2	0	319	470	195	10	59	0	280	67	29	1429	
Groper	1979	563	484	284	2	34	268	69	56	0	3	71	145	77	2	8													

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total	
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9			
Jack mackerels	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack mackerels	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack mackerels	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack mackerels	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack mackerels	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack mackerels	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack mackerels	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack mackerels	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack mackerels	1939	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Jack mackerels	1940	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	4
Jack mackerels	1941	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Jack mackerels	1942	0	3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	1	0	0	5
Jack mackerels	1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack mackerels	1944	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	0	0	0	0	0	9
Jack mackerels	1945	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Jack mackerels	1946	3	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	6	0	0	0	0	9
Jack mackerels	1947	12	2	0	0	0	3	1	0	0	0	0	0	0	0	0	0	12	2	0	0	0	0	0	0	3	1	0	0	18
Jack mackerels	1948	0	3	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	5	1	0	0	9	
Jack mackerels	1949	0	5	0	0	0	20	2	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	20	2	0	0	27	
Jack mackerels	1950	0	7	5	0	1	1	2	0	0	0	0	0	0	0	0	0	0	7	5	0	1	0	1	2	0	0	0	0	16
Jack mackerels	1951	0	4	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	1	0	0	0	9
Jack mackerels	1952	0	1	4	0	0	7	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	7	0	0	0	12
Jack mackerels	1953	0	0	3	0	0	9	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	9	0	0	0	0	12
Jack mackerels	1954	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	4	
Jack mackerels	1955	0	3	0	0	0	11	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	11	1	0	0	15	
Jack mackerels	1956	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	3	
Jack mackerels	1957	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
Jack mackerels	1958	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
Jack mackerels	1959	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
Jack mackerels	1960	0	2	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	4	1	0	0	7	
Jack mackerels	1961	0	1	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	2	0	0	6	
Jack mackerels	1962	1	4	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	4	1	0	0	10	
Jack mackerels	1963	2	5	2	0	0	9	3	1	0	0	0	0	0	0	0	0	0	2	5	2	0	0	0	9	3	1	0	22	
Jack mackerels	1964	2	3	4	0	0	9	1	0	0	0	0	0	0	0	0	0	0	2	3	4	0	0	0	9	1	0	0	19	
Jack mackerels	1965	8	6	0	0	0	7	1	0	0	0	0	0	0	0	0	0	0	8	6	0	0	0	0	7	1	0	0	22	
Jack mackerels	1966	30	17	0	0	0	52	1	1	0	0	0	0	0	0	0	0	0	30	17	0	0	0	0	52	1	1	0	101	
Jack mackerels	1967	44	169	0	0	0	229	20	1	0	0	0	0	0	0	0	0	44	169	0	0	0	0	0	229	20	1	0	463	
Jack mackerels	1968	31	106	0	0	0	395	38	3	35	0	505	0	0	0	258	2898	966	66	106	505	0	0	0	653	2936	969	5235		
Jack mackerels	1969	29	99	0	0	0	152	21	0	0	0	388	0	0	0	2232	3495	1165	29	99	388	0	0	0	0	2384	3516	1165	7581	
Jack mackerels	1970	20	52	0	0	0	128	47	2	3	0	1029	0	0	0	1840	3943	1314	23	52	1029	0	0	0	0	1968	3990	1317	8379	
Jack mackerels	1971	69	256	0	0	0	251	48	7	148	0	776	0	0	0	5384	5246	1748	217	256	776	0	0	0	5635	5294	1755	13933		
Jack mackerels	1972	76	245	1	0	0	171	85	9	29	0	5448	0	1	0	5872	7083	2361	105	245	5449	0	1	0	6043	7168	2370	21381		
Jack mackerels	1973	136	259	1	0	0	252	59	16	0	0	1190	0	0	0	47	4644	7258	2419	136	259	1191	0	0	0	47	4896	7317	2435	16281
Jack mackerels	1974	494	742	0	0	0	141	51	21	0	0	2016	0	0	0	6438	7719	2573	494	742	2016	0	0	0	6579	7770	2594	20195		
Jack mackerels	1975	101	36	0	0	0	104	38	20	31	36	3568	6	41	0	0	7411	2470	132	72	3568	6	41	0	104	7449	2490	13862		
Jack mackerels	1976	494	127	0	0	0	292	75	22	0	217	5530	146	14	0	330	10132	3377	494	344	5530	146	14	0	622	10206	3399	20755		
Jack mackerels	1977	1031	269	0	0	0	234	133	26	0	17	5224	1	3	0	867	9352	3117	1031	286	5224	1	3	0	1101	9485	3143	20274		
Jack mackerels	1978	1045	201	0	0	0	314	169	44	0	4	1546	0	1	0	1252	2158	720	1045	205	1546	0	1	0	1567	2327	764	7455		
Jack mackerels	1979	1808	317	0	0	0	626	197	104	0	33	511	1	3	1	1283	1801	464	1808	349	511	1	3	1	1909	1998	568	7148		
Jack mackerels	1980	2110	389	79	0	0	403	158	106	0	5	24	0	1	0	818	1733	315	2110	393	103	0	1	0	1221	1				

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total	
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9			
John dory	1931	64	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0	6	70	
John dory	1932	55	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	5	60	
John dory	1933	52	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	5	57	
John dory	1934	39	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	3	42	
John dory	1935	83	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	83	0	0	0	0	0	0	0	0	9	92	
John dory	1936	95	2	0	0	0	1	2	10	0	0	0	0	0	0	0	0	0	95	2	0	0	0	0	0	1	2	10	110	
John dory	1937	72	2	0	0	0	0	0	1	8	0	0	0	0	0	0	0	0	72	2	0	0	0	0	0	0	0	1	83	
John dory	1938	70	2	1	0	0	0	0	1	8	0	0	0	0	0	0	0	0	70	2	1	0	0	0	0	0	0	1	82	
John dory	1939	36	3	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	36	3	0	0	0	0	0	0	0	2	45	
John dory	1940	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	4	
John dory	1941	0	5	1	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	3	2	0	11	
John dory	1942	3	3	3	0	0	3	1	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	3	1	0	13	
John dory	1943	11	3	3	0	0	3	1	1	0	0	0	0	0	0	0	0	0	11	3	3	0	0	0	0	3	1	1	22	
John dory	1944	10	6	2	0	0	5	1	1	0	0	0	0	0	0	0	0	0	10	6	2	0	0	0	0	5	1	1	25	
John dory	1945	11	4	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	11	4	0	0	0	0	0	1	2	1	19	
John dory	1946	24	6	0	0	0	3	1	3	0	0	0	0	0	0	0	0	0	24	6	0	0	0	0	0	3	1	3	37	
John dory	1947	21	10	2	0	0	12	2	2	0	0	0	0	0	0	0	0	0	21	10	2	0	0	0	0	12	2	2	49	
John dory	1948	19	20	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	19	20	1	0	0	0	0	1	0	2	43	
John dory	1949	19	77	0	0	0	4	2	3	0	0	0	0	0	0	0	0	0	19	77	0	0	0	0	0	4	2	3	105	
John dory	1950	14	62	0	0	0	6	3	3	0	0	0	0	0	0	0	0	0	14	62	0	0	0	0	0	6	3	3	88	
John dory	1951	3	36	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	3	36	0	0	0	0	0	2	2	2	45	
John dory	1952	28	46	0	0	0	5	4	6	0	0	0	0	0	0	0	0	0	28	46	0	0	0	0	0	5	4	6	89	
John dory	1953	135	60	0	0	0	7	2	28	0	0	0	0	0	0	0	0	0	135	60	0	0	0	0	0	7	2	28	232	
John dory	1954	156	44	0	0	0	25	8	25	0	0	0	0	0	0	0	0	0	156	44	0	0	0	0	0	25	8	25	258	
John dory	1955	132	45	0	0	0	24	5	30	0	0	0	0	0	0	0	0	0	132	45	0	0	0	0	0	24	5	30	236	
John dory	1956	133	41	0	0	0	24	5	42	0	0	0	0	0	0	0	0	0	133	41	0	0	0	0	0	24	5	42	245	
John dory	1957	76	33	0	0	0	20	4	34	0	0	0	0	0	0	0	0	0	76	33	0	0	0	0	0	20	4	34	167	
John dory	1958	91	45	0	0	0	40	9	41	0	0	0	0	0	0	0	0	0	91	45	0	0	0	0	0	40	9	41	226	
John dory	1959	122	53	0	0	0	50	11	35	0	0	0	0	0	0	0	0	0	122	53	0	0	0	0	0	50	11	35	271	
John dory	1960	108	70	0	0	0	53	11	50	0	0	0	0	0	0	0	0	0	108	70	0	0	0	0	0	53	11	50	292	
John dory	1961	118	65	0	0	0	52	11	38	0	0	0	0	0	0	0	0	0	118	65	0	0	0	0	0	52	11	38	284	
John dory	1962	112	74	0	0	0	38	13	38	0	0	0	0	0	0	0	0	0	112	74	0	0	0	0	0	38	13	38	275	
John dory	1963	86	82	0	0	0	44	14	28	0	0	0	0	0	0	0	0	0	86	82	0	0	0	0	0	44	14	28	254	
John dory	1964	84	70	1	0	0	30	15	28	0	0	0	0	0	0	0	0	0	84	70	1	0	0	0	0	30	15	28	228	
John dory	1965	88	82	0	0	0	32	19	23	0	0	0	0	0	0	0	0	0	88	82	0	0	0	0	0	32	19	23	244	
John dory	1966	112	86	0	0	0	37	24	36	0	0	0	0	0	0	0	0	0	112	86	0	0	0	0	0	37	24	36	295	
John dory	1967	125	80	0	0	0	41	22	37	0	0	0	0	0	0	0	0	0	125	80	0	0	0	0	0	41	22	37	305	
John dory	1968	155	58	0	0	0	36	25	48	0	0	0	0	0	0	0	0	0	155	58	0	0	0	0	0	36	25	48	322	
John dory	1969	146	72	0	0	0	19	24	43	0	0	0	0	0	0	0	0	0	146	72	0	0	0	0	0	19	24	43	304	
John dory	1970	196	104	0	0	0	24	33	63	0	0	0	0	0	0	0	0	0	196	104	0	0	0	0	0	24	33	63	420	
John dory	1971	164	107	1	0	0	38	34	70	0	0	0	0	0	0	0	0	0	164	107	1	0	0	0	0	38	34	70	414	
John dory	1972	153	92	0	0	0	34	30	60	0	0	0	0	0	0	0	0	0	153	92	0	0	0	0	0	34	30	60	369	
John dory	1973	183	78	0	0	0	30	21	76	0	0	0	0	0	0	0	0	0	183	78	0	0	0	0	0	30	21	76	388	
John dory	1974	277	83	0	0	0	28	18	63	0	0	0	0	0	0	0	0	0	277	83	0	0	0	0	0	28	18	63	469	
John dory	1975	192	68	0	0	0	22	24	69	0	0	0	0	0	0	0	0	0	192	68	0	0	0	0	0	22	24	69	375	
John dory	1976	261	99	0	0	0	55	36	101	0	0	0	0	0	0	0	0	0	261	99	0	0	0	0	0	55	36	101	552	
John dory	1977	234	107	0	0	0	73	34	81	0	0	0	0	0	0	0	0	0	234	107	0	0	0	0	0	73	34	81	529	
John dory	1978	286	83	0	0	0	19	34	104	0	0	0	0	0	0	5	2	2	286	83	0	0	0	0	0	24	36	107	536	
John dory	1979	369	83	0	0	0	21	36	134	0	0	0	0	0	0	8	2	0	369	83	0	0	0	0	0	30	38	134	654	
John dory	1980	391	116	0	0	0	26	39	168	0	0	0	0	0	0	0	2	18	4	391	116	0	0	0	0	0	29	58	172	766
John dory	1981	426	130	0	0	0	19	30	202	0	0	0	0	0	0	0	19	26	18	426	130	0	0	0	0	0				

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total		
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9				
Kahawai	1931	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1		
Kahawai	1932	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1		
Kahawai	1933	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Kahawai	1934	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
Kahawai	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kahawai	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kahawai	1937	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	4	
Kahawai	1938	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	5	
Kahawai	1939	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	3	
Kahawai	1940	1	4	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	2	1	0	0	8	
Kahawai	1941	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	4	
Kahawai	1942	21	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	21	1	1	0	0	0	0	1	0	0	24		
Kahawai	1943	58	3	1	0	0	0	3	2	1	0	0	0	0	0	0	0	0	58	3	1	0	0	0	0	3	2	1	68		
Kahawai	1944	90	7	0	0	0	4	4	2	0	0	0	0	0	0	0	0	0	90	7	0	0	0	0	0	4	4	2	107		
Kahawai	1945	102	2	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	102	2	1	0	0	0	0	2	1	0	108		
Kahawai	1946	94	0	1	0	0	3	8	1	0	0	0	0	0	0	0	0	0	94	0	1	0	0	0	0	3	8	1	107		
Kahawai	1947	54	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	4	1	0	59		
Kahawai	1948	58	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	58	2	0	0	0	0	0	1	1	0	62		
Kahawai	1949	23	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	23	3	0	0	0	0	0	0	0	0	1	27	
Kahawai	1950	34	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	34	2	1	0	0	0	0	0	0	0	1	38	
Kahawai	1951	22	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	22	1	0	0	0	0	0	0	0	0	2	25	
Kahawai	1952	27	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	27	2	0	0	0	0	0	0	0	0	3	32	
Kahawai	1953	14	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	14	1	0	0	0	0	0	0	0	0	4	19	
Kahawai	1954	18	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	18	2	0	0	0	0	0	0	0	0	1	22	
Kahawai	1955	19	6	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	19	6	0	0	0	0	0	0	0	0	1	6	32
Kahawai	1956	16	3	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	16	3	0	0	0	0	0	0	0	0	1	6	26
Kahawai	1957	25	6	0	0	0	0	0	2	11	0	0	0	0	0	0	0	0	25	6	0	0	0	0	0	0	0	0	2	11	44
Kahawai	1958	33	13	0	0	0	0	0	1	11	0	0	0	0	0	0	0	0	33	13	0	0	0	0	0	0	0	0	1	11	58
Kahawai	1959	31	2	0	0	0	0	0	2	12	0	0	0	0	0	0	0	0	31	2	0	0	0	0	0	0	0	0	2	12	47
Kahawai	1960	40	1	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0	40	1	0	0	0	0	0	0	0	0	1	9	51
Kahawai	1961	40	0	0	0	0	0	0	1	11	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	1	11	52
Kahawai	1962	54	7	0	0	0	0	0	1	15	0	0	0	0	0	0	0	0	54	7	0	0	0	0	0	0	0	0	1	15	77
Kahawai	1963	60	11	0	0	0	0	0	1	10	0	0	0	0	0	0	0	0	60	11	0	0	0	0	0	0	0	0	1	10	82
Kahawai	1964	75	4	1	0	0	0	0	1	6	0	0	0	0	0	0	0	0	75	4	1	0	0	0	0	0	0	0	1	6	87
Kahawai	1965	85	13	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	85	13	0	0	0	0	0	0	0	0	0	4	102
Kahawai	1966	143	106	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	143	106	0	0	0	0	0	0	0	0	1	4	254
Kahawai	1967	147	303	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	147	303	0	0	0	0	0	0	0	0	1	4	455
Kahawai	1968	107	159	7	0	0	0	22	1	6	0	0	0	0	0	0	0	0	107	159	7	0	0	0	0	0	22	1	6	302	
Kahawai	1969	163	29	3	0	0	0	9	17	16	0	0	0	0	0	0	0	0	163	29	3	0	0	0	0	0	9	17	16	237	
Kahawai	1970	141	59	6	0	0	0	16	38	36	0	0	0	0	0	0	0	0	141	59	6	0	0	0	0	0	16	38	36	296	
Kahawai	1971	185	258	3	0	0	0	7	52	67	0	0	0	0	0	0	0	0	185	258	3	0	0	0	0	0	7	52	67	572	
Kahawai	1972	168	151	6	0	0	0	16	7	46	0	0	0	0	0	0	0	0	168	151	6	0	0	0	0	0	16	7	46	394	
Kahawai	1973	295	132	4	0	0	0	9	41	106	0	0	0	0	0	0	0	0	295	132	4	0	0	0	0	0	9	41	106	587	
Kahawai	1974	357	206	7	0	0	0	10	56	170	0	0	0	0	0	0	0	0	357	206	7	0	0	0	0	0	10	56	170	806	
Kahawai	1975	140	28	6	0	0	0	12	39	115	0	0	0	0	0	0	0	0	140	28	6	0	0	0	0	0	12	39	115	340	
Kahawai	1976	401	108	12	0	0	0	18	18	168	0	0	0	0	0	0	0	0	401	108	12	0	0	0	0	0	18	18	168	725	
Kahawai	1977	631	385	20	0	0	0	198	31	193	0	0	0	0	0	0	0	0	631	385	20	0	0	0	0	0	198	31	193	1458	
Kahawai	1978	1237	487	41	0	0	0	238	39	178	0	0	0	0	0	0	0	0	1237	487	41	0	0	0	0	0	238	39	178	2220	
Kahawai	1979	1642	552	158	0	0	0	450	33	234	0	0	0	0	0	0	0	0	1642	552	158	0	0	0	0	0	450	33	234	3069	
Kahawai	1980	1213	885	240	0	0	0	570	35	315	0	0	0	0	0	0	0	0	1213	885	240	0	0	0	0	0	570	35	315	3258	
Kahawai	1981	65																													

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total	
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Kingfish	1931	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10	
Kingfish	1932	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5	
Kingfish	1933	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	
Kingfish	1934	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Kingfish	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kingfish	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kingfish	1937	3	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	2	0	6	
Kingfish	1938	1	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3	0	5	
Kingfish	1939	13	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	1	0	14	
Kingfish	1940	80	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	80	1	0	0	0	0	0	2	0	83	
Kingfish	1941	141	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	141	2	0	0	0	0	0	1	1	145	
Kingfish	1942	90	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	1	0	0	0	0	0	0	0	91	
Kingfish	1943	28	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	28	2	0	0	0	0	0	0	1	31	
Kingfish	1944	20	2	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	20	2	0	0	0	0	0	0	2	1	
Kingfish	1945	31	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	1	33	
Kingfish	1946	16	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	1	0	
Kingfish	1947	11	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	11	1	0	0	0	0	0	0	2	1	
Kingfish	1948	8	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	0	0	1	11	
Kingfish	1949	16	3	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	16	3	0	0	0	0	0	2	2	0	
Kingfish	1950	19	4	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	19	4	0	0	0	0	0	4	2	0	
Kingfish	1951	17	3	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	17	3	0	0	0	0	0	2	2	0	
Kingfish	1952	33	2	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	33	2	0	0	0	0	0	4	1	40	
Kingfish	1953	35	2	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	35	2	0	0	0	0	0	4	1	42	
Kingfish	1954	23	17	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	23	17	0	0	0	0	0	1	1	42	
Kingfish	1955	14	5	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	14	5	0	0	0	0	0	2	1	0	
Kingfish	1956	12	3	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	12	3	0	0	0	0	0	3	1	0	
Kingfish	1957	18	2	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	18	2	0	0	0	0	0	2	1	24	
Kingfish	1958	13	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	13	2	0	0	0	0	0	0	1	17	
Kingfish	1959	10	4	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	10	4	0	0	0	0	0	0	1	16	
Kingfish	1960	11	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	5	1	0	0	0	0	0	0	17	
Kingfish	1961	18	7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	18	7	0	0	0	0	0	1	0	26	
Kingfish	1962	20	10	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	20	10	0	0	0	0	0	1	1	32	
Kingfish	1963	18	9	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	18	9	0	0	0	0	0	0	0	1	
Kingfish	1964	18	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	18	6	0	0	0	0	0	0	0	1	
Kingfish	1965	21	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	13	1	0	0	0	0	0	0	35	
Kingfish	1966	32	20	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	32	20	1	0	0	0	0	1	1	0	
Kingfish	1967	40	17	1	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	40	17	1	0	0	0	0	1	1	2	
Kingfish	1968	58	23	1	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	58	23	1	0	0	0	0	2	1	3	
Kingfish	1969	75	29	2	0	0	0	2	1	5	0	0	0	0	0	0	0	0	0	75	29	2	0	0	0	0	2	1	5	
Kingfish	1970	93	34	2	0	0	0	2	1	6	0	0	0	0	0	0	0	0	0	93	34	2	0	0	0	0	2	1	6	
Kingfish	1971	111	40	2	0	0	0	2	1	7	0	0	0	0	0	0	0	0	0	111	40	2	0	0	0	0	2	1	7	
Kingfish	1972	129	46	2	0	0	0	3	1	8	0	0	0	0	0	0	0	0	0	129	46	2	0	0	0	0	3	1	8	
Kingfish	1973	189	48	0	0	0	2	1	9	0	0	0	0	0	0	0	0	0	0	189	48	0	0	0	0	0	2	1	9	
Kingfish	1974	214	63	3	0	0	0	4	0	12	0	0	0	0	0	0	0	0	0	214	63	3	0	0	0	0	4	0	12	
Kingfish	1975	66	46	3	0	0	0	2	1	8	0	0	0	0	0	0	0	0	0	66	46	3	0	0	0	0	2	1	8	
Kingfish	1976	114	51	0	0	0	3	2	9	0	0	0	0	0	0	0	0	0	0	114	51	0	0	0	0	0	3	2	9	
Kingfish	1977	109	38	3	0	0	0	8	4	10	0	0	0	0	0	0	0	0	0	109	38	3	0	0	0	0	8	4	10	
Kingfish	1978	299	43	3	0	0	0	4	11	15	0	0	0	0	0	0	0	0	0	299	43	3	0	0	0	0	4	11	15	
Kingfish	1979	242	45	5	0	0	0	10	12	42	0	1	0	0	0	0	0	0	0	4	5	242	46	5	0	0	0	10	15	47
Kingfish	1980	161	37	7	0	0	0	5	9	25	0	0	0	0	0	0	0	0	0	161	37	7	0	0	0	0	6	10	25	
Kingfish	1981	195	25	5	0	0	0	4	11	38	0	0	0	0	0	0	0	0	0	195	25	5	0	0	0	0	5	15	38	
Kingfish	1982	247	25	2	0	0	0	2	10	32	0	0	0	0	0	0	0	0	0	247	25	2	0	0	0	0	2	12	33	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Leatherjacket	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1948	13	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	1
Leatherjacket	1949	13	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	14
Leatherjacket	1950	7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	8
Leatherjacket	1951	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Leatherjacket	1952	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	7
Leatherjacket	1953	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	7
Leatherjacket	1954	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	1
Leatherjacket	1955	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Leatherjacket	1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leatherjacket	1961	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Leatherjacket	1962	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Leatherjacket	1963	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Leatherjacket	1964	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Leatherjacket	1965	14	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	2
Leatherjacket	1966	15	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	2
Leatherjacket	1967	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Leatherjacket	1968	24	0	0	0	0	0	4	0	2	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	30
Leatherjacket	1969	24	1	0	0	0	11	1	2	0	0	0	0	0	0	0	0	0	0	24	1	0	0	0	0	0	0	0	39
Leatherjacket	1970	32	0	0	0	0	10	1	2	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	45
Leatherjacket	1971	45	2	0	0	0	8	1	4	0	0	0	0	0	0	0	0	0	0	45	2	0	0	0	0	0	0	0	60
Leatherjacket	1972	31	1	0	0	0	10	21	3	0	0	0	0	0	0	0	0	0	0	31	1	0	0	0	0	0	0	0	66
Leatherjacket	1973	27	1	0	0	0	14	31	4	0	0	0	0	0	0	0	0	0	0	27	1	0	0	0	0	0	0	0	77
Leatherjacket	1974	44	2	0	0	0	17	27	7	0	0	0	0	0	0	0	0	0	0	44	2	0	0	0	0	0	0	0	97
Leatherjacket	1975	35	0	0	0	0	26	3	4	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	68
Leatherjacket	1976	51	2	0	0	0	68	85	8	0	0	0	0	0	0	0	0	0	0	51	2	0	0	0	0	0	0	0	214
Leatherjacket	1977	45	1	0	0	0	96	66	4	0	0	0	0	0	0	0	0	0	0	45	1	0	0	0	0	0	0	0	212
Leatherjacket	1978	78	0	0	0	0	18	67	7	0	0	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	0	0	170
Leatherjacket	1979	74	0	0	0	0	67	112	7	0	0	0	0	0	0	0	0	0	0	74	0	0	0	0	0	0	0	0	260
Leatherjacket	1980	75	0	173	0	0	70	162	6	0	0	0	0	0	0	0	0	0	0	75	0	173	0	0	0	0	0	0	486
Leatherjacket	1981	84	3	68	0	0	74	116	9	0	0	0	0	0	0	0	0	0	0	84	3	68	0	0	0	0	0	0	360
Leatherjacket	1982	100	1	4	0	1	46	64	11	0	0	0	0	0	0	0	0	0	0	100	1	4	0	1	0	46	64	11	227

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Ling	1931	0	0	11	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	1	0	0	0	0	0	12
Ling	1932	0	63	14	0	2	26	9	0	0	0	0	0	0	0	0	0	0	0	63	14	0	2	0	26	9	0	114	
Ling	1933	0	146	59	0	1	46	21	0	0	0	0	0	0	0	0	0	0	0	146	59	0	1	0	46	21	0	273	
Ling	1934	0	217	70	0	1	63	31	0	0	0	0	0	0	0	0	0	0	0	217	70	0	1	0	63	31	0	382	
Ling	1935	0	146	124	0	1	45	21	0	0	0	0	0	0	0	0	0	0	0	146	124	0	1	0	45	21	0	337	
Ling	1936	0	133	103	0	1	42	19	0	0	0	0	0	0	0	0	0	0	0	133	103	0	1	0	42	19	0	298	
Ling	1937	0	91	320	0	1	44	13	0	0	0	0	0	0	0	0	0	0	0	91	320	0	1	0	44	13	0	469	
Ling	1938	0	66	280	0	24	28	9	0	0	0	0	0	0	0	0	0	0	0	66	280	0	24	0	28	9	0	407	
Ling	1939	0	40	320	0	16	21	5	0	0	0	0	0	0	0	0	0	0	0	40	320	0	16	0	21	5	0	402	
Ling	1940	1	85	286	0	21	35	11	0	0	0	0	0	0	0	0	0	0	1	85	286	0	21	0	35	11	0	439	
Ling	1941	0	64	308	0	22	32	8	0	0	0	0	0	0	0	0	0	0	0	64	308	0	22	0	32	8	0	434	
Ling	1942	0	54	254	0	24	22	7	0	0	0	0	0	0	0	0	0	0	0	54	254	0	24	0	22	7	0	361	
Ling	1943	0	83	264	0	19	29	11	0	0	0	0	0	0	0	0	0	0	83	264	0	19	0	29	11	0	406		
Ling	1944	0	103	224	0	13	32	14	0	0	0	0	0	0	0	0	0	0	103	224	0	13	0	32	14	0	386		
Ling	1945	1	122	199	0	13	39	41	0	0	0	0	0	0	0	0	0	0	1	122	199	0	13	0	39	41	0	415	
Ling	1946	0	153	348	0	9	50	28	0	0	0	0	0	0	0	0	0	0	0	153	348	0	9	0	50	28	0	588	
Ling	1947	0	203	474	0	24	68	28	0	0	0	0	0	0	0	0	0	0	0	203	474	0	24	0	68	28	0	797	
Ling	1948	0	120	403	0	24	49	17	0	0	0	0	0	0	0	0	0	0	0	120	403	0	24	0	49	17	0	613	
Ling	1949	0	108	402	0	20	50	17	0	0	0	0	0	0	0	0	0	0	0	108	402	0	20	0	50	17	0	597	
Ling	1950	0	84	352	0	29	49	12	0	0	0	0	0	0	0	0	0	0	0	84	352	0	29	0	49	12	0	526	
Ling	1951	0	60	230	0	16	25	9	0	0	0	0	0	0	0	0	0	0	0	60	230	0	16	0	25	9	0	340	
Ling	1952	0	69	235	0	16	26	10	0	0	0	0	0	0	0	0	0	0	0	69	235	0	16	0	26	10	0	356	
Ling	1953	0	62	212	0	19	24	10	0	0	0	0	0	0	0	0	0	0	0	62	212	0	19	0	24	10	0	327	
Ling	1954	0	75	208	0	7	31	13	0	0	0	0	0	0	0	0	0	0	0	75	208	0	7	0	31	13	0	334	
Ling	1955	0	48	160	0	6	20	7	0	0	0	0	0	0	0	0	0	0	0	48	160	0	6	0	20	7	0	241	
Ling	1956	0	27	155	0	4	12	3	0	0	0	0	0	0	0	0	0	0	0	27	155	0	4	0	12	3	0	201	
Ling	1957	0	34	175	0	8	15	4	0	0	0	0	0	0	0	0	0	0	0	34	175	0	8	0	15	4	0	236	
Ling	1958	0	43	178	0	15	23	5	0	0	0	0	0	0	0	0	0	0	0	43	178	0	15	0	23	5	0	264	
Ling	1959	0	39	157	0	13	22	5	0	0	0	0	0	0	0	0	0	0	0	39	157	0	13	0	22	5	0	236	
Ling	1960	0	26	196	0	21	16	3	0	0	0	0	0	0	0	0	0	0	0	26	196	0	21	0	16	3	0	262	
Ling	1961	0	25	230	0	20	16	3	0	0	0	0	0	0	0	0	0	0	0	25	230	0	20	0	16	3	0	294	
Ling	1962	1	27	211	0	13	13	3	0	0	0	0	0	0	0	0	0	0	1	27	211	0	13	0	13	3	0	268	
Ling	1963	1	17	213	0	14	10	1	0	0	0	0	0	0	0	0	0	0	1	17	213	0	14	0	10	1	0	256	
Ling	1964	1	20	223	0	16	12	1	0	0	0	0	0	0	0	0	0	0	1	20	223	0	16	0	12	1	0	273	
Ling	1965	1	21	195	0	24	11	2	0	0	0	0	0	0	0	0	0	0	1	21	195	0	24	0	11	2	0	254	
Ling	1966	5	52	141	0	16	15	2	0	0	0	0	0	0	0	0	0	0	5	52	141	0	16	0	15	2	0	231	
Ling	1967	7	40	106	0	14	34	2	0	0	0	0	0	0	0	0	0	0	7	40	106	0	14	0	34	2	0	203	
Ling	1968	7	55	88	0	11	39	3	0	0	0	0	0	0	0	0	0	0	7	55	88	0	11	0	39	3	0	203	
Ling	1969	5	52	154	0	10	19	4	0	0	0	0	0	0	0	0	0	0	5	52	154	0	10	0	19	4	0	244	
Ling	1970	6	67	167	0	14	46	5	0	0	0	0	0	0	0	0	0	0	6	67	167	0	14	0	46	5	0	305	
Ling	1971	4	49	186	0	19	34	3	0	0	0	0	17	0	1	1	0	0	4	49	203	0	20	1	34	3	0	314	
Ling	1972	6	37	196	0	20	31	2	0	0	0	0	326	6	2	0	0	0	6	37	522	6	22	0	31	2	0	626	
Ling	1973	18	73	263	0	23	37	4	0	0	0	0	1162	0	0	0	0	0	18	73	1425	0	23	0	37	4	0	1580	
Ling	1974	9	102	203	3	44	65	9	0	0	0	0	372	39	291	44	8	0	0	9	102	575	42	334	44	73	9	0	1188
Ling	1975	2	70	218	0	32	155	6	0	0	0	0	1552	15	1481	344	59	4	1	2	70	1770	15	1513	344	214	10	1	3939
Ling	1976	1	60	195	0	30	152	5	0	0	0	0	1372	14	2600	0	1578	4	1	1	60	1567	14	2630	0	1730	9	1	6012
Ling	1977	4	100	237	0	22	172	9	0	0	0	0	912	466	1661	0	2614	15	5	4	100	1149	466	1683	0	2786	24	5	6217
Ling	1978	23	143	249	0	18	207	9	0	0	1	238	0	2497	391	22	2	1	23	144	487	0	2515	391	229	12	1	3802	
Ling	1979	79	207	243	0	32	338	15	0	0	21	556	246	4368	1431	100	1	3	79	228	799	246	4400	1431	438	16	3	7640	
Ling	1980	112	205	150	0	45	505	12	2	0	0	0	115	182	4019	933	411	0	0	112	205	265	182	4064	933	916	12	2	6691
Ling	1981	192	429	215	0	38	634	32	16	0	0	212	444	3538	636	354	0	0	192	429	427	444	3576	636	988	32	16	6740	
Ling	1982	271	6																										

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total	
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Parore	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1938	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Parore	1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parore	1942	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15
Parore	1943	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Parore	1944	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	21
Parore	1945	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	41
Parore	1946	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	0	0	0	0	0	0	0	0	75
Parore	1947	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	31
Parore	1948	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Parore	1949	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Parore	1950	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Parore	1951	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Parore	1952	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Parore	1953	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Parore	1954	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Parore	1955	12	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	1
Parore	1956	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Parore	1957	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	19
Parore	1958	22	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	1
Parore	1959	13	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	14
Parore	1960	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Parore	1961	12	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	1
Parore	1962	28	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	30
Parore	1963	29	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	31
Parore	1964	62	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	64
Parore	1965	56	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	0	58
Parore	1966	42	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	44
Parore	1967	19	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	21
Parore	1968	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	39
Parore	1969	67	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	69
Parore	1970	69	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	69	0	0	0	0	0	0	0	0	0	74
Parore	1971	82	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	82	0	0	0	0	0	0	0	0	0	85
Parore	1972	67	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	70
Parore	1973	50	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	55
Parore	1974	55	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	57
Parore	1975	37	1	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	37	1	0	0	0	0	0	0	0	0	45
Parore	1976	67	0	0	0	0	0	0	1	13	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	81
Parore	1977	65	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	65	0	0	0	0	0	0	0	0	0	72
Parore	1978	62	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	65
Parore	1979	53	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	58
Parore	1980	40	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	40	6	0	0	0	0	0	0	0	0	62
Parore	1981	50	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	56
Parore	1982	52	0	0	0	0	0	1	0	12	0	0																		

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Pilchard	1931	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5	
Pilchard	1932	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4	
Pilchard	1933	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
Pilchard	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pilchard	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pilchard	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pilchard	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pilchard	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pilchard	1939	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5	0	0	10	
Pilchard	1940	3	41	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	3	41	0	0	0	0	49	0	0	93	
Pilchard	1941	15	73	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	15	73	0	0	0	0	79	0	0	167	
Pilchard	1942	0	69	0	0	0	69	0	0	0	0	0	0	0	0	0	0	0	0	69	0	0	0	0	69	0	0	138	
Pilchard	1943	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9	0	0	18	
Pilchard	1944	0	0	0	0	0	217	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217	0	0	217
Pilchard	1945	0	0	0	0	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	0	0	74
Pilchard	1946	0	0	0	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	0	0	61
Pilchard	1947	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
Pilchard	1948	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0	0	46
Pilchard	1949	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11
Pilchard	1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pilchard	1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pilchard	1952	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9
Pilchard	1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pilchard	1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pilchard	1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pilchard	1956	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Pilchard	1957	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Pilchard	1958	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Pilchard	1959	3	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	2	0	0	7
Pilchard	1960	3	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	3	0	0	9
Pilchard	1961	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8	0	0	16
Pilchard	1962	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2
Pilchard	1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pilchard	1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pilchard	1965	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	3
Pilchard	1966	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Pilchard	1967	8	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	9
Pilchard	1968	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2	0	0	0	0	0	0	0	0	10
Pilchard	1969	3	4	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	7	0	0	14
Pilchard	1970	1	0	1	0	0	81	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	81	0	0	83
Pilchard	1971	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Pilchard	1972	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Pilchard	1973	0	67	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	3	0	0	70	
Pilchard	1974	18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1	0	0	0	0	0	0	0	0	19
Pilchard	1975	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Pilchard	1976	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Pilchard	1977	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Pilchard	1978	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Pilchard	1979	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	3
Pilchard	1980	1	16	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	1	16	0	0	0	0	0	0	0	0	41
Pilchard	1981	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	16
Pilchard	1982	0	16	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	32

Appendix 3: (continued).

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total	
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9			
Red cod	1931	0	0	15	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	1	0	6	0	0	0	22	
Red cod	1932	0	51	39	0	2	67	0	0	0	0	0	0	0	0	0	0	0	0	51	39	0	2	0	67	0	0	0	159	
Red cod	1933	0	0	27	0	1	21	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	1	0	21	0	0	0	49	
Red cod	1934	0	0	17	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	1	0	0	0	0	0	18	
Red cod	1935	0	0	11	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	1	0	0	0	0	0	12	
Red cod	1936	0	13	34	0	1	14	0	0	0	0	0	0	0	0	0	0	0	0	0	13	34	0	1	0	14	0	0	0	62
Red cod	1937	0	27	132	0	11	32	0	0	0	0	0	0	0	0	0	0	0	0	27	132	0	11	0	32	0	0	0	202	
Red cod	1938	0	19	135	0	144	27	0	0	0	0	0	0	0	0	0	0	0	0	19	135	0	144	0	27	0	0	0	325	
Red cod	1939	5	24	108	0	105	19	0	0	0	0	0	0	0	0	0	0	0	5	24	108	0	105	0	19	0	0	0	261	
Red cod	1940	0	41	80	0	133	50	0	0	0	0	0	0	0	0	0	0	0	0	41	80	0	133	0	50	0	0	0	304	
Red cod	1941	0	12	215	0	324	61	0	0	0	0	0	0	0	0	0	0	0	0	12	215	0	324	0	61	0	0	0	612	
Red cod	1942	1	4	241	0	487	54	0	0	0	0	0	0	0	0	0	0	0	1	4	241	0	487	0	54	0	0	0	787	
Red cod	1943	0	3	146	0	216	34	0	0	0	0	0	0	0	0	0	0	0	0	3	146	0	216	0	34	0	0	0	399	
Red cod	1944	0	2	96	0	191	5	0	0	0	0	0	0	0	0	0	0	0	0	2	96	0	191	0	5	0	0	0	294	
Red cod	1945	0	4	72	0	351	5	1	0	0	0	0	0	0	0	0	0	0	0	4	72	0	351	0	5	1	0	0	433	
Red cod	1946	0	13	236	0	198	51	0	0	0	0	0	0	0	0	0	0	0	0	13	236	0	198	0	51	0	0	0	498	
Red cod	1947	2	18	192	0	130	74	0	1	0	0	0	0	0	0	0	0	0	2	18	192	0	130	0	74	0	1	0	417	
Red cod	1948	9	7	134	0	68	17	1	0	0	0	0	0	0	0	0	0	0	9	7	134	0	68	0	17	1	0	0	236	
Red cod	1949	0	4	43	0	80	19	0	0	0	0	0	0	0	0	0	0	0	0	4	43	0	80	0	19	0	0	0	146	
Red cod	1950	0	3	56	0	143	13	0	0	0	0	0	0	0	0	0	0	0	0	3	56	0	143	0	13	0	0	0	215	
Red cod	1951	0	13	93	0	105	23	0	0	0	0	0	0	0	0	0	0	0	0	13	93	0	105	0	23	0	0	0	234	
Red cod	1952	0	11	81	0	52	35	0	0	0	0	0	0	0	0	0	0	0	0	11	81	0	52	0	35	0	0	0	179	
Red cod	1953	0	18	131	0	74	41	1	0	0	0	0	0	0	0	0	0	0	0	18	131	0	74	0	41	1	0	0	265	
Red cod	1954	0	56	193	0	40	48	3	0	0	0	0	0	0	0	0	0	0	0	56	193	0	40	0	48	3	0	0	340	
Red cod	1955	0	26	195	0	52	37	2	0	0	0	0	0	0	0	0	0	0	0	26	195	0	52	0	37	2	0	0	312	
Red cod	1956	0	10	242	0	55	18	1	0	0	0	0	0	0	0	0	0	0	0	10	242	0	55	0	18	1	0	0	326	
Red cod	1957	0	5	107	0	82	6	0	0	0	0	0	0	0	0	0	0	0	0	5	107	0	82	0	6	0	0	0	200	
Red cod	1958	0	6	58	0	26	6	2	0	0	0	0	0	0	0	0	0	0	0	6	58	0	26	0	6	2	0	0	98	
Red cod	1959	0	13	80	0	15	23	2	0	0	0	0	0	0	0	0	0	0	0	13	80	0	15	0	23	2	0	0	133	
Red cod	1960	0	16	142	0	23	46	0	0	0	0	0	0	0	0	0	0	0	0	16	142	0	23	0	46	0	0	0	227	
Red cod	1961	0	16	157	0	27	41	0	0	0	0	0	0	0	0	0	0	0	0	16	157	0	27	0	41	0	0	0	241	
Red cod	1962	0	47	166	0	27	60	1	0	0	0	0	0	0	0	0	0	0	0	47	166	0	27	0	60	1	0	0	301	
Red cod	1963	0	27	221	0	27	46	0	0	0	0	0	0	0	0	0	0	0	0	27	221	0	27	0	46	0	0	0	321	
Red cod	1964	0	28	336	0	41	49	1	0	0	0	0	0	0	0	0	0	0	0	28	336	0	41	0	49	1	0	0	455	
Red cod	1965	0	64	301	0	38	120	1	0	0	0	0	0	0	0	0	0	0	0	64	301	0	38	0	120	1	0	0	524	
Red cod	1966	0	85	457	0	43	234	6	0	0	0	0	0	0	0	0	0	0	0	85	457	0	43	0	234	6	0	0	825	
Red cod	1967	0	47	1241	0	117	243	7	0	0	0	0	0	0	0	0	0	0	0	47	1241	0	117	0	243	7	0	0	1655	
Red cod	1968	0	12	677	0	82	87	1	0	0	0	0	365	0	0	0	0	0	0	12	1042	0	82	0	87	1	0	0	1224	
Red cod	1969	0	34	411	0	66	65	1	0	0	0	0	1168	0	0	0	4	0	0	0	34	1579	0	66	0	69	1	0	0	1749
Red cod	1970	0	31	458	0	83	184	3	0	0	0	995	0	0	0	0	0	0	0	31	1453	0	83	0	184	3	0	0	1754	
Red cod	1971	0	6	276	0	40	72	0	0	0	0	2135	0	2	0	0	2	0	0	6	2411	0	42	0	72	2	0	0	2533	
Red cod	1972	1	8	229	0	43	19	2	0	0	0	0	0	2	0	0	0	0	1	8	229	2	43	0	19	2	0	0	304	
Red cod	1973	1	42	429	0	45	217	2	0	0	0	0	0	1	0	2	0	0	1	42	429	0	46	0	219	2	0	0	739	
Red cod	1974	0	29	809	5	92	936	4	0	0	0	5875	0	7	0	13	4	1	0	29	6684	5	99	0	949	8	1	0	7775	
Red cod	1975	0	11	406	6	54	233	4	0	0	0	4329	0	3	0	0	22	0	0	11	4735	6	57	0	233	26	0	0	5068	
Red cod	1976	0	12	349	0	42	528	8	0	0	0	10441	0	128	0	7	0	0	0	12	10790	0	170	0	536	8	0	0	11516	
Red cod	1977	0	11	756	0	81	1788	32	0	0	0	11193	257	92	0	878	199	0	0	11	11949	257	173	0	2666	231	0	0	15287	
Red cod	1978	0	13	2192	0	212	2252	34	4	0	0	3589	0	1073	3	44	177	0	0	13	5781	0	1285	3	2296	211	4	0	9593	
Red cod	1979	0	25	4130	0	518	1775	18	4	0	0	7	1914	197	955	207	161	26	1	0	32	6044	197	1473	207	1936	44	5	0	9938
Red cod	1980	1	16	1992	0	568	609	20	1	0	0	57	273	164	590	19	5	0	1	16	2049	273	732	590	628	25	1	0		

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total	
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9			
Red gurnard	1931	65	0	1	0	0	16	2	2	0	0	0	0	0	0	0	0	0	65	0	1	0	0	0	0	16	2	2	86	
Red gurnard	1932	41	0	0	0	0	13	2	1	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	13	2	1	57	
Red gurnard	1933	64	84	1	0	0	20	1	3	0	0	0	0	0	0	0	0	0	64	84	1	0	0	0	0	20	1	3	173	
Red gurnard	1934	47	179	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	47	179	0	0	0	0	0	2	1	3	232	
Red gurnard	1935	70	147	18	0	0	2	1	5	0	0	0	0	0	0	0	0	0	70	147	18	0	0	0	0	2	1	5	243	
Red gurnard	1936	105	215	37	0	0	25	1	9	0	0	0	0	0	0	0	0	0	105	215	37	0	0	0	0	25	1	9	392	
Red gurnard	1937	189	193	83	0	0	21	1	16	0	0	0	0	0	0	0	0	0	189	193	83	0	0	0	0	21	1	16	503	
Red gurnard	1938	102	118	145	0	6	31	2	7	0	0	0	0	0	0	0	0	0	102	118	145	0	6	0	0	31	2	7	411	
Red gurnard	1939	113	149	147	0	0	25	1	8	0	0	0	0	0	0	0	0	0	113	149	147	0	0	0	0	25	1	8	443	
Red gurnard	1940	116	222	214	0	1	38	0	8	0	0	0	0	0	0	0	0	0	116	222	214	0	1	0	0	38	0	8	599	
Red gurnard	1941	100	200	264	0	3	38	1	7	0	0	0	0	0	0	0	0	0	100	200	264	0	3	0	0	38	1	7	613	
Red gurnard	1942	117	332	285	0	2	58	1	7	0	0	0	0	0	0	0	0	0	117	332	285	0	2	0	0	58	1	7	802	
Red gurnard	1943	121	244	293	0	1	53	0	7	0	0	0	0	0	0	0	0	0	121	244	293	0	1	0	0	53	0	7	719	
Red gurnard	1944	222	292	290	0	1	60	0	16	0	0	0	0	0	0	0	0	0	222	292	290	0	1	0	0	60	0	0	881	
Red gurnard	1945	331	338	220	0	2	94	2	29	0	0	0	0	0	0	0	0	0	331	338	220	0	2	0	0	94	2	29	1016	
Red gurnard	1946	388	387	287	0	3	119	7	38	0	0	0	0	0	0	0	0	0	388	387	287	0	3	0	0	119	7	38	1229	
Red gurnard	1947	344	297	239	0	4	162	4	32	0	0	0	0	0	0	0	0	0	344	297	239	0	4	0	0	162	4	32	1082	
Red gurnard	1948	355	243	263	0	4	226	9	30	0	0	0	0	0	0	0	0	0	355	243	263	0	4	0	0	226	9	30	1130	
Red gurnard	1949	338	264	306	0	10	323	6	33	0	0	0	0	0	0	0	0	0	338	264	306	0	10	0	0	323	6	33	1280	
Red gurnard	1950	279	186	478	0	8	332	6	27	0	0	0	0	0	0	0	0	0	279	186	478	0	8	0	0	332	6	27	1316	
Red gurnard	1951	205	231	739	0	11	202	7	16	0	0	0	0	0	0	0	0	0	205	231	739	0	11	0	0	202	7	16	1411	
Red gurnard	1952	354	378	649	0	9	211	7	40	0	0	0	0	0	0	0	0	0	354	378	649	0	9	0	0	211	7	40	1648	
Red gurnard	1953	372	494	607	0	7	334	13	118	0	0	0	0	0	0	0	0	0	372	494	607	0	7	0	0	334	13	118	1945	
Red gurnard	1954	354	462	653	0	7	382	37	142	0	0	0	0	0	0	0	0	0	354	462	653	0	7	0	0	382	37	142	2037	
Red gurnard	1955	335	283	645	0	7	490	64	160	0	0	0	0	0	0	0	0	0	335	283	645	0	7	0	0	490	64	160	1984	
Red gurnard	1956	237	312	777	0	5	435	34	197	0	0	0	0	0	0	0	0	0	237	312	777	0	5	0	0	435	34	197	1997	
Red gurnard	1957	288	402	731	0	6	409	32	206	0	0	0	0	0	0	0	0	0	288	402	731	0	6	0	0	409	32	206	2074	
Red gurnard	1958	287	394	732	0	13	400	36	143	0	0	0	0	0	0	0	0	0	287	394	732	0	13	0	0	400	36	143	2005	
Red gurnard	1959	323	320	786	0	20	212	37	137	0	0	0	0	0	0	0	0	0	323	320	786	0	20	0	0	212	37	137	1835	
Red gurnard	1960	261	417	984	0	24	421	32	228	0	0	0	0	0	0	0	0	0	261	417	984	0	24	0	0	421	32	228	2367	
Red gurnard	1961	267	419	1153	0	27	419	44	292	0	0	0	0	0	0	0	0	0	267	419	1153	0	27	0	0	419	44	292	2621	
Red gurnard	1962	273	592	1220	0	24	322	27	232	0	0	0	0	0	0	0	0	0	273	592	1220	0	24	0	0	322	27	232	2690	
Red gurnard	1963	295	562	1345	0	19	367	34	281	0	0	0	0	0	0	0	0	0	295	562	1345	0	19	0	0	367	34	281	2903	
Red gurnard	1964	601	814	1684	0	24	397	36	376	0	0	0	0	0	0	0	0	0	601	814	1684	0	24	0	0	397	36	376	3932	
Red gurnard	1965	714	668	1417	0	42	400	71	306	0	0	0	0	0	0	0	0	0	714	668	1417	0	42	0	0	400	71	306	3618	
Red gurnard	1966	546	754	1122	0	56	436	70	611	0	0	0	0	0	0	0	0	0	546	754	1122	0	56	0	0	436	70	611	3595	
Red gurnard	1967	459	836	709	0	36	522	47	592	0	0	0	0	0	0	0	0	0	459	836	709	0	36	0	0	522	47	592	3201	
Red gurnard	1968	433	583	479	0	31	368	76	704	0	0	0	0	0	0	0	0	0	433	583	479	0	31	0	0	368	76	704	2674	
Red gurnard	1969	489	632	448	0	39	256	105	856	0	0	0	0	0	0	0	0	0	489	632	448	0	39	0	0	256	105	856	2825	
Red gurnard	1970	572	823	794	0	47	381	180	921	0	0	0	0	0	0	0	0	0	572	823	794	0	47	0	0	381	180	921	3718	
Red gurnard	1971	461	570	910	0	30	379	153	764	0	0	0	0	0	0	0	0	0	461	570	910	0	30	0	0	379	153	764	3267	
Red gurnard	1972	386	347	639	0	23	333	87	384	0	0	0	0	0	0	0	0	0	386	347	639	0	23	0	0	333	87	384	2199	
Red gurnard	1973	558	406	1352	0	41	491	153	720	0	0	0	0	0	0	0	0	0	558	406	1352	0	41	0	0	491	153	720	3721	
Red gurnard	1974	343	299	1037	1	45	586	89	538	0	0	0	0	0	0	0	0	0	343	299	1037	1	45	0	0	586	89	538	2938	
Red gurnard	1975	280	199	626	4	23	365	54	411	0	0	0	0	0	2	0	0	0	0	280	199	626	4	25	0	0	365	54	411	1964
Red gurnard	1976	406	217	908	0	52	545	101	649	0	0	0	0	0	0	0	0	0	406	217	908	0	52	0	0	545	101	649	2878	
Red gurnard	1977	547	381	884	0	91	579	109	741	0	0	0	0	0	0	0	0	0	547	381	884	0	91	0	0	579	109	741	3332	
Red gurnard	1978	675	519	992	1	110	487	129	896	0	0	0	2	1	0	0</														

Appendix 3: (continued).

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Rig	1931	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28	
Rig	1932	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30	
Rig	1933	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	29	
Rig	1934	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	33	
Rig	1935	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	
Rig	1936	73	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	0	8	0	0	0	0	0	0	81	
Rig	1937	56	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	1	5	0	0	0	0	0	0	62	
Rig	1938	32	1	69	0	1	0	0	0	0	0	0	0	0	0	0	0	0	32	1	69	0	1	0	0	0	0	0	103
Rig	1939	10	1	11	0	1	0	0	0	0	0	0	0	0	0	0	0	0	10	1	11	0	1	0	0	0	0	0	23
Rig	1940	13	1	49	0	5	1	0	0	0	0	0	0	0	0	0	0	0	13	1	49	0	5	0	1	0	0	0	69
Rig	1941	18	0	29	0	3	0	0	0	0	0	0	0	0	0	0	0	0	18	0	29	0	3	0	0	0	0	0	50
Rig	1942	49	1	30	0	3	1	0	0	0	0	0	0	0	0	0	0	0	49	1	30	0	3	0	1	0	0	0	84
Rig	1943	42	6	40	0	4	5	1	0	0	0	0	0	0	0	0	0	0	42	6	40	0	4	0	5	1	0	0	98
Rig	1944	57	10	13	0	1	7	4	3	0	0	0	0	0	0	0	0	0	57	10	13	0	1	0	7	4	3	95	
Rig	1945	54	5	22	0	2	10	8	2	0	0	0	0	0	0	0	0	0	54	5	22	0	2	0	10	8	2	103	
Rig	1946	68	12	7	0	1	19	9	3	0	0	0	0	0	0	0	0	0	68	12	7	0	1	0	19	9	3	119	
Rig	1947	69	27	26	0	2	45	7	4	0	0	0	0	0	0	0	0	0	69	27	26	0	2	0	45	7	4	180	
Rig	1948	48	26	49	0	3	43	7	3	0	0	0	0	0	0	0	0	0	48	26	49	0	3	0	43	7	3	179	
Rig	1949	54	33	55	0	5	49	9	3	0	0	0	0	0	0	0	0	0	54	33	55	0	5	0	49	9	3	208	
Rig	1950	84	48	57	0	5	73	17	3	0	0	0	0	0	0	0	0	0	84	48	57	0	5	0	73	17	3	287	
Rig	1951	88	46	92	0	9	68	22	6	0	0	0	0	0	0	0	0	0	88	46	92	0	9	0	68	22	6	331	
Rig	1952	107	41	120	0	12	63	21	8	0	0	0	0	0	0	0	0	0	107	41	120	0	12	0	63	21	8	372	
Rig	1953	88	56	86	0	9	45	20	29	0	0	0	0	0	0	0	0	0	88	56	86	0	9	0	45	20	29	333	
Rig	1954	78	68	38	0	2	58	39	25	0	0	0	0	0	0	0	0	0	78	68	38	0	2	0	58	39	25	308	
Rig	1955	65	49	40	0	2	84	47	28	0	0	0	0	0	0	0	0	0	65	49	40	0	2	0	84	47	28	315	
Rig	1956	65	54	36	0	2	77	29	44	0	0	0	0	0	0	0	0	0	65	54	36	0	2	0	77	29	44	307	
Rig	1957	64	69	56	0	4	108	28	51	0	0	0	0	0	0	0	0	0	64	69	56	0	4	0	108	28	51	380	
Rig	1958	65	73	83	0	4	119	34	41	0	0	0	0	0	0	0	0	0	65	73	83	0	4	0	119	34	41	419	
Rig	1959	87	76	92	0	6	105	30	49	0	0	0	0	0	0	0	0	0	87	76	92	0	6	0	105	30	49	445	
Rig	1960	69	77	130	0	11	153	26	49	0	0	0	0	0	0	0	0	0	69	77	130	0	11	0	153	26	49	515	
Rig	1961	66	98	149	0	11	158	27	52	0	0	0	0	0	0	0	0	0	66	98	149	0	11	0	158	27	52	561	
Rig	1962	69	100	251	0	18	124	40	57	0	0	0	0	0	0	0	0	0	69	100	251	0	18	0	124	40	57	659	
Rig	1963	90	81	179	0	14	126	27	52	0	0	0	0	0	0	0	0	0	90	81	179	0	14	0	126	27	52	569	
Rig	1964	108	78	243	0	15	132	24	49	0	0	0	0	0	0	0	0	0	108	78	243	0	15	0	132	24	49	649	
Rig	1965	115	90	328	0	32	98	30	30	0	0	0	0	0	0	0	0	0	115	90	328	0	32	0	98	30	30	723	
Rig	1966	108	118	356	0	30	141	38	63	0	0	0	0	0	0	0	0	0	108	118	356	0	30	0	141	38	63	854	
Rig	1967	71	108	249	0	17	200	33	58	0	0	0	0	0	0	0	0	0	71	108	249	0	17	0	200	33	58	736	
Rig	1968	93	89	220	0	16	173	31	54	0	0	0	0	0	0	0	0	0	93	89	220	0	16	0	173	31	54	676	
Rig	1969	85	83	272	0	27	141	21	60	0	0	0	0	0	0	0	0	0	85	83	272	0	27	0	141	21	60	689	
Rig	1970	96	97	397	0	39	192	38	71	0	0	0	0	0	0	0	0	0	96	97	397	0	39	0	192	38	71	930	
Rig	1971	102	95	570	0	33	203	37	81	0	0	0	0	0	0	0	0	0	102	95	570	0	33	0	203	37	81	1121	
Rig	1972	91	69	596	0	33	138	36	48	0	0	0	0	0	0	0	0	0	91	69	596	0	33	0	138	36	48	1011	
Rig	1973	136	105	732	0	43	133	54	53	0	0	0	0	0	0	0	0	0	136	105	732	0	43	0	133	54	53	1256	
Rig	1974	299	134	1065	1	52	249	126	118	0	0	0	0	0	0	0	0	0	299	134	1065	1	52	0	249	126	118	2044	
Rig	1975	248	146	854	4	38	255	157	142	0	0	0	0	0	0	0	0	0	248	146	854	4	38	0	255	157	142	1844	
Rig	1976	334	230	860	0	46	610	233	295	0	0	0	0	0	0	0	0	0	334	230	860	0	46	0	610	233	295	2608	
Rig	1977	358	307	1143	1	183	541	382	365	0	0	0	0	0	0	0	0	0	358	307	1143	1	183	0	541	382	365	3280	
Rig	1978	356	330	1167	0	58	638	404	345	0	0	0	0	0	0	0	0	0	356	330	1167	0	58	0	638	404	345	3298	
Rig	1979	349	232	1078	0	60	349	368	265	0	0	0	0	0	0	0	0	0	349	232	1078	0	60	0	349	368	265	2701	
Rig	1980	257	252	1259	0	143	470	387	242	0	0	0	0	0	0	0	0	0	257	252	1259	0	143	0	470	387	242	3010	
Rig	1981	328	188	1121	1	321	412	343	290	0	0	0	0	0	1	0	1	0	328	188	1121	1	322	0	413	343	290	3006	
Rig	1982	428	210	1118	0	137	629	399	412	0	0	0	0	0	0	0	0	0	428	210	1118	0	137	0	629	399	412	3334	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
School shark	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School shark	1945	52	2	0	0	0	8	3	1	0	0	0	0	0	0	0	0	0	52	2	0	0	0	0	0	8	3	1	66
School shark	1946	57	3	7	0	3	16	3	16	0	0	0	0	0	0	0	0	0	57	3	7	0	3	0	16	3	16	105	
School shark	1947	28	2	0	0	0	13	3	12	0	0	0	0	0	0	0	0	0	28	2	0	0	0	0	0	13	3	12	58
School shark	1948	38	3	0	0	0	18	5	10	0	0	0	0	0	0	0	0	0	38	3	0	0	0	0	0	18	5	10	74
School shark	1949	82	4	1	0	0	24	4	10	0	0	0	0	0	0	0	0	0	82	4	1	0	0	0	0	24	4	10	125
School shark	1950	83	6	1	0	0	29	6	22	0	0	0	0	0	0	0	0	0	83	6	1	0	0	0	0	29	6	22	147
School shark	1951	106	5	4	0	0	14	4	25	0	0	0	0	0	0	0	0	0	106	5	4	0	0	0	0	14	4	25	158
School shark	1952	92	7	5	0	0	17	5	52	0	0	0	0	0	0	0	0	0	92	7	5	0	0	0	0	17	5	52	178
School shark	1953	67	4	10	0	0	16	4	41	0	0	0	0	0	0	0	0	0	67	4	10	0	0	0	0	16	4	41	142
School shark	1954	77	10	8	0	0	36	10	44	0	0	0	0	0	0	0	0	0	77	10	8	0	0	0	0	36	10	44	185
School shark	1955	92	12	8	0	0	26	10	32	0	0	0	0	0	0	0	0	0	92	12	8	0	0	0	0	26	10	32	180
School shark	1956	59	19	5	0	0	34	14	33	0	0	0	0	0	0	0	0	0	59	19	5	0	0	0	0	34	14	33	164
School shark	1957	142	28	11	0	0	42	23	55	0	0	0	0	0	0	0	0	0	142	28	11	0	0	0	0	42	23	55	301
School shark	1958	154	24	17	0	1	41	29	57	0	0	0	0	0	0	0	0	0	154	24	17	0	1	0	0	41	29	57	323
School shark	1959	126	21	18	0	1	32	29	77	0	0	0	0	0	0	0	0	0	126	21	18	0	1	0	0	32	29	77	304
School shark	1960	134	19	23	0	1	24	21	85	0	0	0	0	0	0	0	0	0	134	19	23	0	1	0	0	24	21	85	307
School shark	1961	186	21	25	1	4	26	15	82	0	0	0	0	0	0	0	0	0	186	21	25	1	4	0	0	26	15	82	360
School shark	1962	183	23	29	0	2	21	26	69	0	0	0	0	0	0	0	0	0	183	23	29	0	2	0	0	21	26	69	353
School shark	1963	172	42	23	1	3	29	34	77	0	0	0	0	0	0	0	0	0	172	42	23	1	3	0	0	29	34	77	381
School shark	1964	122	51	30	1	1	31	41	64	0	0	0	0	0	0	0	0	0	122	51	30	1	1	0	0	31	41	64	341
School shark	1965	154	36	37	0	1	26	30	75	0	0	0	0	0	0	0	0	0	154	36	37	0	1	0	0	26	30	75	359
School shark	1966	107	31	36	0	1	25	22	82	0	0	0	0	0	0	0	0	0	107	31	36	0	1	0	0	25	22	82	304
School shark	1967	116	56	33	0	2	51	23	95	0	0	0	0	0	0	0	0	0	116	56	33	0	2	0	0	51	23	95	376
School shark	1968	82	57	41	0	4	35	26	113	0	0	0	0	0	0	0	0	0	82	57	41	0	4	0	0	35	26	113	358
School shark	1969	91	46	110	0	7	28	20	88	0	0	0	0	0	0	0	0	0	91	46	110	0	7	0	0	28	20	88	390
School shark	1970	68	82	99	0	13	69	30	89	0	0	0	0	0	0	0	0	0	68	82	99	0	13	0	0	69	30	89	450
School shark	1971	97	112	109	0	6	159	48	66	0	0	0	0	0	0	0	0	0	97	112	109	0	6	0	0	159	48	66	597
School shark	1972	69	59	30	0	3	77	30	67	0	0	0	0	0	0	0	0	0	69	59	30	0	3	0	0	77	30	67	335
School shark	1973	59	73	52	0	9	75	42	44	0	0	0	0	0	0	0	0	0	59	73	52	0	9	0	0	75	42	44	354
School shark	1974	64	75	98	0	18	144	94	56	0	0	0	0	0	0	0	0	0	64	75	98	0	18	0	0	144	94	56	549
School shark	1975	82	64	62	1	29	153	90	39	0	0	0	0	0	0	0	0	0	82	64	62	1	29	0	0	153	90	39	520
School shark	1976	218	88	54	0	70	220	102	171	0	0	0	0	0	0	0	0	0	218	88	54	0	70	0	0	220	102	171	923
School shark	1977	332	99	68	0	118	280	164	176	0	0	0	0	0	0	0	0	0	332	99	68	0	118	0	0	280	164	176	1237
School shark	1978	39	28	13	0	6	22	44	13	0	0	0	0	0	0	0	0	0	39	28	13	0	6	0	0	22	44	13	165
School shark	1979	138	53	89	0	7	94	44	59	0	0	0	0	0	0	0	0	0	138	53	89	0	7	35	0	94	44	59	519
School shark	1980	443	127	295	0	227	350	106	247	0	0	0	2	2	0	0	0	0	443	127	295	2	229	0	0	350	106	247	1799
School shark	1981	454	199	461	0	497	480	393	232	0	0	0	0	0	0	0	0	0	454	199	461	0	497	0					

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total		
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9				
Sea perch	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1944	0	0	4	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	29	0	0	0	0	0	33		
Sea perch	1945	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2		
Sea perch	1946	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2		
Sea perch	1947	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2		
Sea perch	1948	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1949	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	4		
Sea perch	1950	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3		
Sea perch	1951	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	6		
Sea perch	1952	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2		
Sea perch	1953	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1955	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1957	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1958	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1959	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1960	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1961	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1964	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1965	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2		
Sea perch	1966	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1967	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
Sea perch	1968	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2		
Sea perch	1969	1	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	5		
Sea perch	1970	1	2	7	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	0	0	0	0	0	23		
Sea perch	1971	6	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	7	0	0	0	0	0	13		
Sea perch	1972	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	4		
Sea perch	1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sea perch	1978	0	0	0	0	0	0	0	0	0	0	0	0	2	11	13	0	11	0	0	0	2	11	13	0	11	0	0	37		
Sea perch	1979	0	0	0	0	0	0	0	0	0	0	0	0	18	92	248	53	1	14	1	3	0	18	92	248	53	1	14	1	3	430
Sea perch	1980	0	0	0	0	0	0	0	0	0	0	0	1	8	100	39	1	38	0	0	0	1	8	100	39	1	38	0	0	187	
Sea perch	1981	6	0	38	0	1	1	0	0	0	0	0	0	32	253	28	3	14	0	1	6	0	70	253	29	3	15	0	1	377	
Sea perch	1982	22	1	45	0	2	1	0	0	0	0	0	0	131	164	25	4	16	1	1	22	1	176	164	27	4	17	1	1	413	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total		
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9			
Skates	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Skates	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Skates	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Skates	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Skates	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Skates	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Skates	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Skates	1938	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3
Skates	1939	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
Skates	1940	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	3
Skates	1941	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
Skates	1942	1	1	7	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	7	0	2	0	0	0	0	0	11
Skates	1943	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Skates	1944	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
Skates	1945	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	4
Skates	1946	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
Skates	1947	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Skates	1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skates	1949	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Skates	1950	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
Skates	1951	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
Skates	1952	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
Skates	1953	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Skates	1954	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	5
Skates	1955	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Skates	1956	0	1	8	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	2	0	0	0	0	0	0	11
Skates	1957	0	3	15	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	15	0	3	0	0	0	0	0	0	21
Skates	1958	1	13	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	13	4	0	0	0	1	0	0	0	0	19
Skates	1959	1	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	1	0	0	0	0	0	0	0	0	11
Skates	1960	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	4
Skates	1961	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	6
Skates	1962	3	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	2	1	0	0	0	0	0	0	0	1	
Skates	1963	0	3	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	1	0	0	0	0	8
Skates	1964	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0	0	7
Skates	1965	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0	0	7
Skates	1966	0	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	5
Skates	1967	2	2	4	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	0	0	0	3	0	0	0	0	11
Skates	1968	0	2	6	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	5	0	0	0	0	13
Skates	1969	1	7	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	7	3	0	0	0	3	0	0	0	0	14
Skates	1970	3	5	11	0	2	4	2	6	0	0	0	0	0	0	0	0	0	0	3	5	11	0	2	0	4	2	6	0	0	33
Skates	1971	2	3	2	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	2	3	2	0	0	0	0	1	3	0	0	11
Skates	1972	4	4	3	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	4	4	3	0	0	0	0	1	3	0	0	15
Skates	1973	1	5	4	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	0	0	1	1	0	0	13
Skates	1974	9	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	2	3	0	0	0	0	0	0	0	0	14
Skates	1975	8	4	8	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	8	4	8	0	0	0	0	0	0	0	0	21
Skates	1976	11	3	1	0	0	5	0	4	0	0	0	0	0	0	0	0	0	0	11	3	1	0	0	0	5	0	4	0	24	
Skates	1977	9	3	3	0	0	2	0	7	0	0	0	0	0	0	0	0	0	0	9	3	3	0	0	0	2	0	0	7	24	
Skates	1978	6	1	5	0	0	3	4	9	0	0	0	4	0	0	0	2	0	0	6	1	5	4	0	0	5	4	9	0	34	
Skates	1979	2	5	106	0	2	34	1	6	0	0	11	6	5	0	4	2	0	0	2	5	117	6	7	0	39	3	6	0	0	185
Skates	1980	3	4	366	0	7	45	2	9	0	0	3	6	3	4	0	0	0	0	3	4	370	6	10	4	45	2	9	0	0	453
Skates	1981	1	3	360	0	6	31	3	5	0	0	5	1	9	0																

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total			
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9				
Snapper	1931	3355	0	0	0	0	53	71	195	0	0	0	0	0	0	0	0	0	3355	0	0	0	0	0	0	53	71	195	3674			
Snapper	1932	3415	0	0	0	0	27	95	199	0	0	0	0	0	0	0	0	0	3415	0	0	0	0	0	0	27	95	199	3736			
Snapper	1933	3909	18	0	0	0	48	146	253	0	0	0	0	0	0	0	0	0	3909	18	0	0	0	0	0	48	146	253	4374			
Snapper	1934	4317	113	0	0	0	7	154	273	0	0	0	0	0	0	0	0	0	4317	113	0	0	0	0	0	7	154	273	4864			
Snapper	1935	5387	106	0	0	0	8	88	281	0	0	0	0	0	0	0	0	0	5387	106	0	0	0	0	0	8	88	281	5870			
Snapper	1936	6369	48	0	0	0	138	149	324	0	0	0	0	0	0	0	0	0	6369	48	0	0	0	0	0	138	149	324	7028			
Snapper	1937	5665	64	1	0	0	141	142	284	0	0	0	0	0	0	0	0	0	5665	64	1	0	0	0	0	141	142	284	6297			
Snapper	1938	6145	77	0	0	0	131	110	335	0	0	0	0	0	0	0	0	0	6145	77	0	0	0	0	0	131	110	335	6798			
Snapper	1939	5918	76	2	0	0	116	75	310	0	0	0	0	0	0	0	0	0	5918	76	2	0	0	0	0	116	75	310	6497			
Snapper	1940	5100	80	0	0	0	125	86	286	0	0	0	0	0	0	0	0	0	5100	80	0	0	0	0	0	125	86	286	5677			
Snapper	1941	4791	110	2	0	0	95	77	269	0	0	0	0	0	0	0	0	0	4791	110	2	0	0	0	0	95	77	269	5344			
Snapper	1942	4096	53	0	0	0	48	51	227	0	0	0	0	0	0	0	0	0	4096	53	0	0	0	0	0	48	51	227	4475			
Snapper	1943	4456	43	1	0	0	23	49	236	0	0	0	0	0	0	0	0	0	4456	43	1	0	0	0	0	23	49	236	4808			
Snapper	1944	4909	37	1	0	0	70	61	246	0	0	0	0	0	0	0	0	0	4909	37	1	0	0	0	0	70	61	246	5324			
Snapper	1945	4786	42	3	0	0	88	116	259	0	0	0	0	0	0	0	0	0	4786	42	3	0	0	0	0	88	116	259	5294			
Snapper	1946	5150	59	1	0	0	167	209	349	0	0	0	0	0	0	0	0	0	5150	59	1	0	0	0	0	167	209	349	5935			
Snapper	1947	5561	25	1	0	0	341	262	388	0	0	0	0	0	0	0	0	0	5561	25	1	0	0	0	0	341	262	388	6578			
Snapper	1948	6469	40	4	0	0	392	283	373	0	0	0	0	0	0	0	0	0	6469	40	4	0	0	0	0	392	283	373	7561			
Snapper	1949	5655	172	3	0	0	351	294	359	0	0	0	0	0	0	0	0	0	5655	172	3	0	0	0	0	351	294	359	6834			
Snapper	1950	4945	229	4	0	0	378	352	320	0	0	0	0	0	0	0	0	0	4945	229	4	0	0	0	0	378	352	320	6228			
Snapper	1951	4173	205	5	0	0	413	393	319	0	0	0	0	0	0	0	0	0	4173	205	5	0	0	0	0	413	393	319	5508			
Snapper	1952	3665	176	5	0	0	410	346	342	0	0	0	0	0	0	0	0	0	3665	176	5	0	0	0	0	410	346	342	4944			
Snapper	1953	3581	203	5	0	0	345	317	1128	0	0	0	0	0	0	0	0	0	3581	203	5	0	0	0	0	345	317	1128	5579			
Snapper	1954	4180	211	8	0	0	290	372	1039	0	0	0	0	0	0	0	0	0	4180	211	8	0	0	0	0	290	372	1039	6100			
Snapper	1955	4323	254	6	0	0	381	456	1042	0	0	0	0	0	0	0	0	0	4323	254	6	0	0	0	0	381	456	1042	6462			
Snapper	1956	4615	278	7	0	0	624	522	1053	0	0	0	0	0	0	0	0	0	4615	278	7	0	0	0	0	624	522	1053	7099			
Snapper	1957	5129	325	6	0	0	796	625	1388	0	0	0	0	0	0	0	0	0	5129	325	6	0	0	0	0	796	625	1388	8269			
Snapper	1958	5007	369	6	0	0	558	623	927	0	0	0	0	0	0	0	0	0	5007	369	6	0	0	0	0	558	623	927	7490			
Snapper	1959	5607	286	5	0	0	486	529	1005	0	0	0	0	0	0	0	0	0	5607	286	5	0	0	0	0	486	529	1005	7918			
Snapper	1960	5538	389	6	0	0	423	441	1168	351	0	0	0	0	0	0	0	0	5889	389	6	0	0	0	0	423	441	1168	8316			
Snapper	1961	5185	481	7	0	0	426	396	1179	702	0	0	0	0	0	0	0	0	5887	481	7	0	0	0	0	426	396	1179	8376			
Snapper	1962	5449	495	6	0	0	420	515	1241	1053	0	0	0	0	0	0	0	0	6502	495	6	0	0	0	0	420	515	1241	9179			
Snapper	1963	5564	504	11	0	0	405	600	1291	1403	0	0	0	0	0	0	0	0	6967	504	11	0	0	0	0	405	600	1291	9778			
Snapper	1964	5515	541	8	0	0	410	574	1120	1754	0	0	0	0	0	0	0	0	7269	541	8	0	0	0	0	410	574	1120	9922			
Snapper	1965	5885	471	5	0	0	559	672	1019	2106	0	0	0	0	0	0	0	0	1000	1000	7991	471	5	0	0	0	0	559	1672	2019	12717	
Snapper	1966	6306	619	4	0	0	975	891	1569	2456	0	0	0	0	0	0	0	0	1000	1000	8762	619	4	0	0	0	0	975	1891	2569	14820	
Snapper	1967	6436	695	7	0	0	1168	984	1219	2808	0	0	0	0	0	0	0	0	1000	1000	9244	695	7	0	0	0	0	1168	1984	2219	15317	
Snapper	1968	7170	628	12	0	0	763	644	1422	3158	22	0	0	0	0	0	0	0	17	1154	1154	10328	650	12	0	0	0	0	780	1799	2576	16145
Snapper	1969	8476	687	2	0	0	402	417	1422	2842	0	0	0	0	0	0	0	0	251	1464	1464	11318	687	2	0	0	0	0	653	1881	2887	17428
Snapper	1970	9601	664	3	0	0	458	593	1494	2526	1	0	0	0	0	0	0	0	131	1272	1272	12127	665	3	0	0	0	0	589	1864	2765	18013
Snapper	1971	10499	717	3	0	0	465	600	1808	2210	0	0	0	0	0	0	0	0	115	1202	1202	12709	717	3	0	0	0	0	580	1802	3009	18820
Snapper	1972	9397	716	4	0	0	552	603	1910	1894	0	0	0	0	0	0	0	0	225	1608	1608	11291	716	4	0	0	0	0	777	2211	3519	18518
Snapper	1973	8871	673	3	0	0	907	912	2767	1579	3	0	0	0	0	0	0	0	117	1233	1233	10450	676	3	0	0	0	0	1024	2145	4000	18298
Snapper	1974	7505	586	2	0	0	748	812	4075	1264	0	0	0	0	0	0	0	98	1182	1182	8769	586	2	0	0	0	0	846	1993	5257	17453	
Snapper	1975	5827	583	1	0	0	593	1013	3623	947	98	0	0	4	0	0	0	0	85	742	742	6774	681	1	0	4	0	0	678	1755	4365	14258
Snapper	1976	7112	598	0	0	0	777	1564	4295	631	153	0	0	2	0	5	0	0	902	902	7743	751	0	0	2	0						

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Spiny dogfish	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiny dogfish	1978	0	0	0	0	0	0	0	0	0	1	20	0	38	0	124	32	9	0	1	20	0	38	0	124	32	9	224	
Spiny dogfish	1979	0	0	0	0	0	0	0	0	0	2	130	67	74	0	128	33	7	0	2	130	67	74	0	128	33	7	441	
Spiny dogfish	1980	0	0	0	0	0	0	0	0	0	0	39	13	145	4	11	24	7	0	0	39	13	145	4	11	24	7	243	
Spiny dogfish	1981	2	0	8	0	2	9	112	0	0	0	115	92	201	0	64	36	2	0	0	123	92	203	0	73	148	2	643	
Spiny dogfish	1982	10	10	130	0	27	59	61	0	0	0	161	31	2197	4	54	18	5	10	10	291	31	2223	4	113	79	5	2766	

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Stargazers	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stargazers	1950	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Stargazers	1951	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Stargazers	1952	0	8	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	1	1	10
Stargazers	1953	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Stargazers	1954	0	7	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	1	1	9
Stargazers	1955	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	5
Stargazers	1956	0	12	4	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	12	4	0	0	0	2	2	0	0	20
Stargazers	1957	0	15	5	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	15	5	0	0	0	2	2	0	0	24
Stargazers	1958	0	25	11	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	25	11	0	0	0	4	3	0	0	43
Stargazers	1959	0	23	13	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	23	13	0	0	0	4	3	0	0	43
Stargazers	1960	0	18	17	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	18	17	0	0	0	4	2	0	0	41
Stargazers	1961	0	7	16	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	7	16	0	0	0	2	1	0	0	26
Stargazers	1962	0	6	22	0	5	2	1	0	0	0	0	0	0	0	0	0	0	0	6	22	0	5	0	2	1	0	0	36
Stargazers	1963	0	10	15	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	10	15	0	1	0	3	1	0	0	30
Stargazers	1964	0	9	22	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	9	22	0	0	0	3	1	0	0	35
Stargazers	1965	0	12	17	0	2	4	1	0	0	0	0	0	0	0	0	0	0	0	12	17	0	2	0	4	1	0	0	36
Stargazers	1966	0	12	31	0	27	4	2	0	0	0	0	0	0	0	0	0	0	0	12	31	0	27	0	4	2	0	0	76
Stargazers	1967	0	24	32	0	6	38	2	0	0	0	0	0	0	0	0	0	0	0	24	32	0	6	0	38	2	0	0	102
Stargazers	1968	0	28	32	0	7	24	3	0	0	0	0	0	0	0	0	0	0	0	28	32	0	7	0	24	3	0	0	94
Stargazers	1969	0	40	25	0	21	14	3	0	0	0	0	0	0	0	0	0	0	0	40	25	0	21	0	14	3	0	0	103
Stargazers	1970	0	42	80	0	124	78	2	0	0	0	0	0	0	0	0	0	0	0	42	80	0	124	0	78	2	0	0	326
Stargazers	1971	0	37	72	0	87	50	3	0	0	0	0	0	0	0	0	0	0	0	37	72	0	87	0	50	3	0	0	249
Stargazers	1972	0	30	71	0	70	41	2	0	0	0	0	0	0	0	0	0	0	0	30	71	0	70	0	41	2	0	0	214
Stargazers	1973	0	36	78	0	38	36	2	0	0	0	0	0	0	0	0	0	0	0	36	78	0	38	0	36	2	0	0	190
Stargazers	1974	0	31	73	7	128	29	3	0	0	0	0	0	0	0	0	0	0	0	31	73	7	128	0	29	3	0	0	271
Stargazers	1975	0	10	75	3	92	34	1	0	0	0	0	0	0	0	0	0	0	0	10	75	3	92	0	34	1	0	0	215
Stargazers	1976	0	26	99	10	348	54	2	0	0	0	0	0	0	0	0	0	0	0	26	99	10	348	0	54	2	0	0	539
Stargazers	1977	0	17	70	0	293	53	1	0	0	0	0	0	0	0	0	0	0	0	17	70	0	293	0	53	1	0	0	434
Stargazers	1978	0	29	71	1	258	61	2	0	0	0	1	7	10	0	0	0	0	0	29	72	8	268	0	61	2	0	0	440
Stargazers	1979	1	20	140	0	149	73	1	0	0	3	90	104	96	0	13	0	0	1	22	230	104	245	0	86	1	0	0	689
Stargazers	1980	3	28	288	0	284	116	1	0	0	0	43	57	181	2	16	0	0	3	29	331	57	465	2	132	1	0	0	1020
Stargazers	1981	3	25	320	0	336	315	2	6	0	0	167	95	220	1	7	0	6	3	25	487	95	556	1	322	2	12	0	1503
Stargazers	1982	0	22	369	0	239	264	2	1	0	0	196	89	259	2	6	1	3	0	22	565	89	498	2	270	2	4	0	1452

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Tarakihi	1931	1145	123	0	0	0	4	2	1	0	0	0	0	0	0	0	0	0	1145	123	0	0	0	0	4	2	1	1275	
Tarakihi	1932	587	481	0	0	0	424	2	1	0	0	0	0	0	0	0	0	0	587	481	0	0	0	0	424	2	1	1495	
Tarakihi	1933	534	415	152	0	0	215	1	0	0	0	0	0	0	0	0	0	0	534	415	152	0	0	0	215	1	0	1317	
Tarakihi	1934	690	672	127	0	0	306	2	1	0	0	0	0	0	0	0	0	0	690	672	127	0	0	0	306	2	1	1798	
Tarakihi	1935	854	969	284	0	0	475	2	0	0	0	0	0	0	0	0	0	0	854	969	284	0	0	0	475	2	0	2584	
Tarakihi	1936	1165	673	283	0	0	555	0	0	0	0	0	0	0	0	0	0	0	1165	673	283	0	0	0	555	0	0	2676	
Tarakihi	1937	1130	758	208	0	0	480	0	0	0	0	0	0	0	0	0	0	0	1130	758	208	0	0	0	480	0	0	2576	
Tarakihi	1938	1044	788	445	0	27	412	0	0	0	0	0	0	0	0	0	0	0	1044	788	445	0	27	0	412	0	0	2716	
Tarakihi	1939	990	780	239	0	0	480	0	0	0	0	0	0	0	0	0	0	0	990	780	239	0	0	0	480	0	0	2489	
Tarakihi	1940	637	674	624	0	31	316	0	0	0	0	0	0	0	0	0	0	0	637	674	624	0	31	0	316	0	0	2282	
Tarakihi	1941	611	779	594	0	26	220	0	0	0	0	0	0	0	0	0	0	0	611	779	594	0	26	0	220	0	0	2230	
Tarakihi	1942	791	691	491	0	15	87	0	0	0	0	0	0	0	0	0	0	0	791	691	491	0	15	0	87	0	0	2075	
Tarakihi	1943	573	477	391	0	17	24	0	0	0	0	0	0	0	0	0	0	0	573	477	391	0	17	0	24	0	0	1482	
Tarakihi	1944	923	837	466	0	16	29	0	0	0	0	0	0	0	0	0	0	0	923	837	466	0	16	0	29	0	0	2271	
Tarakihi	1945	1189	1340	269	0	1	432	0	0	0	0	0	0	0	0	0	0	0	1189	1340	269	0	1	0	432	0	0	3231	
Tarakihi	1946	1410	1618	383	0	0	545	2	0	0	0	0	0	0	0	0	0	0	1410	1618	383	0	0	0	545	2	0	3958	
Tarakihi	1947	1162	1831	970	0	51	643	2	0	0	0	0	0	0	0	0	0	0	1162	1831	970	0	51	0	643	2	0	4659	
Tarakihi	1948	1073	2129	793	0	43	688	9	2	0	0	0	0	0	0	0	0	0	1073	2129	793	0	43	0	688	9	2	4737	
Tarakihi	1949	1573	2157	973	0	49	873	13	2	0	0	0	0	0	0	0	0	0	1573	2157	973	0	49	0	873	13	2	5640	
Tarakihi	1950	1924	2011	743	0	35	803	8	1	0	0	0	0	0	0	0	0	0	1924	2011	743	0	35	0	803	8	1	5525	
Tarakihi	1951	1947	2097	772	0	42	747	7	1	0	0	0	0	0	0	0	0	0	1947	2097	772	0	42	0	747	7	1	5613	
Tarakihi	1952	1988	2090	948	0	44	949	8	2	0	0	0	0	0	0	0	0	0	1988	2090	948	0	44	0	949	8	2	6029	
Tarakihi	1953	1922	2045	809	0	30	896	20	144	0	0	0	0	0	0	0	0	0	1922	2045	809	0	30	0	896	20	144	5866	
Tarakihi	1954	1679	1529	578	0	1	470	72	18	0	0	0	0	0	0	0	0	0	1679	1529	578	0	1	0	470	72	18	4347	
Tarakihi	1955	1912	2039	599	0	0	833	84	212	0	0	0	0	0	0	0	0	0	1912	2039	599	0	0	0	833	84	212	5679	
Tarakihi	1956	1567	2312	384	0	0	699	28	283	0	0	0	0	0	0	0	0	0	1567	2312	384	0	0	0	699	28	283	5273	
Tarakihi	1957	1239	2200	1150	0	12	735	18	184	0	0	0	0	0	0	0	0	0	1239	2200	1150	0	12	0	735	18	184	5538	
Tarakihi	1958	1085	1952	1400	0	8	625	20	215	0	0	0	0	0	0	0	0	0	1085	1952	1400	0	8	0	625	20	215	5305	
Tarakihi	1959	1513	2464	1315	0	7	666	17	184	0	0	0	0	0	0	0	0	0	1513	2464	1315	0	7	0	666	17	184	6166	
Tarakihi	1960	1329	2867	862	0	10	732	15	160	0	0	0	0	0	0	0	0	0	1329	2867	862	0	10	0	732	15	160	5975	
Tarakihi	1961	1302	2864	1002	0	15	573	23	154	0	0	0	0	0	0	0	0	0	1302	2864	1002	0	15	0	573	23	154	5933	
Tarakihi	1962	1116	3126	1073	0	6	759	52	150	0	0	0	0	0	0	0	0	0	1116	3126	1073	0	6	0	759	52	150	6282	
Tarakihi	1963	1199	2632	968	0	8	630	43	218	0	0	0	0	0	0	0	0	0	1199	2632	968	0	8	0	630	43	218	5698	
Tarakihi	1964	1164	2656	1250	0	7	593	61	140	0	0	0	0	0	0	0	0	0	1164	2656	1250	0	7	0	593	61	140	5871	
Tarakihi	1965	1264	3027	1122	0	11	470	58	60	0	0	0	0	0	0	0	0	0	1264	3027	1122	0	11	0	470	58	60	6012	
Tarakihi	1966	1011	2964	1539	0	24	549	64	89	0	0	0	0	0	0	0	0	0	1011	2964	1539	0	24	0	549	64	89	6240	
Tarakihi	1967	916	2548	657	0	2	1981	73	150	0	0	0	0	0	0	0	0	0	916	2548	657	0	2	0	1981	73	150	6327	
Tarakihi	1968	810	1907	760	0	8	1941	100	78	0	0	77	0	0	0	0	2	1	810	1907	837	0	8	0	1941	102	79	5684	
Tarakihi	1969	754	1727	442	0	8	513	85	79	0	0	278	0	0	0	79	88	30	754	1727	720	0	8	0	592	173	108	4082	
Tarakihi	1970	908	1932	725	0	19	1282	134	208	7	0	395	0	0	0	11	20	6	915	1932	1120	0	19	0	1293	153	214	5646	
Tarakihi	1971	846	2006	995	0	15	1037	96	237	6	0	158	0	10	0	155	106	36	852	2006	1153	0	25	0	1192	202	273	5703	
Tarakihi	1972	785	1912	779	0	9	610	92	145	4	0	1390	12	6	0	131	187	62	789	1912	2169	12	15	0	741	279	208	6125	
Tarakihi	1973	645	1568	751	0	14	634	45	111	0	0	704	0	0	13	113	145	48	645	1568	1455	0	14	13	747	189	159	4790	
Tarakihi	1974	548	1889	553	24	28	599	70	99	0	0	1360	0	3	0	635	122	40	548	1889	1913	24	31	0	1234	192	139	5970	
Tarakihi	1975	472	1725	532	7	14	612	44	31	17	18	574	3	455	13	275	193	64	489	1743	1106	10	469	13	887	237	95	5049	
Tarakihi	1976	513	1625	421	17	55	714	112	49	0	20	1506	4	88	0	222	175	58	513	1645	1927	21	143	0	936	287	107	5579	
Tarakihi	1977	671	1987	392	3	39	932	103	58	0	7	1256	832	14	0	405	362	120	671	1994	1648	835	53	0	1337	464	178	7180	
Tarakihi	1978	953	1712	317	6	32	996	106	66	0	6	56	0	22	0	25	119	40	953	1718	373	6	54						

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total		
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9				
Trevally	1931	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9			
Trevally	1932	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6			
Trevally	1933	30	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	33			
Trevally	1934	27	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	30			
Trevally	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Trevally	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Trevally	1937	20	4	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	20	4	0	0	0	0	0	1	1	28			
Trevally	1938	53	10	1	0	0	0	1	3	4	0	0	0	0	0	0	0	0	53	10	1	0	0	0	0	1	3	4			
Trevally	1939	17	9	1	0	0	0	1	3	2	0	0	0	0	0	0	0	0	17	9	1	0	0	0	0	1	3	2			
Trevally	1940	12	13	0	0	0	0	2	4	1	0	0	0	0	0	0	0	0	12	13	0	0	0	0	0	2	4	1			
Trevally	1941	17	6	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	17	6	0	0	0	0	0	1	2	1			
Trevally	1942	90	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	90	1	0	0	0	0	0	0	0	92			
Trevally	1943	190	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	190	2	0	0	0	0	0	0	0	193			
Trevally	1944	401	2	0	0	0	0	0	1	18	0	0	0	0	0	0	0	0	401	2	0	0	0	0	0	0	1	18			
Trevally	1945	307	9	0	0	0	0	1	4	18	0	0	0	0	0	0	0	0	307	9	0	0	0	0	0	1	4	18			
Trevally	1946	316	12	0	0	0	0	2	5	12	0	0	0	0	0	0	0	0	316	12	0	0	0	0	0	2	5	12			
Trevally	1947	317	8	2	0	0	0	11	4	13	0	0	0	0	0	0	0	0	317	8	2	0	0	0	0	11	4	13			
Trevally	1948	432	7	1	0	0	0	5	3	26	0	0	0	0	0	0	0	0	432	7	1	0	0	0	0	5	3	26			
Trevally	1949	291	9	0	0	0	0	5	5	29	0	0	0	0	0	0	0	0	291	9	0	0	0	0	0	5	5	29			
Trevally	1950	402	39	0	0	0	0	11	11	38	0	0	0	0	0	0	0	0	402	39	0	0	0	0	0	11	11	38			
Trevally	1951	470	57	0	0	0	0	23	13	46	0	0	0	0	0	0	0	0	470	57	0	0	0	0	0	23	13	46			
Trevally	1952	310	73	0	0	0	0	12	10	41	0	0	0	0	0	0	0	0	310	73	0	0	0	0	0	12	10	41			
Trevally	1953	376	90	0	0	0	0	12	9	115	0	0	0	0	0	0	0	0	376	90	0	0	0	0	0	12	9	115			
Trevally	1954	471	132	0	0	0	0	4	11	101	0	0	0	0	0	0	0	0	471	132	0	0	0	0	0	4	11	101			
Trevally	1955	609	120	0	0	0	0	4	18	171	0	0	0	0	0	0	0	0	609	120	0	0	0	0	0	4	18	171			
Trevally	1956	556	124	0	0	0	0	18	25	136	0	0	0	0	0	0	0	0	556	124	0	0	0	0	0	18	25	136			
Trevally	1957	788	235	0	0	0	0	71	40	263	0	0	0	0	0	0	0	0	788	235	0	0	0	0	0	71	40	263			
Trevally	1958	856	197	1	0	0	0	55	48	306	0	0	0	0	0	0	0	0	856	197	1	0	0	0	0	55	48	306			
Trevally	1959	980	175	0	0	0	0	87	60	286	0	0	0	0	0	0	0	0	980	175	0	0	0	0	0	87	60	286			
Trevally	1960	1141	191	1	0	0	0	105	55	526	0	0	0	0	0	0	0	0	1141	191	1	0	0	0	0	105	55	526			
Trevally	1961	1144	368	0	0	0	0	79	45	443	0	0	0	0	0	0	0	0	1144	368	0	0	0	0	0	79	45	443			
Trevally	1962	1415	431	0	0	0	0	75	58	525	0	0	0	0	0	0	0	0	1415	431	0	0	0	0	0	75	58	525			
Trevally	1963	1284	348	0	0	0	0	53	80	636	0	0	0	0	0	0	0	0	1284	348	0	0	0	0	0	53	80	636			
Trevally	1964	1329	395	2	0	0	0	17	77	545	0	0	0	0	0	0	0	0	1329	395	2	0	0	0	0	17	77	545			
Trevally	1965	1581	344	2	0	0	0	53	118	502	0	0	0	0	0	0	0	0	1581	344	2	0	0	0	0	53	118	502			
Trevally	1966	1568	382	0	0	0	0	204	209	738	0	0	0	0	0	0	0	0	1568	382	0	0	0	0	0	204	209	738			
Trevally	1967	1121	472	1	0	0	0	515	274	723	0	0	0	0	0	0	0	0	1121	472	1	0	0	0	0	515	274	723			
Trevally	1968	1425	504	0	0	0	0	483	265	799	0	0	0	0	0	0	0	0	1425	504	0	0	0	0	0	483	265	799			
Trevally	1969	1428	474	0	0	0	0	214	156	1008	0	0	0	0	0	0	0	0	1428	474	0	0	0	0	0	214	156	1008			
Trevally	1970	2010	490	0	0	0	0	233	340	1167	0	0	0	0	0	0	0	0	2010	490	0	0	0	0	0	233	340	1167			
Trevally	1971	3060	779	1	0	0	0	286	433	1390	0	0	0	0	0	0	0	0	3060	779	1	0	0	0	0	286	433	1390			
Trevally	1972	2738	946	0	0	0	0	316	476	1517	0	0	0	0	0	0	0	0	2738	946	0	0	0	0	0	316	476	1517			
Trevally	1973	1950	616	0	0	0	0	145	397	1839	0	0	0	0	0	0	0	0	1950	616	0	0	0	0	0	145	397	1839			
Trevally	1974	2365	687	0	0	0	0	185	341	1551	0	0	0	0	0	0	0	0	2365	687	0	0	0	0	0	185	341	1551			
Trevally	1975	1470	361	0	0	0	0	103	445	1131	0	0	0	0	0	0	0	0	1470	361	0	0	0	0	0	103	445	1131			
Trevally	1976	2659	1026	0	0	0	0	137	521	1336	0	0	0	0	0	0	0	0	2659	1026	0	0	0	0	0	137	521	1336			
Trevally	1977	3749	558	0	0	0	0	118	440	1618	0	0	0	0	0	0	0	0	3749	558	0	0	0	0	0	118	440	1618			
Trevally	1978	3627	518	1	0	0	0	265	409	1705	0	0	0	0	0	1	0	0	3627	518	1	0	0	0	0	265	409	1705			
Trevally	1979	2566	449	1	0	0	0	160	421	2076	0	0	0	0	0	0	0	1	0	2566	449	1	0	0	0	0	160	422	2076		
Trevally	1980	1471	330	0	0	0	0	121	425	1979	0	0	0	0	0	0	0	1	19	0	0	1471	330	0	0	0	0	0	122	444	1979
Trevally	1981	1524	229	0	0	0	0	261	287	2321	0	0	0	0	0	0	0	11	74	3	1524	229	0	0	0	0	0	272	361	2323	
Trevally	1982	2102	135	0	0	0	0	123	319																						

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9		
Trumpeter	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trumpeter	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trumpeter	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trumpeter	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trumpeter	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trumpeter	1936	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Trumpeter	1937	0	3	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	30	0	0	0	0	0	0	0	33
Trumpeter	1938	0	1	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	22	0	0	0	0	0	0	0	23
Trumpeter	1939	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	6
Trumpeter	1940	0	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	0	0	0	0	0	0	0	10
Trumpeter	1941	0	1	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	1	0	0	0	0	0	6
Trumpeter	1942	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Trumpeter	1943	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Trumpeter	1944	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Trumpeter	1945	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Trumpeter	1946	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Trumpeter	1947	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Trumpeter	1948	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	19
Trumpeter	1949	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	0	0	0	0	5
Trumpeter	1950	0	1	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	2	0	0	0	0	0	6
Trumpeter	1951	0	0	8	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	2	0	0	0	0	0	0	10
Trumpeter	1952	0	0	5	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	0	5	0	0	0	0	11
Trumpeter	1953	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	4
Trumpeter	1954	0	0	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	1	0	0	0	0	5
Trumpeter	1955	0	1	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	2	0	0	0	0	0	6
Trumpeter	1956	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	4
Trumpeter	1957	0	1	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	0	1	0	0	0	5
Trumpeter	1958	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	4
Trumpeter	1959	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	3
Trumpeter	1960	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	3
Trumpeter	1961	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	3
Trumpeter	1962	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	4
Trumpeter	1963	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3
Trumpeter	1964	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	4
Trumpeter	1965	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3
Trumpeter	1966	0	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	1	0	0	5
Trumpeter	1967	0	1	2	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	6	0	0	0	0	9
Trumpeter	1968	0	2	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	3	0	0	0	6
Trumpeter	1969	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	4
Trumpeter	1970	0	5	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	1	0	0	0	7
Trumpeter	1971	0	7	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	1	0	0	0	9
Trumpeter	1972	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	4
Trumpeter	1973	0	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	1	0	0	0	5
Trumpeter	1974	0	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	1	0	0	0	0	0	5
Trumpeter	1975	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	4
Trumpeter	1976	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2
Trumpeter	1977	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2
Trumpeter	1978	0	1	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	2	0	0	0	5
Trumpeter	1979	0	4	6	0	0	7	0	0	0	0	3	2	0	0	0	0	0	0	4	9	2	0	0	7	0	0	0	22
Trumpeter	1980	0	4	5	0	0	1	0	0	0	1	0	6	0	0	0	0	0	0	4	5	6	0	0	1	0	0	0	16
Trumpeter	1981	0	6	4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	6	4	2	0	0	0	0	0	0	12
Trumpeter	1982	2	21	6	0	0	4	1	0	0	0	0	0	0	0	0	0	0	2	21	6	0	0	4	1	0	0	0	34

Appendix 3: (continued).

Species	Year	Domestic									Foreign									Domestic and foreign									Total		
		FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9	FMA 1	FMA 2	FMA 3	FMA 4	FMA 5	FMA 6	FMA 7	FMA 8	FMA 9				
Yelloweyed mullet	1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yelloweyed mullet	1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yelloweyed mullet	1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yelloweyed mullet	1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yelloweyed mullet	1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yelloweyed mullet	1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yelloweyed mullet	1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yelloweyed mullet	1938	1	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	2	0	0	0	0	0	6		
Yelloweyed mullet	1939	0	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	5		
Yelloweyed mullet	1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yelloweyed mullet	1941	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1			
Yelloweyed mullet	1942	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1		
Yelloweyed mullet	1943	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	1	0	0	0	0	0	5		
Yelloweyed mullet	1944	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2		
Yelloweyed mullet	1945	9	1	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	9	1	1	0	0	0	0	4	0	0	15		
Yelloweyed mullet	1946	52	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	65		
Yelloweyed mullet	1947	65	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	65	1	0	0	0	0	0	1	0	0	67		
Yelloweyed mullet	1948	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	71		
Yelloweyed mullet	1949	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	0	0	0	0	0	0	0	0	0	81		
Yelloweyed mullet	1950	31	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	1	0	0	0	0	0	0	0	32		
Yelloweyed mullet	1951	36	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	3	0	0	0	0	0	0	0	39		
Yelloweyed mullet	1952	13	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	1	0	0	0	0	0	0	0	14		
Yelloweyed mullet	1953	13	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	3	0	0	0	0	0	0	0	16		
Yelloweyed mullet	1954	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	16		
Yelloweyed mullet	1955	28	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	2	0	0	0	0	0	0	0	30		
Yelloweyed mullet	1956	28	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	1	0	0	0	0	0	0	0	0	29		
Yelloweyed mullet	1957	19	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	1	3	0	0	0	0	0	0	0	23		
Yelloweyed mullet	1958	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22		
Yelloweyed mullet	1959	20	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	23		
Yelloweyed mullet	1960	9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	1	0	0	0	0	0	0	0	11		
Yelloweyed mullet	1961	20	1	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1	21	0	0	0	0	0	0	0	0	42	
Yelloweyed mullet	1962	19	1	11	0	0	0	1	0	0	0	0	0	0	0	0	0	0	19	1	11	0	0	0	0	0	0	0	0	32	
Yelloweyed mullet	1963	8	1	9	0	0	1	0	1	0	0	0	0	0	0	0	0	0	8	1	9	0	0	0	1	0	0	0	20		
Yelloweyed mullet	1964	9	1	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	19	0	0	0	0	0	0	0	0	29	
Yelloweyed mullet	1965	6	5	15	0	0	0	0	3	0	0	0	0	0	0	0	0	0	6	5	15	0	0	0	0	0	0	0	0	3	
Yelloweyed mullet	1966	4	1	12	0	0	1	0	5	0	0	0	0	0	0	0	0	0	4	1	12	0	0	0	0	1	0	0	5	23	
Yelloweyed mullet	1967	23	0	4	0	0	9	2	4	0	0	0	0	0	0	0	0	0	23	0	4	0	0	0	0	9	2	4	42		
Yelloweyed mullet	1968	19	0	14	0	0	0	0	2	0	0	0	0	0	0	0	0	0	19	0	14	0	0	0	0	0	0	0	0	35	
Yelloweyed mullet	1969	17	9	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	17	9	1	0	0	0	0	0	0	0	29		
Yelloweyed mullet	1970	17	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17	0	1	0	0	0	0	0	0	0	19		
Yelloweyed mullet	1971	14	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	15		
Yelloweyed mullet	1972	7	1	12	0	0	2	0	1	0	0	0	0	0	0	0	0	0	7	1	12	0	0	0	0	2	0	1	0	23	
Yelloweyed mullet	1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yelloweyed mullet	1974	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
Yelloweyed mullet	1975	11	4	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11	4	1	0	0	0	0	0	0	0	1	17	
Yelloweyed mullet	1976	11	2	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	11	2	0	0	0	0	0	0	0	3	1	0	17
Yelloweyed mullet	1977	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	1	0	5	
Yelloweyed mullet	1978	1	1	3	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0	0	2	0	7	
Yelloweyed mullet	1979	1	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	0	0	0	2	0	0	7	
Yelloweyed mullet	1980	2	0	47	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	0	47	0	0	0	0	1	1	0	0	52	
Yelloweyed mullet	1981	5	2	55	0	0	4	0	4	0	0	0	0	0	0	0	0	0	5	2	55	0	0	0	0	4	0	0	4	70	
Yelloweyed mullet	1982	4	0	45	0	0	0	0	2	0	0	0	0	0	0	0	0	0	4	0	45	0	0	0	0	0	0	2	0	51	

APPENDIX 4: LANDINGS HISTORIES FOR FRESHWATER EELS AND INSHORE SHELLFISH SPECIES BY FISHERIES MANAGEMENT AREA OR QUOTA MANAGEMENT AREA

Landings histories begin in the first year for which landings were reported, and are in tonnes.

Species	Year	North Island	South Island	Chatham Islands	Total
Freshwater eels	1961	20	25	0	45
Freshwater eels	1962	46	12	0	58
Freshwater eels	1963	15	2	0	17
Freshwater eels	1964	10	9	0	19
Freshwater eels	1965	3	12	0	15
Freshwater eels	1966	4	47	0	51
Freshwater eels	1967	86	54	0	140
Freshwater eels	1968	201	113	0	314
Freshwater eels	1969	244	199	0	443
Freshwater eels	1970	646	196	22	864
Freshwater eels	1971	901	525	3	1429
Freshwater eels	1972	1332	735	2	2069
Freshwater eels	1973	715	570	0	1285
Freshwater eels	1974	423	412	0	835
Freshwater eels	1975	510	725	0	1235
Freshwater eels	1976	596	907	0	1503
Freshwater eels	1977	418	491	0	909
Freshwater eels	1978	885	698	0	1583
Freshwater eels	1979	963	656	24	1643
Freshwater eels	1980	873	516	11	1400
Freshwater eels	1981	649	389	1	1039
Freshwater eels	1982	584	285	2	871

Species	Year	FMA1	FMA3	FMA9	Total
Cockle	1974	28	0	1	29
Cockle	1975	0	0	0	0
Cockle	1976	4	0	4	8
Cockle	1977	5	0	6	11
Cockle	1978	12	0	3	15
Cockle	1979	32	0	19	51
Cockle	1980	53	0	50	103
Cockle	1981	51	0	15	66
Cockle	1982	40	1	0	41

Appendix 4: (continued).

Species	Year	OYS5	OYS7	Total
Dredge oyster	1931	2887	0	2887
Dredge oyster	1932	2961	0	2961
Dredge oyster	1933	3332	0	3332
Dredge oyster	1934	4128	0	4128
Dredge oyster	1935	3927	0	3927
Dredge oyster	1936	5010	0	5010
Dredge oyster	1937	5245	0	5245
Dredge oyster	1938	5312	0	5312
Dredge oyster	1939	5936	0	5936
Dredge oyster	1940	5213	0	5213
Dredge oyster	1941	5891	0	5891
Dredge oyster	1942	5805	0	5805
Dredge oyster	1943	5776	0	5776
Dredge oyster	1944	5052	0	5052
Dredge oyster	1945	6007	0	6007
Dredge oyster	1946	7059	0	7059
Dredge oyster	1947	6440	0	6440
Dredge oyster	1948	7461	0	7461
Dredge oyster	1949	7690	0	7690
Dredge oyster	1950	5929	0	5929
Dredge oyster	1951	7160	0	7160
Dredge oyster	1952	7400	0	7400
Dredge oyster	1953	5659	0	5659
Dredge oyster	1954	5237	0	5237
Dredge oyster	1955	6210	0	6210
Dredge oyster	1956	5984	0	5984
Dredge oyster	1957	6138	0	6138
Dredge oyster	1958	6577	0	6577
Dredge oyster	1959	7860	0	7860
Dredge oyster	1960	9886	0	9886
Dredge oyster	1961	8604	0	8604
Dredge oyster	1962	5452	9	5461
Dredge oyster	1963	5906	9	5915
Dredge oyster	1964	7496	7	7503
Dredge oyster	1965	9727	13	9740
Dredge oyster	1966	12670	42	12712
Dredge oyster	1967	12983	70	13053
Dredge oyster	1968	11628	110	11738
Dredge oyster	1969	5236	37	5273
Dredge oyster	1970	8974	111	9085
Dredge oyster	1971	9092	107	9199
Dredge oyster	1972	7903	163	8066
Dredge oyster	1973	9947	371	10318
Dredge oyster	1974	9409	78	9487
Dredge oyster	1975	8924	136	9060
Dredge oyster	1976	9090	393	9483
Dredge oyster	1977	9404	212	9616
Dredge oyster	1978	9839	40	9879
Dredge oyster	1979	9855	83	9938
Dredge oyster	1980	9024	171	9195
Dredge oyster	1981	9088	389	9477
Dredge oyster	1982	8980	432	9412

Appendix 4: (continued).

Species	Year	FMA1	FMA2	FMA3	FMA4	FMA5	FMA7	FMA8	FMA9	Total
Kina	1974	49	1	0	0	0	83	5	26	164
Kina	1975	29	0	3	0	2	39	0	9	82
Kina	1976	76	6	0	0	12	26	17	12	149
Kina	1977	84	13	0	0	12	3	2	13	127
Kina	1978	94	41	0	18	20	7	1	26	207
Kina	1979	68	30	0	4	0	2	0	18	122
Kina	1980	106	20	0	0	3	8	1	16	154
Kina	1981	49	13	0	4	4	3	1	1	75
Kina	1982	86	28	1	2	1	16	1	3	138

Appendix 4: (continued).

Species	Year	FMA1	FMA2	FMA3	FMA4	FMA5	FMA7	FMA8	FMA9	Total
Mussels	1931	288	0	0	0	0	0	0	0	288
Mussels	1932	210	10	0	0	0	0	0	0	220
Mussels	1933	332	0	0	0	0	0	0	0	332
Mussels	1934	487	0	0	0	0	0	0	0	487
Mussels	1935	687	0	0	0	0	0	0	0	687
Mussels	1936	708	0	0	0	0	0	0	0	708
Mussels	1937	504	0	0	0	0	0	0	0	504
Mussels	1938	875	0	0	0	0	0	0	0	875
Mussels	1939	1131	0	0	0	0	0	0	0	1131
Mussels	1940	1230	0	0	0	0	0	0	0	1230
Mussels	1941	1391	0	0	0	0	0	0	0	1391
Mussels	1942	1341	0	0	0	0	0	0	0	1341
Mussels	1943	1138	0	0	0	0	0	0	0	1138
Mussels	1944	1046	0	0	0	0	0	0	0	1046
Mussels	1945	895	0	0	0	0	0	0	0	895
Mussels	1946	718	0	0	0	0	0	0	0	718
Mussels	1947	1106	0	0	0	0	0	0	0	1106
Mussels	1948	980	0	0	0	0	0	0	0	980
Mussels	1949	1010	0	0	0	0	0	0	0	1010
Mussels	1950	928	0	0	0	0	0	0	0	928
Mussels	1951	1106	1	0	0	0	0	0	0	1107
Mussels	1952	1254	1	0	0	0	0	0	0	1255
Mussels	1953	1282	1	0	0	0	2	0	0	1285
Mussels	1954	1738	2	0	0	0	0	0	0	1740
Mussels	1955	1884	2	0	0	0	0	0	0	1886
Mussels	1956	2102	2	0	0	0	0	0	0	2104
Mussels	1957	1930	1	0	0	0	0	0	0	1931
Mussels	1958	2634	1	0	0	0	0	0	0	2635
Mussels	1959	2464	1	0	0	0	0	0	0	2465
Mussels	1960	2580	0	0	0	0	3	0	0	2583
Mussels	1961	2782	1	0	0	0	47	0	0	2830
Mussels	1962	2341	2	1	0	0	24	0	6	2374
Mussels	1963	1725	3	17	1	15	130	22	0	1913
Mussels	1964	968	3	0	0	0	856	0	0	1827
Mussels	1965	195	3	0	0	0	2287	0	0	2485
Mussels	1966	115	2	0	0	0	2355	0	1	2473
Mussels	1967	40	3	0	0	0	1118	3	18	1182
Mussels	1968	59	1	0	0	0	1435	0	63	1558
Mussels	1969	47	0	0	0	0	854	0	111	1012
Mussels	1970	10	2	0	0	157	799	0	55	1023
Mussels	1971	20	2	0	0	97	1041	5	29	1194
Mussels	1972	148	6	0	0	34	2039	0	228	2455
Mussels	1973	27	3	1	0	1	1798	0	533	2363
Mussels	1974	112	2	2	0	28	1074	0	919	2137
Mussels	1975	100	5	1	0	1	819	0	670	1596
Mussels	1976	193	2	3	0	0	1824	0	226	2248
Mussels	1977	41	10	4	0	0	534	0	61	650
Mussels	1978	3	16	4	0	0	255	1	427	706
Mussels	1979	28	59	3	0	0	196	0	842	1128
Mussels	1980	3	76	5	0	4	75	5	1400	1568
Mussels	1981	14	12	2	0	1	13	0	1325	1367
Mussels	1982	6	9	1	0	0	1	0	830	847

Appendix 4: (continued).

Species	Year	FMA1	FMA2	FMA3	FMA5	FMA7	FMA8	Total
Octopus	1974	2	0	8	0	0	0	10
Octopus	1975	0	1	8	0	1	0	10
Octopus	1976	0	0	7	0	1	1	9
Octopus	1977	1	1	7	0	1	1	11
Octopus	1978	1	1	12	0	4	3	21
Octopus	1979	3	3	15	3	2	1	27
Octopus	1980	8	5	21	3	2	4	43
Octopus	1981	9	4	36	2	4	3	58
Octopus	1982	2	1	10	1	0	2	16

Species	Year	PHC1
Packhorse lobster	1974	7
Packhorse lobster	1975	2
Packhorse lobster	1976	3
Packhorse lobster	1977	52
Packhorse lobster	1978	8
Packhorse lobster	1979	2
Packhorse lobster	1980	10
Packhorse lobster	1981	24
Packhorse lobster	1982	27

Species	Year	FMA1	FMA2	FMA3	FMA7	Total
Paddle crab	1978	0	2	0	0	2
Paddle crab	1979	1	7	2	0	10
Paddle crab	1980	0	12	8	1	21
Paddle crab	1981	10	25	0	3	38
Paddle crab	1982	25	19	0	20	64

Appendix 4: (continued).

Species	Year	PAU1	PAU2	PAU3	PAU4	PAU5	PAU6	PAU7	Total
Paua	1971	6	433	44	145	547	0	285	1460
Paua	1972	2	152	68	80	206	0	206	714
Paua	1973	0	69	63	135	324	0	220	811
Paua	1974	1	41	44	95	157	0	100	438
Paua	1975	0	41	33	130	162	0	135	501
Paua	1976	0	38	27	245	148	0	96	554
Paua	1977	0	50	29	341	181	0	165	766
Paua	1978	0	51	28	85	248	0	163	575
Paua	1979	0	27	25	59	237	0	180	528
Paua	1980	2	28	21	175	370	0	147	743
Paua	1981	5	27	24	313	661	0	153	1183
Paua	1982	4	62	57	219	312	0	190	844

Species	Year	FMA1	FMA2	FMA9	Total
Pipi	1974	154	0	0	154
Pipi	1975	83	0	1	84
Pipi	1976	48	0	0	48
Pipi	1977	88	0	0	88
Pipi	1978	61	1	5	67
Pipi	1979	106	0	1	107
Pipi	1980	55	0	0	55
Pipi	1981	31	0	0	31
Pipi	1982	8	0	0	8

Appendix 4: (continued).

Species	Year	CRA1	CRA2	CRA3	CRA4	CRA5	CRA6	CRA7	CRA8	CRA9	Total
Rock lobster	1931	0	74	0	12	11	0	3	0	6	106
Rock lobster	1932	3	61	0	155	21	0	3	0	11	254
Rock lobster	1933	8	200	0	41	65	0	132	0	7	453
Rock lobster	1934	3	82	0	40	21	0	199	0	5	350
Rock lobster	1935	3	117	3	93	13	0	102	0	3	334
Rock lobster	1936	13	127	13	109	73	0	114	0	0	449
Rock lobster	1937	23	129	32	125	164	0	144	0	3	620
Rock lobster	1938	12	101	20	125	89	0	119	0	2	468
Rock lobster	1939	7	105	23	128	46	0	90	3	8	410
Rock lobster	1940	5	107	29	181	77	0	135	0	6	540
Rock lobster	1941	11	131	18	215	65	0	171	1	10	622
Rock lobster	1942	29	123	19	228	47	0	187	0	21	654
Rock lobster	1943	30	94	27	203	56	0	139	0	4	553
Rock lobster	1944	23	114	37	217	71	0	233	0	7	702
Rock lobster	1945	22	136	43	254	138	0	202	0	9	804
Rock lobster	1946	23	116	39	226	204	0	171	0	73	852
Rock lobster	1947	40	131	55	253	253	0	169	0	16	917
Rock lobster	1948	100	202	57	253	533	0	161	32	17	1355
Rock lobster	1949	104	199	32	274	689	0	312	213	44	1867
Rock lobster	1950	94	210	42	503	901	0	503	241	174	2668
Rock lobster	1951	85	191	54	674	580	0	470	477	295	2826
Rock lobster	1952	134	178	37	654	578	0	461	823	449	3314
Rock lobster	1953	131	192	35	679	381	0	404	1877	453	4152
Rock lobster	1954	73	150	21	667	340	0	840	2910	531	5532
Rock lobster	1955	63	155	16	504	357	0	913	3377	542	5927
Rock lobster	1956	75	159	13	435	351	0	1251	3523	727	6534
Rock lobster	1957	61	137	22	327	260	0	964	2820	447	5038
Rock lobster	1958	63	154	27	340	337	0	856	2388	271	4436
Rock lobster	1959	62	192	29	295	430	0	982	1809	210	4009
Rock lobster	1960	67	167	35	361	392	0	790	1747	196	3755
Rock lobster	1961	81	199	57	420	366	0	1030	1516	364	4033
Rock lobster	1962	135	203	64	502	436	0	1095	1732	406	4573
Rock lobster	1963	109	252	112	377	323	0	954	1874	546	4547
Rock lobster	1964	219	300	229	507	449	0	596	1897	392	4589
Rock lobster	1965	250	289	213	617	565	119	656	1945	323	4977
Rock lobster	1966	182	308	238	799	663	1268	766	2092	236	6552
Rock lobster	1967	149	345	384	537	571	3306	706	1776	306	8080
Rock lobster	1968	218	356	382	699	535	5945	849	1514	413	10911
Rock lobster	1969	338	315	244	729	499	4138	698	1513	424	8898
Rock lobster	1970	331	218	184	568	446	1746	723	1965	281	6462
Rock lobster	1971	378	193	143	419	484	1209	494	1959	399	5678
Rock lobster	1972	232	210	136	418	469	1086	248	1403	372	4574
Rock lobster	1973	77	183	116	387	389	1031	567	1650	366	4766
Rock lobster	1974	43	176	183	370	316	517	391	1331	238	3565
Rock lobster	1975	78	140	162	403	416	331	288	1183	313	3314
Rock lobster	1976	95	149	197	455	381	390	303	1401	324	3695
Rock lobster	1977	138	206	220	446	376	304	282	1296	228	3496
Rock lobster	1978	119	195	219	431	345	315	429	1369	321	3743
Rock lobster	1979	113	286	306	594	447	391	437	1574	335	4483
Rock lobster	1980	165	474	322	739	518	354	322	1467	234	4595
Rock lobster	1981	195	443	327	777	507	460	284	1363	179	4535
Rock lobster	1982	214	382	462	1053	596	426	143	1348	142	4766

Appendix 4: (continued).

Species	Year	ROY1
Rock oyster	1931	296
Rock oyster	1932	300
Rock oyster	1933	321
Rock oyster	1934	358
Rock oyster	1935	207
Rock oyster	1936	274
Rock oyster	1937	286
Rock oyster	1938	331
Rock oyster	1939	403
Rock oyster	1940	393
Rock oyster	1941	410
Rock oyster	1942	398
Rock oyster	1943	396
Rock oyster	1944	434
Rock oyster	1945	372
Rock oyster	1946	347
Rock oyster	1947	359
Rock oyster	1948	387
Rock oyster	1949	345
Rock oyster	1950	349
Rock oyster	1951	287
Rock oyster	1952	340
Rock oyster	1953	355
Rock oyster	1954	390
Rock oyster	1955	360
Rock oyster	1956	352
Rock oyster	1957	317
Rock oyster	1958	269
Rock oyster	1959	309
Rock oyster	1960	291
Rock oyster	1961	209
Rock oyster	1962	210
Rock oyster	1963	203
Rock oyster	1964	145
Rock oyster	1965	149
Rock oyster	1966	176
Rock oyster	1967	156
Rock oyster	1968	223
Rock oyster	1969	347
Rock oyster	1970	334
Rock oyster	1971	433
Rock oyster	1972	393
Rock oyster	1973	325

Appendix 4: (continued).

Species	Year	SCA1 N	SCA1 C	SCA7	Total
Scallop	1961	0	0	357	357
Scallop	1962	0	0	317	317
Scallop	1963	0	0	756	756
Scallop	1964	0	0	834	834
Scallop	1965	0	0	528	528
Scallop	1966	0	0	200	200
Scallop	1967	0	0	200	200
Scallop	1968	0	0	79	79
Scallop	1969	0	0	595	595
Scallop	1970	0	0	483	483
Scallop	1971	0	0	1612	1612
Scallop	1972	81	0	1571	1652
Scallop	1973	79	0	2361	2440
Scallop	1974	40	4	3901	3945
Scallop	1975	75	120	10203	10398
Scallop	1976	132	80	6190	6402
Scallop	1977	132	749	4705	5586
Scallop	1978	113	1364	1612	3089
Scallop	1979	149	859	855	1863
Scallop	1980	220	1016	333	1569
Scallop	1981	525	1080	0	1605
Scallop	1982	670	1120	0	1790

Species	Year	FMA1	FMA9	Total
Tuatua	1974	11	32	43
Tuatua	1975	12	40	52
Tuatua	1976	1	61	62
Tuatua	1977	3	76	79
Tuatua	1978	2	56	58
Tuatua	1979	7	106	113
Tuatua	1980	8	103	111
Tuatua	1981	0	75	75
Tuatua	1982	1	142	143