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Results of the Inshore Effort Survey for 2J3KL Cod, 1989-91

by

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Research Documents are produced in the official language in which they are provided to the Secretariat by the author.

¹ Cette série documente les bases scientifiques des conseils de gestion des pêches sur la côte atlantique du Canada. Comme telle, elle couvre les problèmes actuels selon les échéanciers voulus et les Documents de recherche qu'elle contient ne doivent pas être considérés comme des énoncés finals sur les sujets traités mais plutôt comme des rapports d'étape sur les études en cours.

Les Documents de recherche sont publiés dans la langue officielle utilisée par les auteurs dans le manuscrit envoyé au secrétariat.

Summary

Mean weekly landings for cod (*Gadus morhua*) from six gear types are presented for the years 1989-1991 in NAFO divisions 2J3KL. Means were generated from the catch per haul for Newfoundland and Japanese cod traps. Longlines, handlines and jigging means were generated as total catch per fishing day. Gill net means were generated from catch per 50 ftm length hauled per day. Results are discussed primarily in terms of the 1991 fishery.

Résumé

On présente les débarquements hebdomadaires moyens de morue (*Gadus morhua*) capturés par six types d'engin dans les divisions 2J3KL de l'OPANO, de 1989 à 1991. Ces moyennes sont établies d'après les prises par levage pour ce qui est des trappes à morue des pêcheurs de Terre-Neuve et des Japonais, d'après les prises totales par jour de pêche en ce qui concerne les palangres, les lignes à main et les turlottes et d'après les prises par levage d'une hauteur de 50 brasses par jour, en ce qui a trait aux filets maillants. On traite essentiellement des résultats de la pêche de 1991.

Introduction

An inshore catch/effort survey has been undertaken in NAFO divisions 2J3KL since 1989. This survey is attempting to provide information to assist in the assessment process for 2J3KL cod by quantifying catch and effort data, identifying sources of error in estimating effort and ultimately developing a reliable index of catch per unit effort (CPUE) for the inshore fishery. This paper provides descriptive statistics for gear types for the period 1989-91.

Methods

The survey is a stratified-random design with strata defined as subdivisions of NAFO divisions 2J3KL (Figure 1). These unit areas approximate bays or short sections of coastline. Sampling by stratum is conducted with partial replacement. For each new sample chosen at the beginning of the calendar year, 50% of the previous sample is retained and an additional 50% is selected. This results in the participation of approximately 2000 inshore fishermen or 20 per cent of the total number of licences for vessels less than 35 feet from both full-time and part-time sectors.

Approximately 100 contractors within communities contact fishermen by phone each day of the fishing season and request information on a number of variables including weight of landed fish, weight of discards, amount and type of gear fished, main species sought and number of non-fishing days. This information is transmitted weekly to area offices, verified and ultimately transmitted to Regional Headquarters in St. John's, NF.

Results and Discussion

Mean landings per week per gear type for each fishing area which reported in 2J3KL are shown in Figures 2-68. No figure for a gear type in a particular area indicates that the gear was not used.

Reporting from many areas in 2J was sporadic and incomplete due to difficulties in communicating with fishermen in isolated areas of the coast. Coverage and reporting in 3K and 3L was satisfactory although coverage was greater in 3L for all years. Outright refusal to participate by all fishermen in some communities did occur in all years and affected the variances (not shown in the figures) for those areas. Efforts are currently underway to promote the survey and recruit fishermen in the non-participating communities.

NAFO Division 2J.

In general, the 1991 gillnet and trap fishery started approximately six weeks later than 1989 and 1990 and landings were down (Figures 2-7).

NAFO Division 3K.

Area 3Ka: The 1991 fishery was late starting and catches were low. However, the trap fishery did experience a few weeks of good catches late in the season (Figures 8-10).

Area 3Kd: The 1991 fishery was late starting and catches were low. Again, there were a few good weeks late in the season for the trap fishery, particularly Japanese traps (Figures 11-14).

Area 3Kh: The 1991 fishery was late starting and catches were low. There were a few good weeks in some areas late in the season for the trap fishery (Figures 15-18).

Area 3Ki: The fishery was late starting. However, late season gillnetting and trap fishing in some areas was comparable to 1989 and 1990. High nominal effort on Fogo Island accounts for some of the apparently good landings totals (Figures 19-25).

NAFO Division 3L

Area 3La: The fishery was late starting and catches were low. There was significant effort directed toward crab in this area which may have influenced the total landings for cod. Certain areas like Salvage (3Kae, 3Kaf) experienced low average landings for cod (Figures 26-33).

Area 3Lb: The 1991 Trinity Bay fishery was late starting and many fishermen lost gear due to ice. Late season landings in the Random Island area (3Lbf) were reported as exceptional. However, complete failures were experienced in the headland areas, particularly 3Lbp (Figures 34-49).

Area 3Lf: The fishery in 3Lfa and 3Lfb was late starting and landings were down drastically from previous years (Figures 50-58).

Area 3Lj: Overall, the southern Avalon Peninsula experienced an average year for landings although the season was approximately two weeks late starting and many crews lost gear due to moving ice (Figures 59-64).

Area 3Lq: St. Mary's Bay fishermen reported an average year for their area with the fishery starting on time in most areas (Figures 65-68).

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NAFO DIVISION 3L

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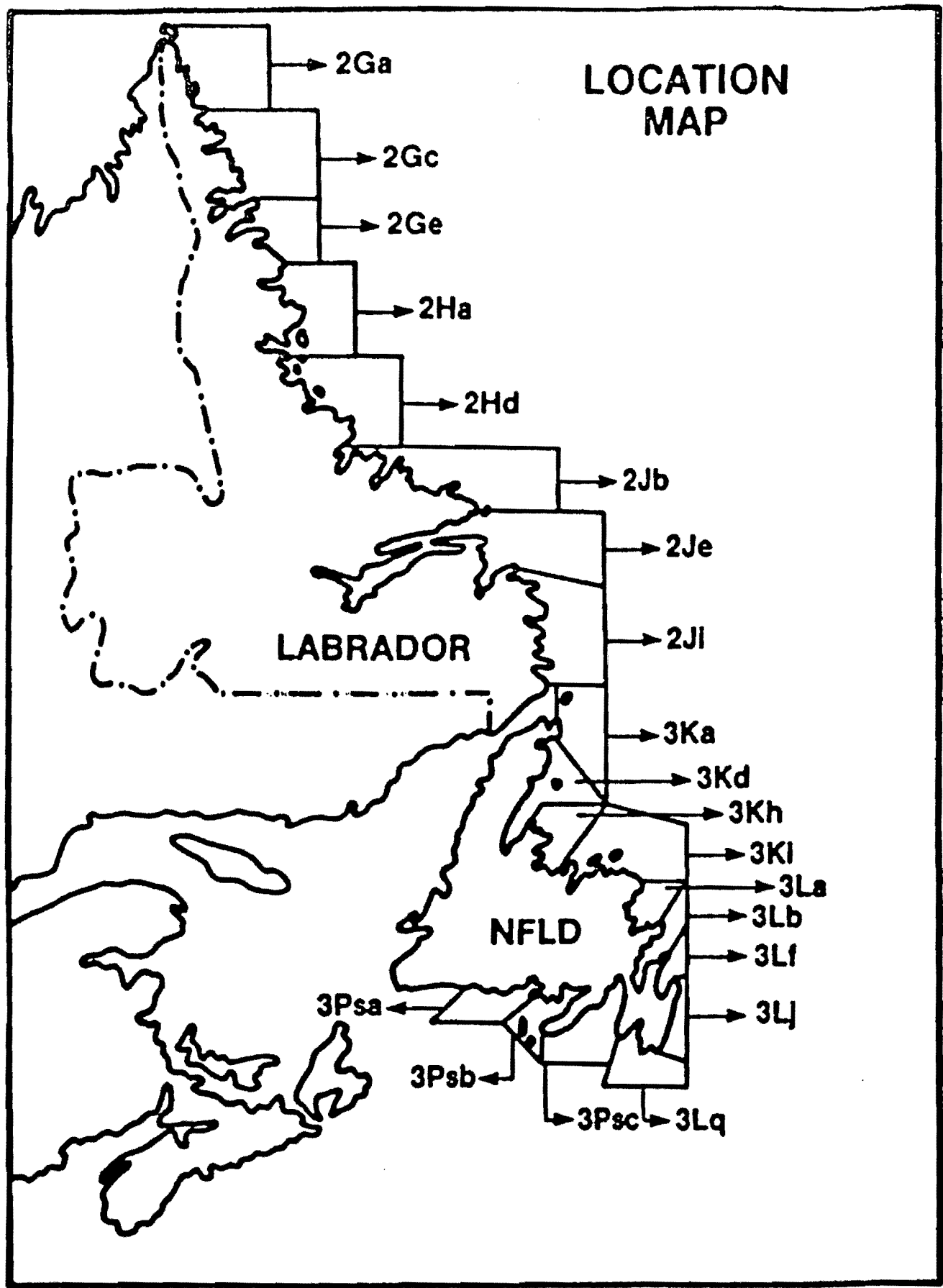
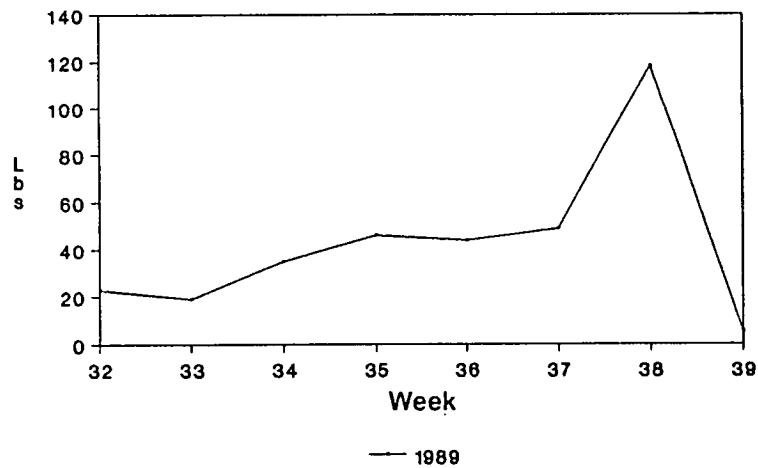
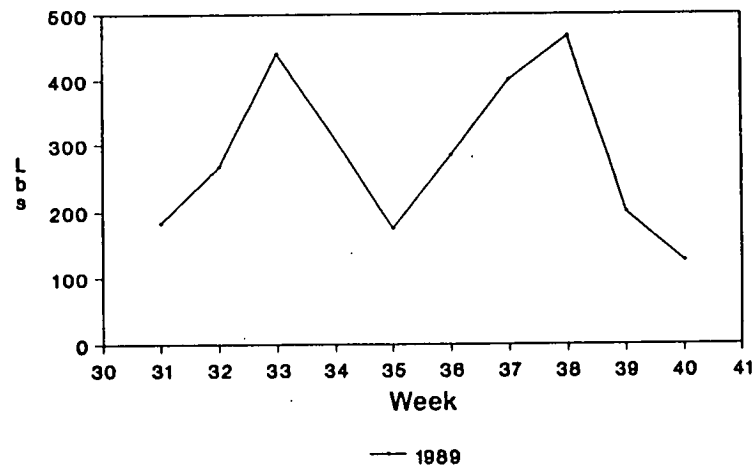


Figure 1. NAFO Divisions and survey unit areas.

2J da



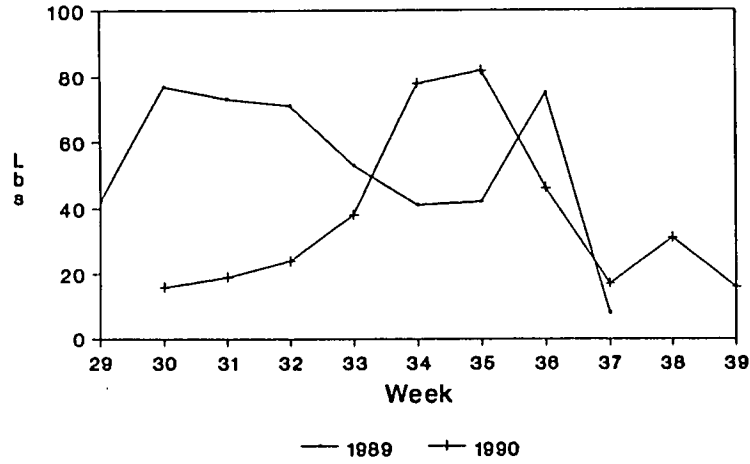
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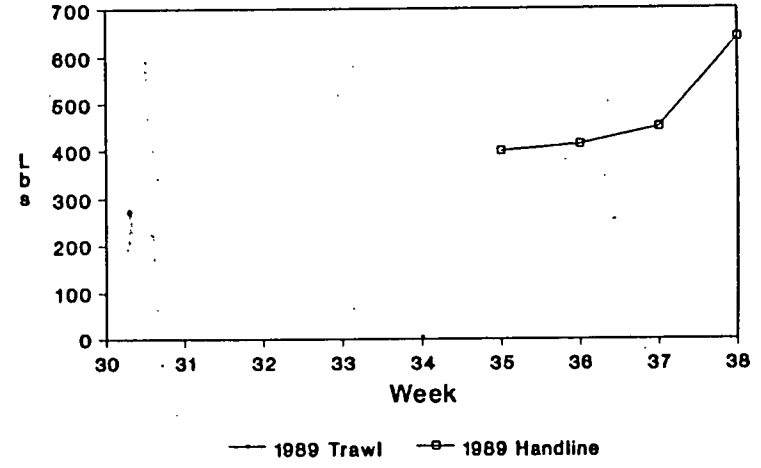
Jigger

Figure 2. 2J da: White Bear Islands to Fish Cove Point, Labrador.

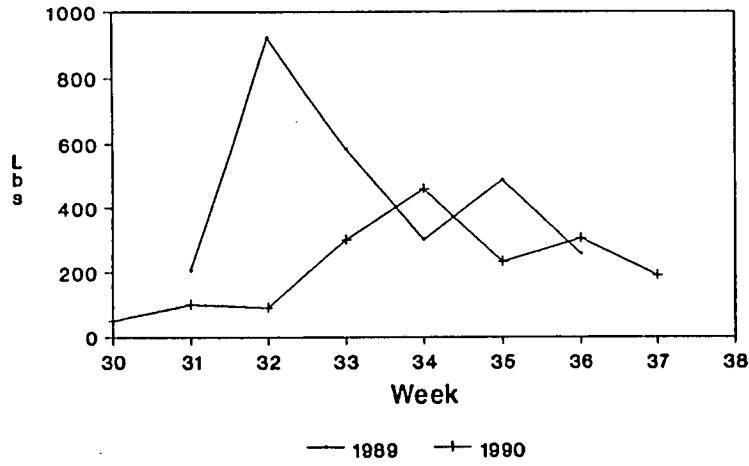
2J ma



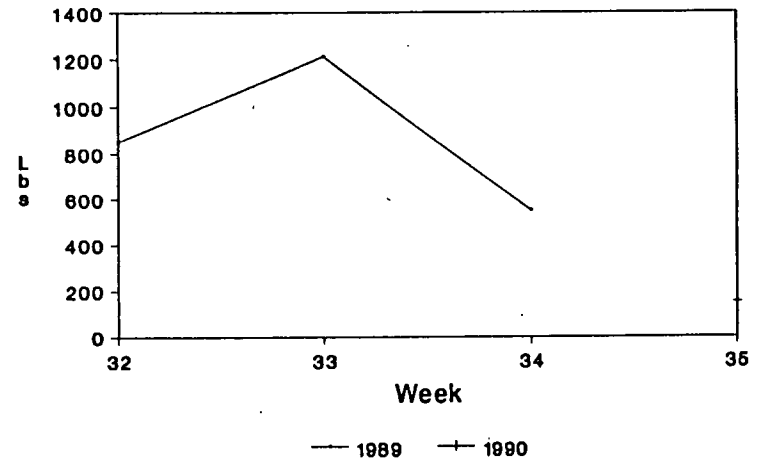
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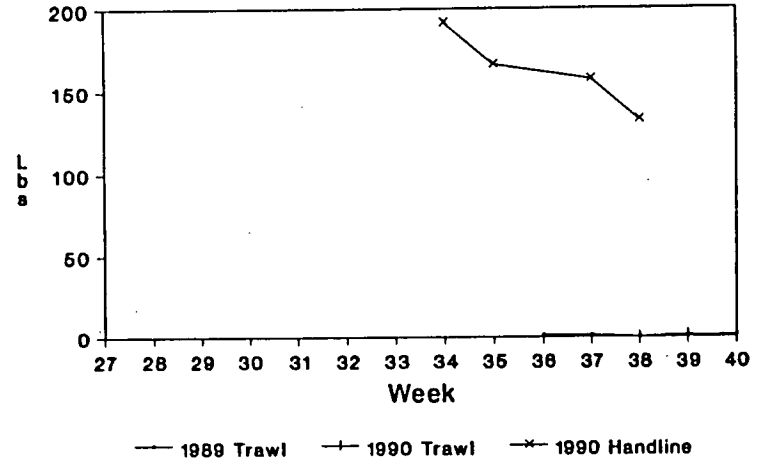
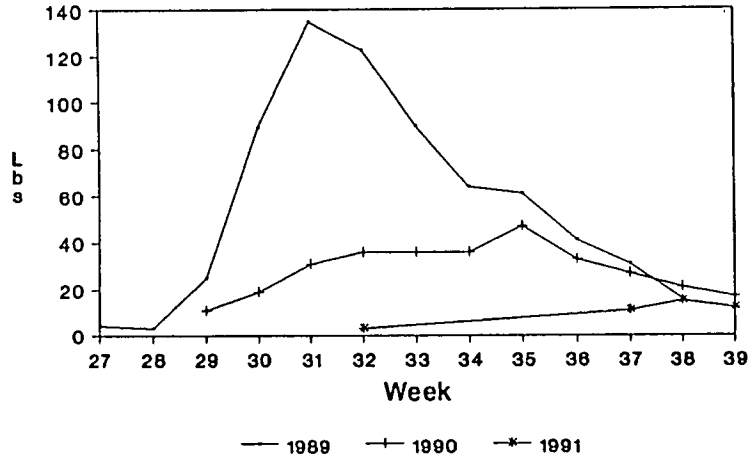
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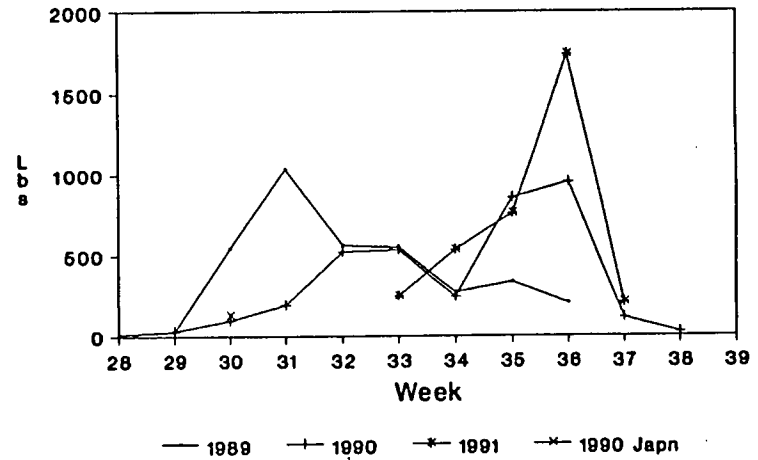
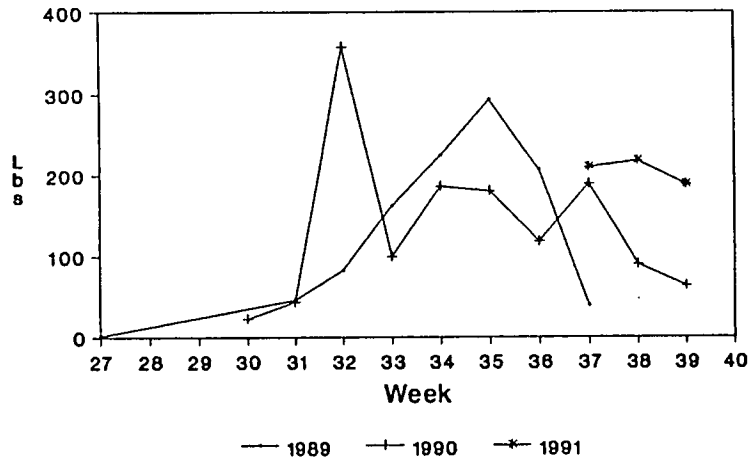
Figure 3. 2J ma: Cape North to Hawke Island, Labrador.

2J mb



Gillnets

Trawl and Handline

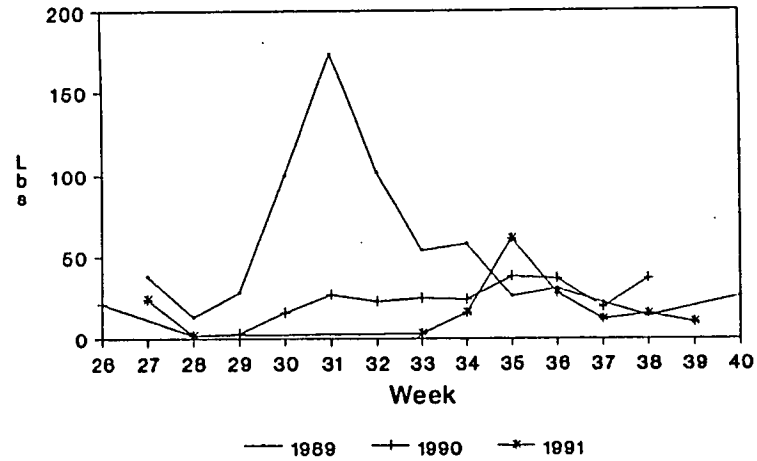


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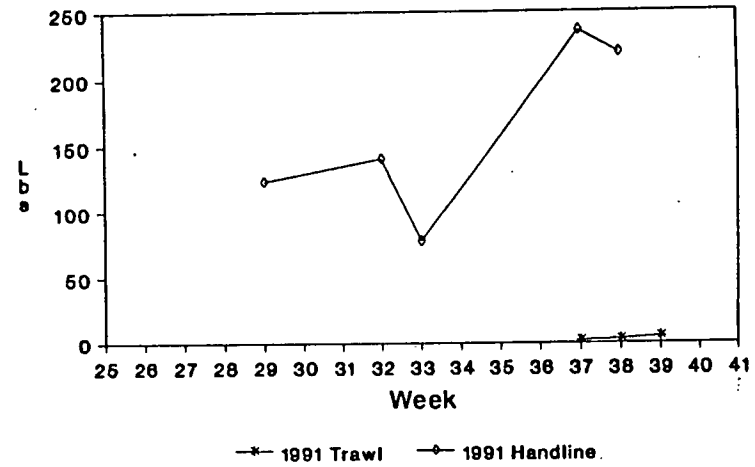
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Figure 4. 2J mb: Hawke Island to Cape St. Michael, Labrador.

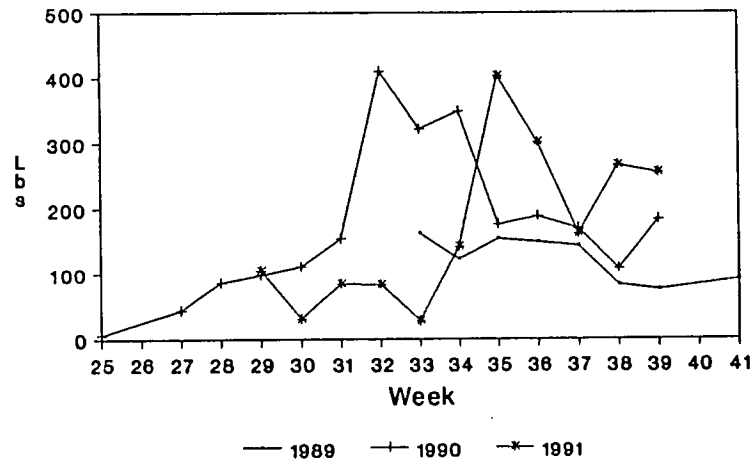
2J mc



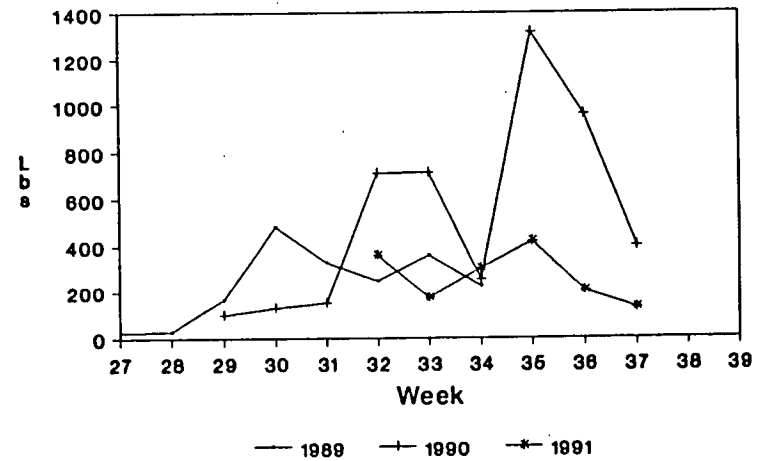
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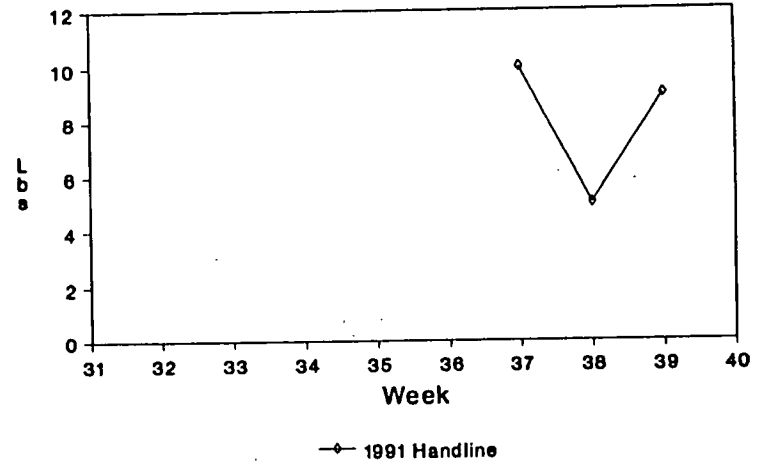
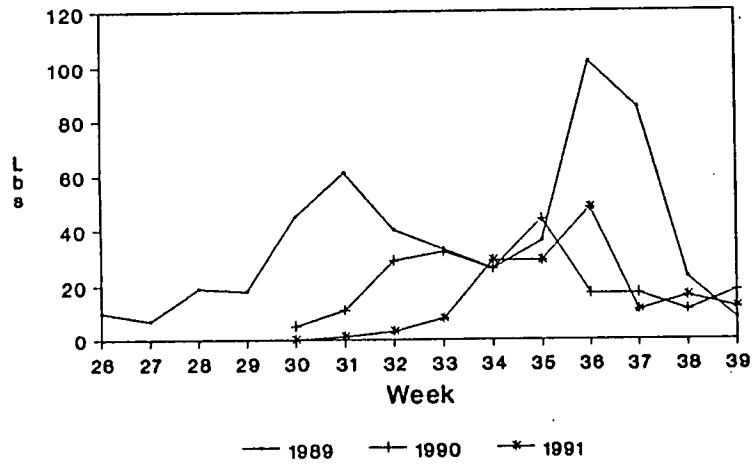
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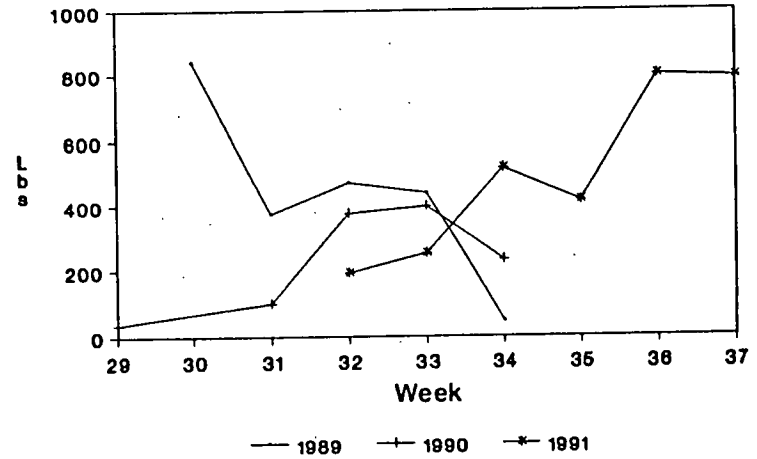
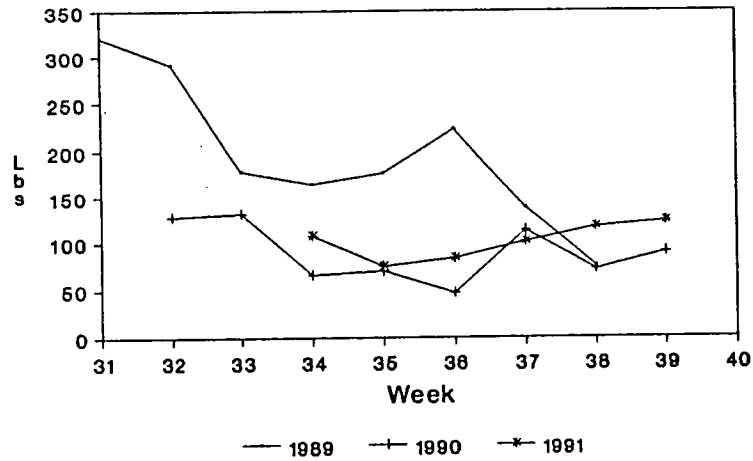
Figure 5. 2J mc: Cape St. Michael to Spear Point, Labrador.

2J md



Gillnets

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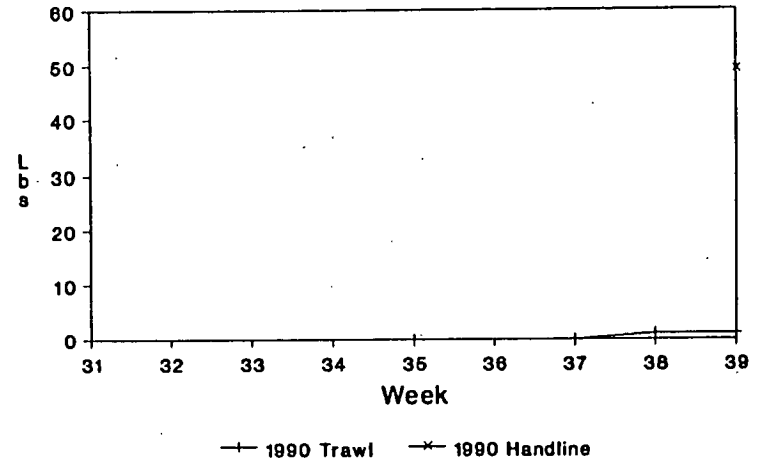
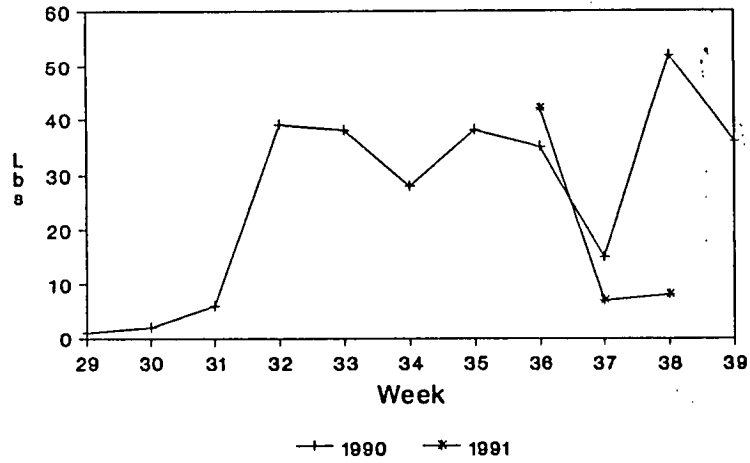


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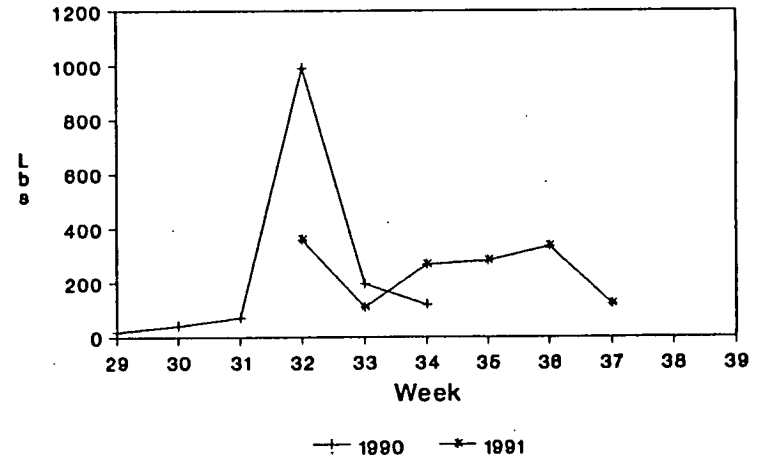
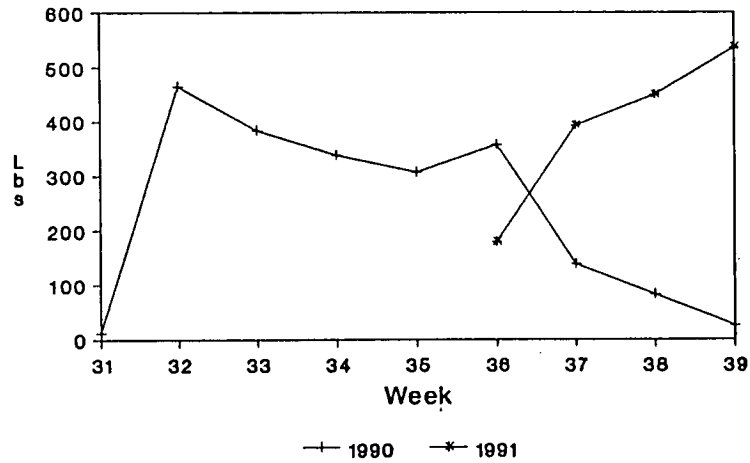
Figure 6. 2J md: Spear Point to Cape St. Charles.

2J ic



Gillnets

Trawl and Handline

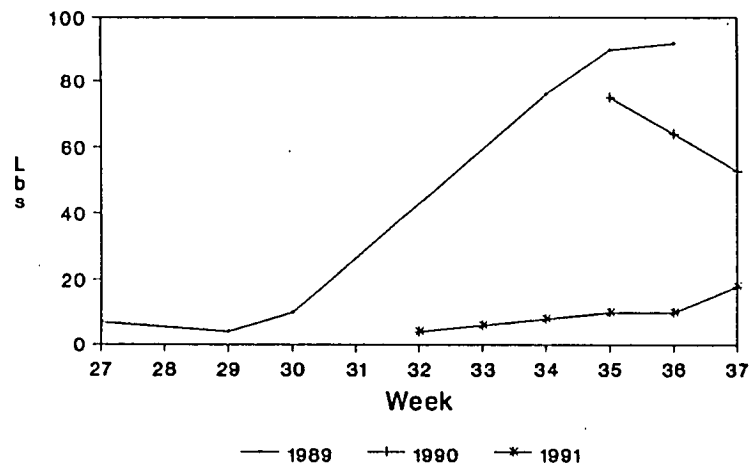


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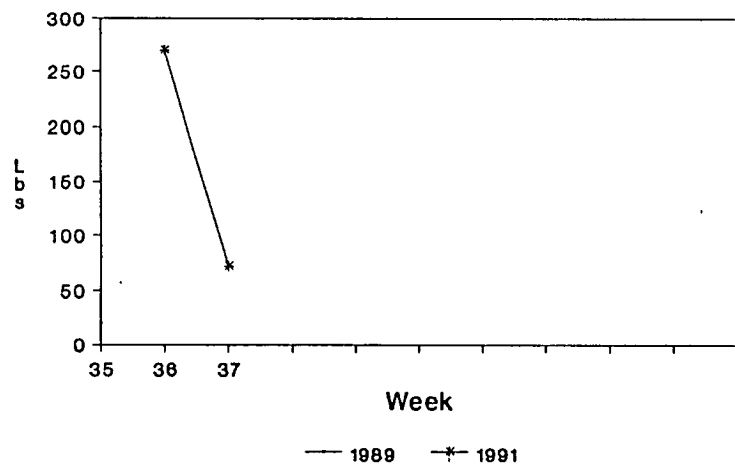
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Figure 7. 2J ic: Offshore Cape St. Michael to offshore Cape St. Charles.

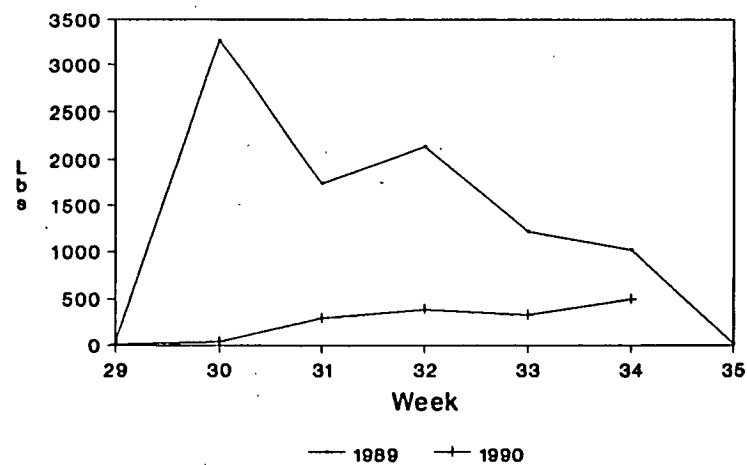
3K aa



Gillnets



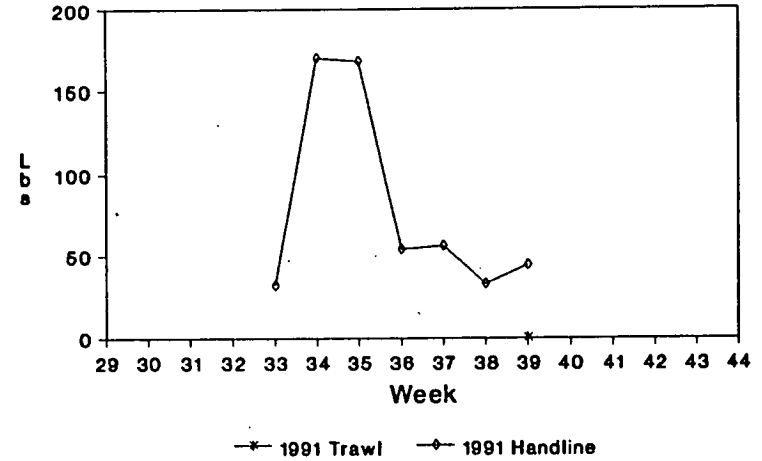
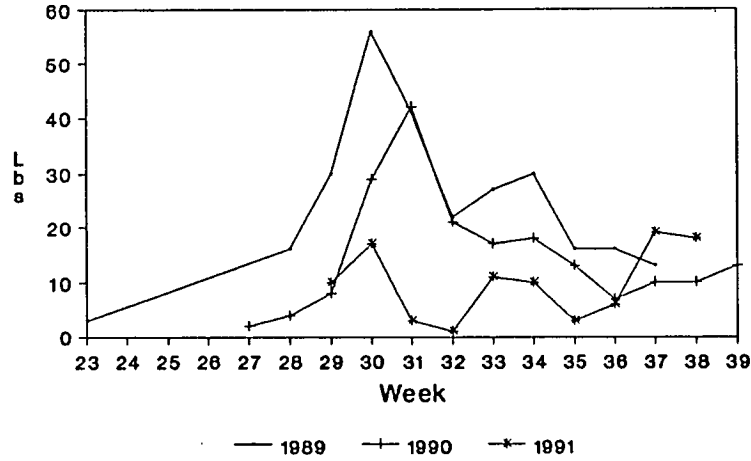
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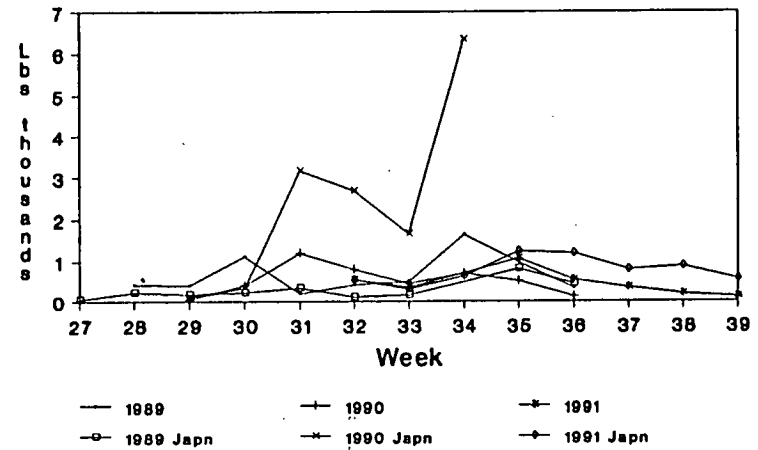
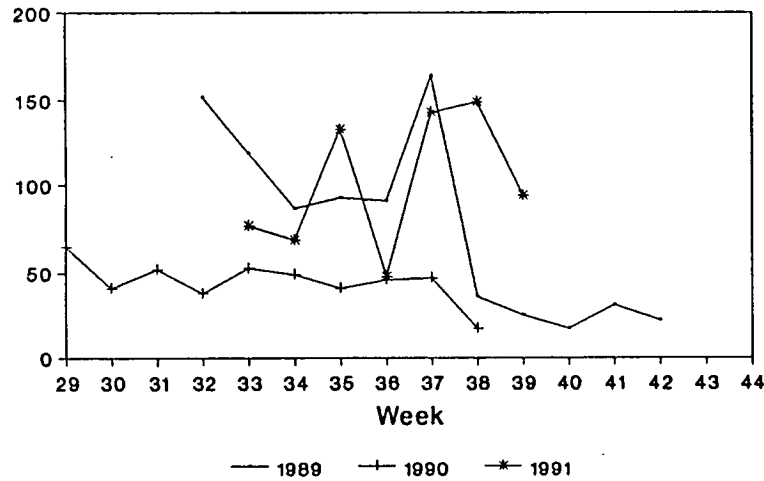
Figure 8. 3K aa: East of Cape St. Charles to the southern tip of Belle Isle.

3K ab



Gillnets

Trawl and Handline

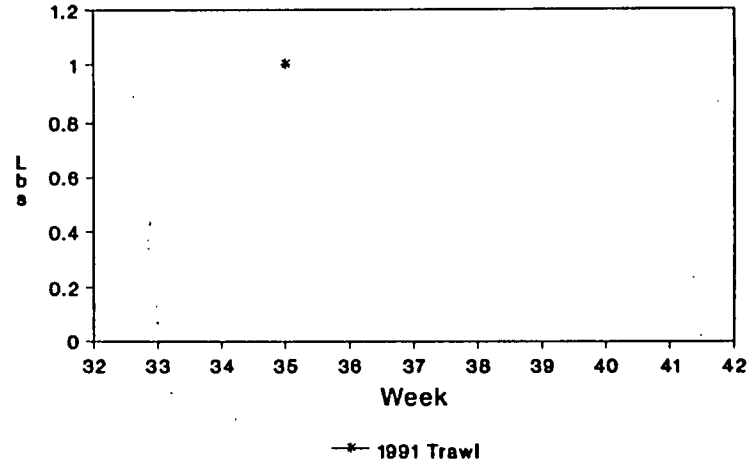
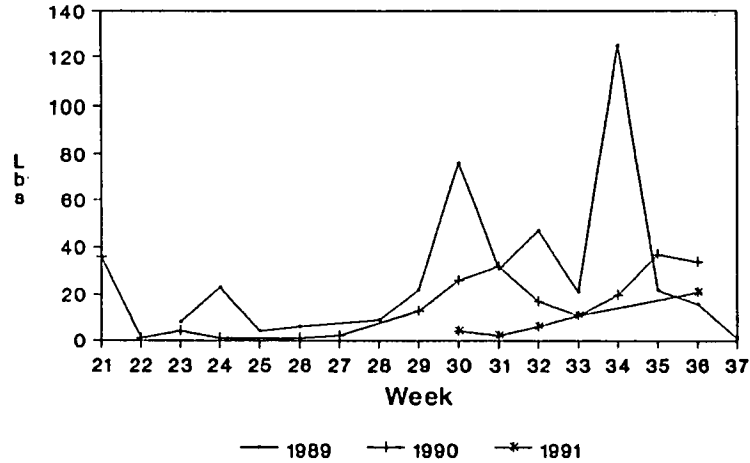


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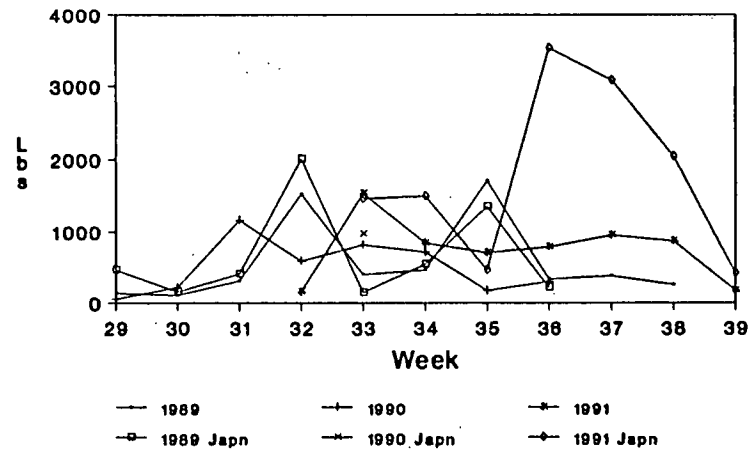
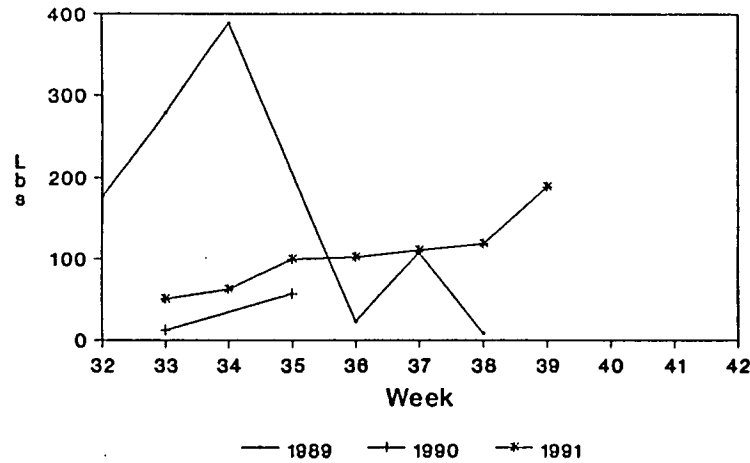
Figure 9. 3K ab: Southern tip of Belle Isle to St. Lunaire.

3K ac



Gillnets

Trawl and Handline

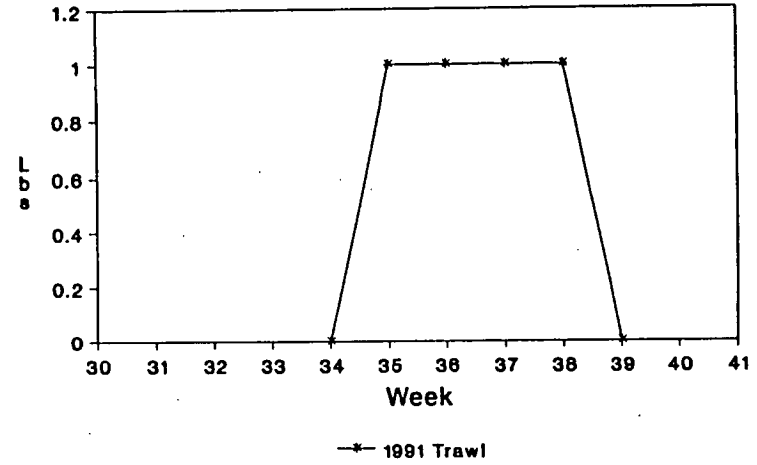
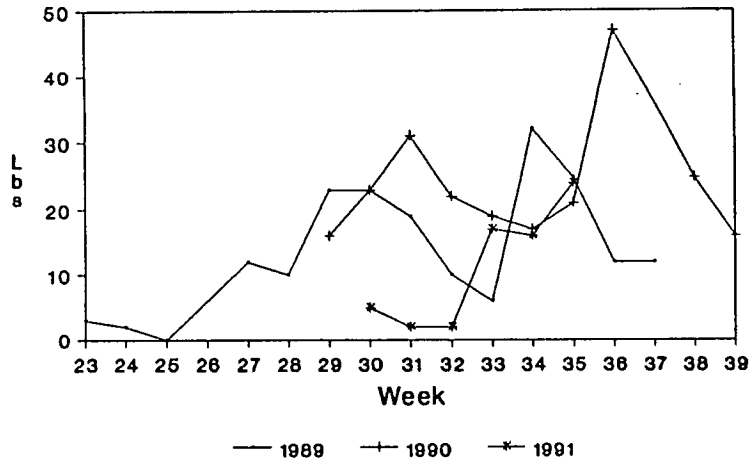


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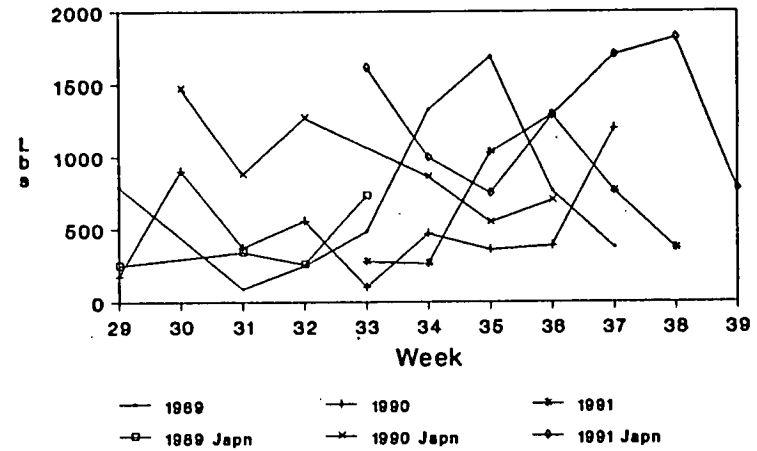
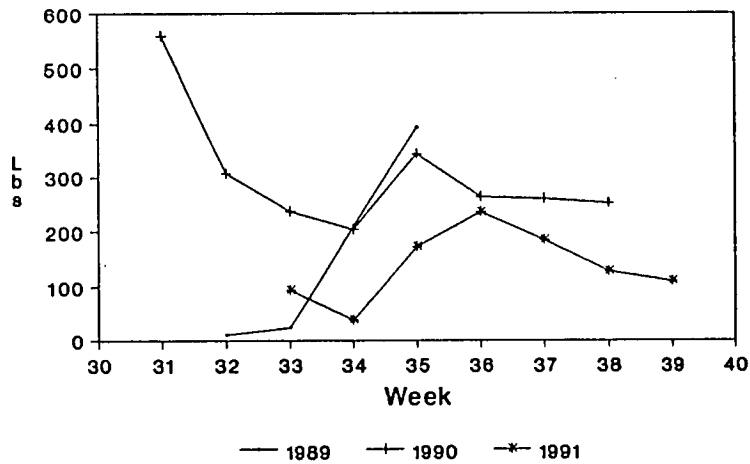
Figure 10. 3K ac: St. Lunaire to Lobster Point.

3K da



Gillnets

Trawl and Handline

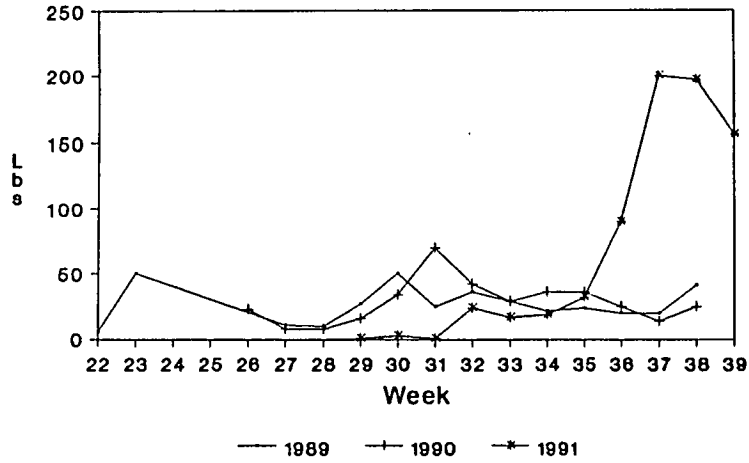


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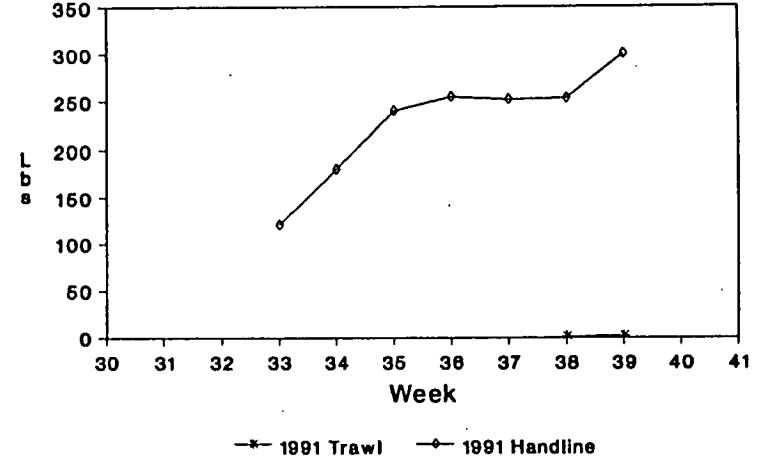
Traps

Figure 11. 3K da: Lobster Point to Fishot Islands (Hare Bay).

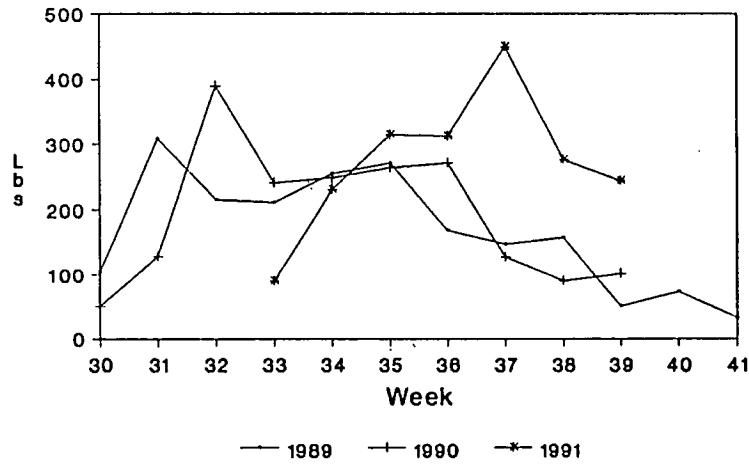
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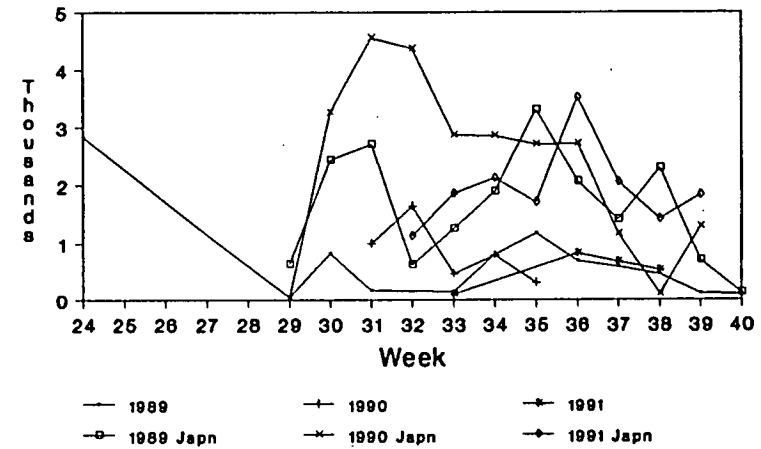
Gillnets



Trawl and Handline



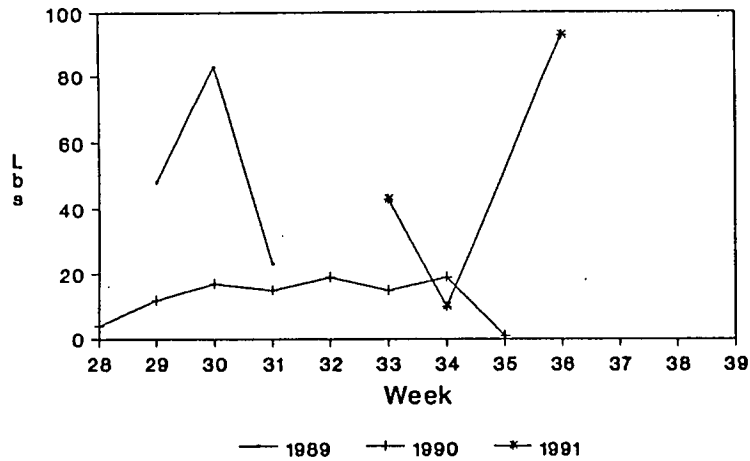
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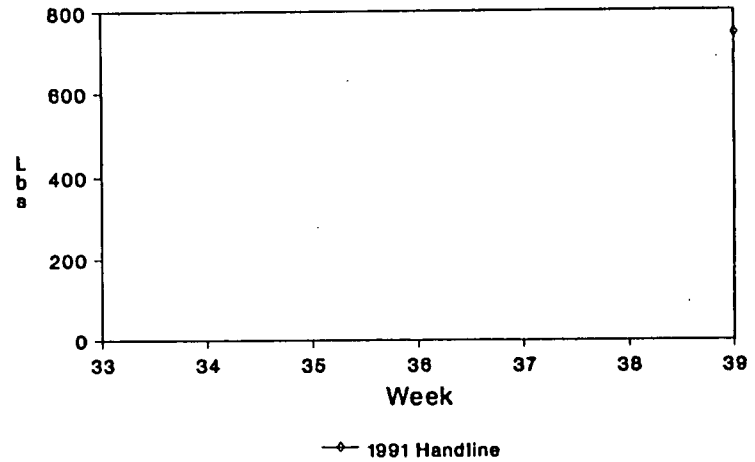
Traps

Figure 12. 3K db: Fishot Islands to Cape Fox.

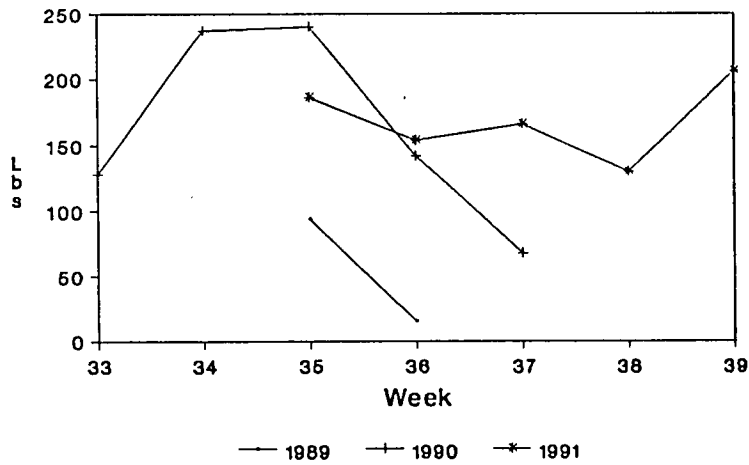
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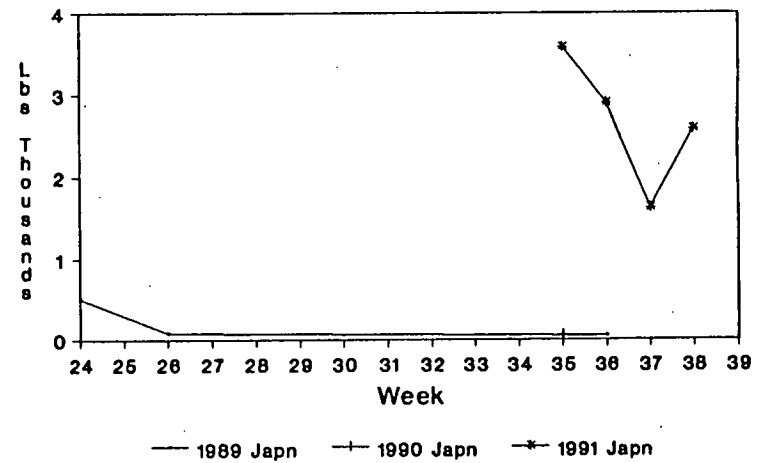
Gillnets



Trawl and Handline



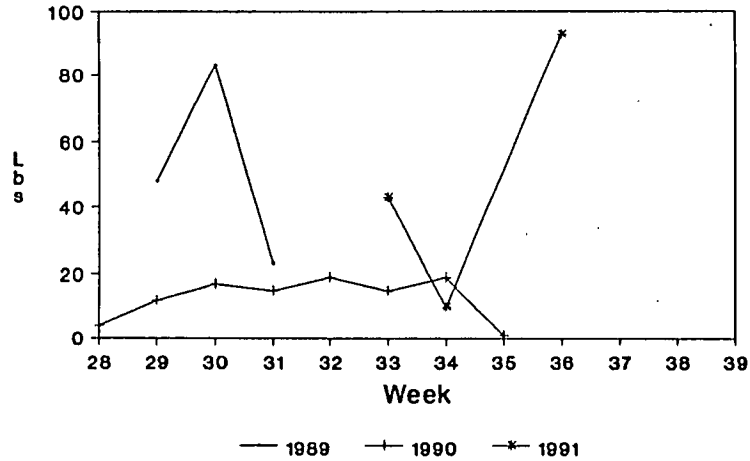
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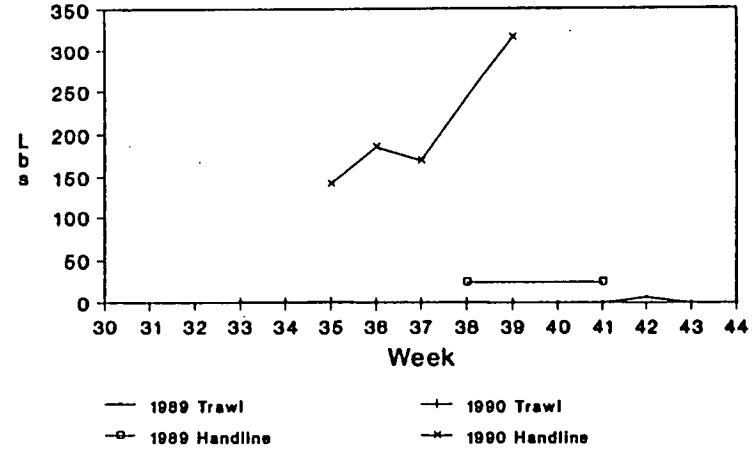
Traps

Figure 13. 3K dc: Cape Fox to Great Harbour Deep.

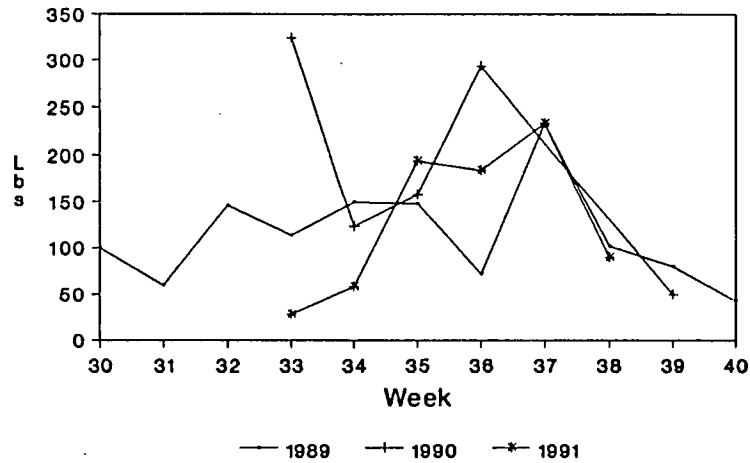
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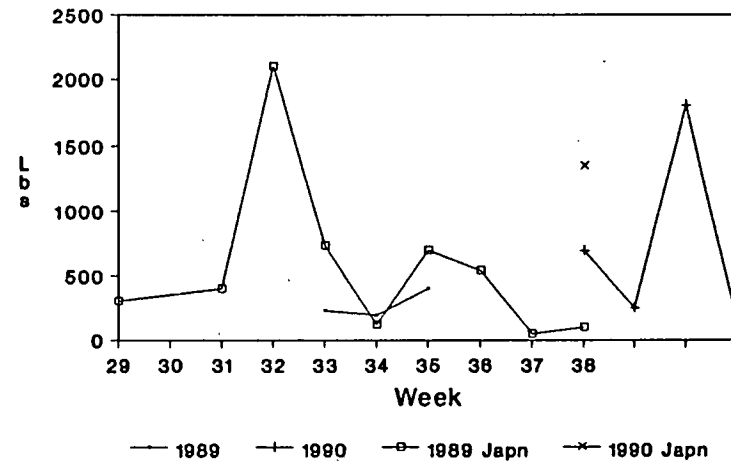
Gillnets



Trawl and Handline



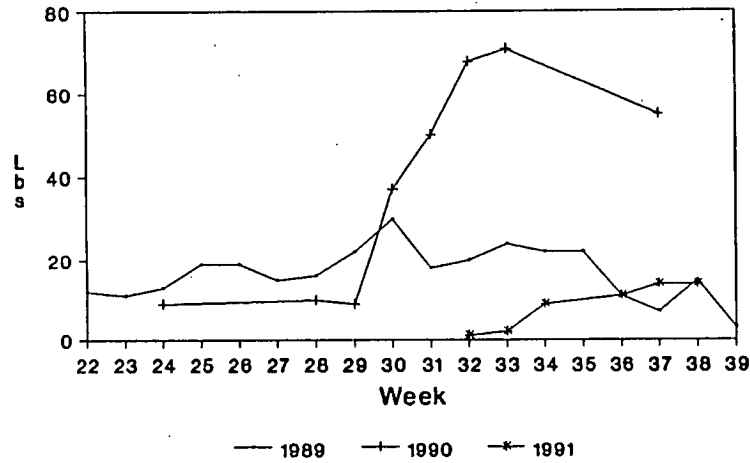
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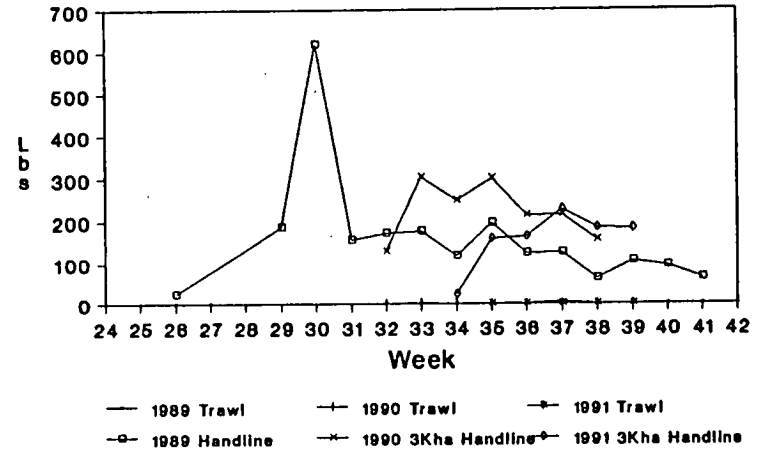
Traps

Figure 14. 3K dd: Great Harbour Deep to Partridge Point.

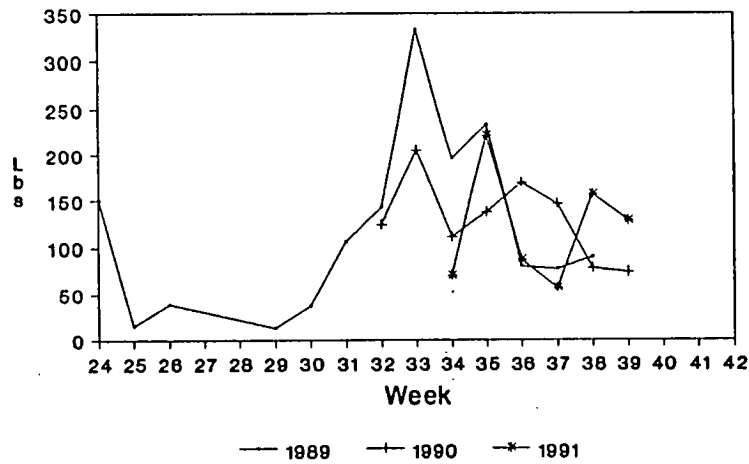
3K ha



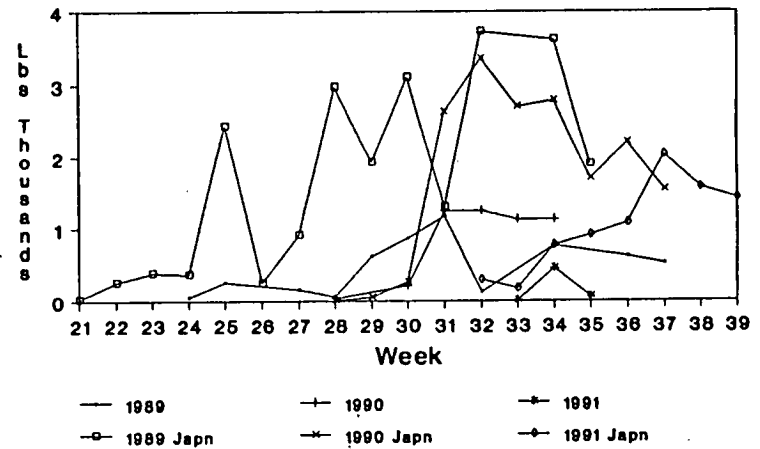
Gillnets



Trawl and Handline



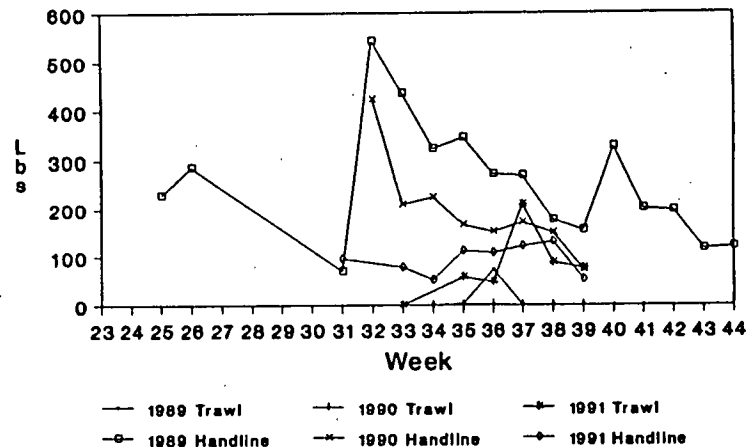
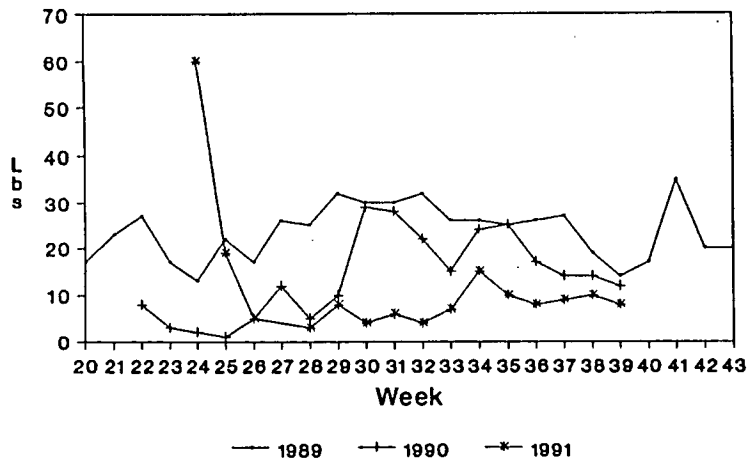
Jigger



Traps

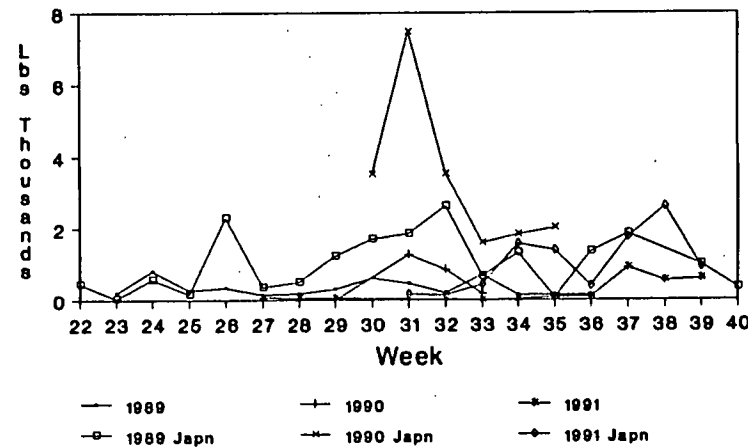
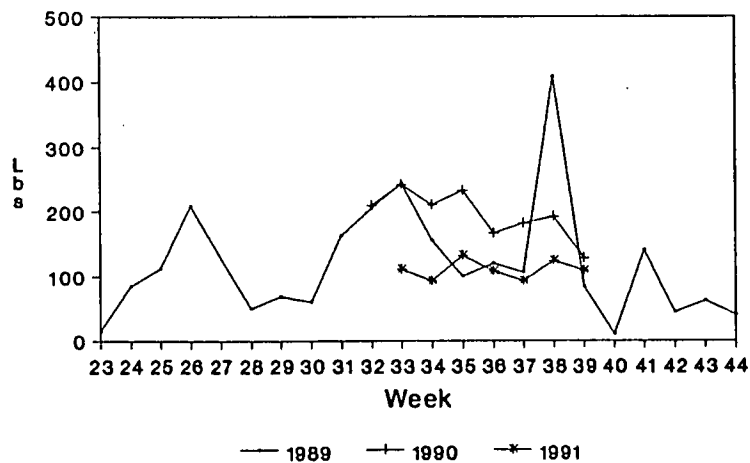
Figure 15. 3K ha: Partridge Point to Cape St. John.

3K hb



Gillnets

Trawl and Handline

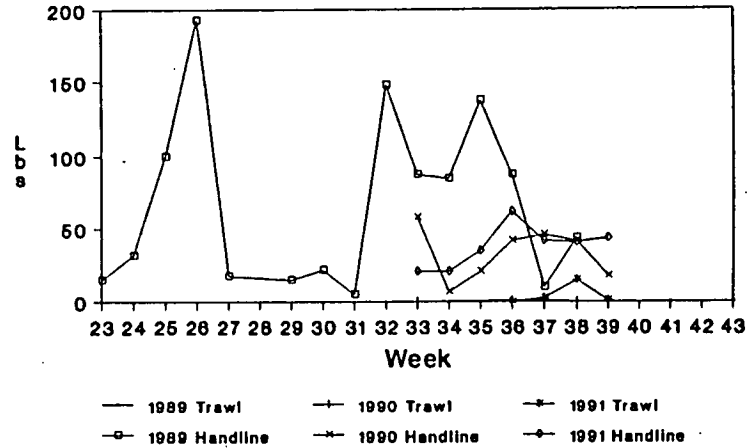
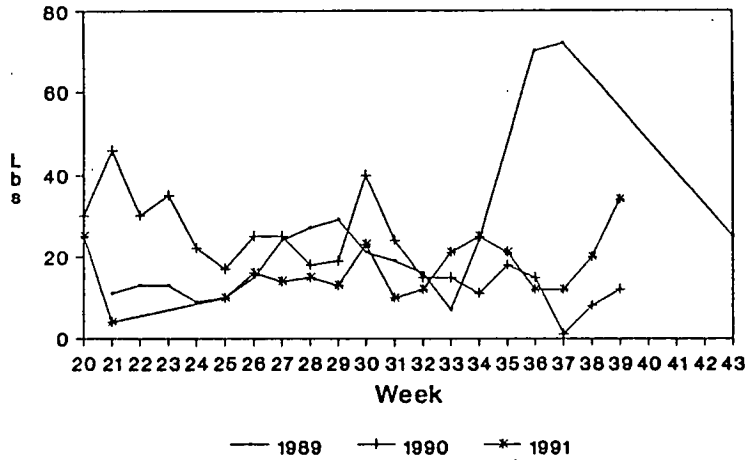


Jigger

Traps

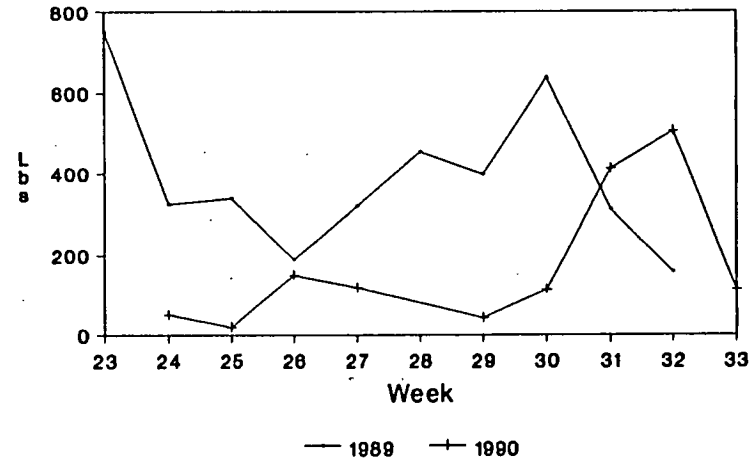
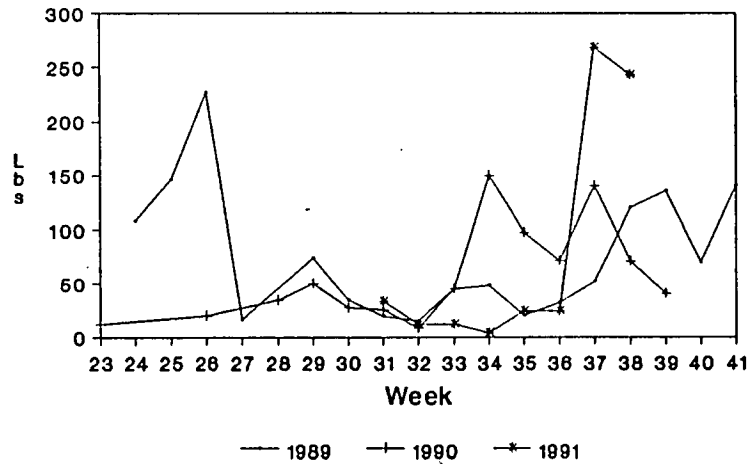
Figure 16. 3K hb: Cape St. John to Southern Head, Notre Dame Bay.

3K hc



Gillnets

Trawl and Handline

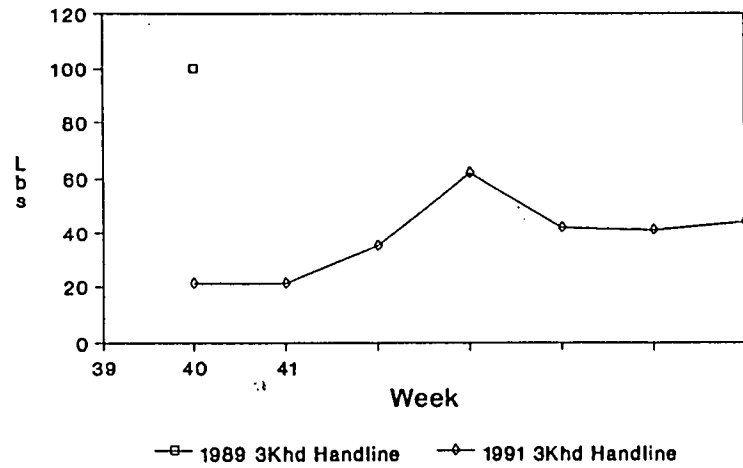


Jigger

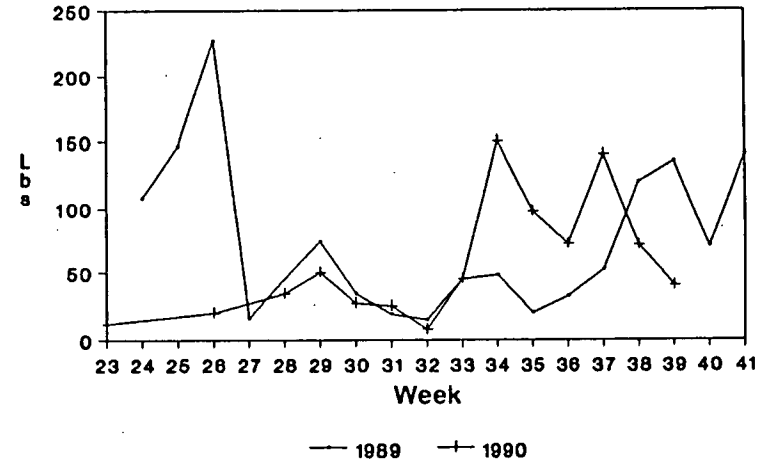
Traps

Figure 17. 3K hc: Southern Head to New Bay Head, Notre Dame Bay.

3K hd



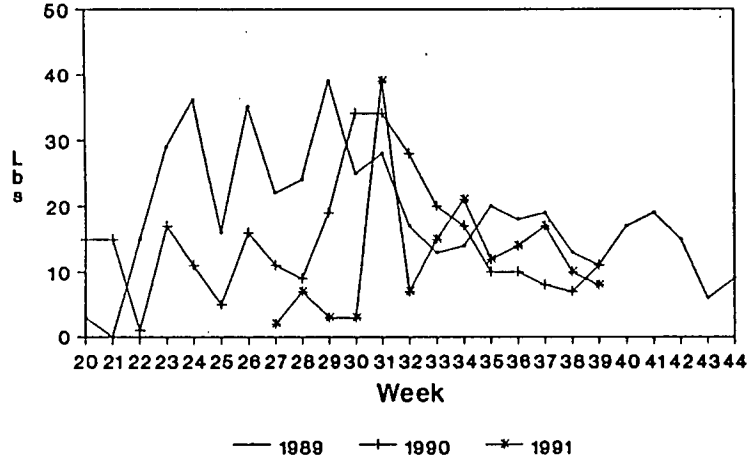
Trawl and Handline



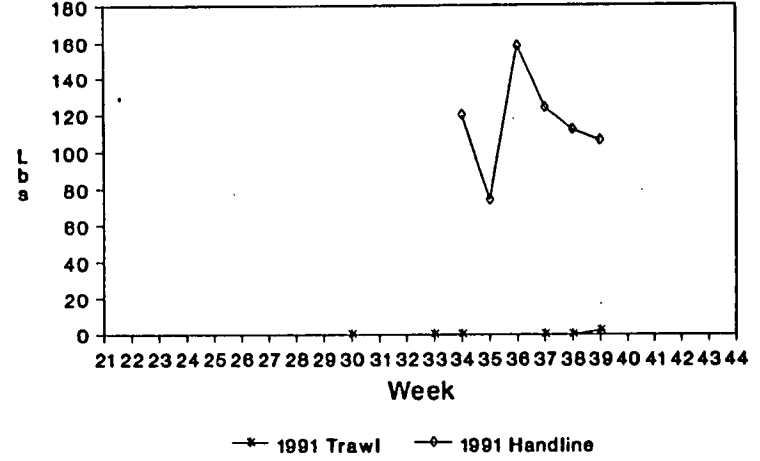
Jigger

Figure 18. 3K hd: Offshore Cape St. John, Notre Dame Bay.

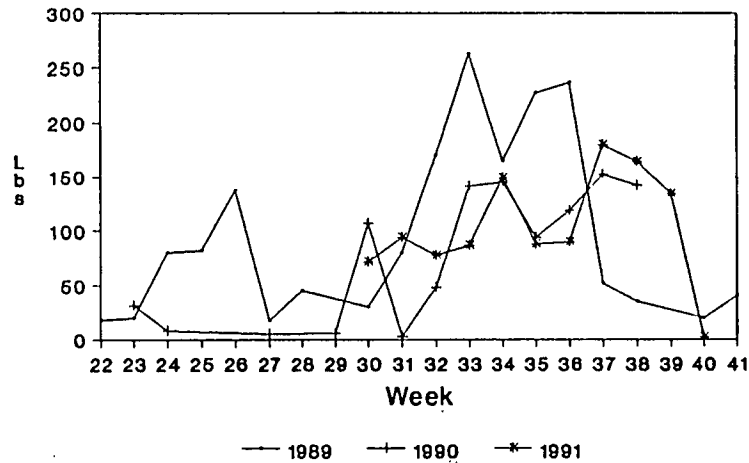
3K ia



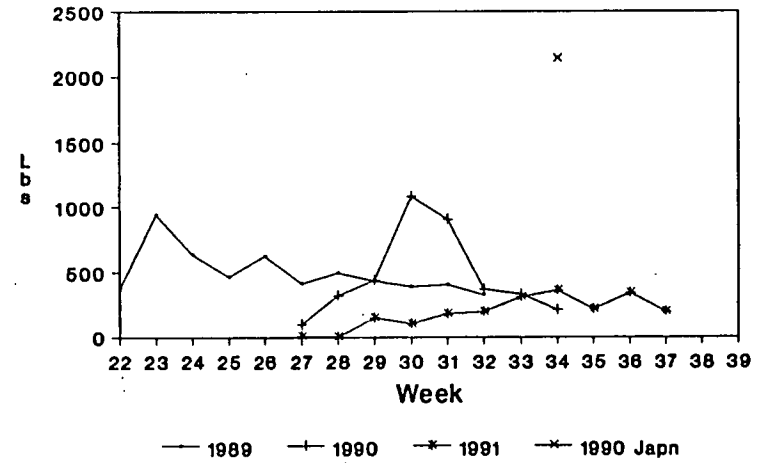
Gillnets



Trawl and Handline



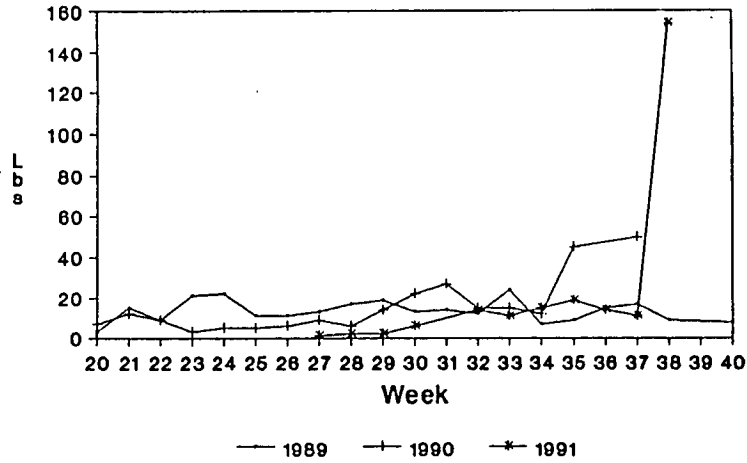
Jigger



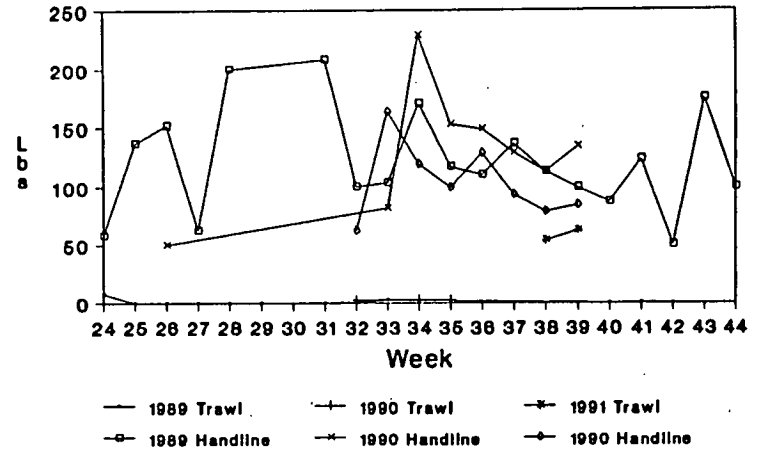
Traps

Figure 19. 3K ia: New Bay Head to Long Point, Notre Dame Bay.

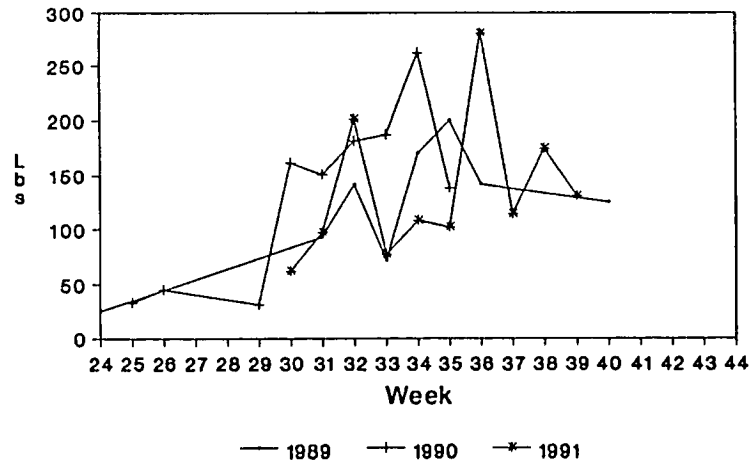
3K ib



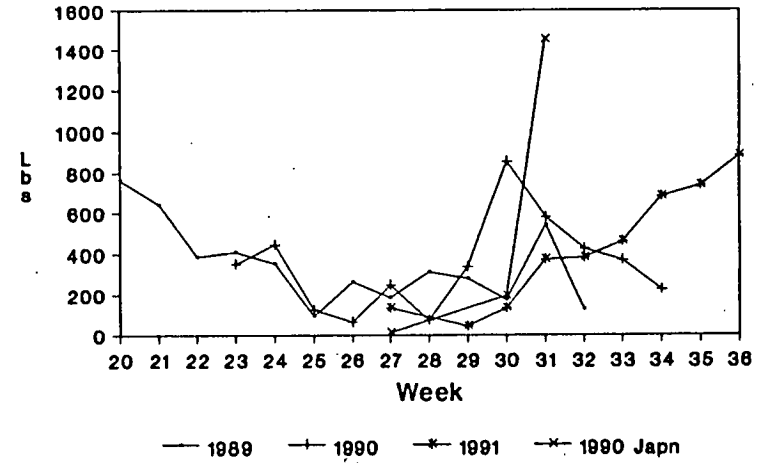
Gillnets



Trawl and Handline



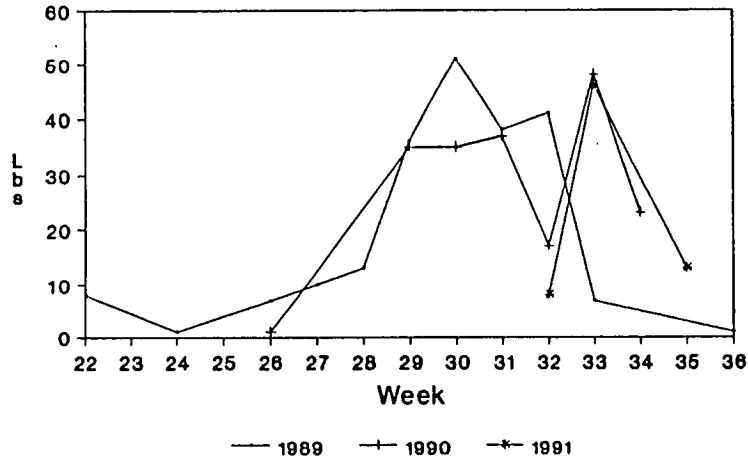
Jigger



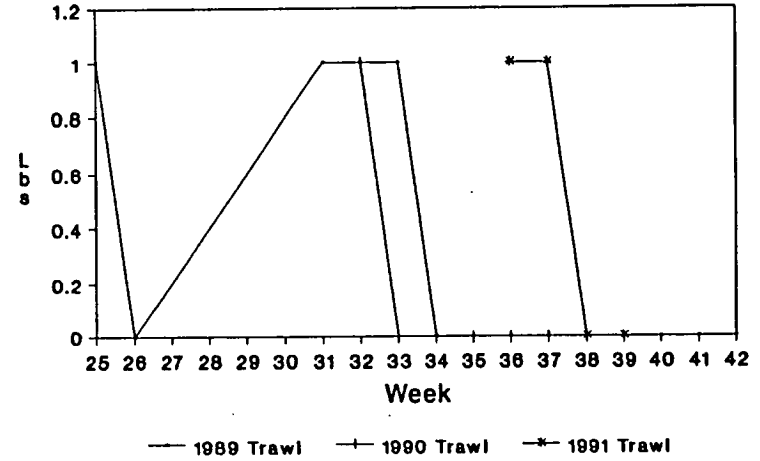
Traps

Figure 20. 3K ib: Long Point to Fogo Head (northern border) and Farewell Head to Rogers Point, Fogo Island (southern border).

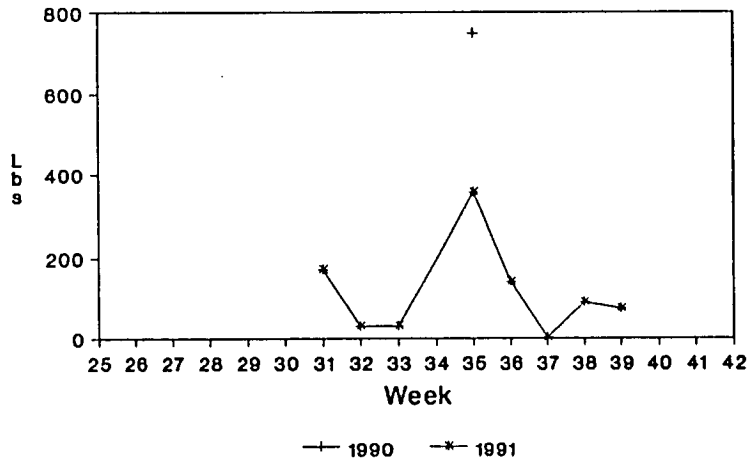
3K ic



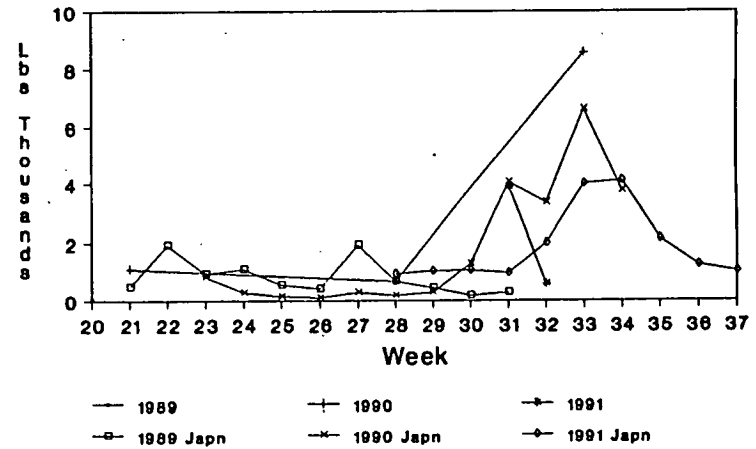
Gillnets



Trawl and Handline



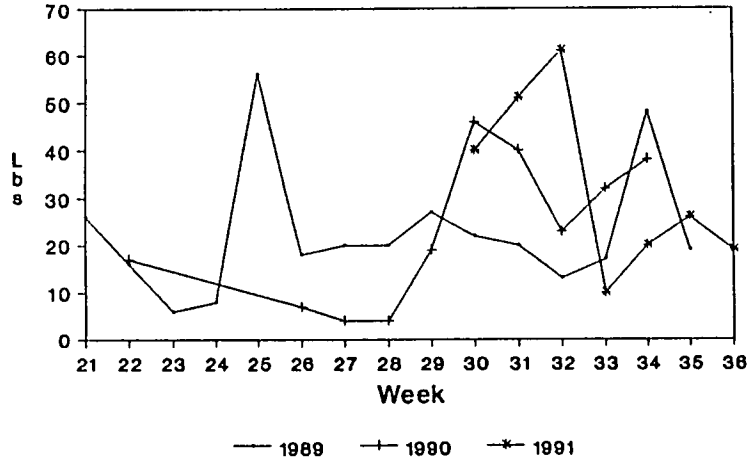
Jigger



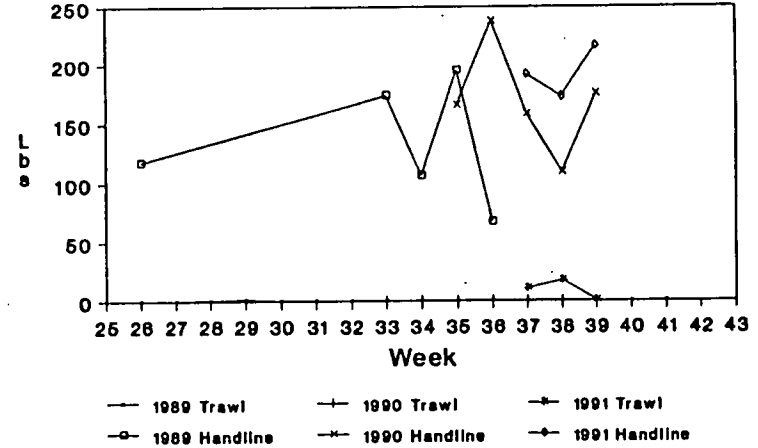
Traps

Figure 21. 3K ic: Rogers Point to Cape Fogo including Hamilton Sound.

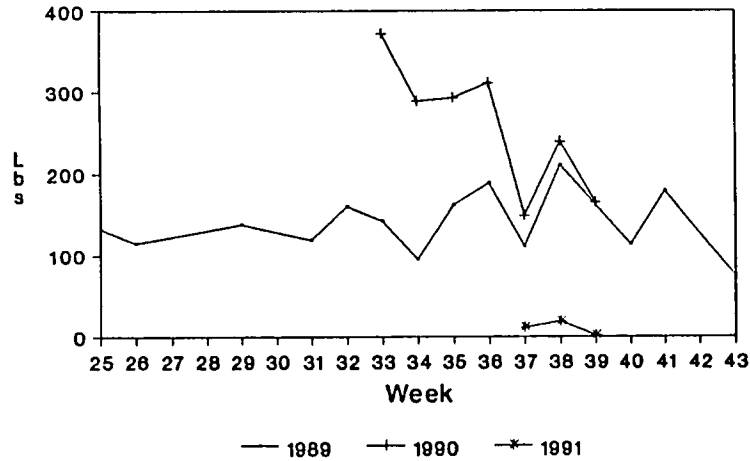
3K id



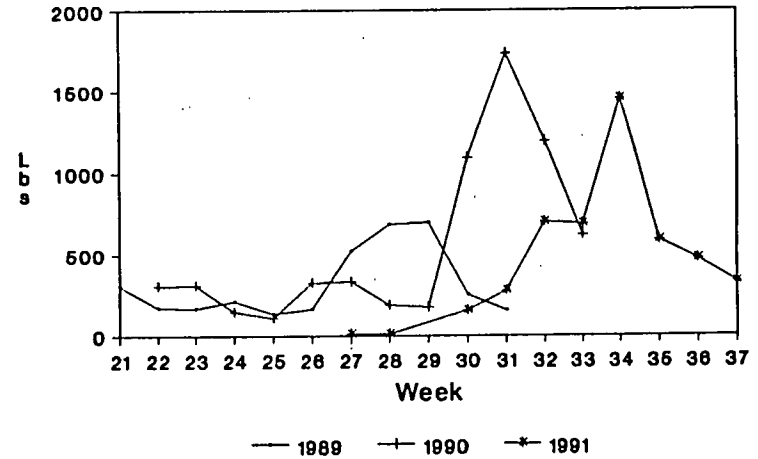
Gillnets



Trawl and Handline



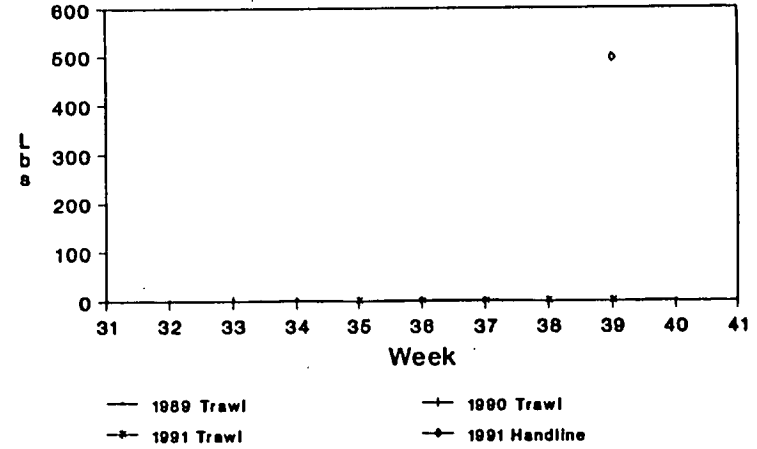
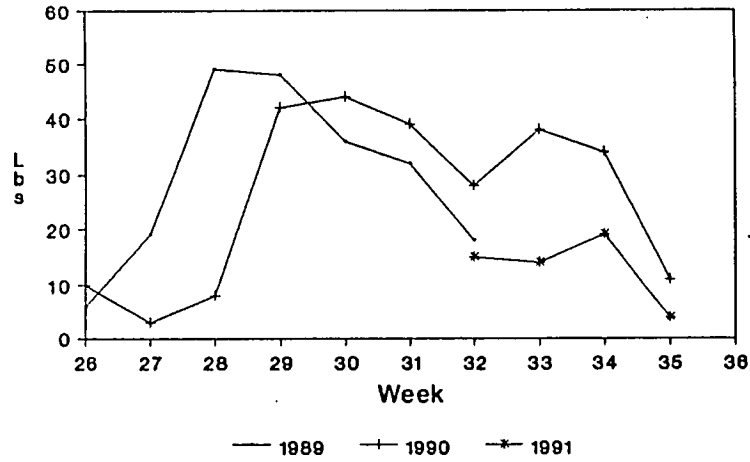
Jigger



Traps

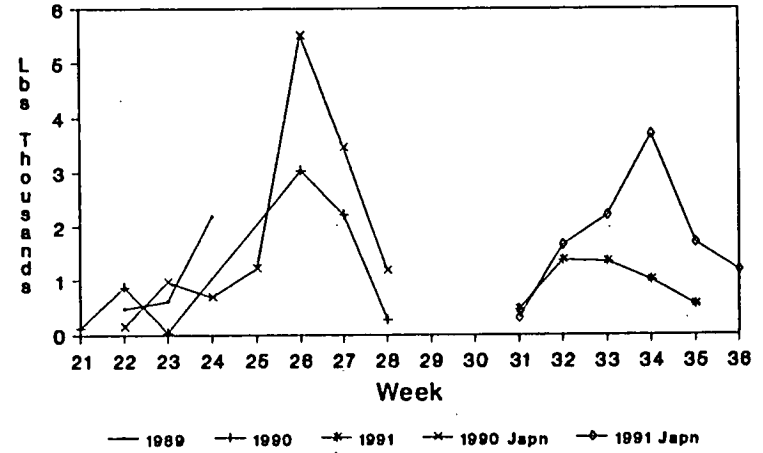
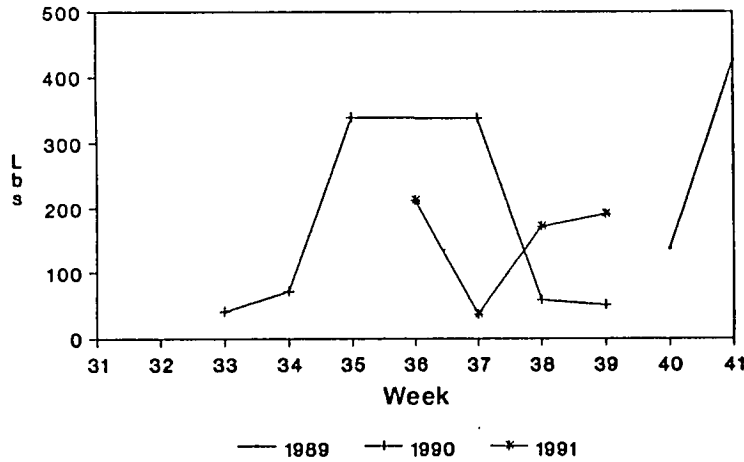
Figure 22. 3K id: Fogo Head to Round Head, Fogo Island.

3K ie



Gillnets

Trawl and Handline

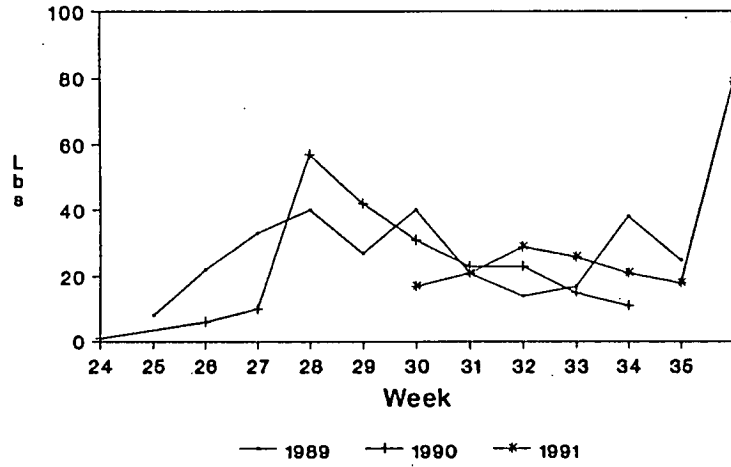


Jigger

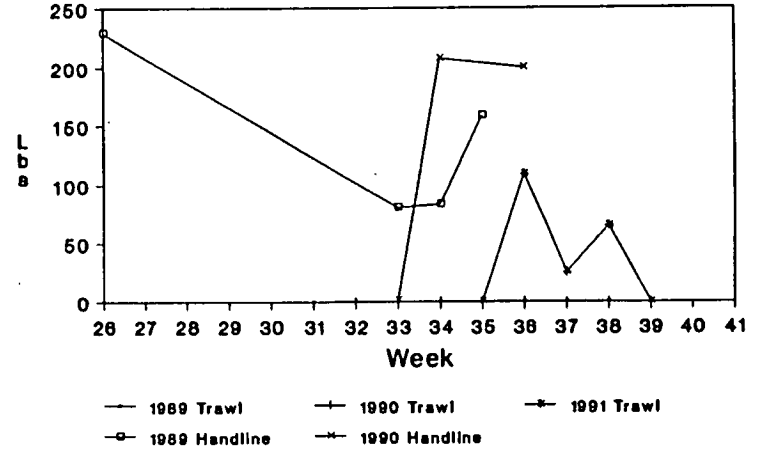
Traps

Figure 23. 3K ie: Round Head to Cape Fogo, Fogo Island.

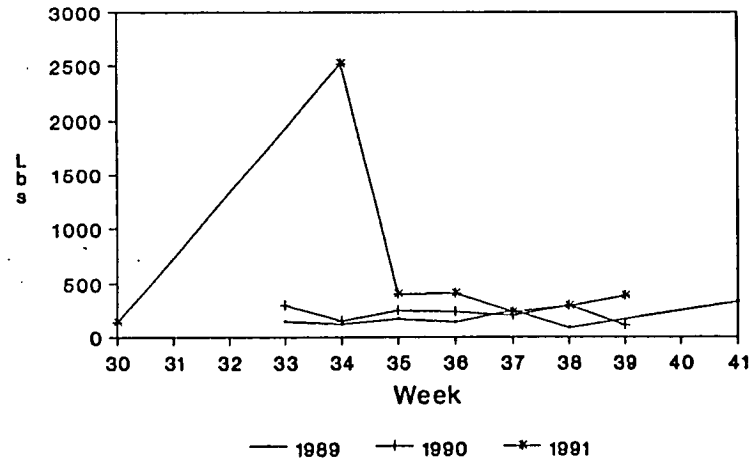
3K if



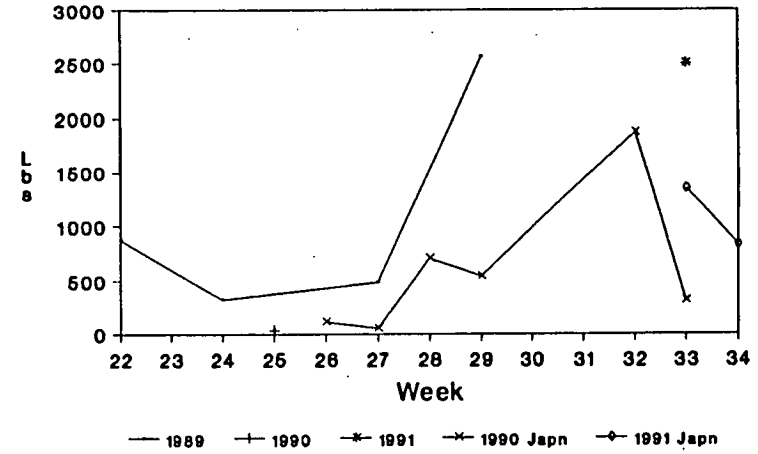
Gillnets



Trawl and Handline



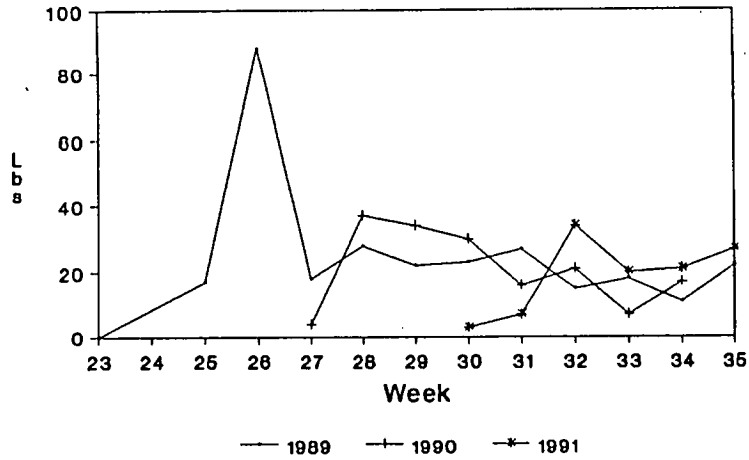
Jigger



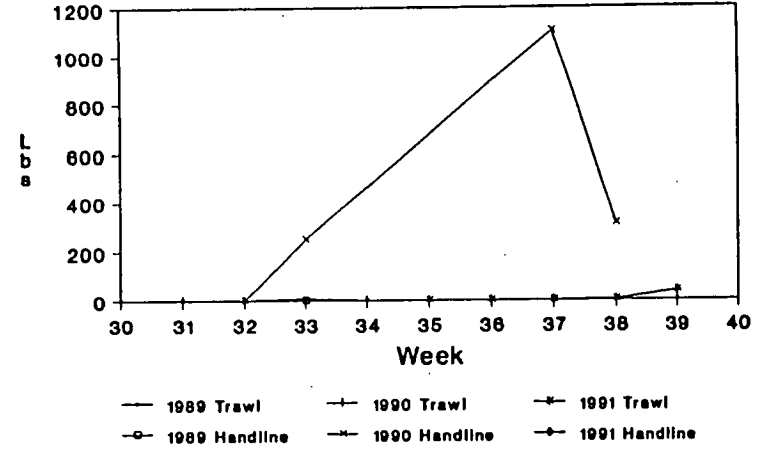
Traps

Figure 24. 3K if: Ladle Point to Shalloway Brook including Wadham Islands.

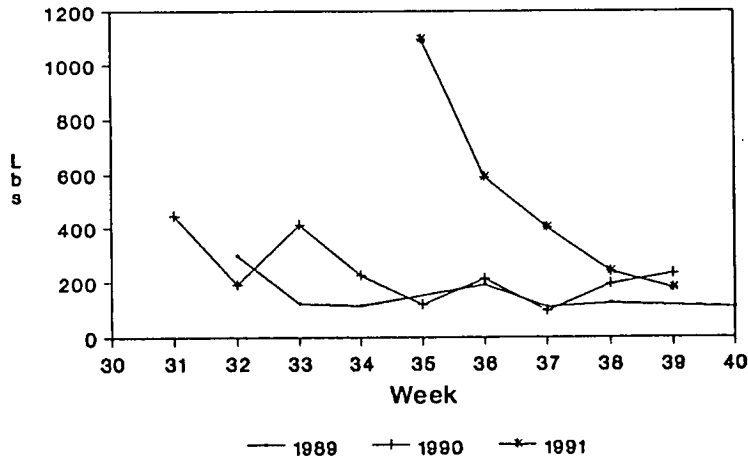
3K ig



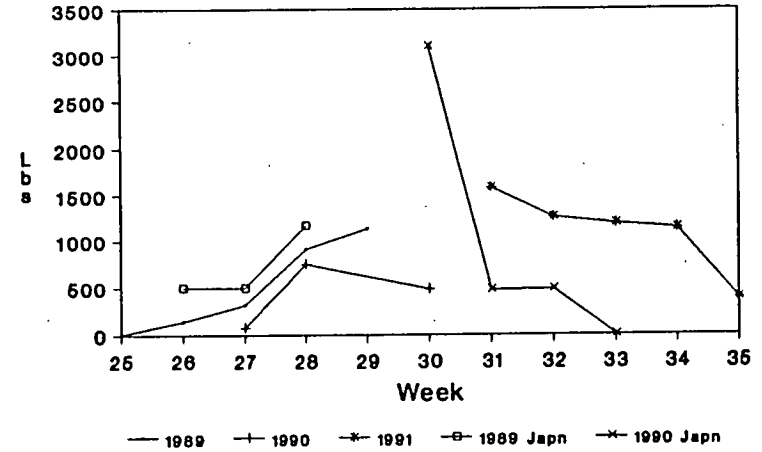
Gillnets



Trawl and Handline



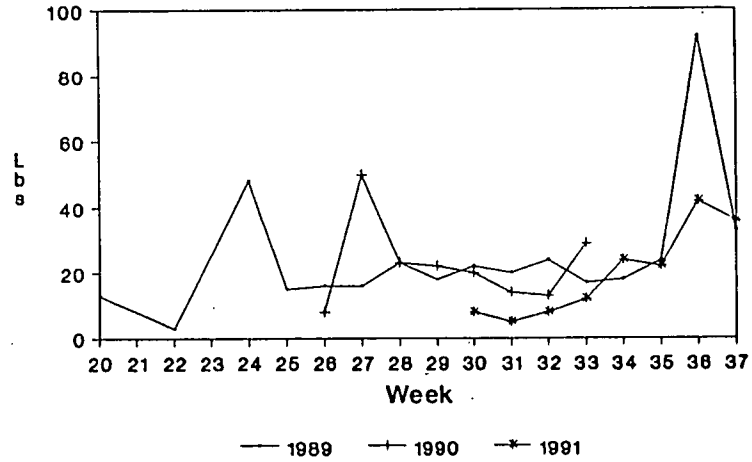
Jigger



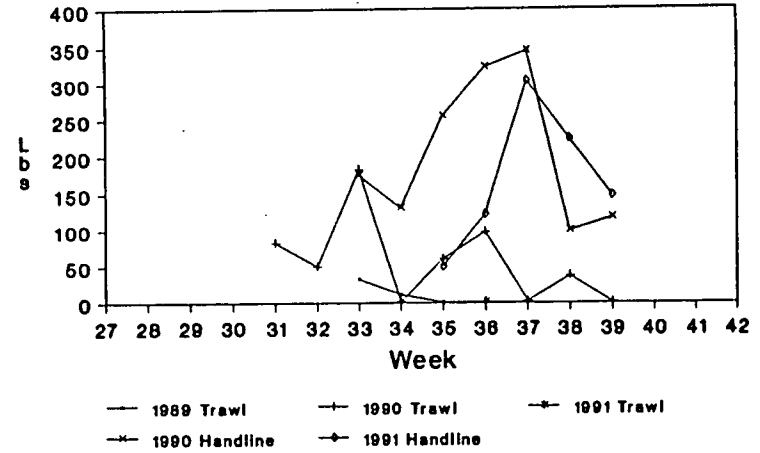
Traps

Figure 25. 3K ig: Shalloway Brook to Cape Freels.

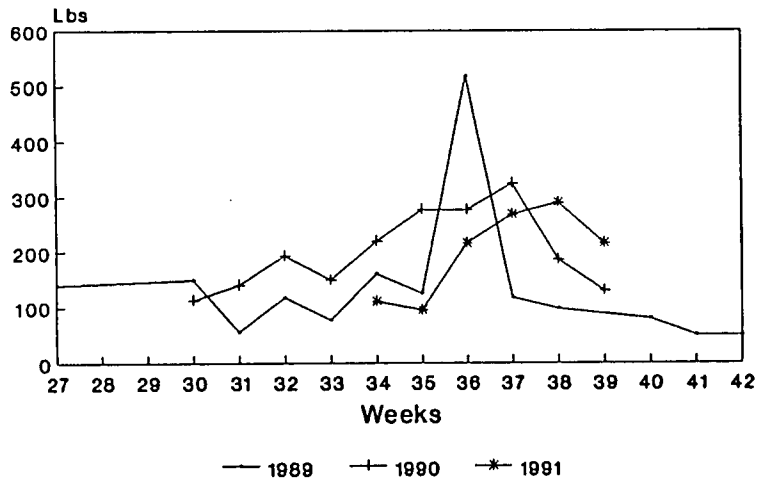
3L aa



Gillnets



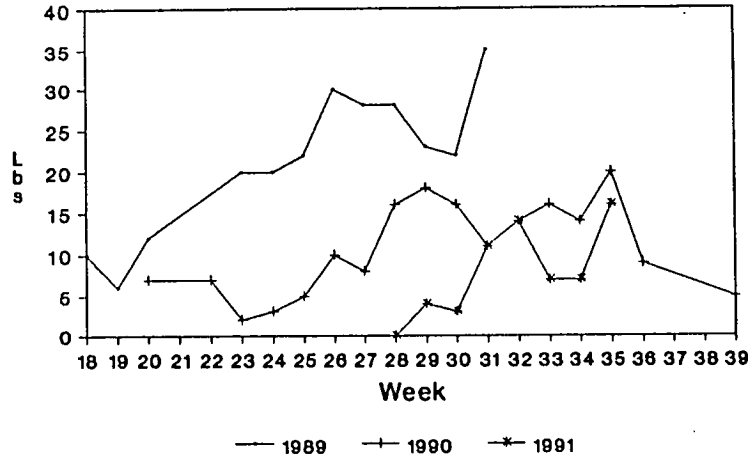
Trawl and Handline



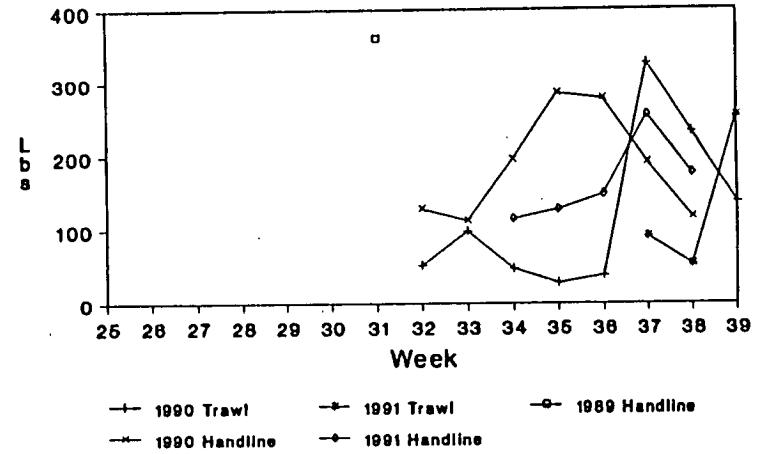
Jigger

Figure 26. 3L aa: Cape Freels to Pools Island/Greenspond, Bonavista Bay.

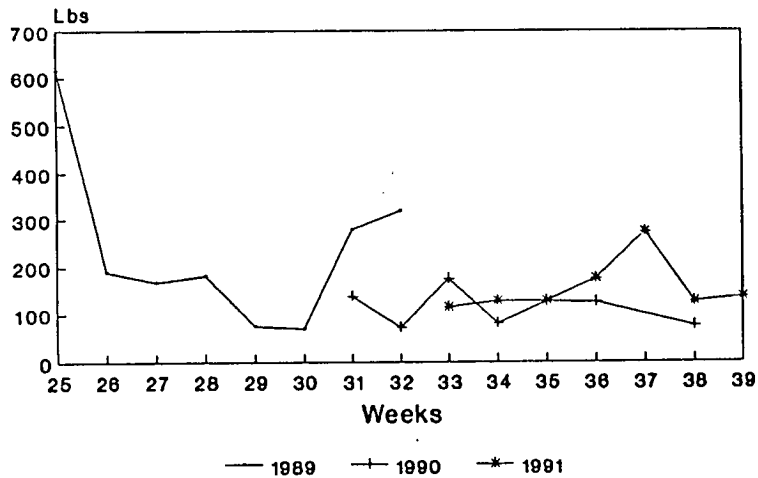
3L ab



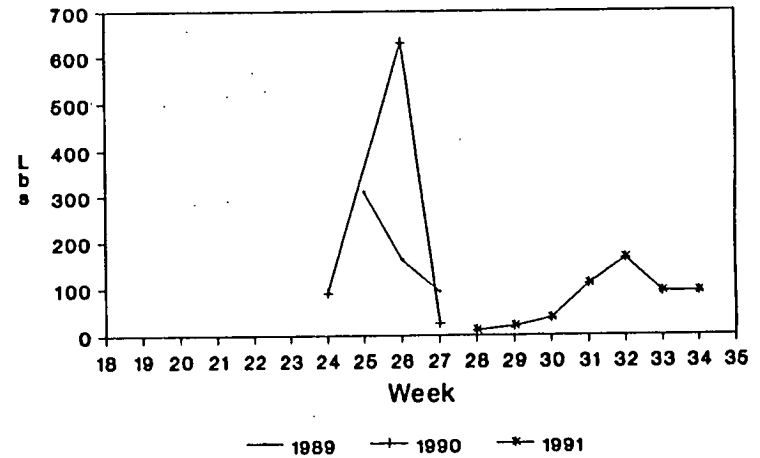
Gillnets



Trawl and Handline



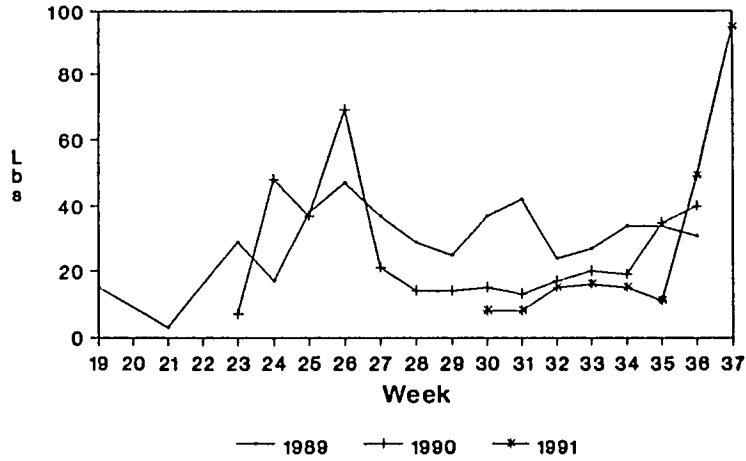
Jigger



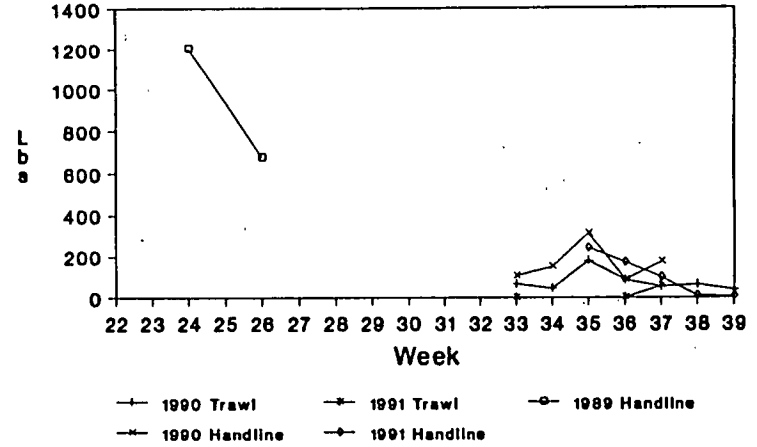
Traps

Figure 27. 3L ab: Pools Island/Greenspond to Shoe Point, Bonavista Bay.

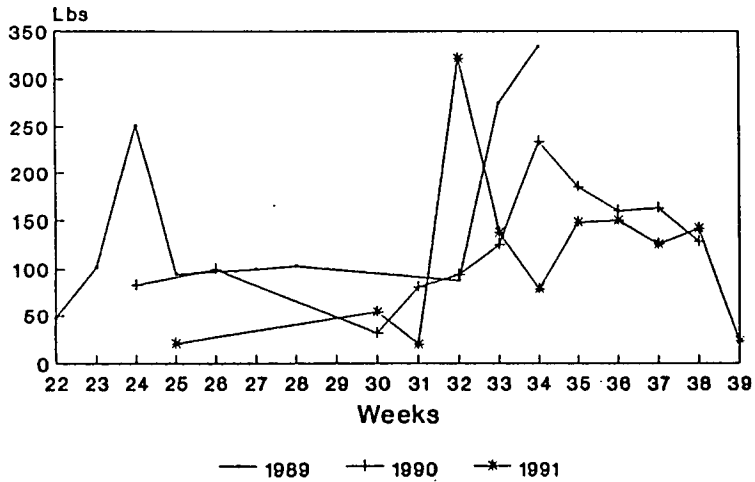
3L ac



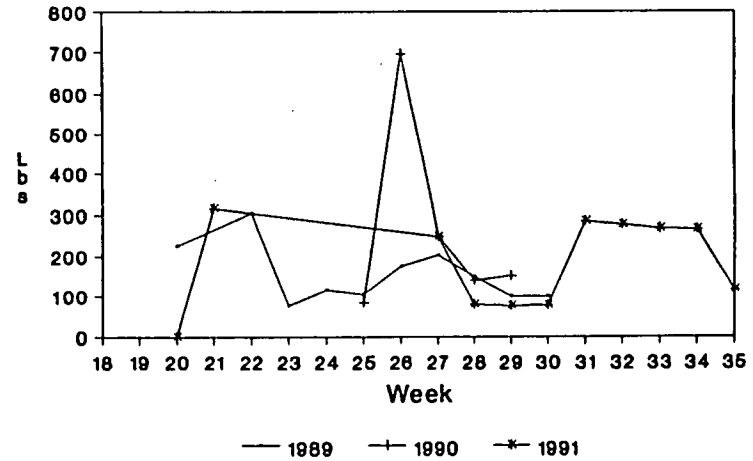
Gillnets



Trawl and Handline



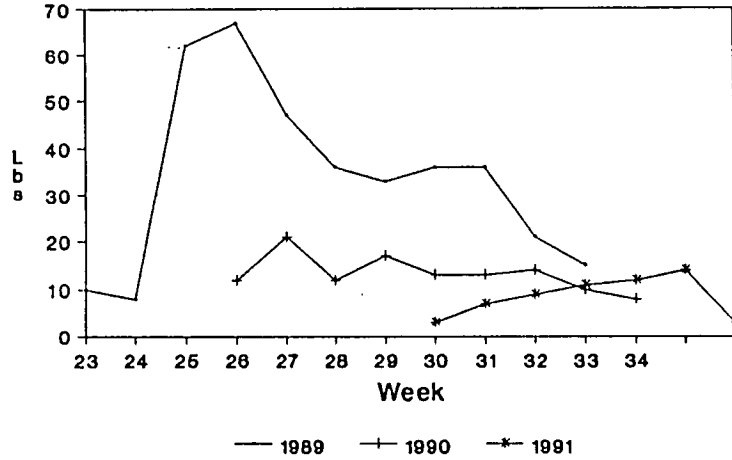
Jigger



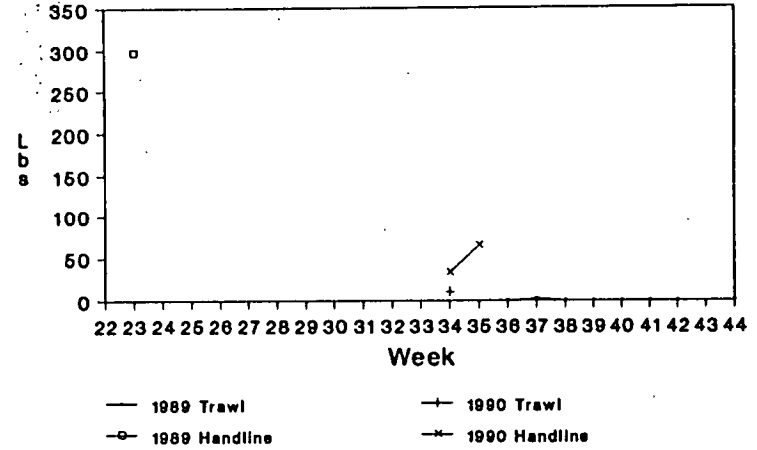
Traps

Figure 28. 3L ac: Shoe Point to Pincher's Island, Bonavista Bay.

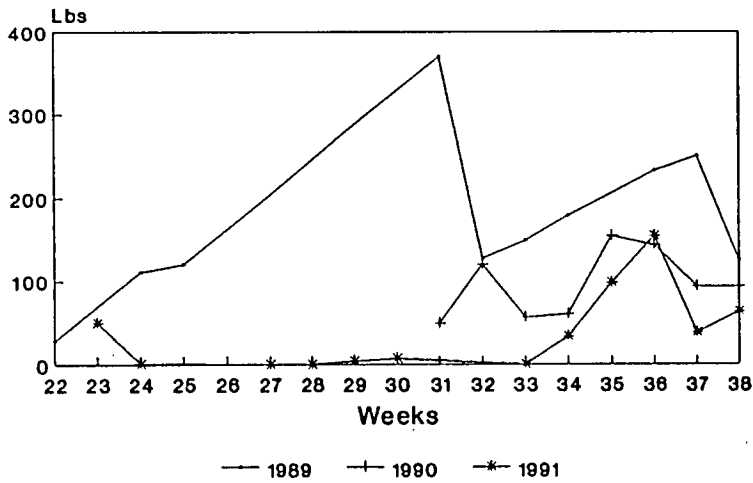
3L ad



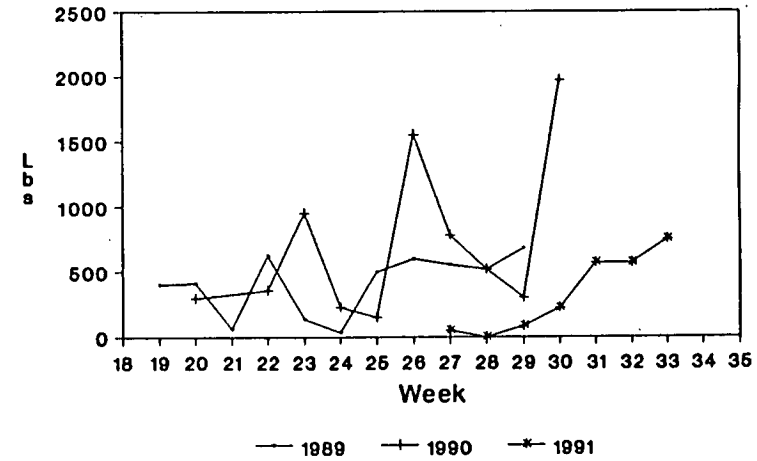
Gillnets



Trawl and Handline



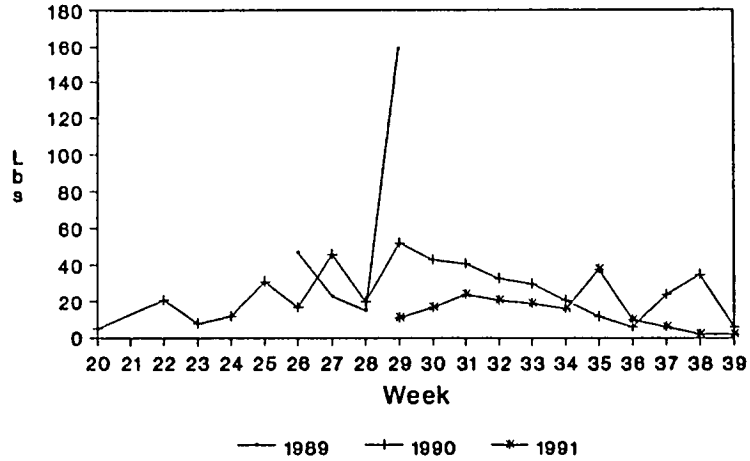
Jigger



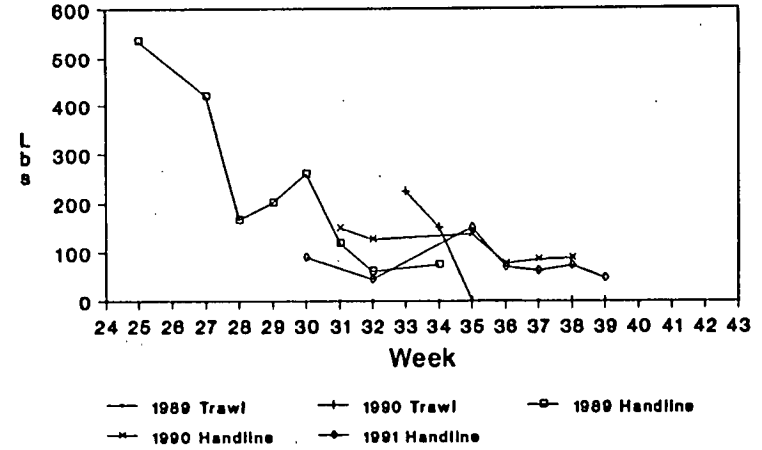
Traps

Figure 29. 3L ad: Pincher's Island to Bloody Reach, Bonavista Bay.

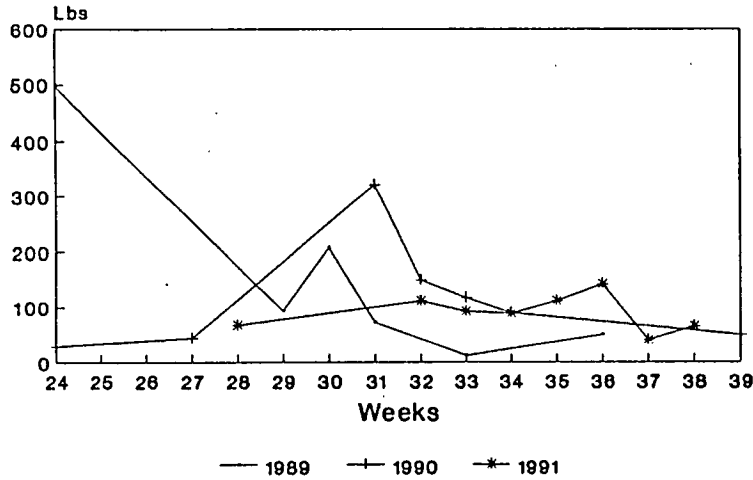
3L ae



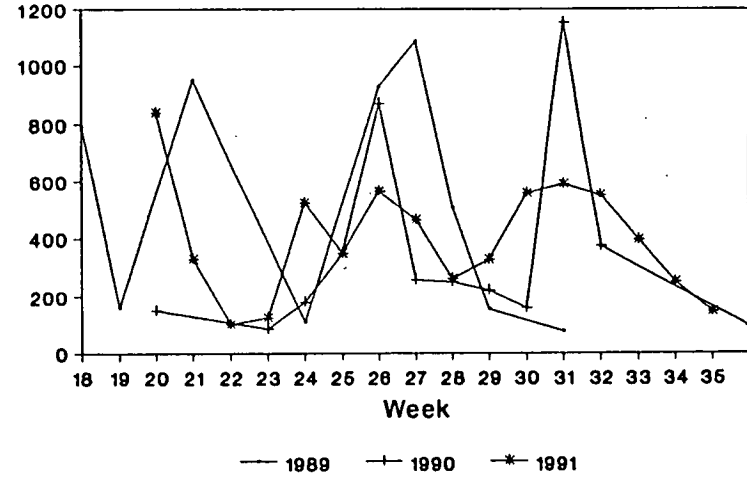
Gillnets



Trawl and Handline



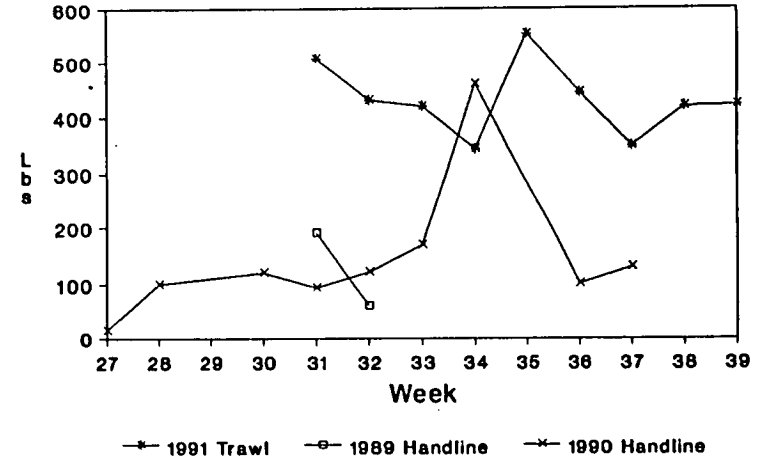
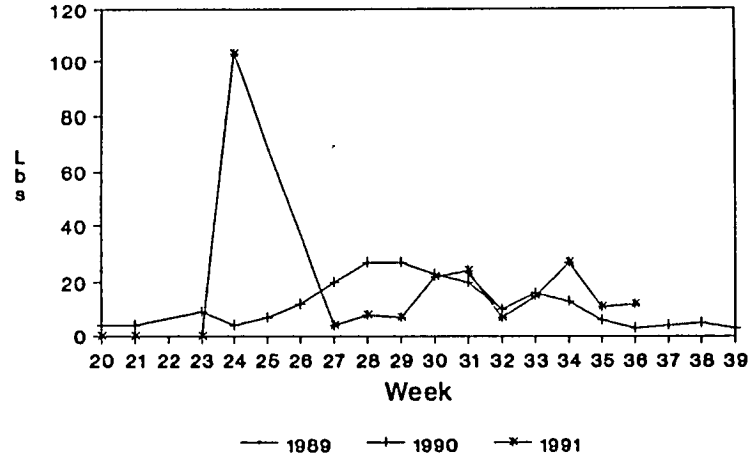
Jigger



Trap

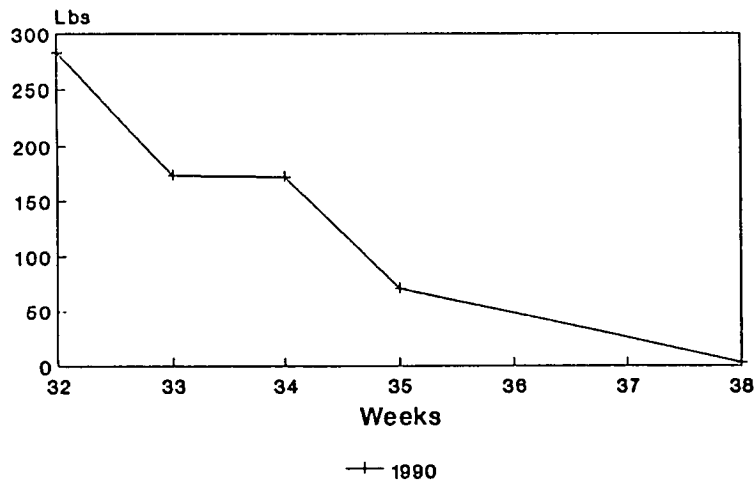
Figure 30. 3L ae: Bloody Reach to Southern Head, Bonavista Bay.

3L af

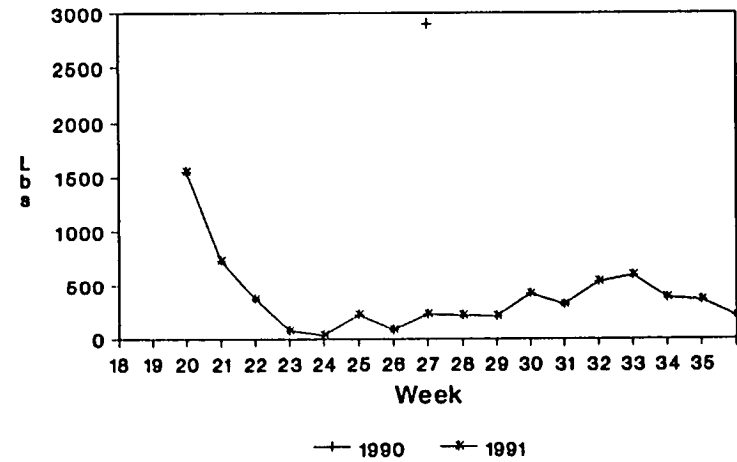


Gillnets

Trawl and Handline



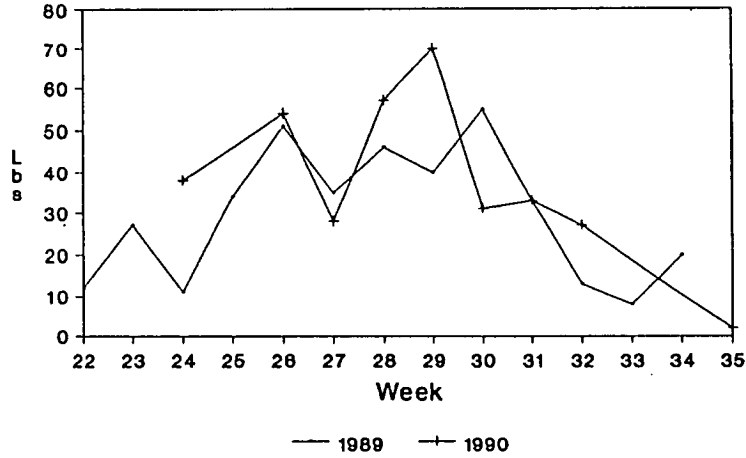
Jigger



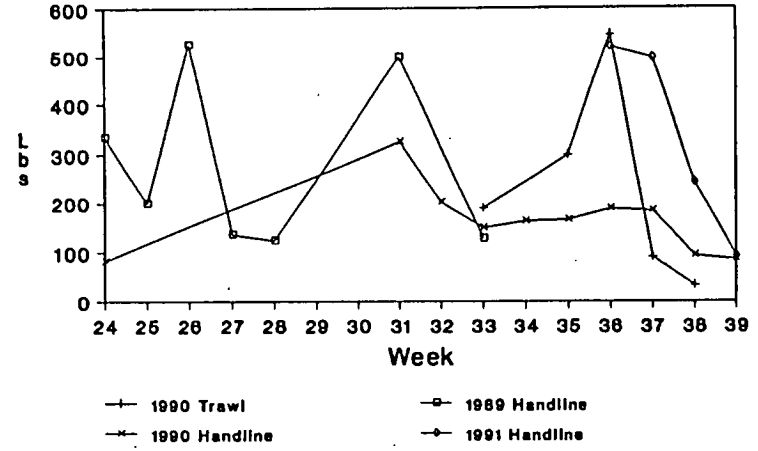
Traps

Figure 31. 3L af: Southern Head to Chance Head, Bonavista Bay.

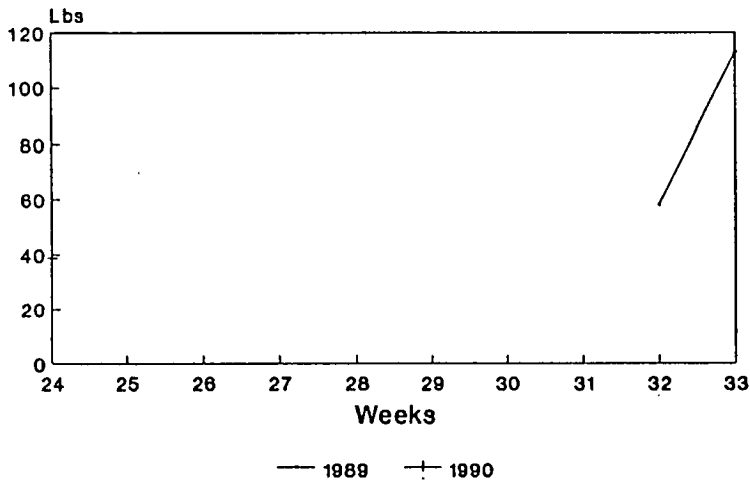
3L ag



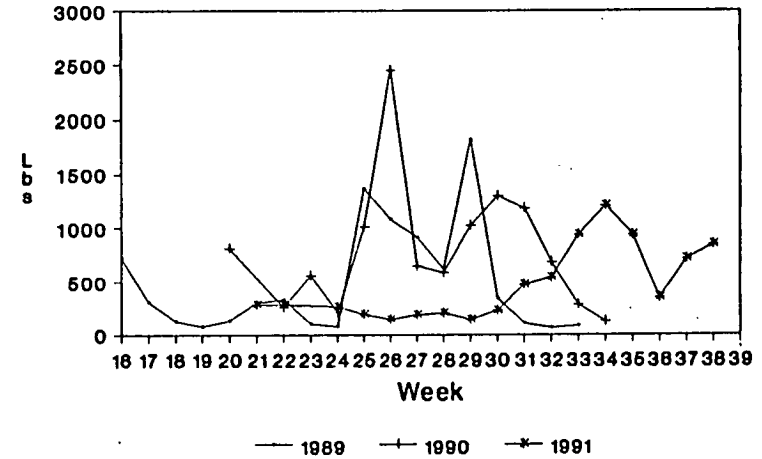
Gillnets



Trawl and Handline



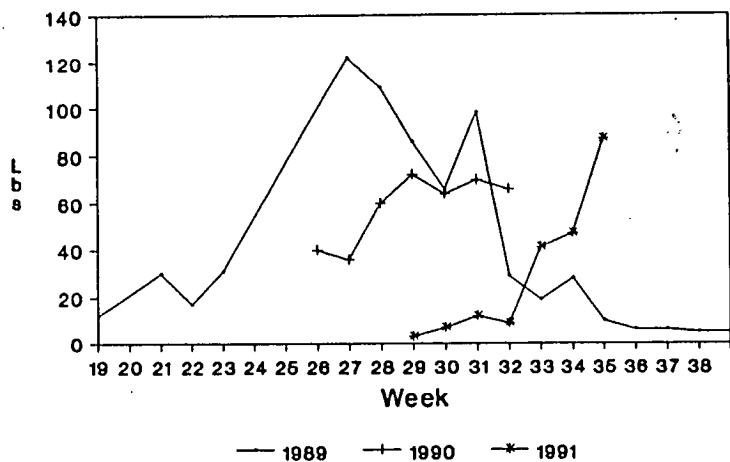
Jigger



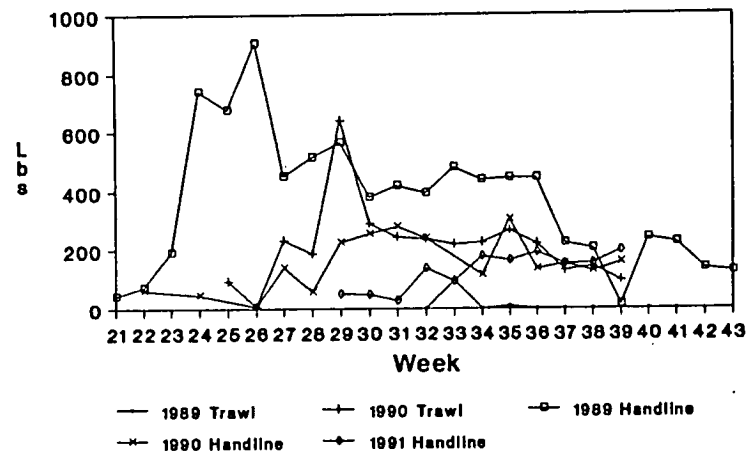
Traps

Figure 32. 3L ag: Chance Head to Knight's Point, Bonavista Bay.

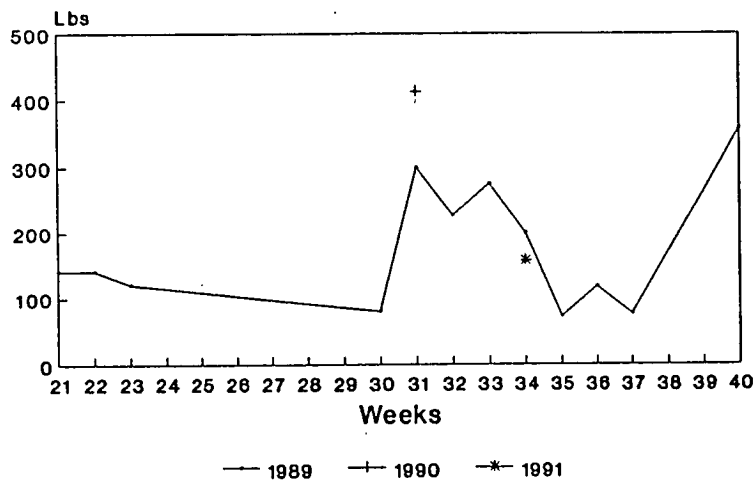
3L ah



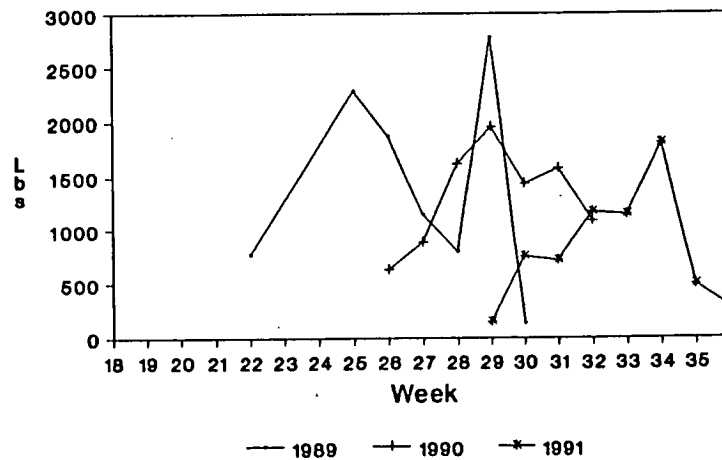
Gillnets



Trawl and Handline



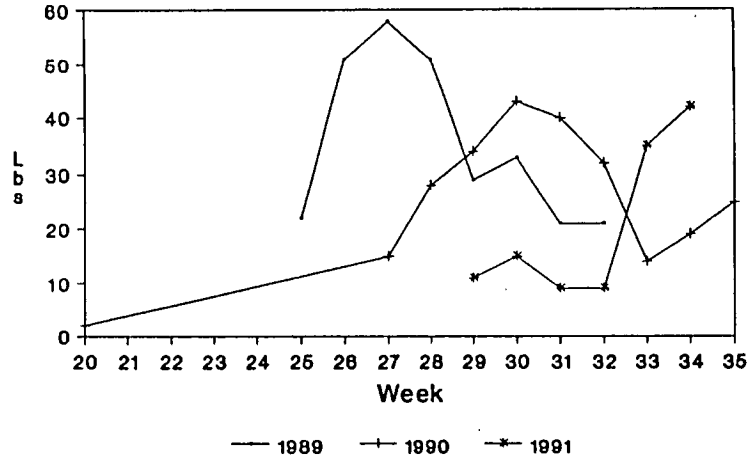
Jigger



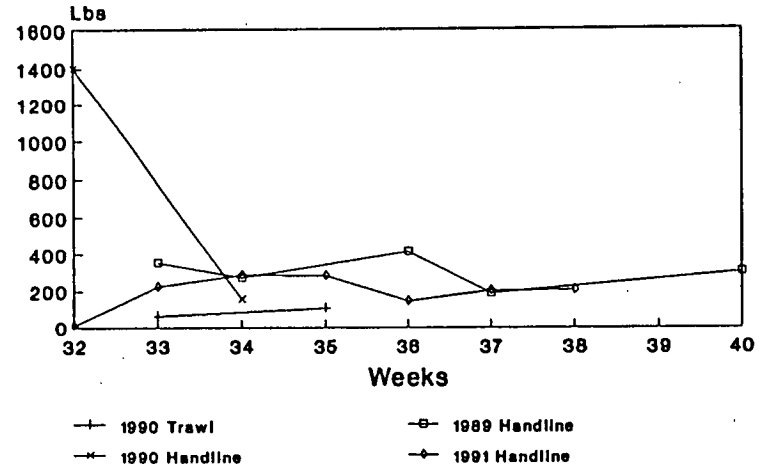
Traps

Figure 33. 3L ah: Knight's Point to Cape Bonavista, Bonavista Bay.

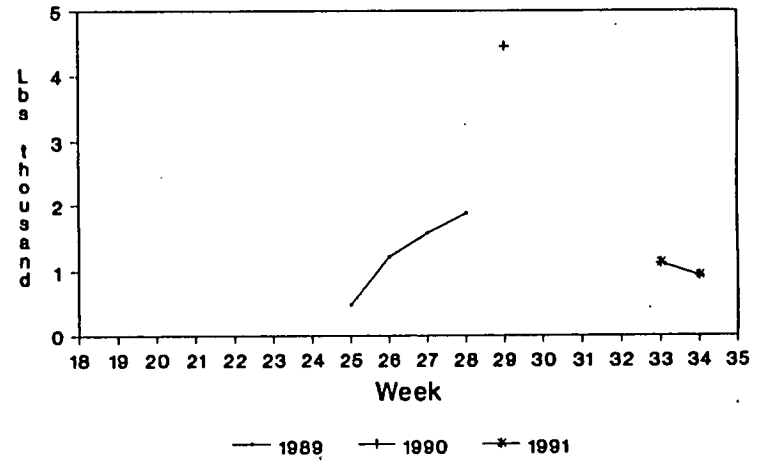
3L ba



Gillnets



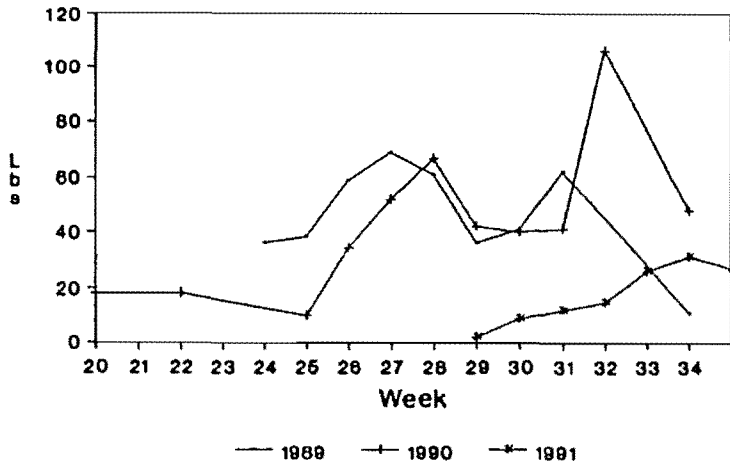
Trawl and Handline



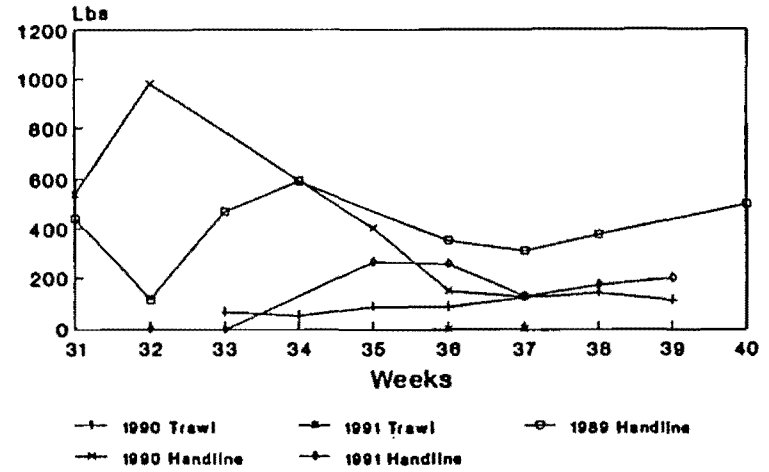
Traps

Figure 34. 3L ba: Cape Bonavista to Flowers Point, Trinity Bay.

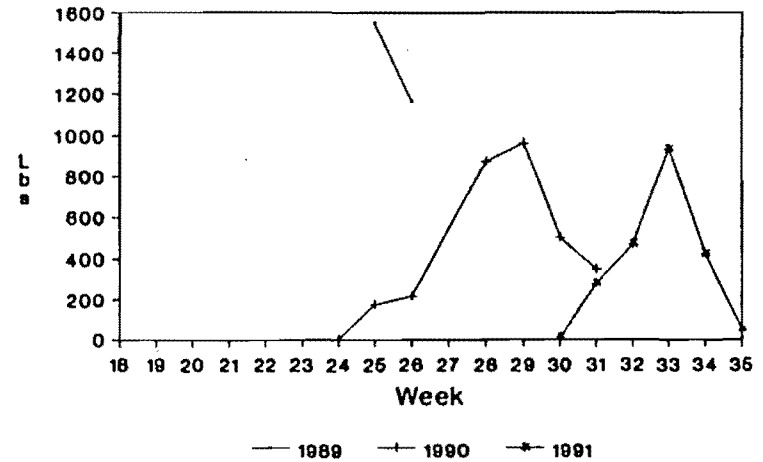
3L bb



Gillnets



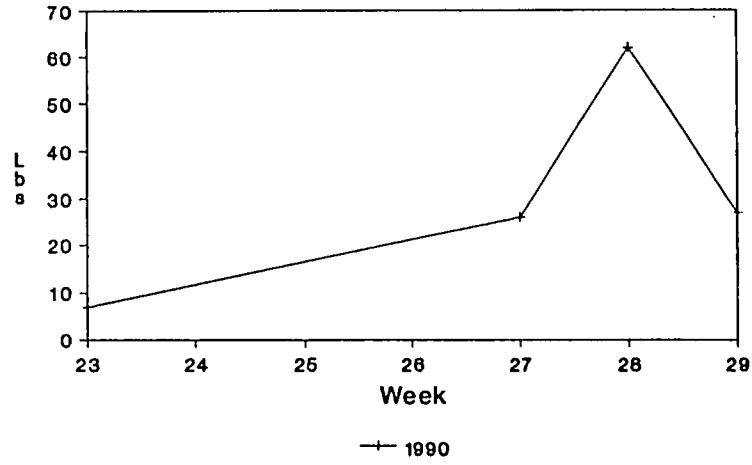
Trawl and Handline



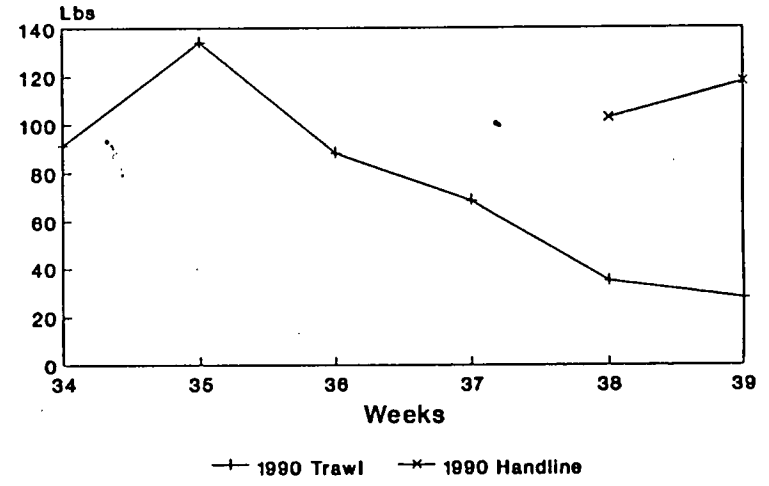
Traps

Figure 35. 3L bb: Flowers Point to South Head, Trinity Bay.

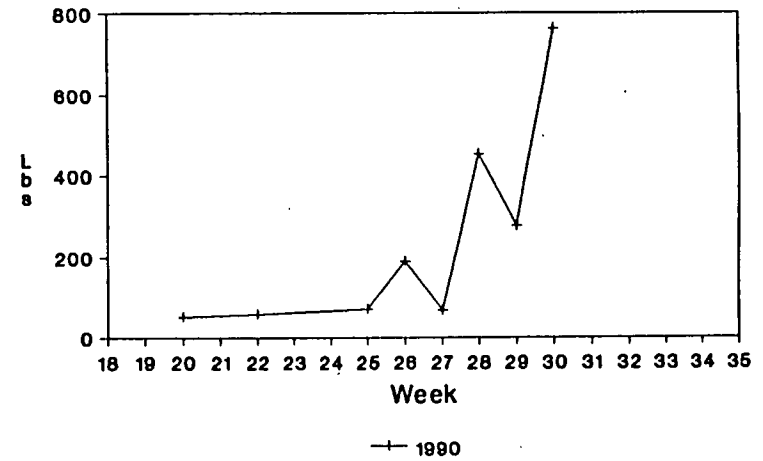
3L bc



Gillnets



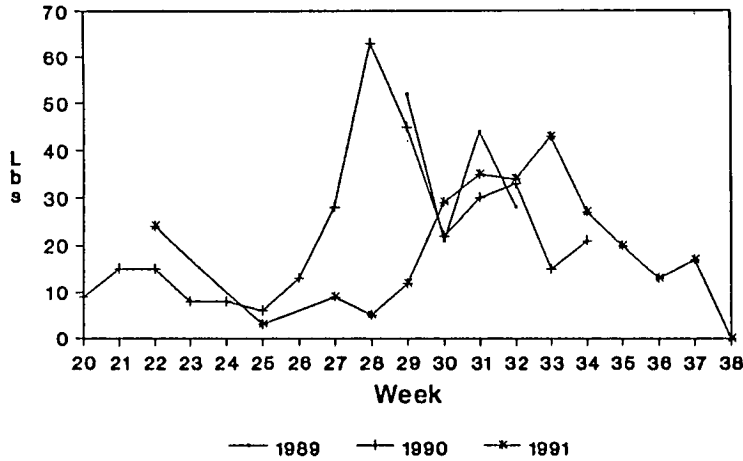
Trawl and Handline



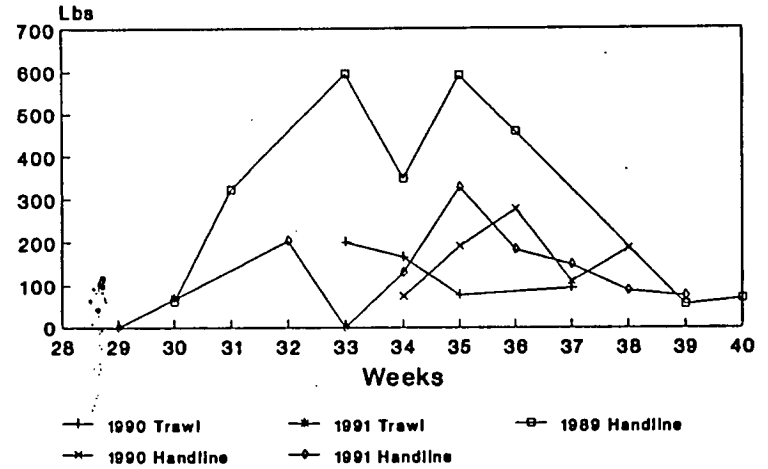
Traps

Figure 36. 3L bc: South Head to Horse Chops, Trinity Bay.

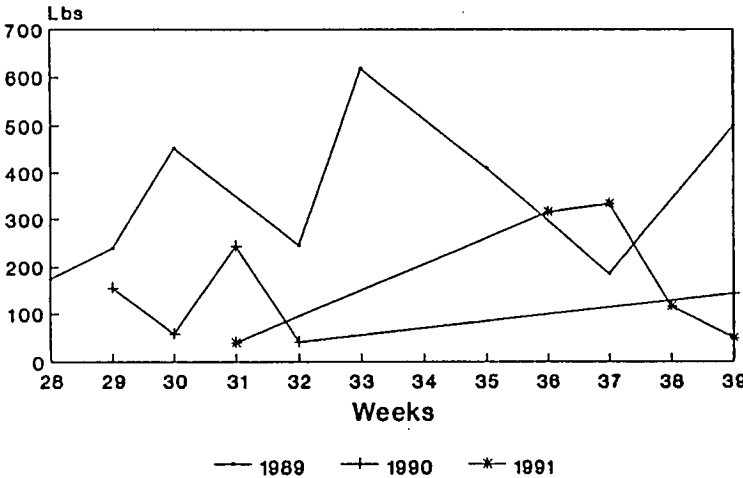
3L bd



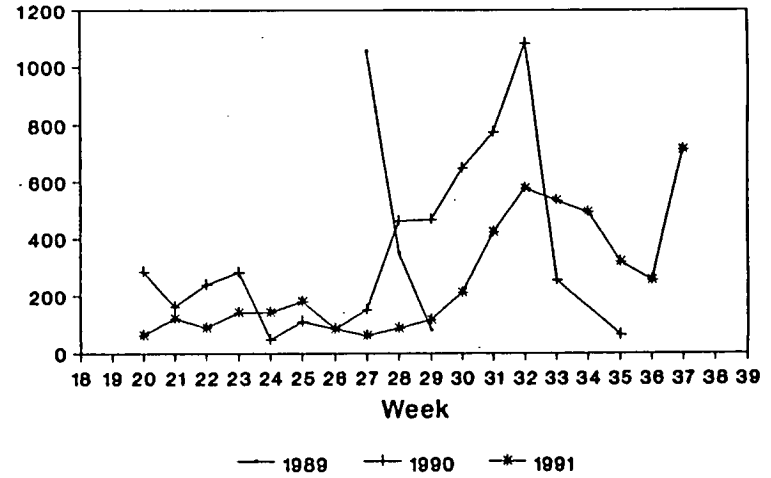
Gillnets



Trawl and Handline



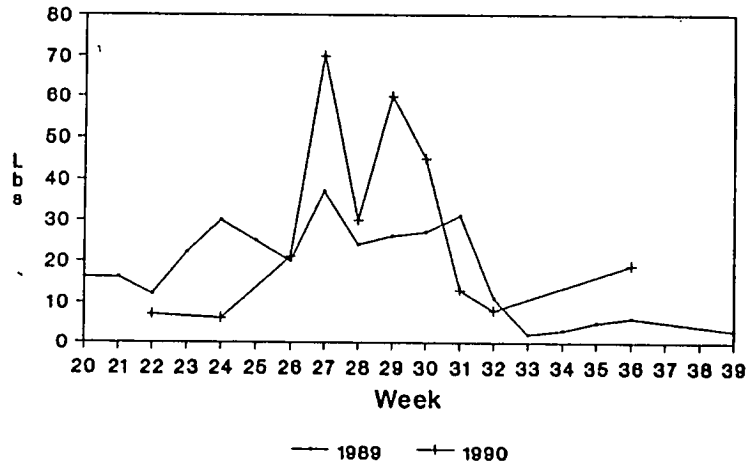
Jigger



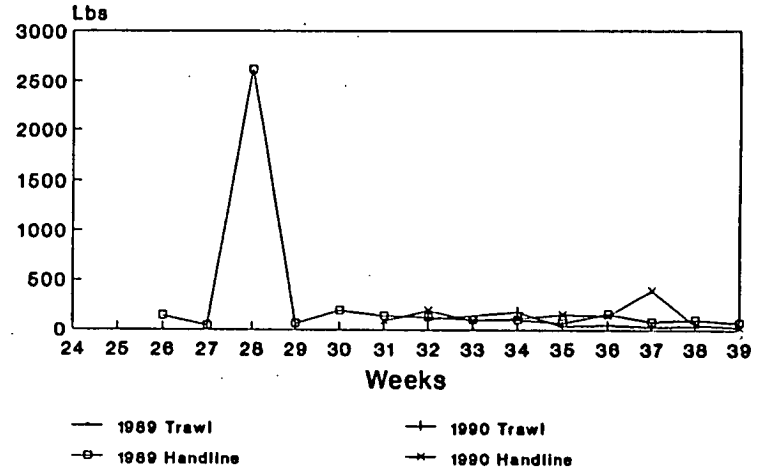
Traps

Figure 37. 3L bd: Horse Chops to Bonaventure Head, Trinity Bay.

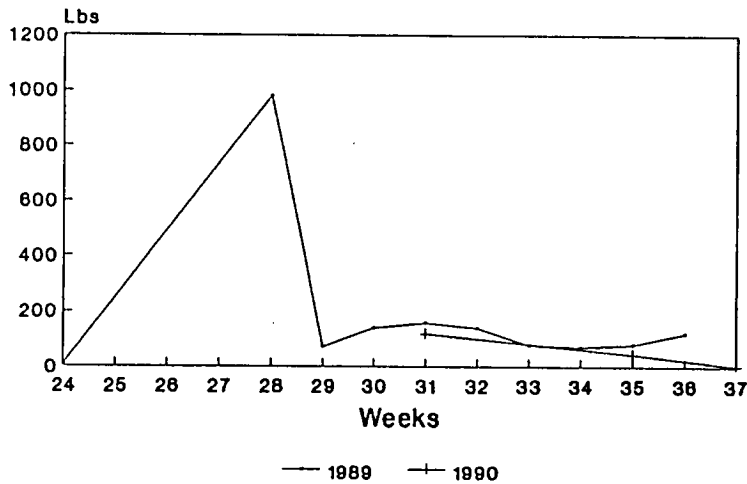
3L be



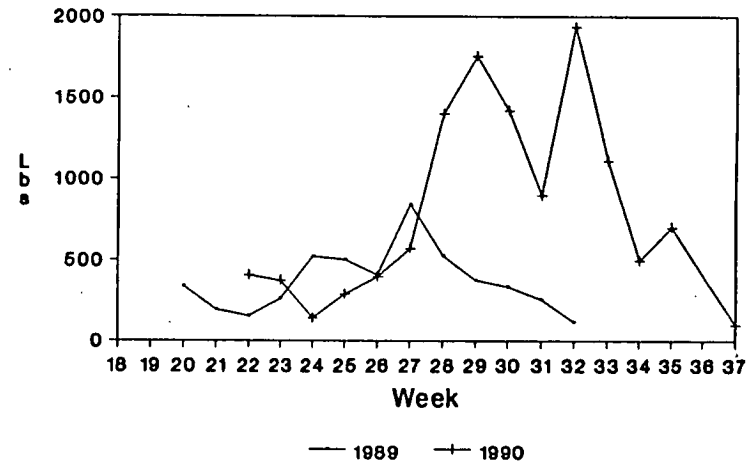
Gillnets



Trawl and Handline



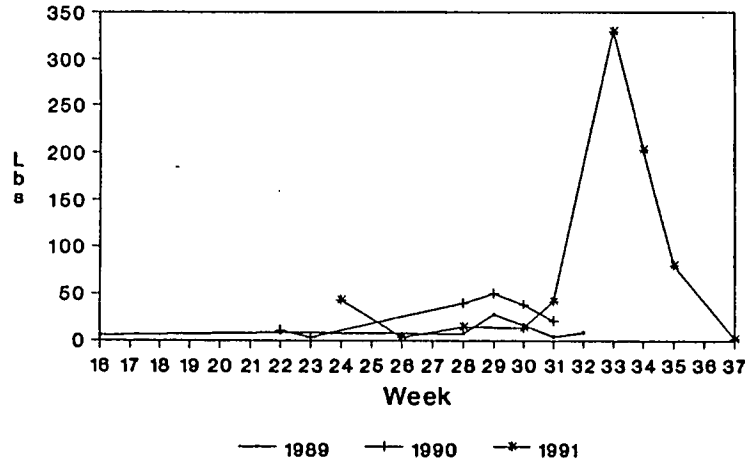
Jigger



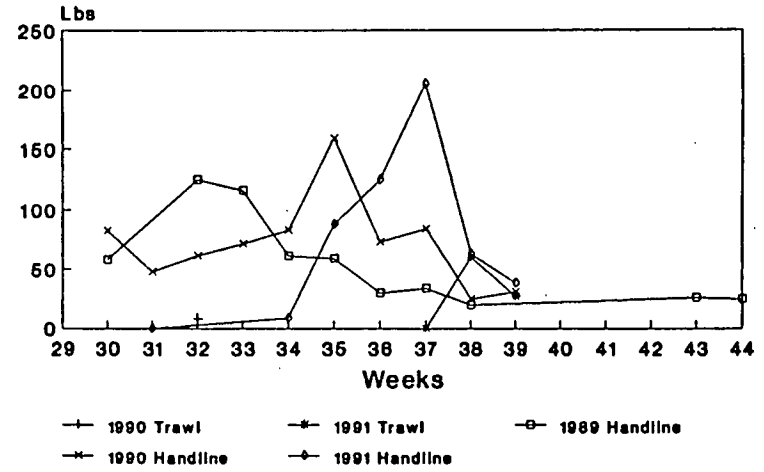
Traps

Figure 38. 3L be: Bonaventure Head to Hickman's Harbour, Trinity Bay.

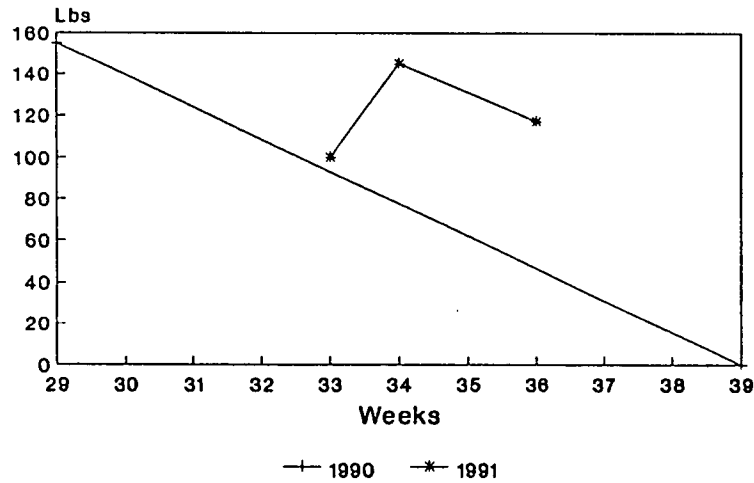
3L bf



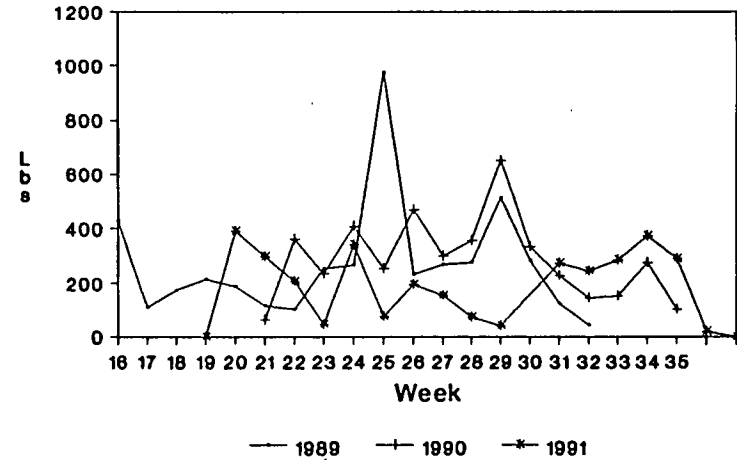
Gillnets



Trawl and Handline



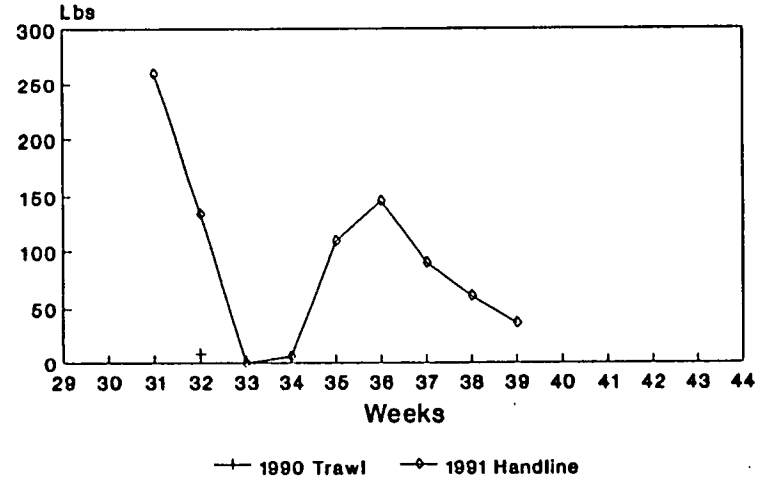
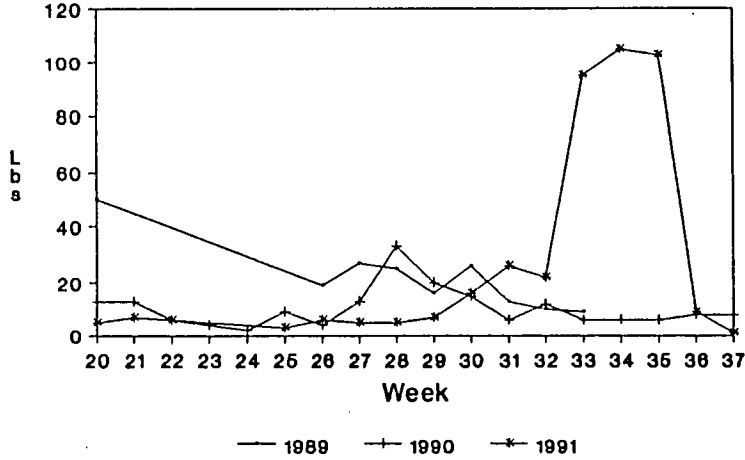
Jigger



Traps

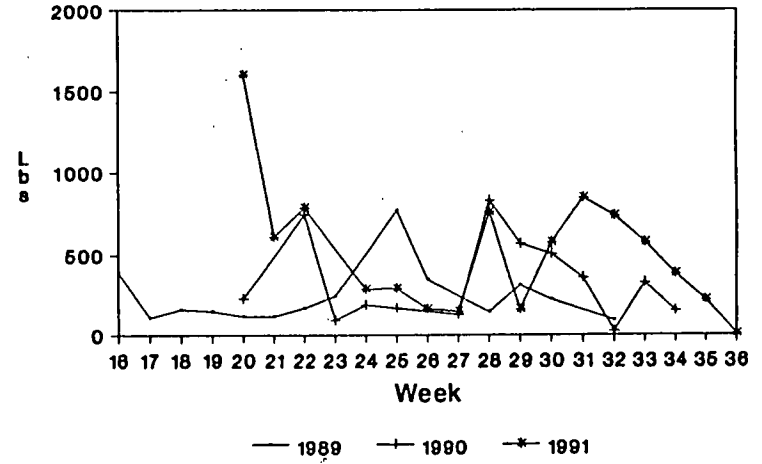
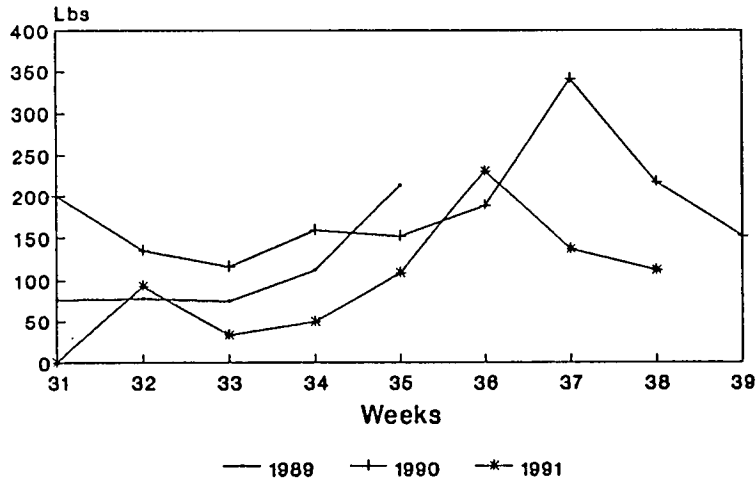
Figure 39. 3L bf: Random Island, Trinity Bay.

3L bg



Gillnet

Trawl and Handline

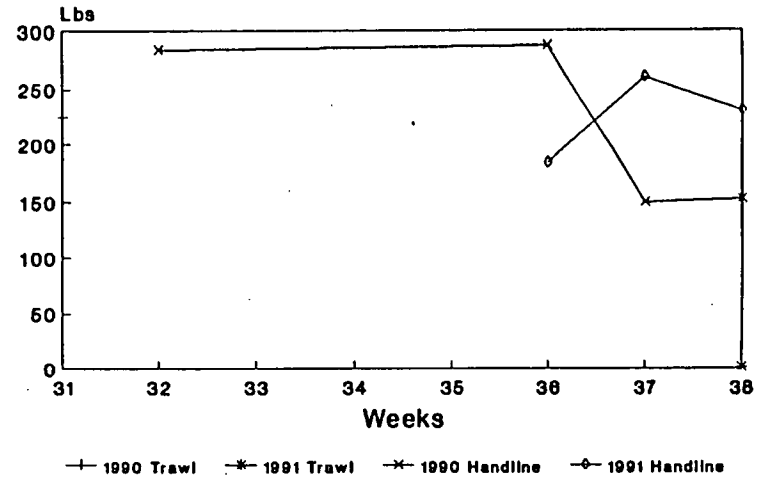
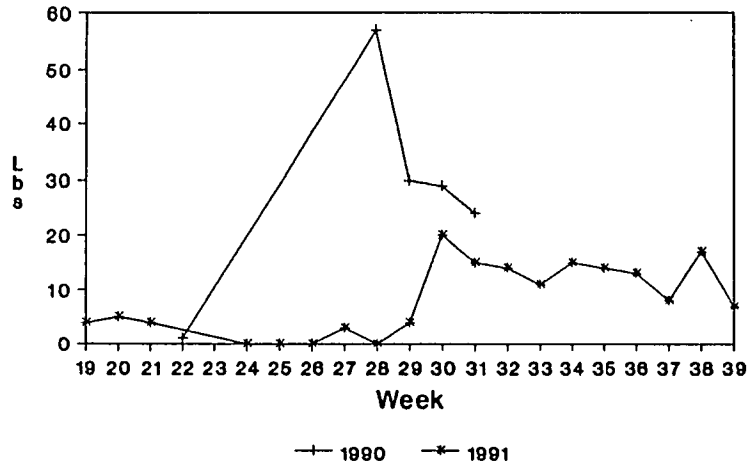


Jigger

Traps

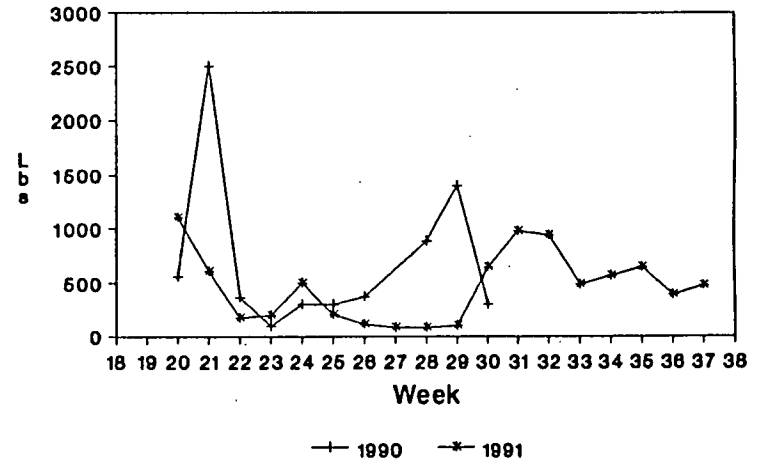
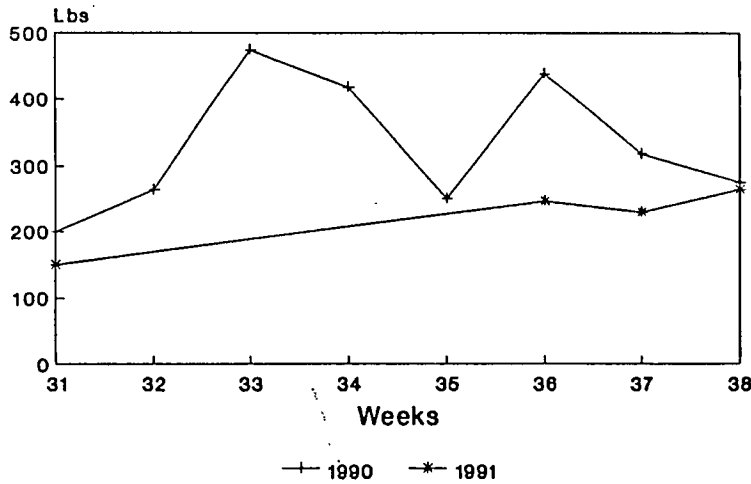
Figure 40. 3L bg: Hickman's Harbour to Ireland's Eye, Trinity Bay.

3L bh



Gillnets

Trawl and Handline

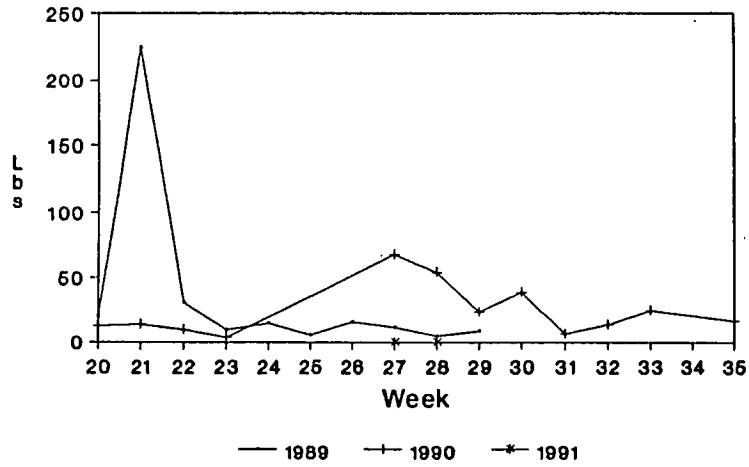


Jigger

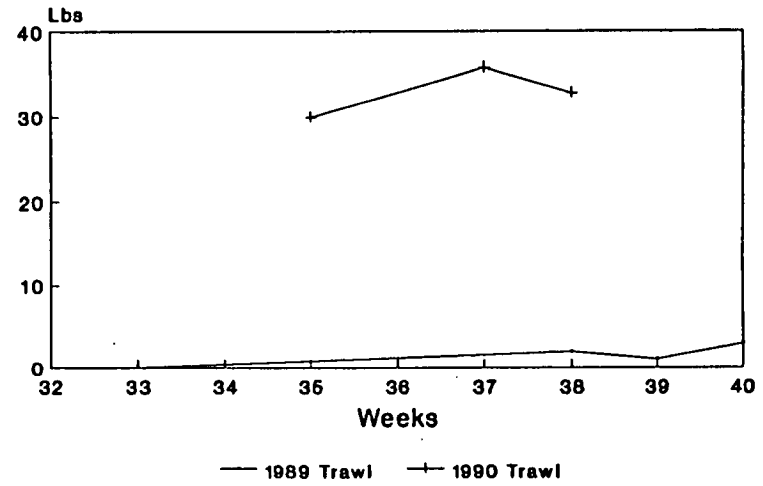
Traps

Figure 41. 3L bh: Ireland's Eye to Bald Head, Trinity Bay.

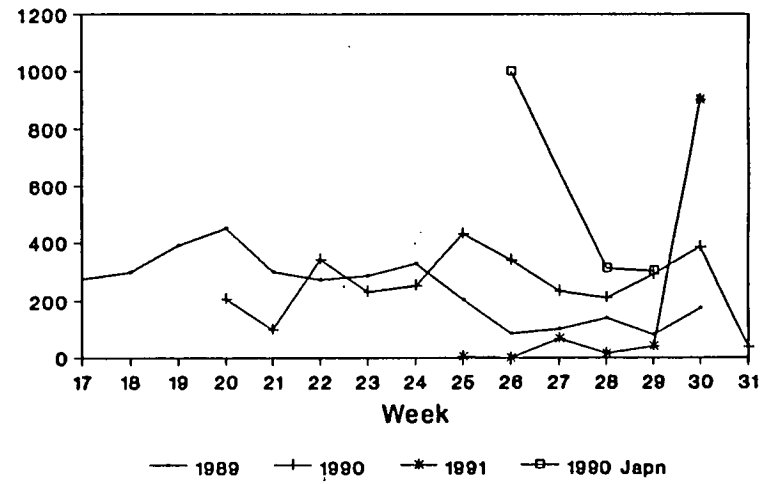
3L bi



Gillnets



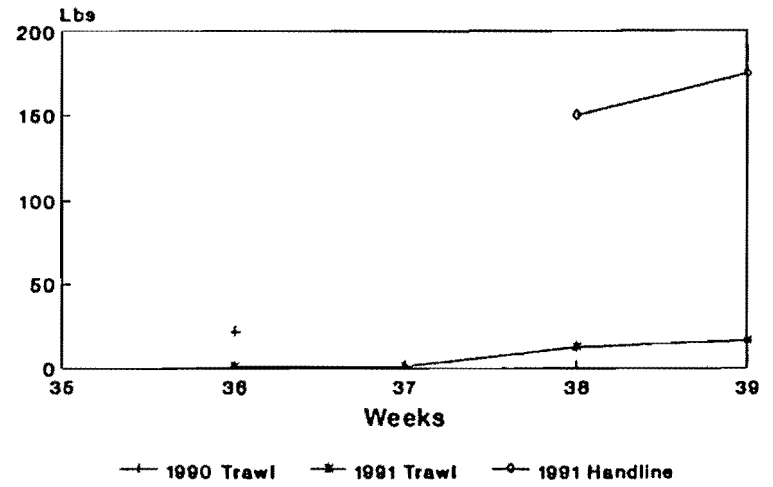
Trawl and Handline



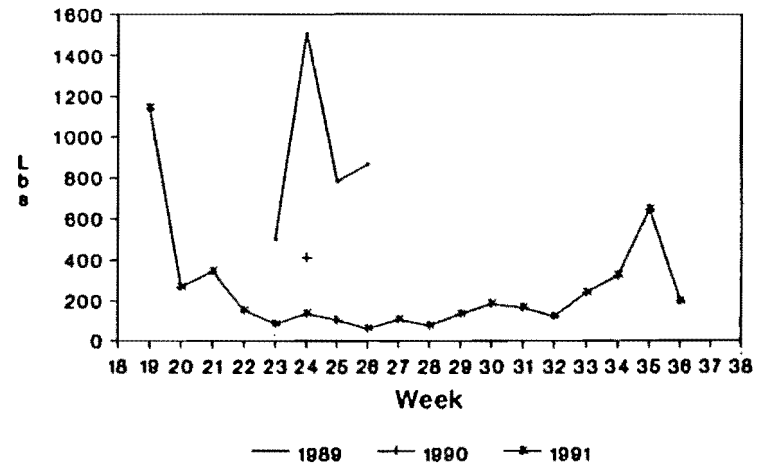
Traps

Figure 42. 3L bi: Bald Head to Squib Point, Trinity Bay.

3L bj



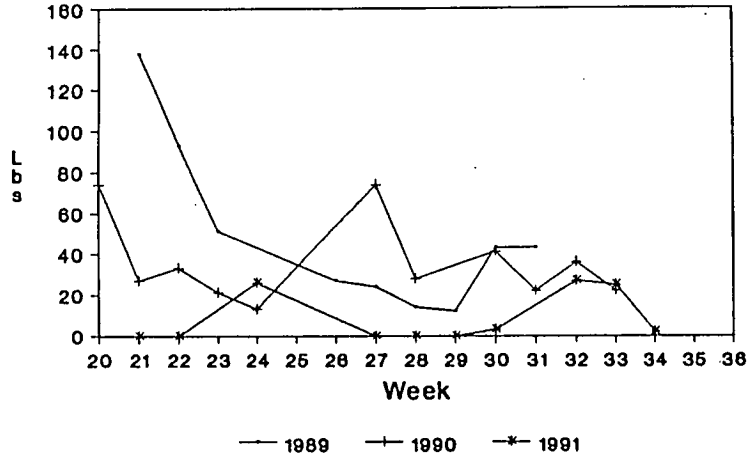
Trawl and Handline



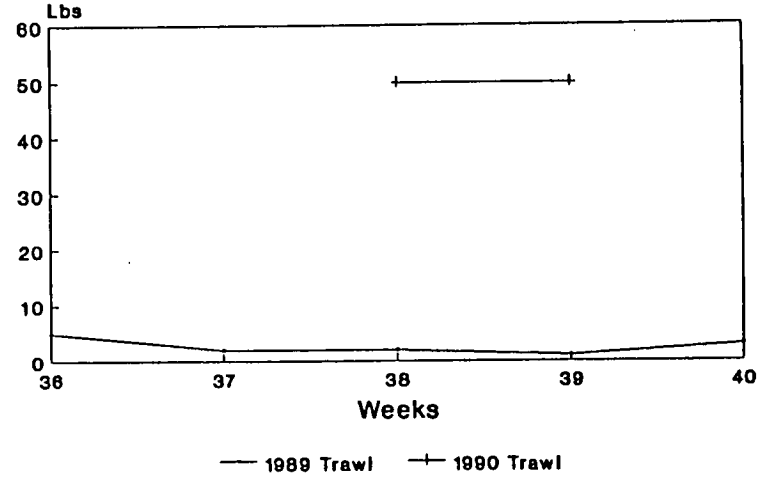
Traps

Figure 43. 3L bj: Squib Point to Tickle Harbour Point, Trinity Bay.

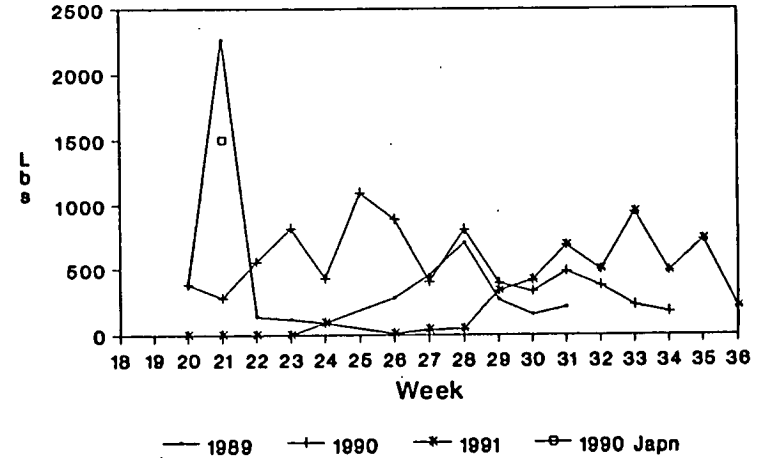
3L bk



Gillnets



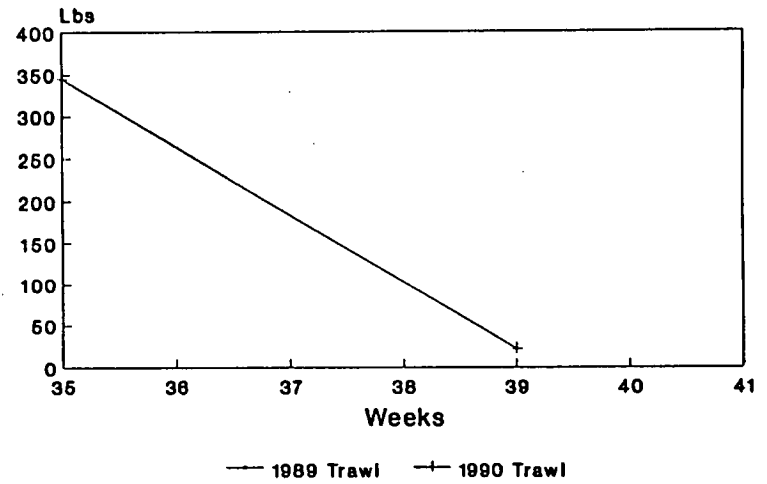
Trawl and Handline



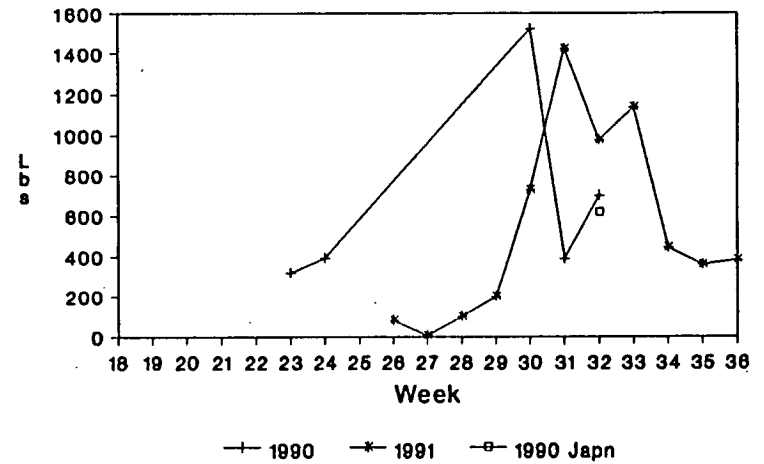
Traps

Figure 44. 3L bk: Tickle Harbour Point to Hopeall Head, Trinity Bay.

3L b1



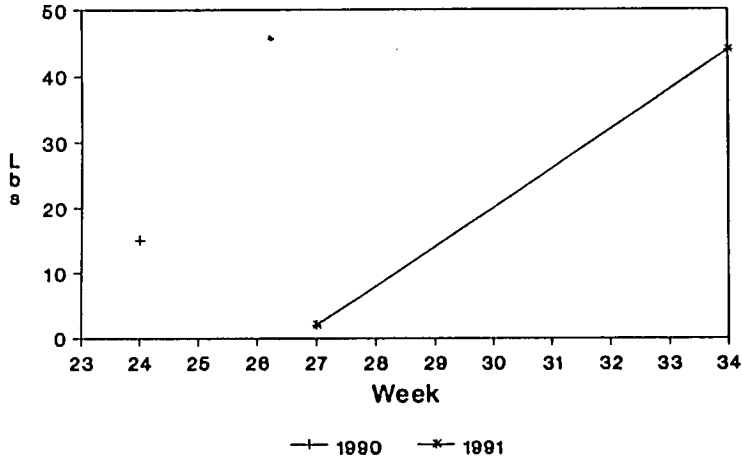
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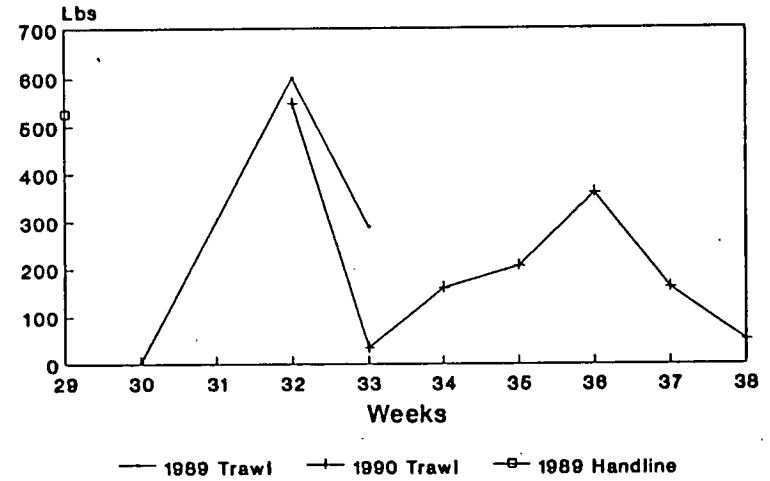
Traps

Figure 45. 3L b1: Hopeall Head to Long Point, Trinity Bay.

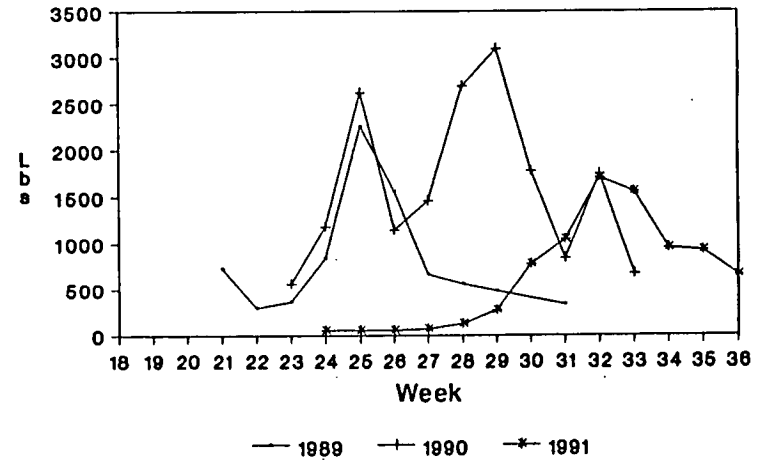
3L bm



Gillnets



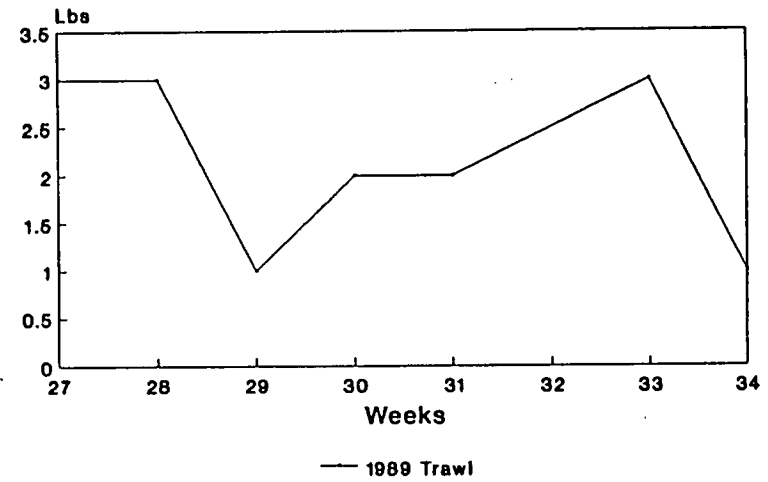
Trawl and Handline



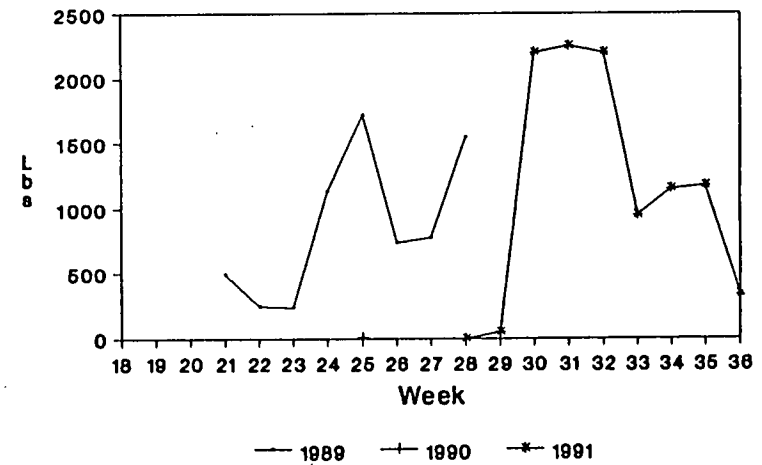
Traps

Figure 46. 3L bm: Long Point to Heart's Content, Trinity Bay.

3L bn



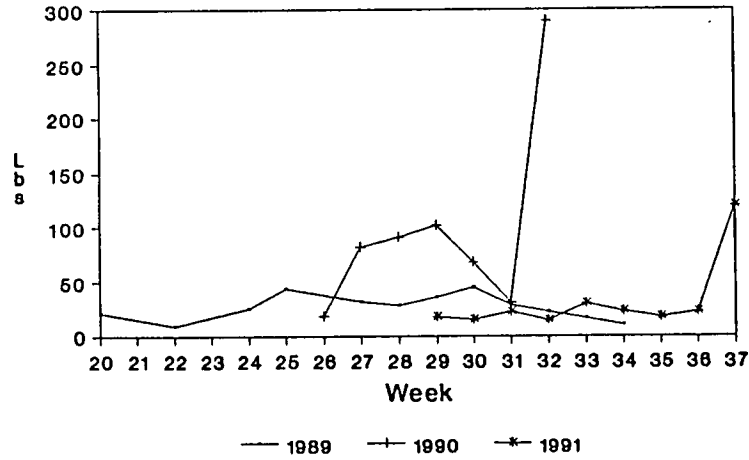
Trawl and Handline



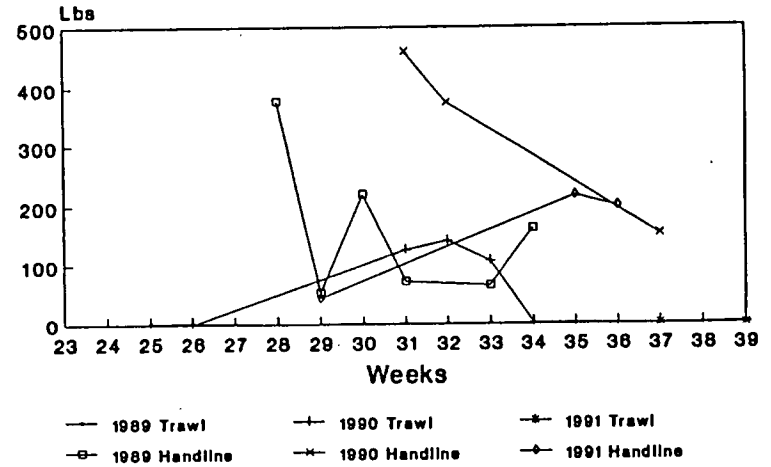
Traps

Figure 47. 3L bn: Heart's Content to Hant's Head, Trinity Bay.

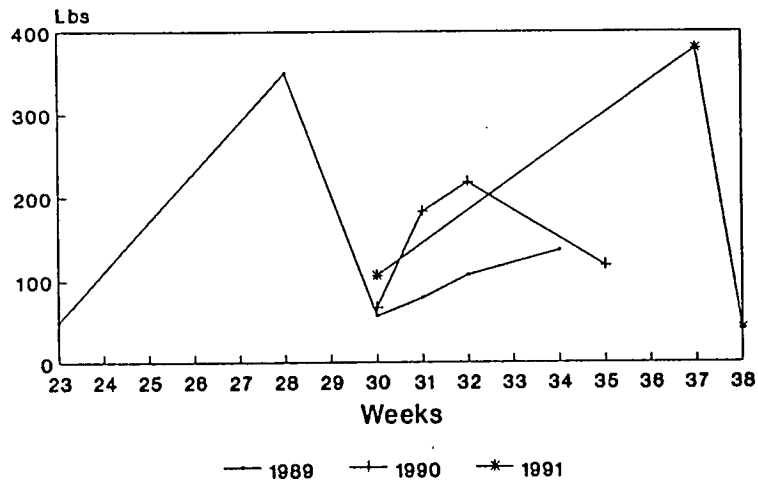
3L bo



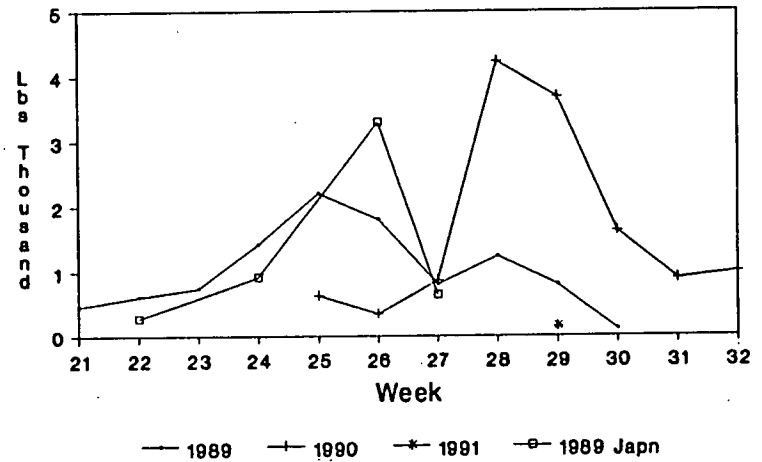
Gillnets



Trawl and Handline



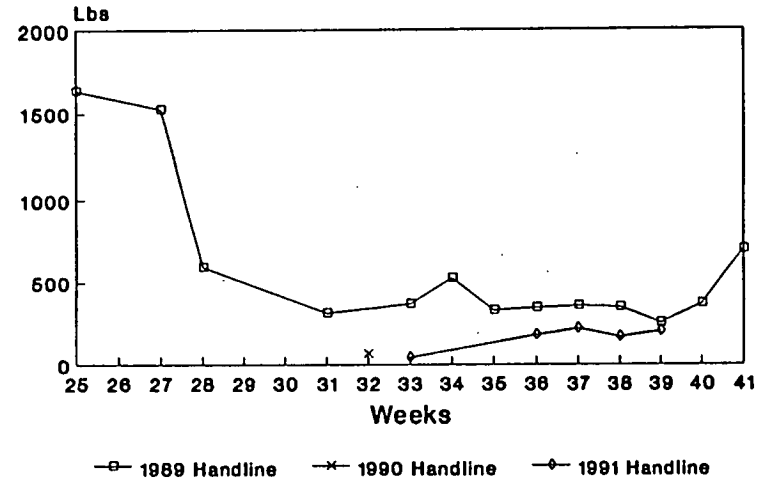
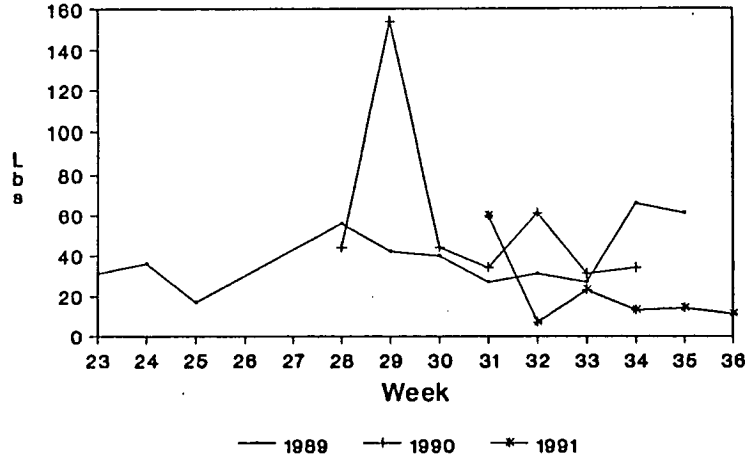
Jigger



Traps

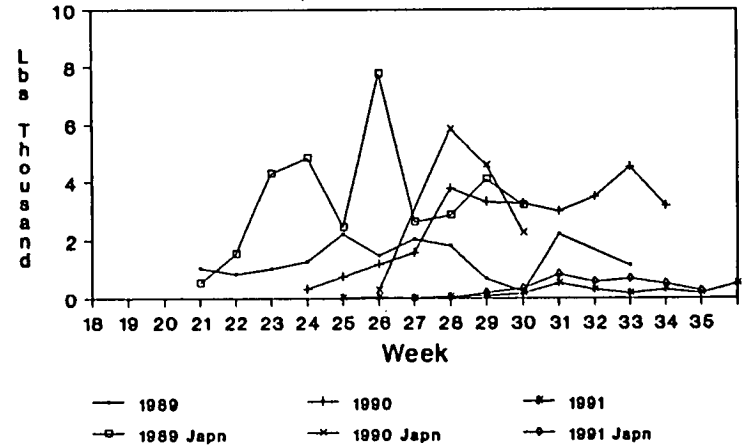
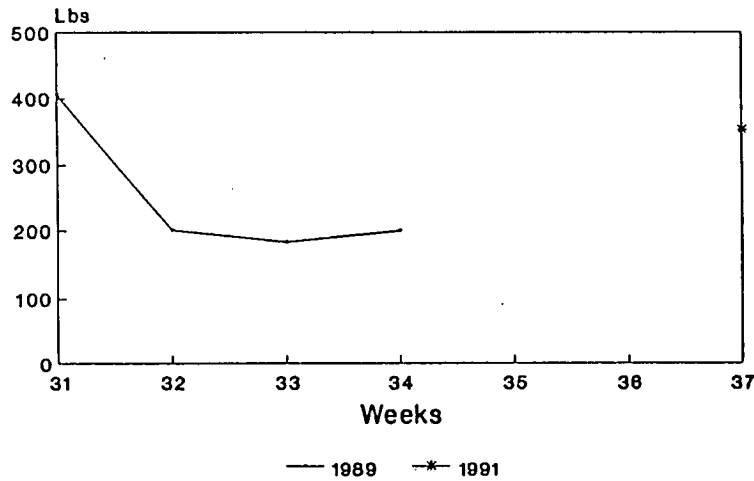
Figure 48. 3L bo: Hant's Head to Sherwink Point, Trinity Bay.

3L bp



Gillnets

Trawl and Handline

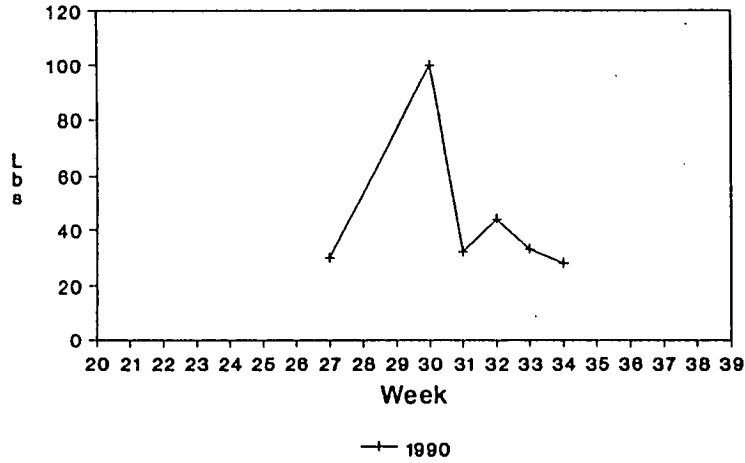


Jigger

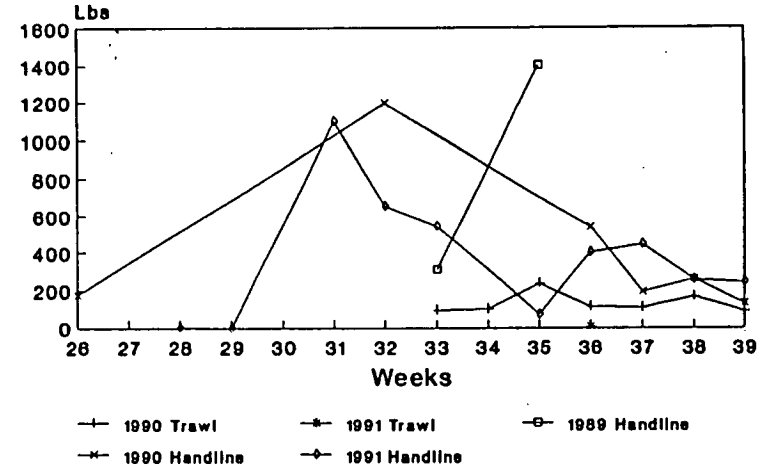
Traps

Figure 49. 3L bp: Sherwink Point to Grates Point.

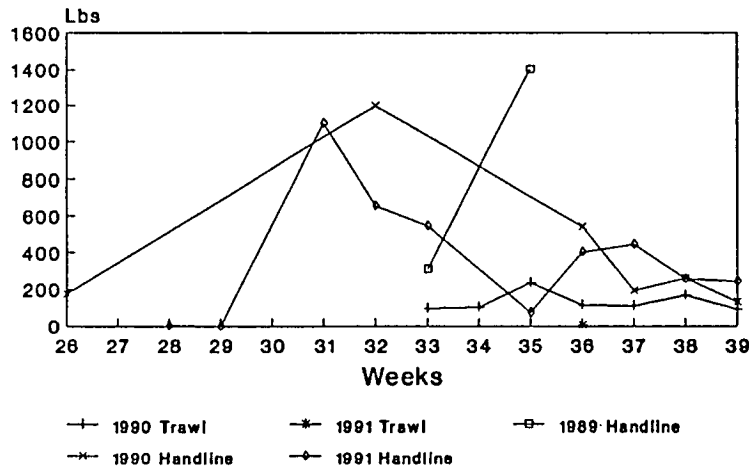
3L fa



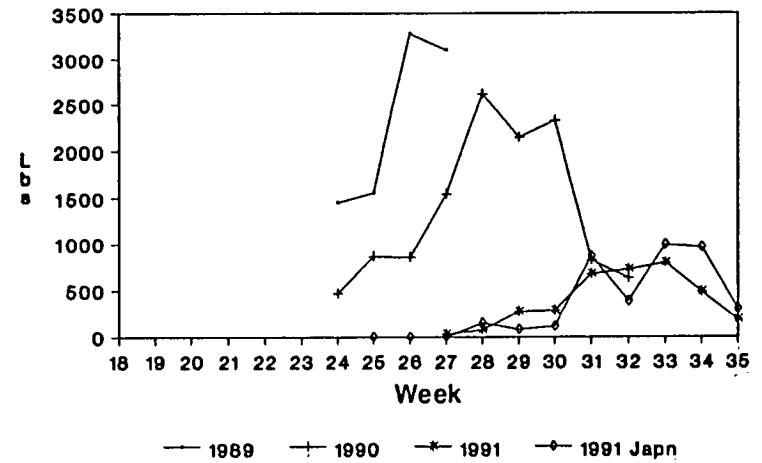
Gillnets



Trawl and Handline



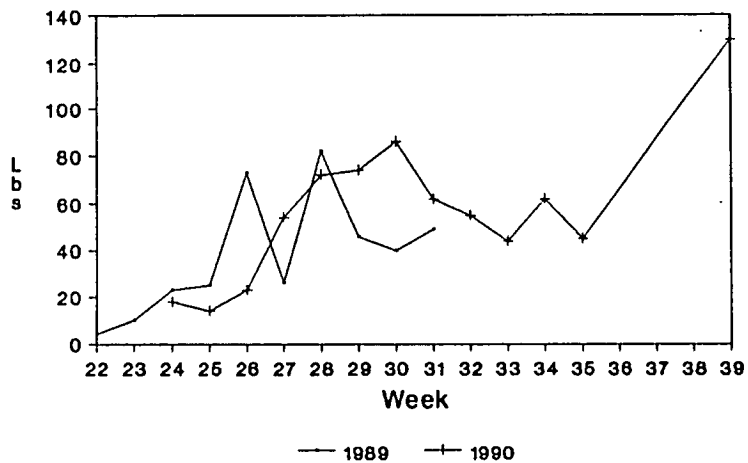
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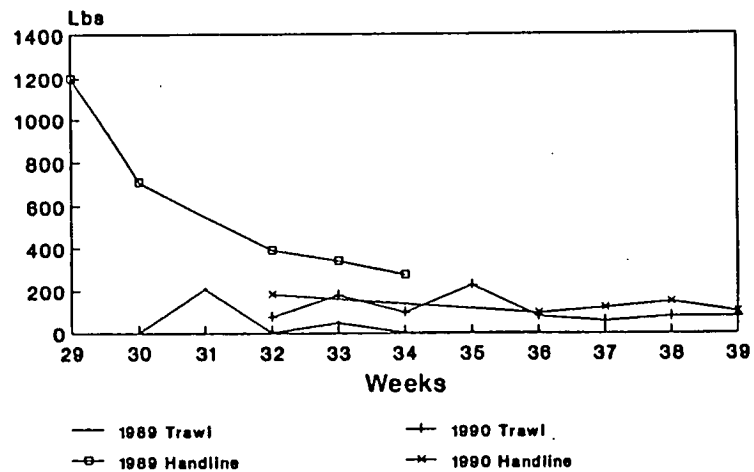
Traps

Figure 50. 3L fa: Grates Point to Split Point.

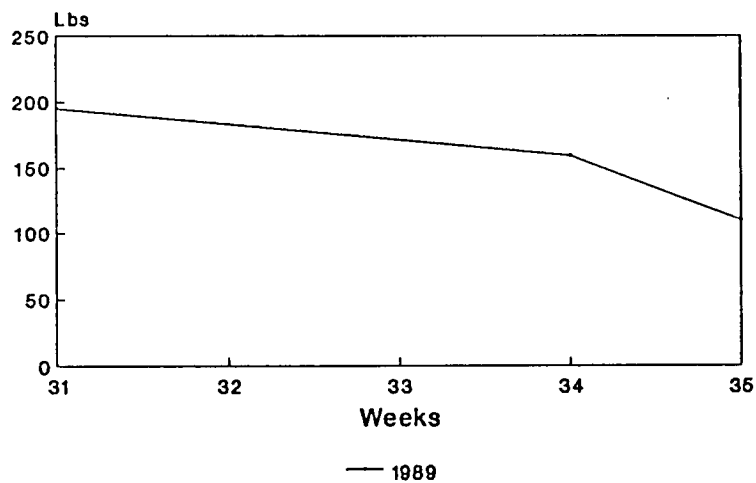
3L fb



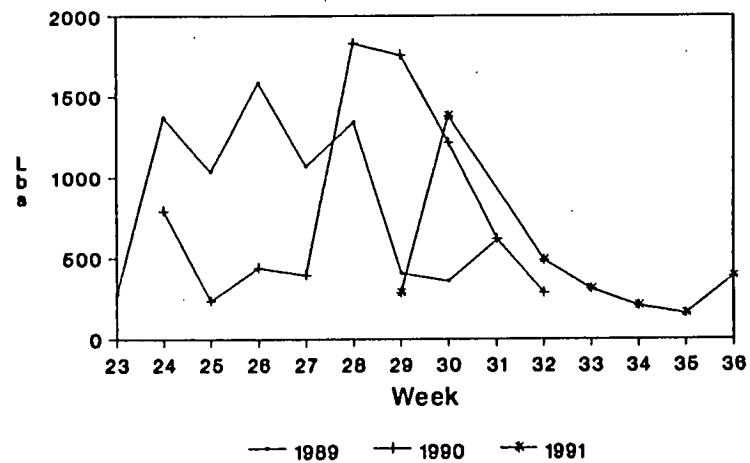
Gillnets



Trawl and Handline



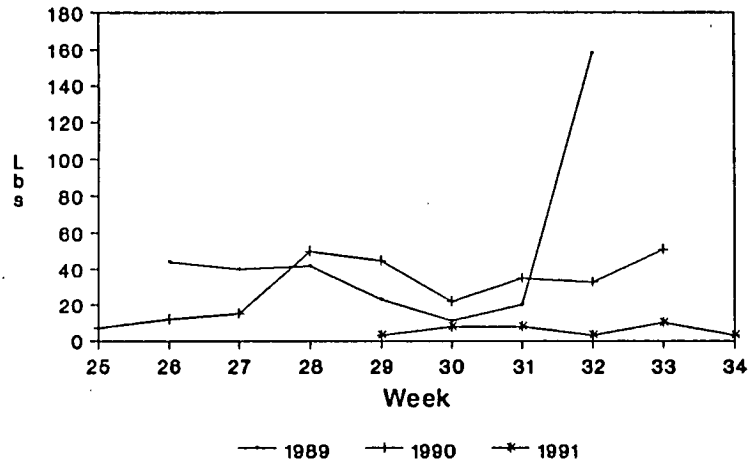
Jigger



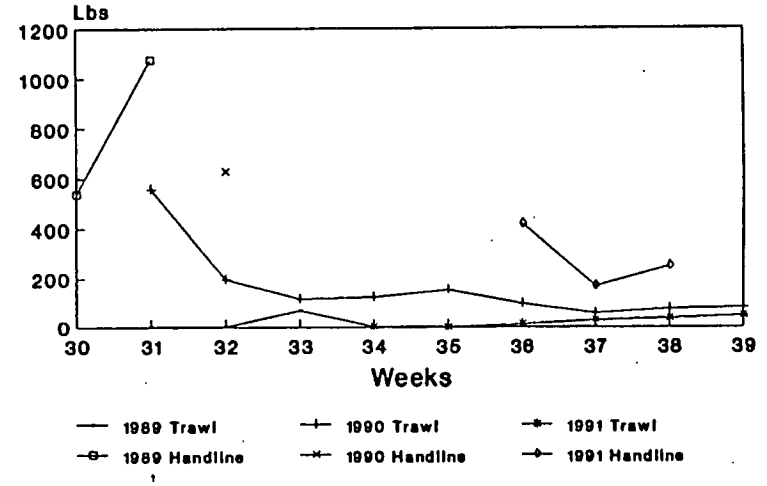
Traps

Figure 51. 3L fb: Split Point to Lower Island Cove, Conception Bay.

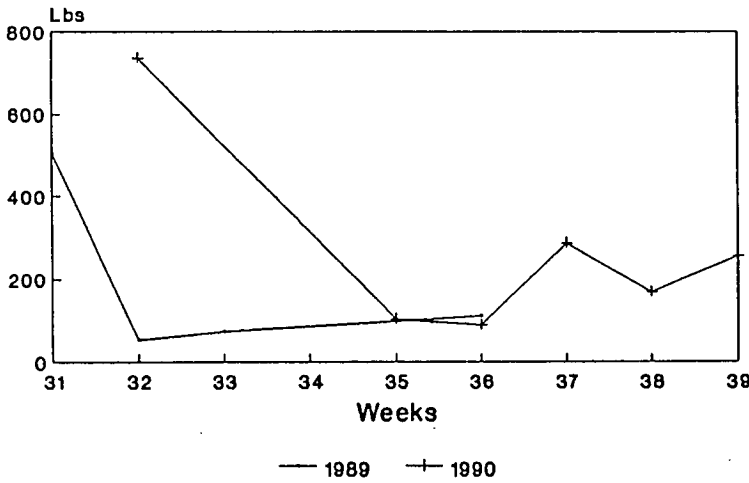
3L fc



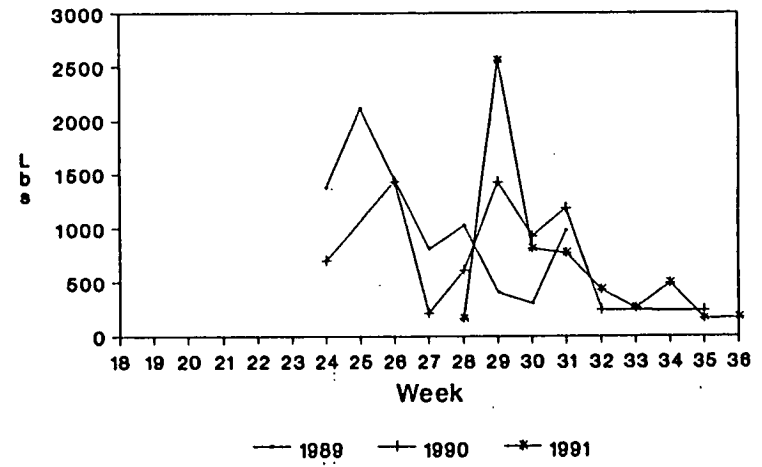
Gillnet



Trawl and Handline



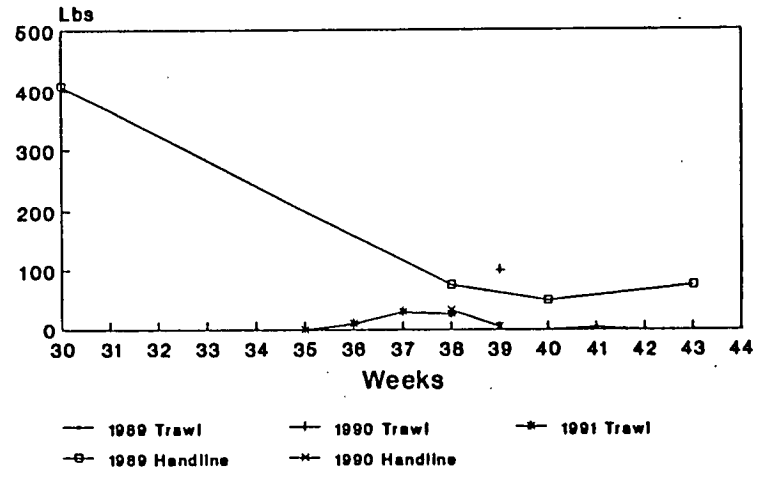
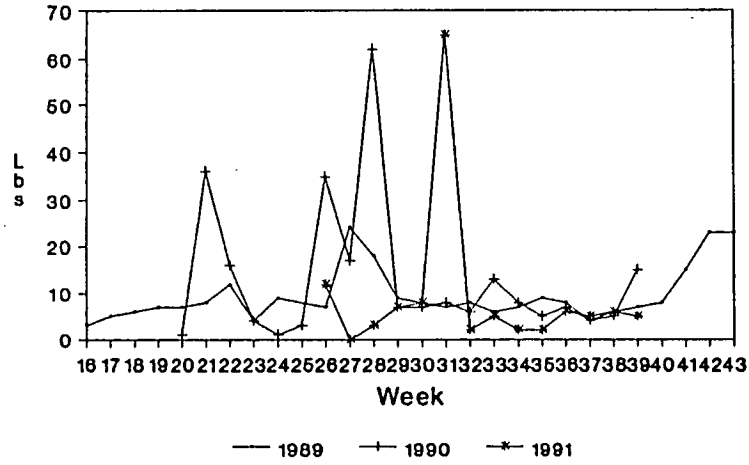
Jigger



Traps

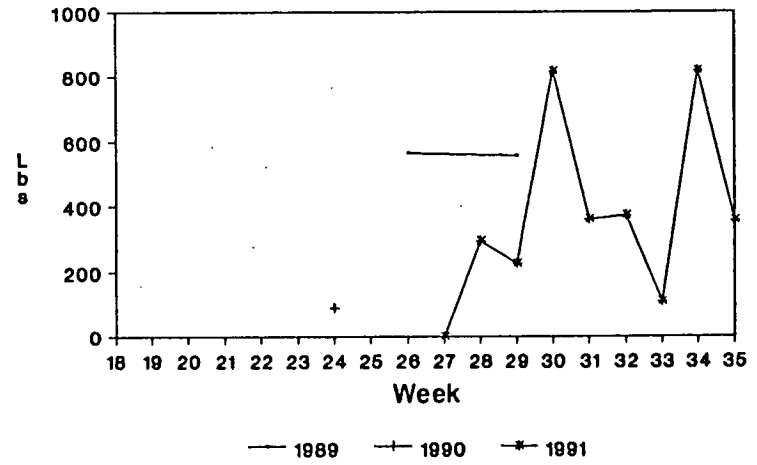
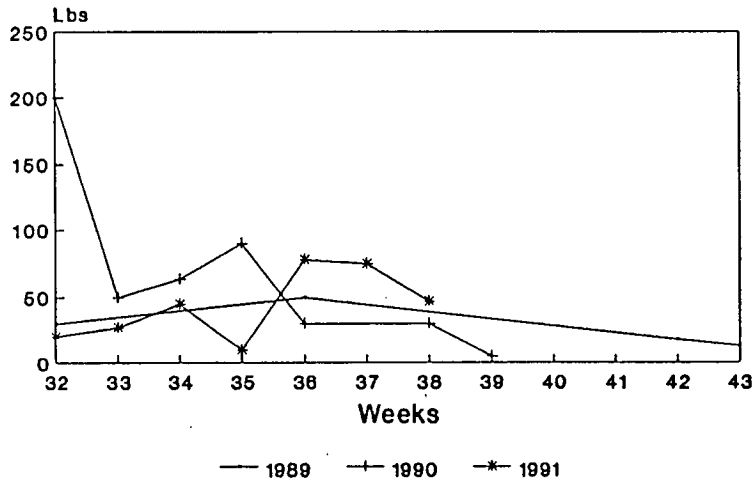
Figure 52. 3L fc: Lower Island Cove to Western Bay, Conception Bay.

3L fe



Gillnets

Trawl and Handline

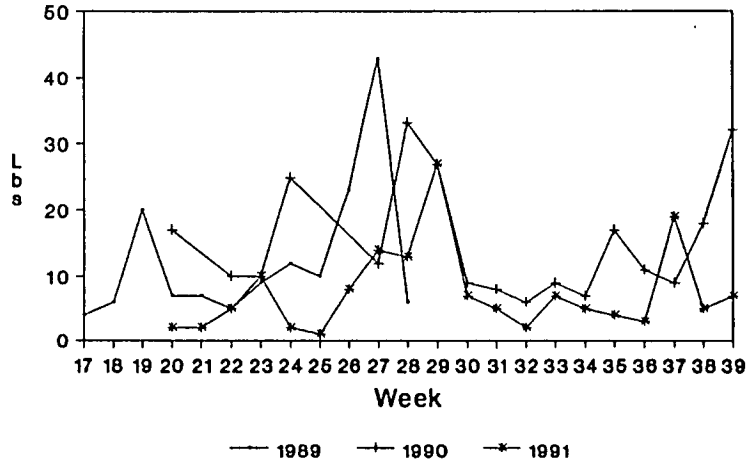


Jigger

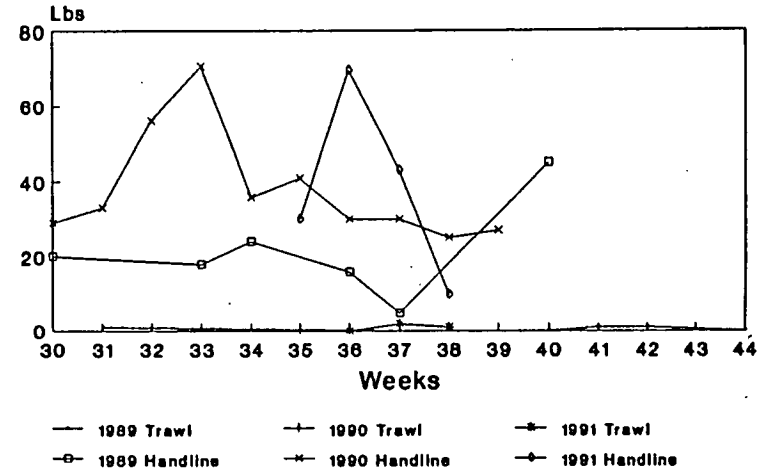
Traps

Figure 53. 3L fe: Feather Point to Burnt Point, Conception Bay.

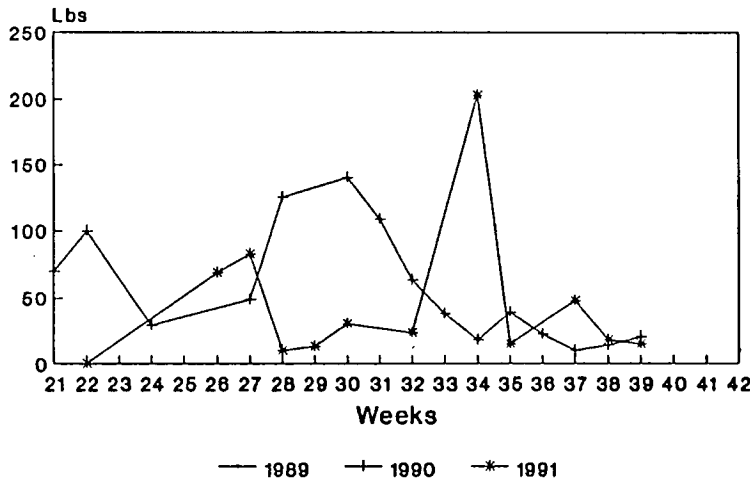
3L ff



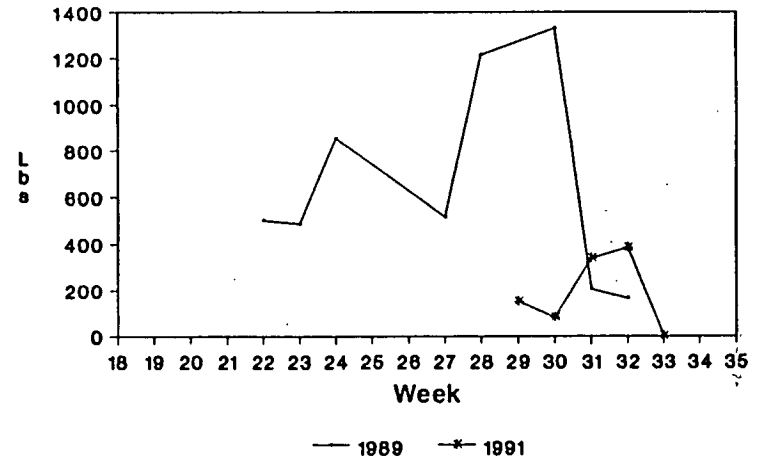
Gillnets



Trawl and Handline



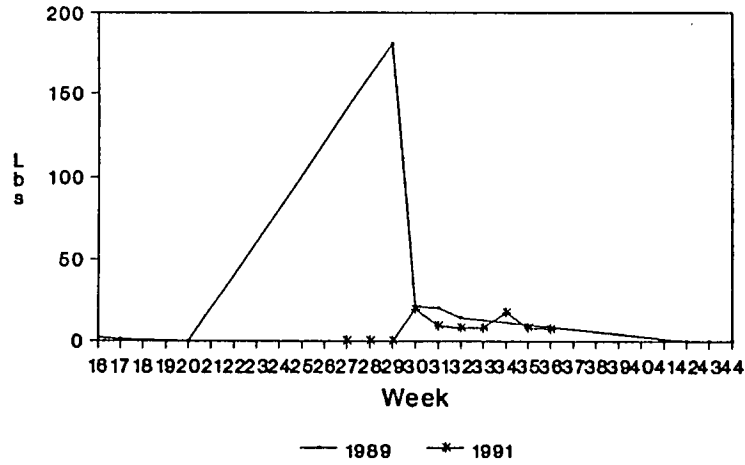
Jigger



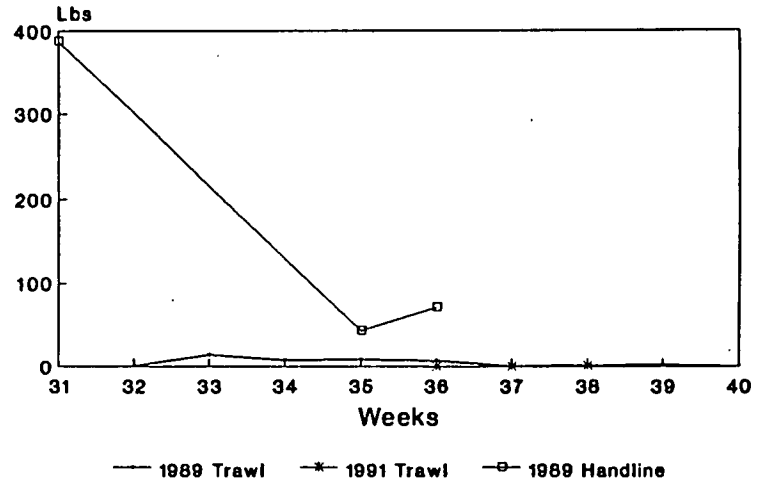
Traps

Figure 54. 3L ff: Burnt Point to Harbour Main, Conception Bay.

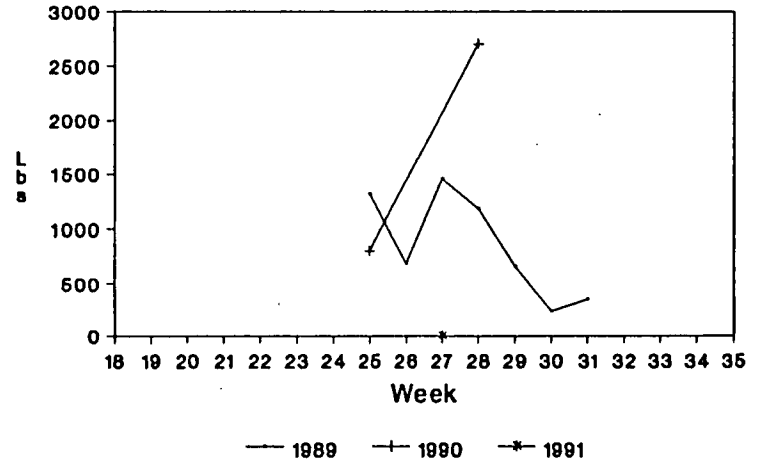
3L fg



Gillnets



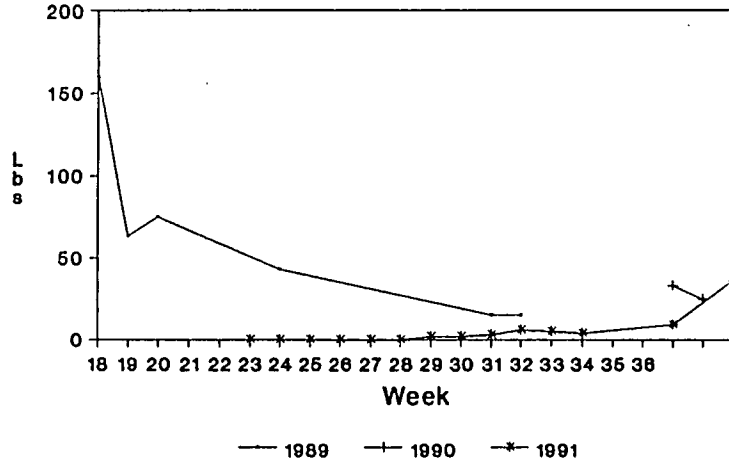
Trawl and Handline



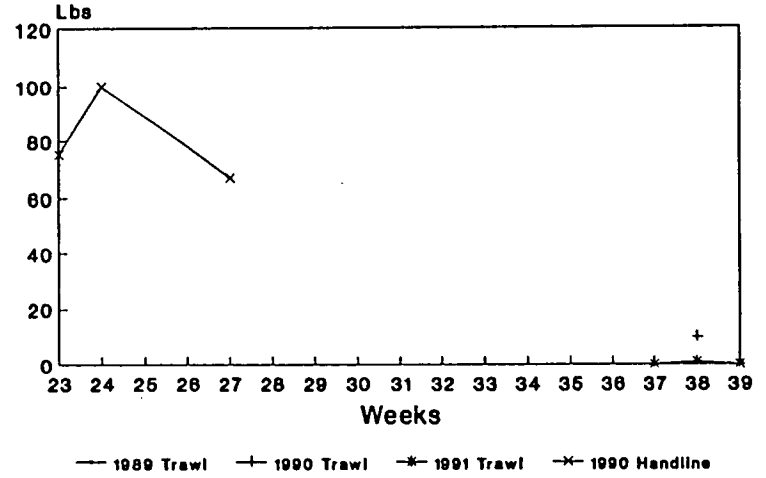
Traps

Figure 55. 3L fg: Harbour Main to Topsail Head, Conception Bay.

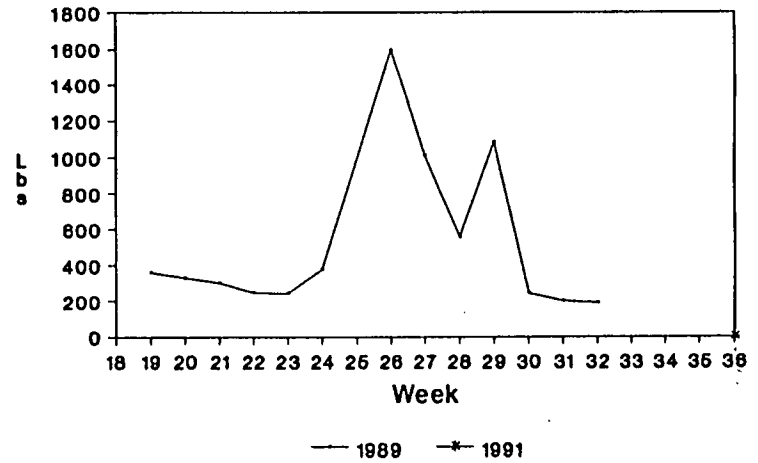
3L fh



Gillnets



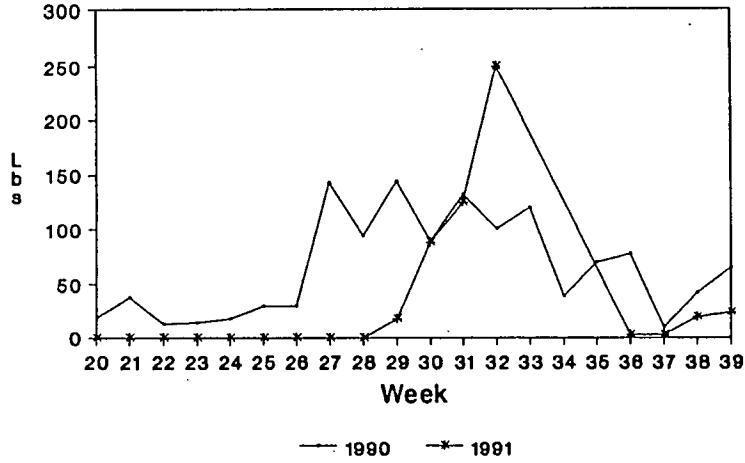
Trawl and Handline



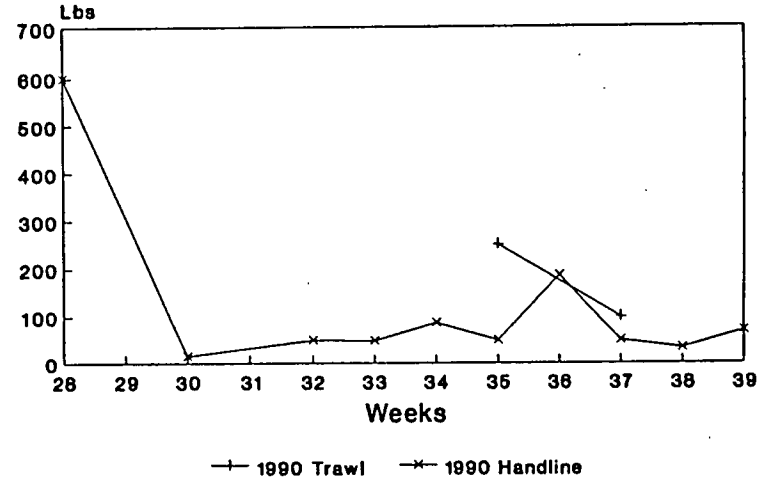
Traps

Figure 56. 3L fh: Topsail Head to Portugal Cove including Bell Island, Conception Bay.

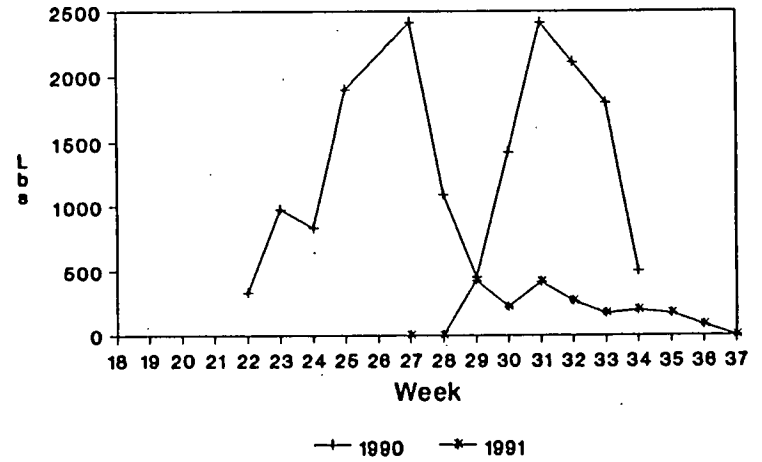
3L fi



Gillnets



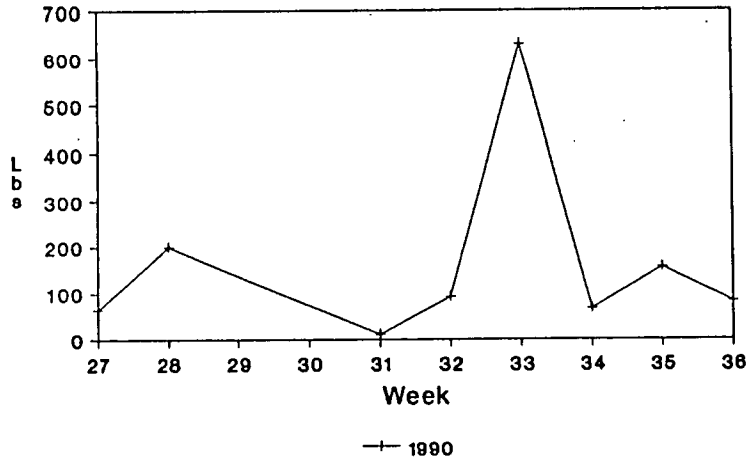
Trawl and Handline



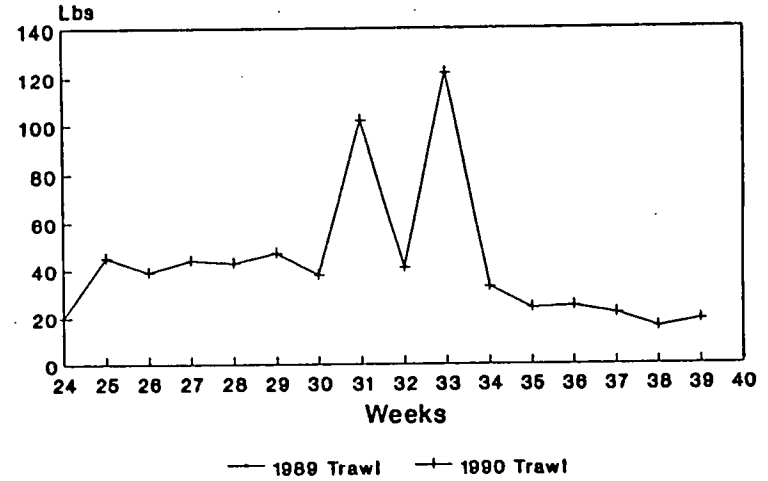
Traps

Figure 57. 3L fi: Portugal Cove to Brandies, Conception Bay.

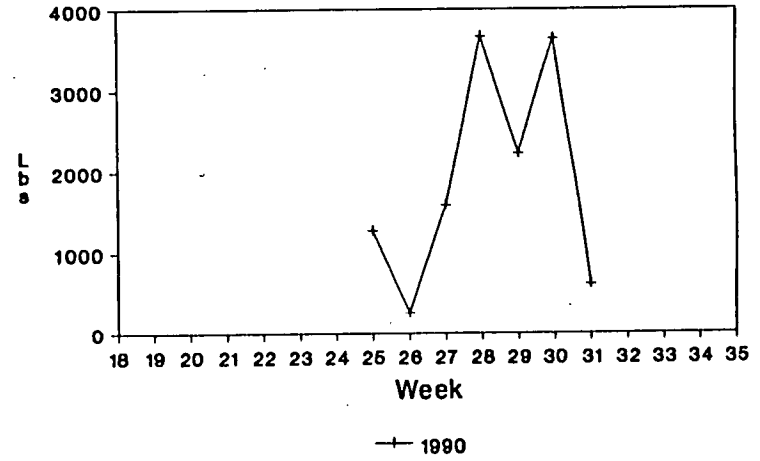
3L fj



Gillnets



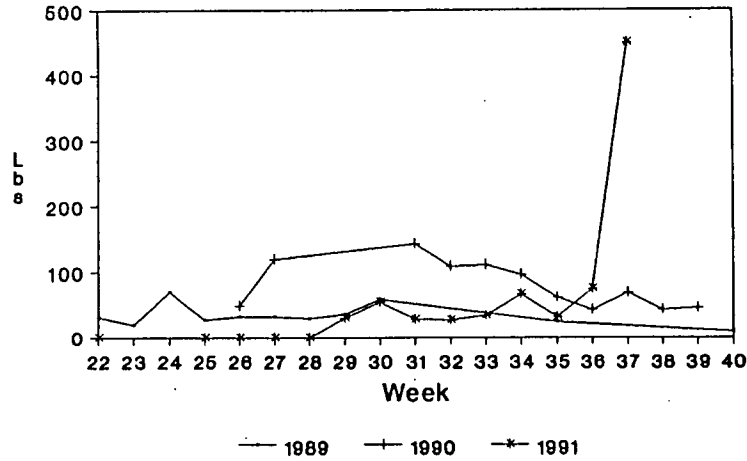
Trawl and Handline



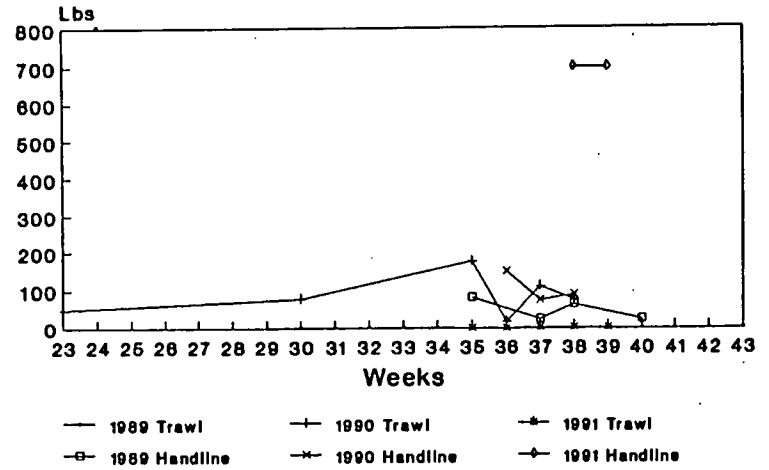
Traps

Figure 58. 3L fj: Brandies to Cape St. Frances.

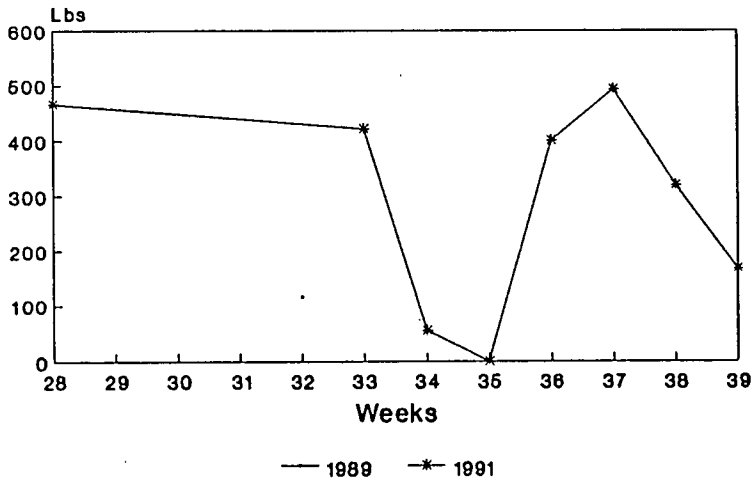
3L ja



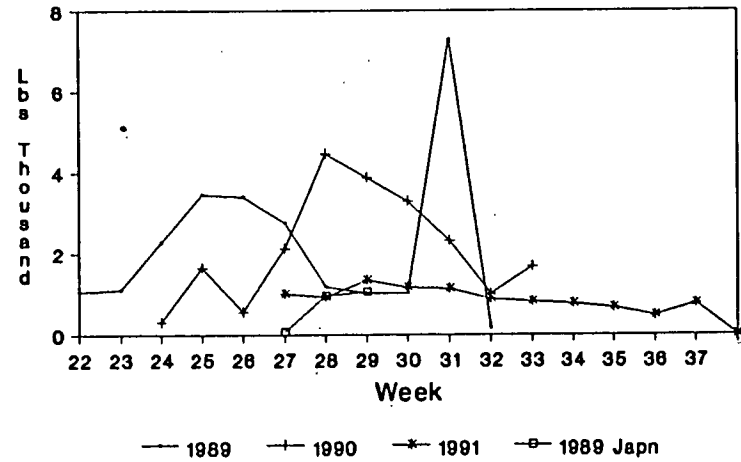
Gillnets



Trawl and Handline



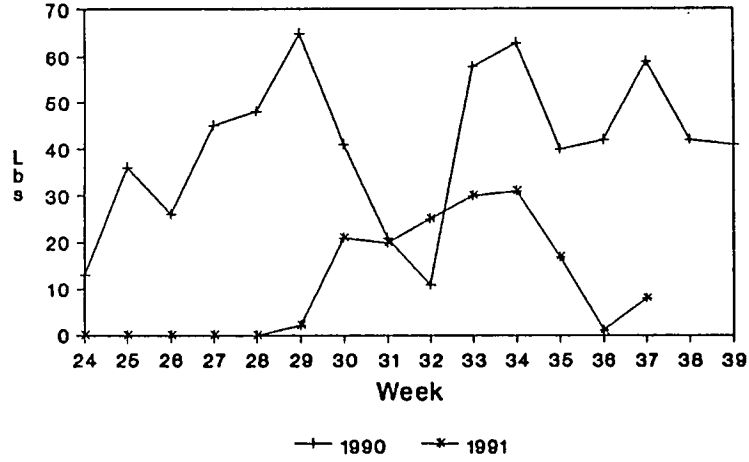
Jigger



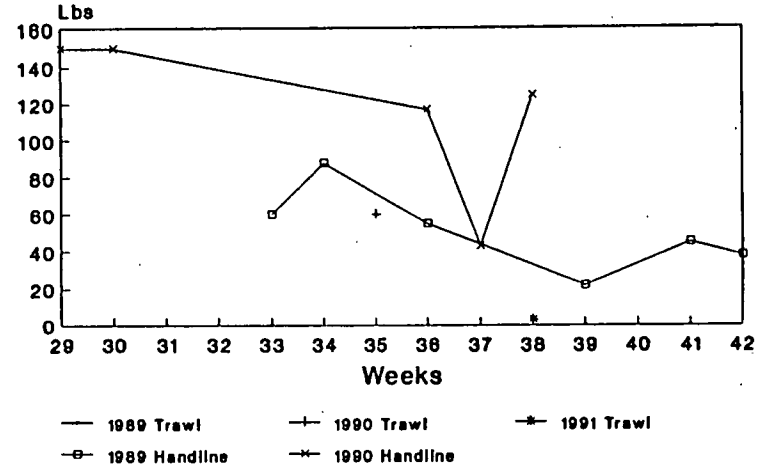
Traps

Figure 59. 3L ja: Cape St. Frances to Torbay.

3L jb



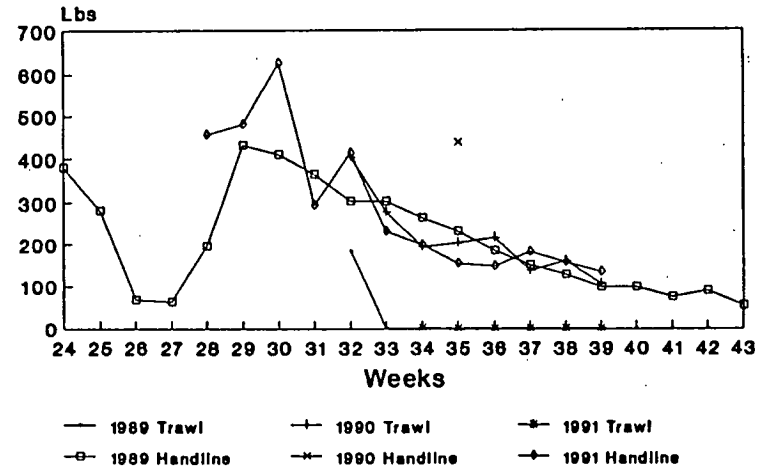
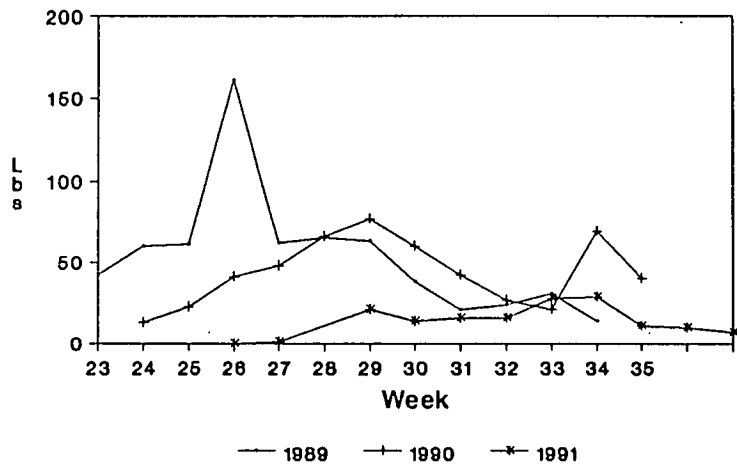
Gillnets



Trawl and Handline

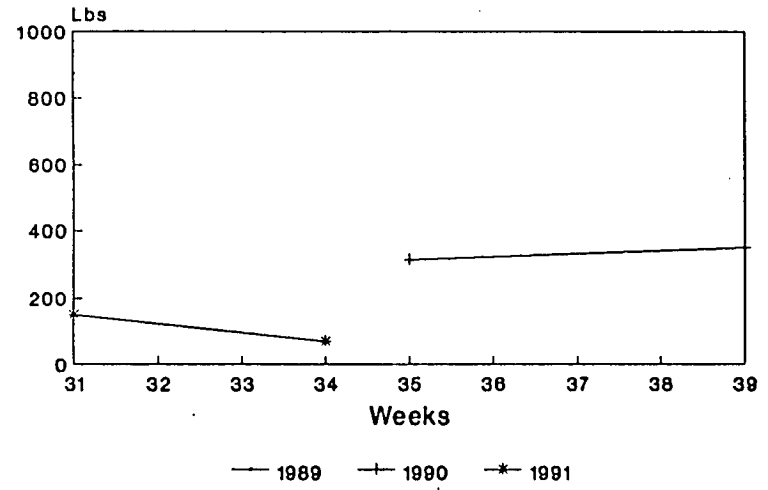
Figure 60. 3L jb: Torbay to Cape Spear.

3L jc

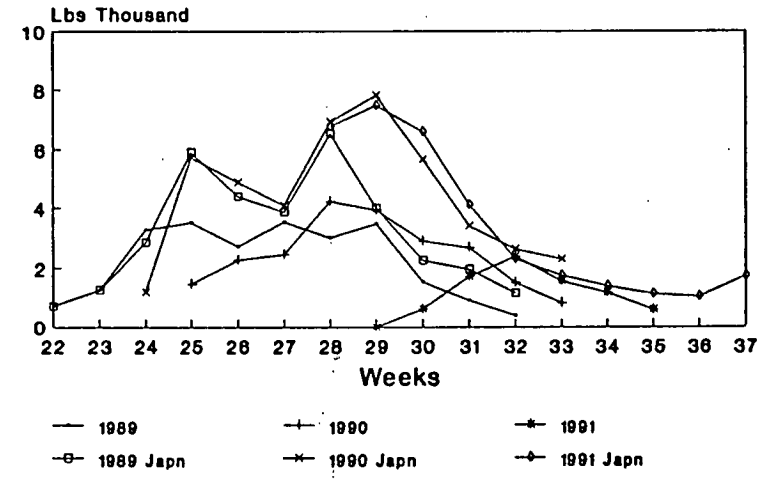


Gillnets

Trawl and Handline



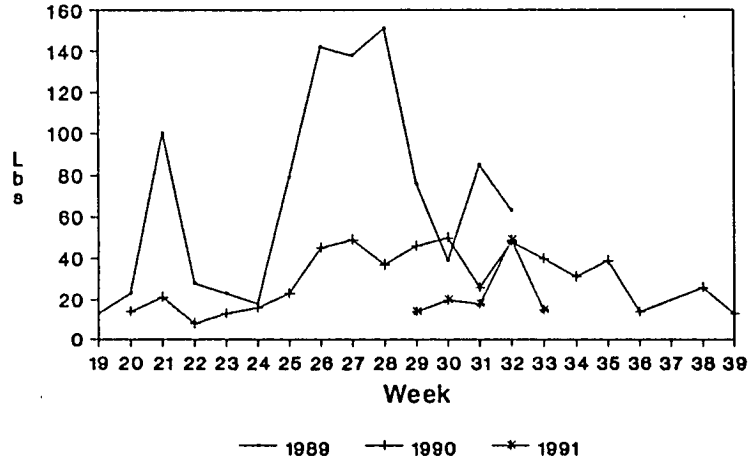
Jigger



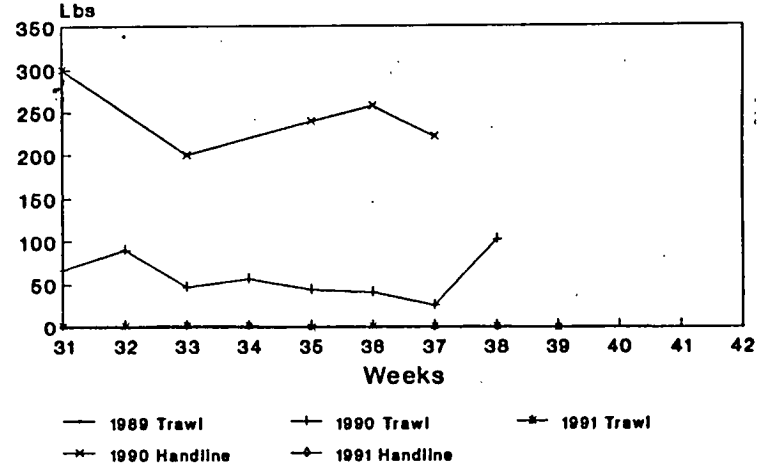
Traps

Figure 61. 3L jc: Cape Spear to Mobile Point.

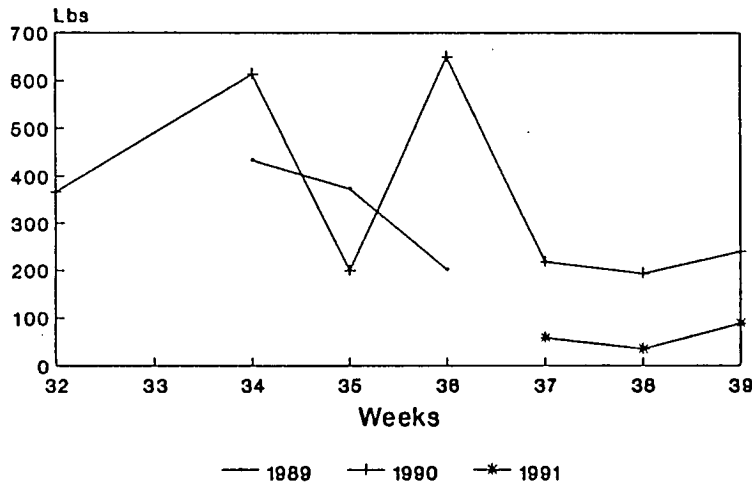
3L jd



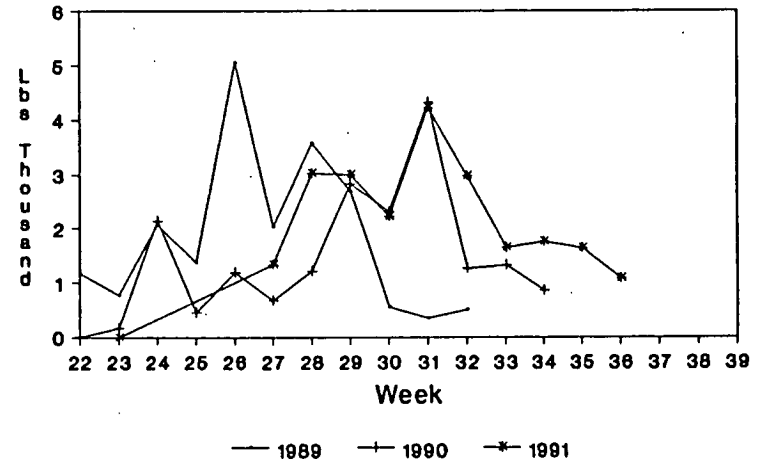
Gillnets



Trawl and Handline



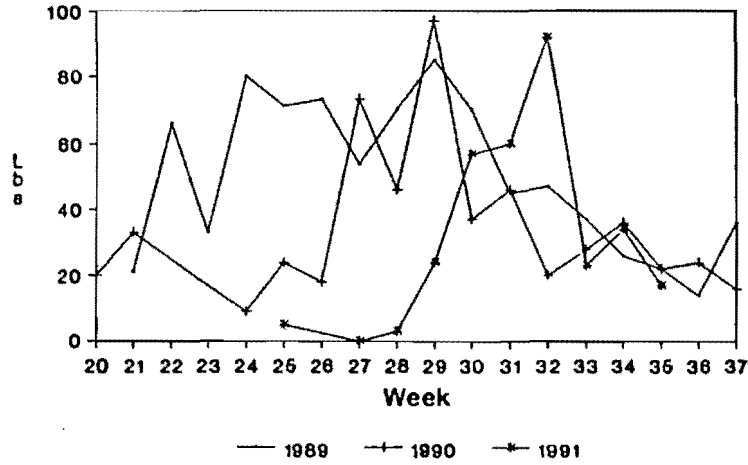
Jigger



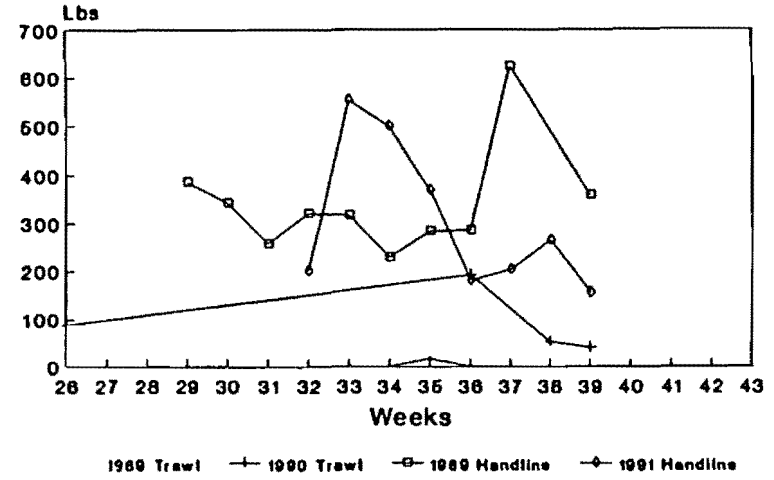
Traps

Figure 62. 3L jd: Mobile Point to Cape Broyle.

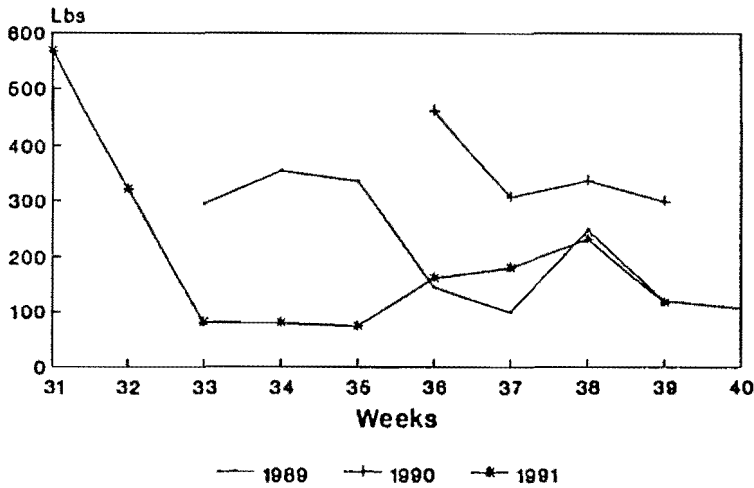
3L je



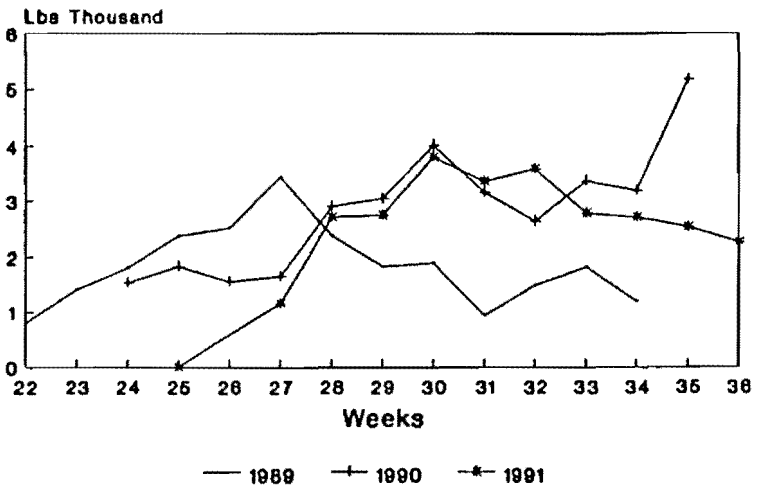
Gillnets



Trawl and Handline



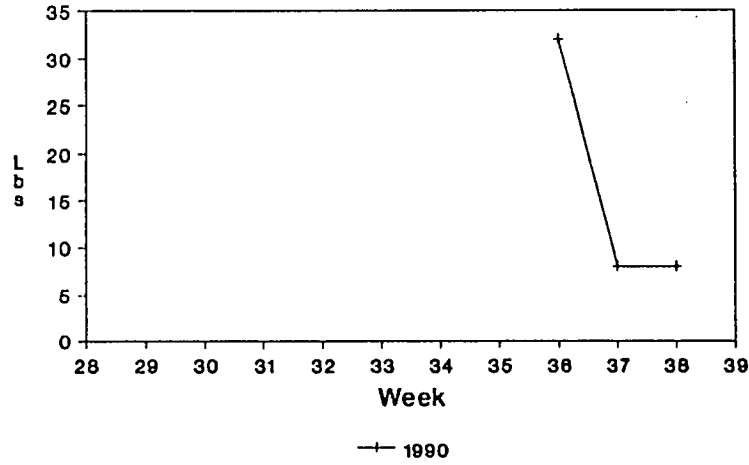
Jigger



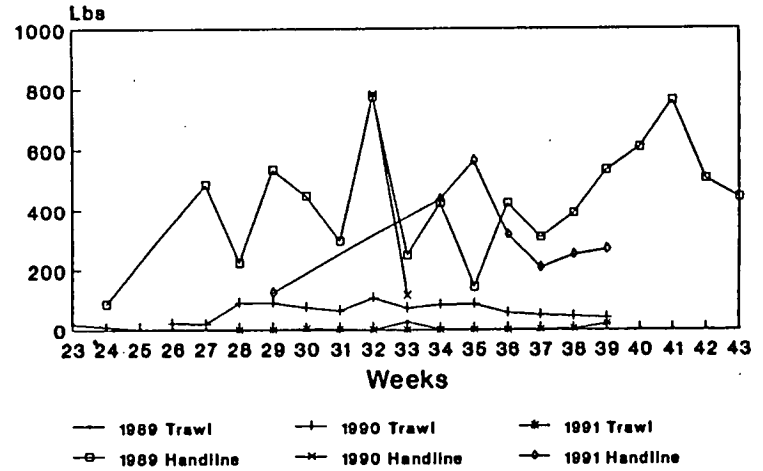
Trep

Figure 63. 3L je: Cape Broyle to Renew's Head.

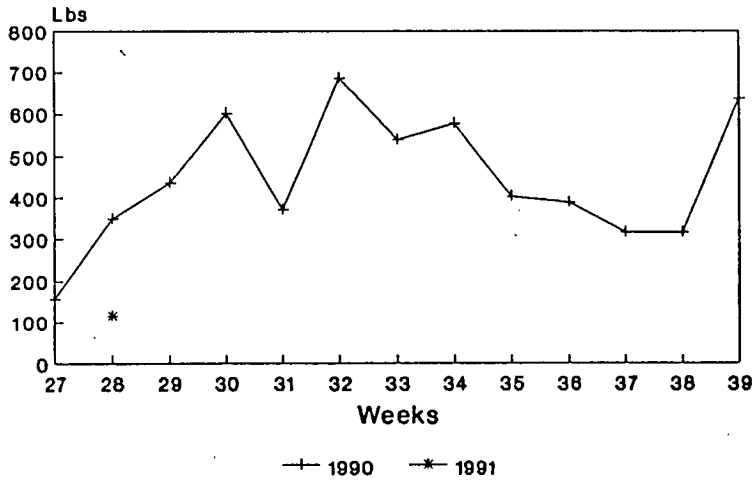
3L jf



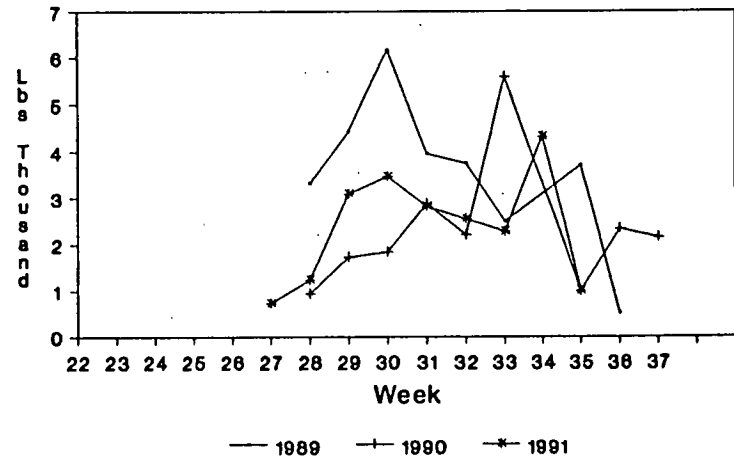
Gillnets



Trawl and Handline



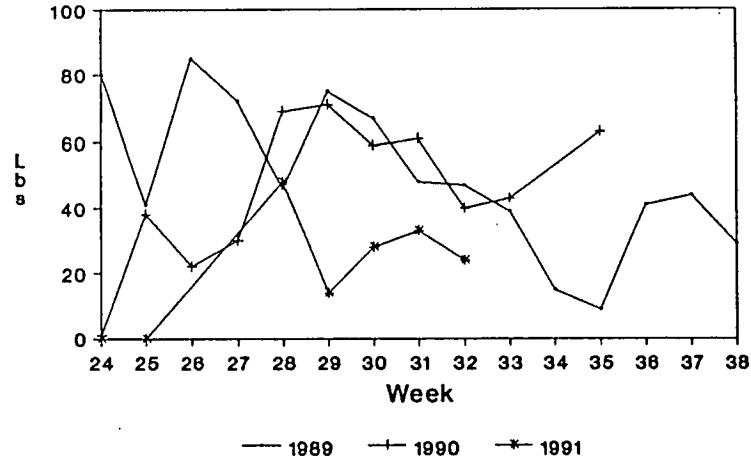
Jigger



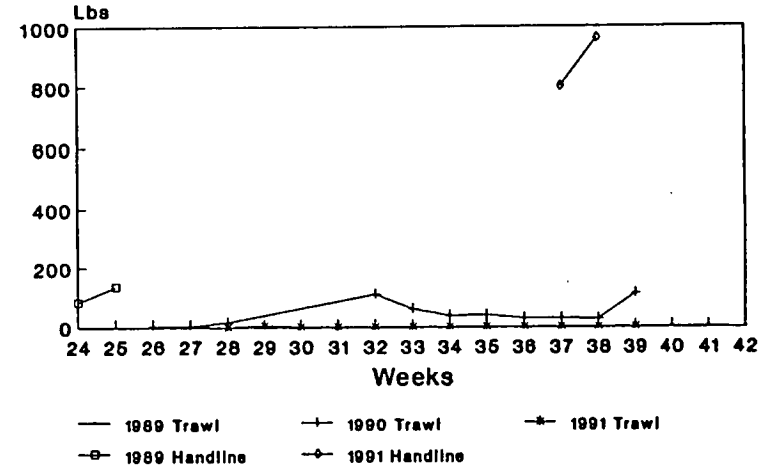
Traps

Figure 64. 3L jf: Renew's Head to Cape Race.

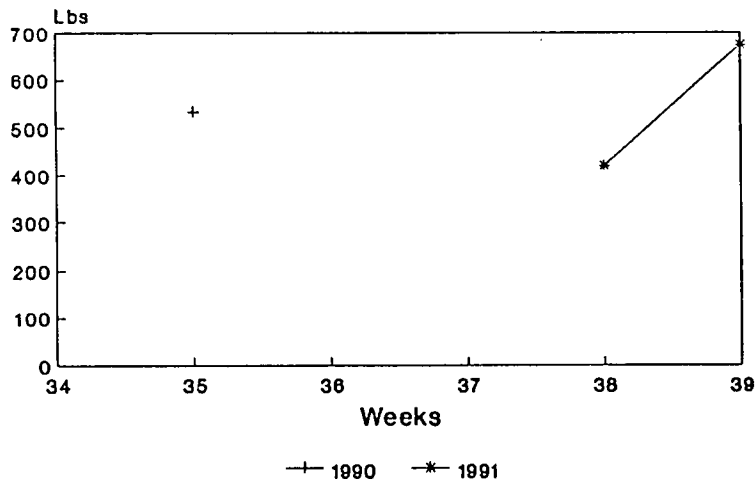
3L qa



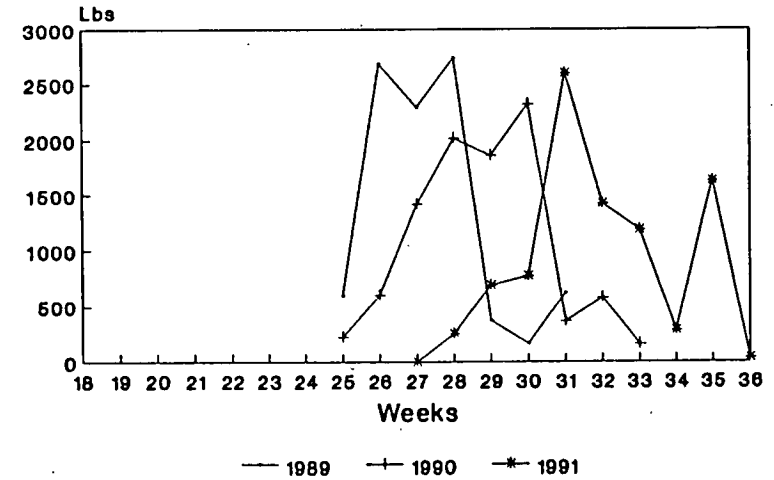
Gillnets



Trawl and Handline



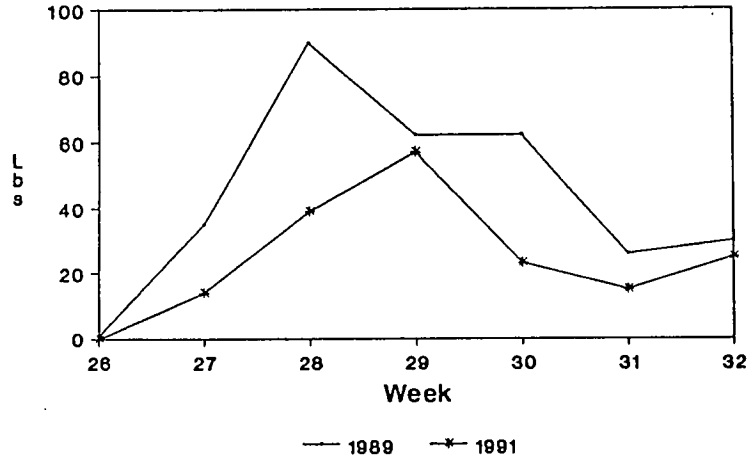
Jigger



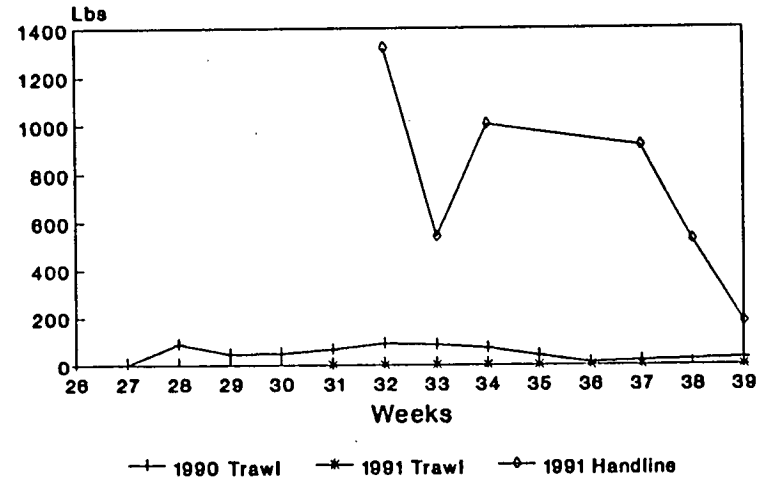
Traps

Figure 65. 3L qa: Cape Race to Cape Mutton, St. Mary's Bay.

3L qb



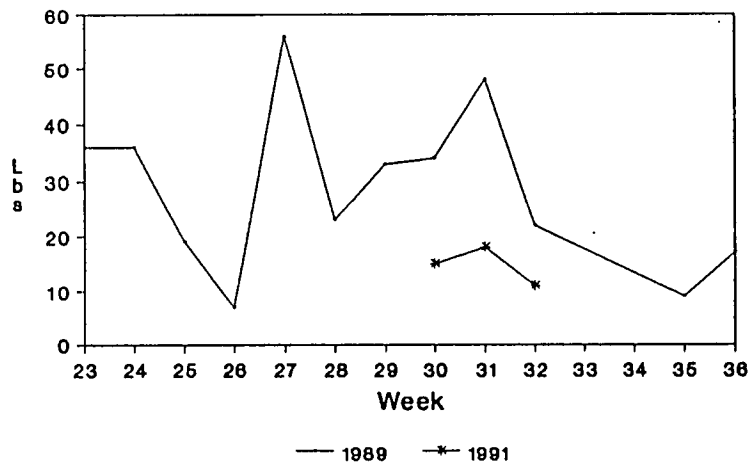
Gillnets



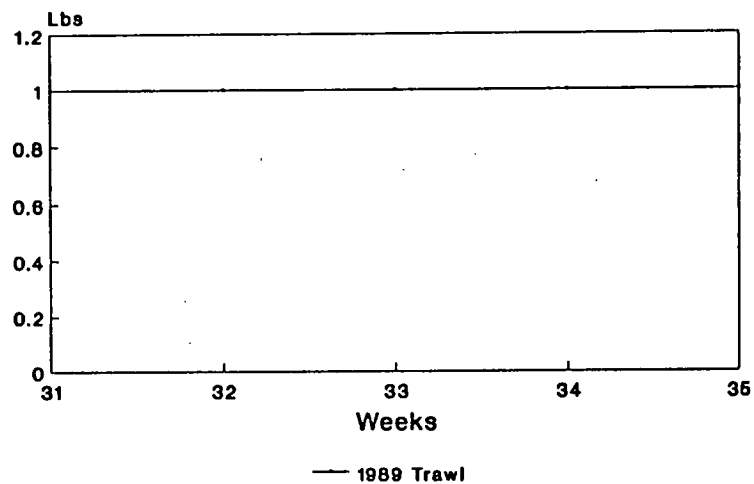
Trawl and Handline

Figure 66. 3L qb: Cape Mutton to Cape Pine, St. Mary's Bay.

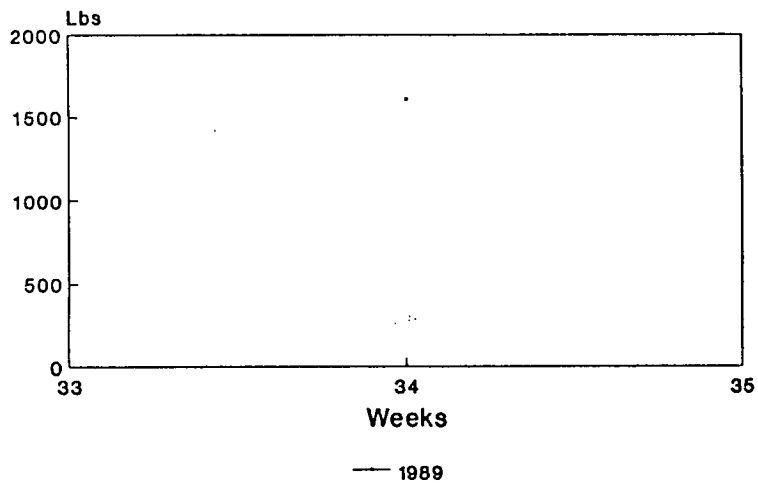
3L qc



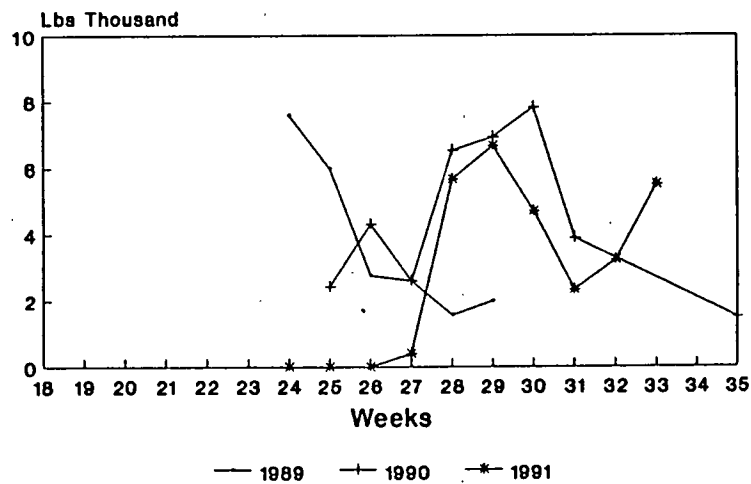
Gillnets



Trawl and Handline



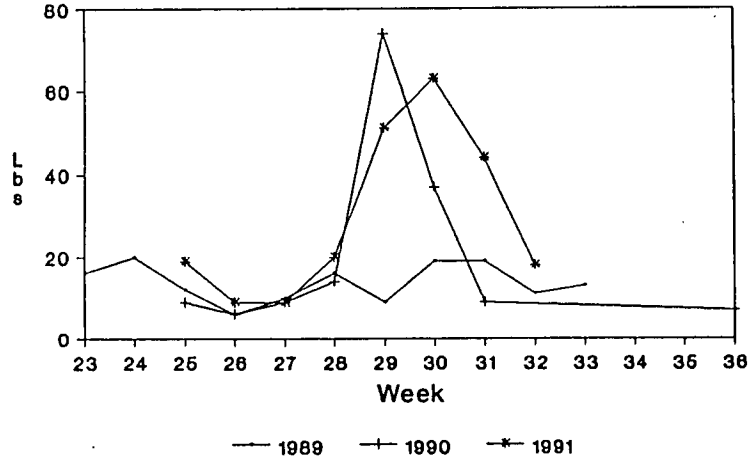
Jigger



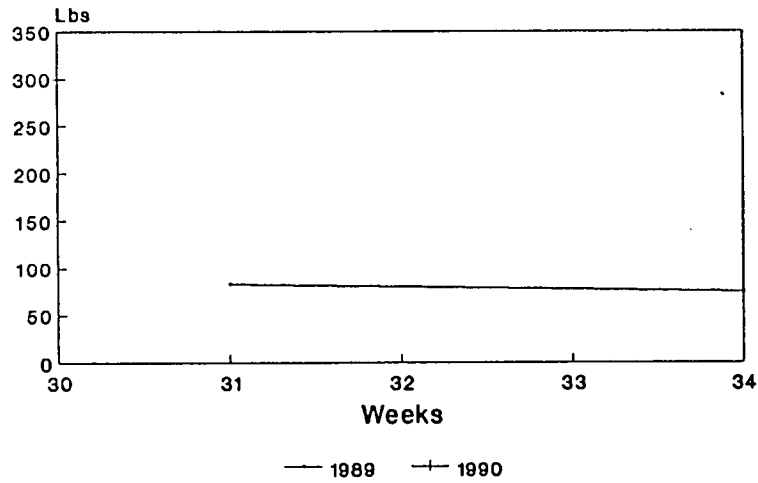
Traps

Figure 67. 3L qc: Cape Pine to Cape English, St. Mary's Bay.

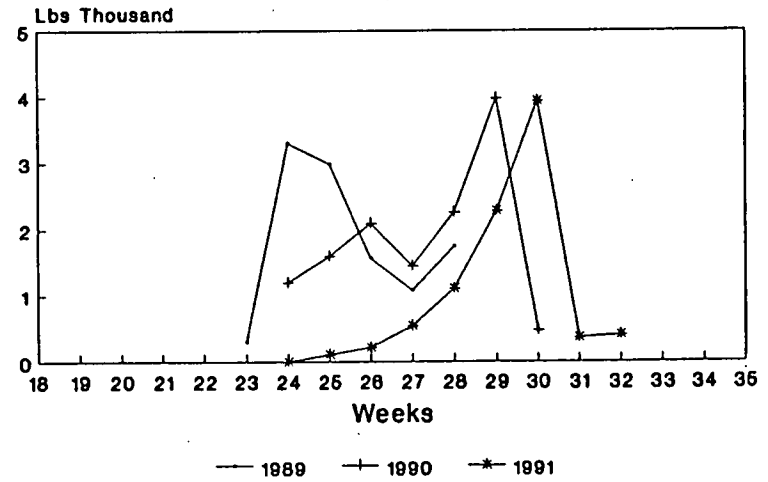
3L qd



Gillnets



Jigger



Traps

Figure 68. 3L qd: Cape English to Red Head, St. Mary's Bay.