

Northwest Atlantic



Fisheries Organization

Serial No. N637

NAFO/FC Doc 82/IX/12

NAFO New Mesh Size Regulations.
Aspects of the Problem of their Formulation.
Suggestion for a Solution.

This document, although a Fisheries Commission document, is of LIMITED DISTRIBUTION.

Contracting Parties, have to consider, under the terms of Article XII, one by one, each of the Commission's proposals which will become "in toto", after approval, NAFO Conservation and Enforcement Measures.

Before they consider Schedule IV of Part V of those proposed Measures, they need to realize the reasons why that Schedule was revised in accordance with the intention of the Canadian proposal on the subject, which was agreed at the last Annual Meeting.

That is the purpose of this document and justifies its LIMITED DISTRIBUTION.

A handwritten signature in dark ink, appearing to read 'J. C. Esteves Cardoso', is written over a horizontal line.

J. C. Esteves Cardoso
Executive Secretary

JCEC:bjc

Encl.

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A. INTRODUCTION

The Canadian delegation at the last Fisheries Commission Annual Meeting called attention to the fact that the mesh size regulations stipulated by Schedule IV of Part V of the Conservation and Enforcement Measures did not coincide with the regulations in effect in ICNAF at the time of entry into force of the NAFO Convention. As a result of this intervention, the Commission decided not to approve that Schedule nor the mesh size regulations on page 5 of FC Doc 82/VI/1, until such time as the Commission will approve an appropriate text proposed by STACTIC. Meanwhile mesh size regulations shall continue to be those which applied when the NAFO Convention came into force, i.e., those in ICNAF Doc 78/VI/1.

The Chairman of the Working Group which elaborated the text of the new Conservation and Enforcement Measures, during three long years starting on 4 September 1979, feels it is his duty to point out all the aspects of the question, with the intention of avoiding a vacuum or a dilemma before the Commission has the opportunity of approving a new text.

Representatives should be very clear of what were the mesh size ICNAF regulations stipulated in ICNAF Doc 78/VI/1, what are the NAFO mesh size regulations already approved by the Commission previous to the 4th Annual Meeting, the reasons behind the present form of Schedule IV and the consequences of the decisions taken at the 4th Annual Meeting and before.

The present paper will try to give and document all that information.

B. ICNAF MESH SIZE REGULATIONS IN
ICNAF COMM DOC 78/VI/1

The regulations on mesh size effective in ICNAF at the time the NAFO Convention entered into force and that, consequently, under the terms of Article XXIII of this Convention, became measures binding on each Contracting Party with respect to the Regulatory Area, are those found under title 1. "MESH SIZE REGULATIONS", pages 3 to 6 of ICNAF Comm Doc 78/VI/1, Serial No. 5737, and title 10. "AUTHORIZED MESH SIZE DIFFERENTIALS FOR DIFFERENT MESH MATERIALS", page 63 of the same Comm.Doc. (See Annex 1)

The minimum mesh size defined as applicable to the codend while trawling for several groundfish species is 130 mm related to manila twine netting. These regulations have to be complied with in Subareas 1,2,3, 4,5 and 6.

For northern deepwater prawn in Subarea 1 the minimum mesh size is 40 mm.

For redfish the mesh size of 130 mm does not apply in Divisions 3N, 3O and 3P nor in Subareas 4,5 and 6.

Silver hake in Subarea 4 must not be fished with a mesh of dimensions less than 60 mm.

It must be noted here that on 1st January 1979, the date the NAFO Convention entered into force, ICNAF had no mesh size regulations for squid.

These were proposed by Canada in Subareas 3 and 4 at the ICNAF Tenth Special Meeting, on 8 March 1979. However, they were deferred to the Annual Meeting (See pg 30, Proceedings No. 3, Report of Joint Meetings of Panels 3 and 4, 10 Special Commission Meeting, Serial No. 5737 - Annex 2.)

The Canadian proposal was initially proposed as in ICNAF Comm Doc 79/III/7 (See Annex 3) and, during discussion in the panel, suffered a first revision (See Annex 4-ICNAF Comm Doc 79/III/7 Revised) in which the mesh size became "irrespective of material". During a recess for revision, the proposal took its final form (See ICNAF Comm Doc 79/III/7, 2nd Revision-Annex 5) applying only in Subareas 3 and 4 outside areas under national fisheries jurisdiction.

The Joint Panel reported to the Commission its deferral of the proposal. The proposal appears as Appendix I of that Report (Annex 6 - pg 32 of the Proceedings No. 3 of the Tenth ICNAF Special Meeting). The Report was adopted by the Commission.

The Canadian proposal was then discussed by ICNAF Panel 3 at the June 1979 Annual Meeting (See paragraphs 10 and 12, pgs 51 and 52 Proceedings No. 3, Serial No. 5510-Annex 7) and the Panel agreed to recommend it, applicable only to Subarea 3 obviously (See Appendix 1 of Proceedings No. 3, Serial No. 5510 above-Annex 8).

The Commission approved the recommendation (See paragraph 4 Proceedings No. 7 - Report of the Final Plenary Session, Serial No. 5520-Annex 9) and the Proposal was communicated to all ICNAF Contracting Parties and took effect on 1 January 1980 (See the text of the Proposal as communicated on 13 June 1979 to the Contracting Parties by the Executive Secretary-Annex 10). However this Regulation did not pass into NAFO under the terms of Article XXIII.

At its First Annual Meeting in June 1979, NAFO Fisheries Commission, taking note of the decision taken by ICNAF, agreed on a similar measure. (See paragraph 12, pg 89 of the Proceedings of the 1979 Annual Meeting, Report of the Fisheries Commission-Annex 11). There is a slight contradiction between the text of the Report and the Appendix IV to which it refers (See this Appendix IV in Annex 12). The former refers to Subarea 3 and the latter to the Regulatory Area. However the communication to the Contracting Parties followed the text of Annex 12. Consequently this is the official NAFO text, reflected in Schedule IV, but not in ICNAF Comm Doc 78/VI/1, obviously.

C. RECENT EVOLUTION OF REDFISH MESH SIZE REGULATIONS

In ICNAF, Canada had proposed in June 1978 to suspend the mesh size regulations for Redfish in 3M. (See ICNAF Comm Doc 78/VI/12, Serial No. 5276-Annex 13). This proposal and an interim mesh size of 75 mm (See end of pg 3, paragraph 8, Proceedings No. 5, Report of Meeting of Panel 3, June 78 Annual Meeting, Serial No. 5286-Annex 14) were not acceptable without STACRES advice and finally it was only agreed to wait for STACRES conclusions in relation to the whole of Subareas 2 and 3. (See pg 5, paragraph 15 of Proceedings No. 5 already cited-Annex 15).

The matter was not discussed during 1979 in the Special and Annual Meetings of ICNAF nor in the Inaugural Meeting of NAFO in March 1979. At the June 1979 Annual Meeting of NAFO, it was reported by Canada that the proposal had been withdrawn (See paragraph 11 on pg 89 of Proceedings of Inaugural and Annual Meeting of NAFO, 1979-Annex 11) and that there was no need for further discussion.

It was at the 1st Special Meeting of the Fisheries Commission in March 1980 that Canada came back with a proposal, NAFO/FC Doc 80/III/2, not revised, Serial No. N082, (See Annex 16) in which it was proposed 130 mm minimum mesh size irrespective of material for all groundfish taken by trawl nets in the Regulatory Area except for redfish and silver hake.

The proposal of Canada however was not accepted (See bottom of pg 7 of the Report of 1st Special Meeting of the Fisheries Commission of NAFO, FC Doc 80/IX/7, Serial No. N179-Annex 17). The proposed text is report in Appendix V of the same Report (See Annex 18) and is the same as FC Doc 80/III/2, not revised, above cited.

At the next annual meeting, NAFO Second Annual Meeting in September 1980, Canada returned with FC Doc 80/III/2 Revised (See Annex 19). The revision moved the date of entry into effect to 1 July 1981 and only excluded redfish in 3N0. Previously redfish and silver hake were excluded in all the Regulatory Area.

After some discussion (See paragraph 13, pg 2 of the Report of the Fisheries Commission, 2nd Annual Meeting, September 1980, Serial No. N243-Annex 20), the proposal was not adopted (See paragraph 27, bottom of pg 5 and top of pg 6, *ibidem*-Annex 21) and instead the Commission requested the Scientific Council for advice on mesh size for cod and redfish in 3M (See FC Doc 80/IX/13, Serial No. N239-Annex 22).

This item was kept in the Agenda of the Fisheries Commission for the Third Annual Meeting in September 1981 (See pg 16 in Appendix II of the Report, FC Doc 81/IX/14, Revised, Serial No. N451-Annex 23). It is interesting to note that the item in the Agenda calls attention to Schedule IV, Part V of Conservation and Enforcement Measures in NAFO Regulatory Area, as this Schedule maintained a differential only between manila and all other materials, except for *illex*. Redfish was unregulated outside 3M.

The Chairman of the Commission opened the debate on the issue citing the references in the Agenda and calling the attention of the Commission to the fact that no advice had yet been received from the Scientific Council. As a result of the discussions, the matter was referred to STACTIC (See paragraph 17, bottom of pg 2 and top of pg 3 of the cited Report FC Doc 81/IX/14 Revised-Annex 24).

Unfortunately, no consensus on the subject was achieved in STACTIC and the Commission agreed to defer the discussion until the next annual meeting. (See paragraph 50 at bottom of pg 6, *ibidem*-Annex 25).

Thus the matter was included in the Agenda of the Fisheries Commission for the Annual Meeting of September 1982 (See Appendix II of the corresponding Report, pg 14, FC Doc 82/IX/10, Serial No. N635-Annex 26) and it was discussed in the light of information provided by the delegation of Canada (See FC Doc 82/IX/5, Serial No. N621-Annex 27) and by the Chairman of the Scientific Council, but once again it had to be deferred to the next annual meeting. (See paragraphs 27 to 31 inclusive, pg 4 of the Report FC Doc 82/IX/10, Serial No. N635, already cited-Annex 28).

D. THE ADAPTATION OF ICNAF FISHERY REGULATIONS
TO NAFO CONSERVATION MEASURES

Faced with the task of adapting for NAFO the ICNAF proposals which had been adopted up to the entry into force of the NAFO Convention, the Fisheries Commission decided on the creation of a Working Group which "should review the changes necessary to current ICNAF conservation measures in order to suit them for adoption as regulations of NAFO". It should start its work on 4 September 1979 and present its Report at the NAFO Special Meeting of Fisheries Commission in March 1980. (See paragraph 14 in Annex 11.)

It "should also examine the text of the Scheme of Joint International Enforcement and make recommendations for improvement or simplification of the wording". (*Ibidem*)

The Working Group met as agreed and presented its Report (See FC Doc 80/III/5, Serial No. N095-Annex 29).

If we compare, in the first draft ever of the Conservation and Enforcement Measures for NAFO, which emerged from the first meeting of the Working Group, Schedule IV of Part V (on page 27 of that draft) elaborated in September 1979 (See Annex 30) to the same Schedule as it was presented to the First Special Meeting in March 1980 (on page 27 of Appendix I of their Report above cited-See Annex 29), we come to the conclusion that from the very beginning the Working Group adopted one idea on the question of differentials and kept it unchanged.

The Chairman of the Working Group presented the Report (See Annex 29) and the proposed measures and time was given for a first reading of them. (See bottom of pg 2, Report of NAFO First Special Meeting of the Fishery Commission, March 1980, FC Doc 80/IX/7-Annex 31).

The meeting however decided to consider the report at the next annual meeting, and to request that meanwhile any comments be sent to the Executive Secretary so that in due time STACTIC would consider any problems raised. (See bottom of pg 6 and top of pg 7, FC Doc 80/IX/7-Annex 32).

However with the comments received meanwhile and the comments made during the September 1980 Annual Meeting, the Working Group proposed a new version of the Conservation and Enforcement Measures. However the Schedule IV of Part V remained unaltered. (See pg 31 of FC Doc 81/IX/15, Serial No. N242-Annex 33).

The Report of the Fisheries Commission 2nd Annual Meeting, September 1980, FC Doc 80/IX/16, Revised, Serial No. N243, in its paragraphs 23 and 26 on page 5 (See Annex 34) and paragraph 34 on page 7 (See Annex 35), makes clear which were the difficulties encountered and removed, which those still extant and that the Commission agreed with all other recommendations of the Working Group and all changes that were accepted.

Although "the Commission would be asked to approve a complete edition of Conservation and Enforcement Measures" at the next Special Meeting, it is obvious that measures that had never merited the slightest comment from anyone and remained unaltered from the first moment had been agreed in September 1980.

The corresponding Report of the Working Group is the Appendix IV of the Report of the Annual Meeting already mentioned. (See Annex 36)

The Working Group met again on 30 March 1981 (See its Report, FC Doc 81/IV/3, Revised, Serial No. N284-Annex 37) and presented, to the 2nd Special Meeting, FC Doc 80/IX/15, Revised 31 Mar 81. (See paragraph 15, pg 4 of the Report of the 2nd Special Meeting of the Fisheries Commission, March/April 81, FC Doc 81/IV/4, Revised, Serial No. N286-Annex 38). After the introduction of some more alterations, a new text was presented, FC Doc 81/IV/2, Revised (See Annex 39) which was approved by the Commission on April 2, 1981. (See paragraph 23, pg 6 of above mentioned Report of the 2nd Special Meeting of the Fisheries Commission-Annex 40).

As it had been decided by the Commission at the 2nd Special Meeting, the Measures approved were still not fully complete. They lacked the gear definitions, the introduction of the codes of type of gear and species names to be used in the logbook entries and the drawing of a gauge capable of measuring 60 mm meshes.

The Executive Secretary distributed to the Working Group two documents that should complete the work: a) FC Doc 81/IX/8, Serial No. N385 (See Annex 41) - the Measures with the missing elements indicated above, except the gear definitions.

b) FC Doc 81/IX/9, Serial No. N386 (See Annex 42) - a proposal on gear definitions based on the information received from the Scientific Council.

The Working Group was supposed to meet during the 3rd Annual Meeting in order that the Commission might approve the missing elements. Unfortunately the Working Group was unable to meet and it was decided that the Group would present its firm recommendations at the next annual meeting (See paragraph 53, pg 7 of the Report of the Fisheries Commission, Third Annual Meeting, September 1981, FC Doc 81/IX/14, Revised-Annex 43).

The Group profitted from the time given to make a thorough revision of the whole work and presented to the Fisheries Commission 4th Annual Meeting, September 1982 four documents:

- (a) FC Doc 82/VI/1, Serial No. N572 (See Annex 44) - revised edition of the NAFO Conservation Measures
- (b) FC Doc 82/VI,2, Revised - further studies and possible amendments proposed, for the consideration of STACTIC in due time
- (c) FC Doc 82/VI,3, Revised - explanation of the editorial changes introduced in doc (a)
- (d) FC Doc 82/VI,4, Revised - Report of the June Working Group Meeting

Document (a) was approved by the Commission with two amendments immediately introduced from document (b), except for Schedule IV of Part V and the mesh size regulations on pg 5 of document (a) (See paragraphs 38 and 39 of the Provisional Report of the 4th Annual Meeting of the Fisheries Commission, September 1982, FC Doc 82/IX/10, Serial No. N635-Annex 45).

E. THE ELABORATION OF SCHEDULE IV

If one compares Schedule IV, from Annex 30, dated 8 September 1979 with Schedule IV from FC Doc 82/VI/1 from Annex 44 dated June 1982, one will find that the only substantive differences are:

- (a) Redfish mesh size applies only in 3M and not in all the Regulatory Area.
- (b) References to "wet after use" and "dry before use" were eliminated, as the Rule B2 on pg 5 was changed to specify that measurements must be made with the net wet after use.

Thus, the difference (a) is the only one that remains to be explained and will be explained in the course of this section.

Another point is essential however: How did the Working Group transform the mesh size rules as they were in ICNAF (See Annex 1) into Schedule IV as it appears in Annex 30?

The Group was guided in this conversion by Mr. Sponagle, a retired Canadian Civil Servant who was introduced by the then Executive Secretary as an expert with years of experience in the drafting and amending of National Fishery Regulations, and who during the meeting proved his qualifications and was very helpful.

For that work the Group had to establish previously a few guidelines, as follows:

- 1) The widest area of application for NAFO was the Regulatory Area.
- 2) The rules which applied in ICNAF to Subareas 1,2,5 and 6 had no practical importance and could be dropped as no commercially important fisheries of NAFO regulated species were known in the Regulatory Area in those subareas.
- 3) The important regulated species were those of Subarea 3. It was the automatic copying of all the species of mesh size Rule 1 in Subarea 3 that led to the error of applying 130 mm to all Regulatory Area for Redfish. This was corrected as soon as the exceptions set down in Rule 2 were duly noted. It was then considered that the fishery of Redfish could only be important in 3M and 3LN, but that in 3N was excepted by Rule 2 and that in 3L was of little or no importance outside 200 miles, and being the same stock should also be excepted. Thus only 3M remained.
- 4) It was not forgotten that NAFO had already formulated mesh size measures for squid that did not exist in ICNAF on 1st January 1979. Squid was thus included as being the only species which could be considered important in the Regulatory Area in Subarea 4.
- 5) The species which appeared only in Rule 1 of Subarea 4 and not in 1 of Subarea 3 were considered without interest outside 200 miles. So no mention was made in the Schedule of flounders N.S. and winter flounder, *Pseudopleuronectes americanus* (Walb.) For the same reason and, with the advantage of simplicity and ease of enforcement, one minimum mesh size for the whole trawl net was established for the whole of the Regulatory Area.

The problem of mesh differentials for different materials was known to be difficult to handle. For enforcement efficiency the problem of net materials and their identification had been debated for years both in NEAFC and ICNAF without a simple efficient solution. For enforcement purposes a mesh size specified irrespective of materials is a boon, especially when dealing with man-made fibres. The Canadians in the Working Group in September 1979 knew and informed the Group that Canada had a preference for defining mesh size irrespective of material and that the Canadian delegation was preparing a proposal to NAFO in that direction.

However, it was also known that many Contracting Parties were not yet prepared to accept 130 mm irrespective of material. Thus when the Canadian adviser drew up Schedule IV as it is shown in Annex 30, there was not even a discussion on the matter of differentials.

It must be underlined that the proposed formula, although not entirely coincident with previous ICNAF regulations, was quite within the terms of reference of the Group and even within the letter of ICNAF mesh size regulations.

The Working Group (See Annex 11) "should review the changes necessary to current ICNAF conservation measures in order to suit them for adoption as regulations of NAFO."

Then ICNAF mesh size regulations read: "The Commission may,...., determine the appropriate mesh sizes when trawl nets made of materials other than manila are used..."

It does not read that those appropriate mesh sizes have been established.

One has seen what assumptions the Group did take when tackling the designation of species to be regulated. Those assumptions also changed the ICNAF regulations as they had been, for the sake of simplicity and efficiency of enforcement.

There were always quite a large number of Canadian experts in the Working Group and no one raised any objection, and the Commission would have plenty of opportunity to discuss the problem and decide ultimately.

Thus Schedule IV was presented to the Commission for the first time at the Special Meeting of March 1980 (See Annex 31). But then in order to be able to study the text thoroughly, it was decided to only consider it at the next Annual Meeting, September 1980. (See Annex 32). Meanwhile comments were to be addressed to the Executive Secretary. Many were received including from Canadian authorities, but none on Schedule IV.

In September 1980, the Commission agreed and therefore accepted all parts of the text that were not specifically mentioned as still under discussion. The proposed intention of maintaining the mesh size for manila and manila only, as the standard, with a mesh size irrespective of material for all the other materials, appeared to have been studied and unanimously accepted.

At the next special meeting, as decided by the Commission, the Working Group presented a revised text of the Measures and it was approved by the Commission on 2 April 1981.

F. CONCLUSIONS, COMMENTS AND POSSIBLE SOLUTIONS

It is time to present some conclusions from the facts documented above.

1. If the Commission replaces Mesh Size Regulations B1, B2 and B3, on page 5 of FC Doc 82/VI/1 and Schedule IV on page 35 of the same document by title 1. Mesh Size Regulations, pgs 1 to 7 and title 10., pg 63 of ICNAF Comm Doc 78/VI/1, the following consequences will ensue during a period which will last at least until September 1983:

- (a) Strictly speaking, the Commission will have suspended the rule on minimum mesh size for the squid fishery.
- (b) The operation of Schedule V of the Measures will also be eliminated, since there will not be any reference to it in the applicable Regulations.
- (c) There will be a repetition of rules on chafers, worded differently though, which might make them confusing or even disputable in court.

2. The Commission had initially agreed that once the next text of the Measures was agreed, or at least a complete part of it*, it would immediately be applicable.

*The absence of gear definitions, for example, should not impede the application of rules on MANAGEMENT, for instance.

The EEC however, referring to a quota table schedule agreed by the Commission, raised the point that it would be proper to treat the whole question of the new text of the Measures as a set of Proposals subject to the objection procedure.

This was acquiesced when the Executive Secretary in a letter to all Diplomatic Missions dated 20 November 1981 pointed out that although the "work of the Working Group on Conservation and Enforcement Measures for NAFO is of a drafting character" some points, "minor no doubt, like periods to be respected, types of gauges, etc." had indeed altered the substance of the rules.

Consequently the text of the Measures has to be sent to all Contracting Parties to be subject to the objections procedure, within the limits imposed by Article XXIII. Indeed it is the understanding of the undersigned that if the measure to which an objection is lodged is one that has been transferred from ICNAF, "substantia intacta", that objection has to be dealt with as a notice of the intention of the Contracting Party not to be bound by the measure at the end of one year from the date of receipt of the notice (in this case the objection) by the Executive Secretary. (See paragraph 3 of Article XII)

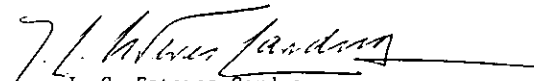
3. As the intention of the intervention of Canada at the last Fisheries Commission Meeting was to maintain today in force the substance of the ICNAF regulations on mesh size differentials at the time of the entry into force of the NAFO Convention and that intention certainly obtained the agreement of the Commission;
As no Contracting Party, even if it would object to both the form of the Canadian proposal (because of the points raised in 1 above) and the formulation about to be explained, could cease to be bound by the rule generally accepted before one year had elapsed after the receipt of its objection (year which had to end a long time after the Annual Meeting of 1983);

the following solution is suggested in the following enclosed Appendix:

When the Conservation and Enforcement Measures will be sent in a few days from now as a set of Proposals, to be accepted or objected to, Schedule IV will appear in a form corrected to be exactly equivalent, as far as mesh differentials are concerned, to the ICNAF Regulations. (See Appendix)

If a Contracting Party could not accept this formula, it would then apply title 1. and title 10. of ICNAF Rules, in accordance with the Canadian proposal at the last Fisheries Commission Meeting, and as it is explained in the IMPORTANT NOTICE on the enclosed Appendix.

The Chairman of the W.G. on Conservation and Enf. Measures


J. C. Esteves Cardoso
Executive Secretary

SCHEDULE IV

Authorized Mesh Size of Nets

Area	Regulated Species	Mesh Size (see Notes 1 and 2 below)
a) Regulatory Area	Atlantic cod, <i>Gadus morhua</i> L. Atlantic haddock, <i>Melanogrammus aeglefinus</i> (L.) Atlantic halibut, <i>Hippoglossus hippoglossus</i> (L.) Witch, <i>Glyptocephalus cynoglossus</i> (L.) Yellowtail flounder, <i>Limanda ferruginea</i> (Storer) American plaice, <i>Hippoglossoides platessoides</i> (Fab.) Greenland halibut, <i>Reinhardtius hippoglossoides</i> (Walb.) Pollock (saithe), <i>Pollachius virens</i> (L.) White hake, <i>Urophycis tenuis</i> (Mitch.) Short-finned squid, <i>Illex illecebrosus</i> (LeSueur)	130 mm 60 mm
b) Division 3M	Redfish, <i>Sebastes</i> sp.	130 mm

- NOTES:
1. Other than for short-finned squid, *Illex illecebrosus*, for which mesh sizes are irrespective of the material, these mesh sizes relate to manila twine netting.
 2. When trawl nets or parts thereof made of materials other than manila are used, the appropriate mesh size shall be as shown below:

(a) such part of any trawl net made of hemp, polyamide fibres, or polyester fibres		120 mm
(b) such part of any trawl net made of any other materials		130 mm
 3. When seine nets are used 110 mm

IMPORTANT NOTICE: This Schedule IV has not been approved at the 4th Annual Meeting. If you cannot accept it, apply in its place and of NAFO Measure B2 on page 5 the following rules: ICNAF title 1. Mesh Size Regulations (ICNAF Comm. Doc. 78/VI/1) Subarea 1 (pg 3) Subarea 2 and Subarea 3 (pg 4) Subarea 4 and Silver hake-Subarea 4 (pg 5 and 6) Subareas 5 and 6 (pg 6) and ICNAF title 10. Authorized Mesh Size Differentials for Different Mesh Materials (pg 63).

