To All Interested Government Agencies and Public Groups:
Under the National Environmental Policy Act, an environmental review has been performed on the following action.

TITLE: Environmental Assessment of a Regulatory Amendment to Increase Pacific Halibut Quota Share Use Limits

LOCATION: Bering Sea and Aleutian Islands
SUMMARY: This action would increase Pacific halibut quota share (QS) use limits for $Q S$ holders in the Individual Fishing Quota (IFQ) program in Regulatory Area 4 in the Bering Sea and Aleutian Islands. By increasing the personal use limit from one-half percent to one and one-half percent, current QS holders would be allowed to increase their QS and provide an incentive to harvest halibut in remote areas of the western Bering Sea. The intended effect is to improve profits for $I F Q$ halibut fishermen operating in Area 4.

RESPONSIBLE Steven Pennoyer
OFFICIAL: Administrator
Alaska Region
National Marine Fisheries Service 709 West 9th Street
Juneau, AK 99801
Telephone: 907-586-7221
The environmental review process led us to conclude that this action will not have a significant impact on the environment. Therefore, an environmental impact statement was not prepared. A copy of the finding of no significant impact, including the environmental assessment, is enclosed for your information. Also please send one copy of your comment to me in Room 5805. OP/SP, U.S. Department of Commerce, Washington, D.C. 20230.

Sincerely,


Donna Wieting
Acting Director, Office of Ecology and Conservation

Enclosure

# ENVIRONMENTAL ASSESSMENT/REGULATORY IMPACT REVIEW/ INITIAL REGULATORY FLEXIBILITY ANALYSIS 

FOR
A REGULATORY AMENDMENT TO
INCREASE PACIFIC HALIBUT QUOTA SHARE USE LIMITS IN THE BERING SEA/ALEUTIAN ISLANDS

Prepared by
Staff
North Pacific Fishery Management Council

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## EXECUTIVE SUMMARY

At its January 1996 meeting, the North Pacific Fishery Management Council (Council) initiated an analysis to increase halibut use limits for QS holders in the Bering Sea/Aleutian Islands (Area 4). Current regulations stipulate that halibut Area 4 use limits may not exceed $1 / 2$ percent of the total arnount of halibut QS for IFQ regulatory areas 4A, 4B, 4C, 4D, and 4E, combined. QS holders are allowed to harvest the QS received during initial issuance, however, second generation QS holders may not exceed the $1 / 2$ percent limit.

The use limit was created to address concerns that an unrestricted market for QS could result in a few powerful interests controlling most of the landings and result in excessive decreases in the number of vessels and fishernen participating in the fixed gear halibut fishery. The $1 / 2$ percent limit limits consolidation to a theoretical minimum of 200 participants. The block limit and vessel category restrictions make the maximum consolidation unlikely,

The status quo QS use limit of 165,015 units converted to 1996 IFQ pounds for each Area 4 subarea is listed at right for each of the alternatives. Industry has reported that the $1 / 2$ percent limit is insufficient to justify the expense of traveling to remote areas in the Bering Sea and western Aleutian Islands to harvest halibut and does not adequately allow initial issuees to harvest in a manner consistent with their historic participation in the fishery.

The 1996 QS pool totals $33,002,937$ QS units for Area 4. The $1 / 2$ percent limit for all of Area 4 limits QS holders to 165,015 units. The limit amounted to $26,500 \mathrm{lb}$ based on combined Area 41994 TACs and $23,610 \mathrm{lb}$ based on 1995 and 1996 TACs. Most QS, however, is discributed among multiple areas, further exacerbating the effects of low use limits on the distances needed to travel to remote fishing grounds.

## MANAGEMENT ACTION ALTERNATIVES

Alternative 1. Status quo. Halibut QS use will be limited to $1 / 2$ percent of the total amount of halibut QS for IFQ regulatory areas $4 \mathrm{~A}, 4 \mathrm{~B}, 4 \mathrm{C}, 4 \mathrm{D}$, and 4 E , combined.

Alternative 2. Increase Halibut QS use of the total amount of halibut QS for IFQ regulatory areas $4 \mathrm{~A}, \mathrm{4B}, 4 \mathrm{C}, 4 \mathrm{D}$, and 4 E , combined to:

Option A. 1.0 percent;

## (Preferted) Option B. 1.5 percent;

Option C. 2.0 percent.
The Council's preferred Alternative 2, Option B would allow 45 QS holders (9\% of the total) to increase their QS to the preferred limit of $1 / 2$ percent, or 495,044 units. Nine persons would remain above

Pounds

| (net wa) |  |  |
| :---: | :---: | :---: |
| Area ${ }^{1} 2 \%$ IFQ |  |  |
| $1 \%$ IFQ |  | 1/2\% IFQ |
| $2 \%$ IFQ |  |  |
| 4 A | 21,573 | 43,146 |
| 32,360 |  | 86,292 | the limit. This alternative would allow the trarsfer of an addicional 7,816,853 QS units to 45 currently limited QS holders to reach this preferred limit. If approved by the Secretary of Commerce, implementing regulations would set the limit at 495,044 QS units.

### 1.0 INTRODUCTION

The groundfish fisheries in the Exclusive Economic Zone (EEZ) ( 3 to 200 miles offshore) in the Bering Sea and Aleutian Islands (BSAI) are managed under the Fishery Management Ptan (FMP) for the Groundfish Fisheries of the Bering Sea and Aleutian Islands Area. The FMP was prepared by the North Pacific Fishery Management Council (Council) under the Magnuson-Stevens Fishery Conservation and Management Act (Magnuson-Stevens Act). It was approved by the Secrerary of Commerce and became effective in 1982.

Actions taken to amend FMPs or implement other regulations governing the groundfish fisheries must meer the requirements of Federal laws and regulations. In addition to the Magnuson-Stevens Acr, the mosr important of these are the National Environmental Policy Act (NEPA), the Endangered Species Act (ESA), the Marine Mammal Protection Act (MMPA), Executive Order (E.O.) 12866, and the Regulatory Flexibility Act (RFA).

NEPA, E.O. 12366, and the RFA require a description of the purpose of and need for the proposed action as well as a description of alternative actions which may address the problem. This information and impacts on endangered species and marine mammals are included in Section 2. Section 3 contains the Regulatory Impact Review (RIR), which addresses the requirements of both E.O. 12866 and the RFA that economic impacts of the alternatives fot the proposed actions be considered. Section 4 contains the Initial Regulatory Flexibility Analysis (IRFA) required by the RFA which specifically addresses the impacts of the proposed action on small businesses. Section 5 contains the summary and conclusions of the analysis and Section 8 lists the preparer of the analysis.

This Environmental Assessment/Regulatory Impact Review addresses an industry proposal to increase halibut use limits in the Bering Sea/ Aleutian Islands (Halibut Regulatory Area 4).

## 1.I PURPOSE AND NEED FOR ACTION

At its January 1996 meeting, the Council initiated an analysis to increase halibut use limits for QS holders in the Bering Sea/Aleutian Islands (Area 4) regulatory areas (Figure 1). Current regulations stipulate that Area 4 use limits may not exceed $1 / 2$ percent of the total amount of halibut QS for IFQ regulatory areas $4 \mathrm{~A}, 4 \mathrm{~B}, 4 \mathrm{C}, 4 \mathrm{D}$, and $4 E$, combined. QS holders are allowed to harvest the QS received during initial issuance, however, second generation QS holders may not exceed the $1 / 2$ percent limit.

Initial issuees are allowed to exceed the current use limit. They are, however, prohibited from purchasing, leasing,


Figure i. Requatary wen tor me Paefic maibut fishery. holding or otherwise controlling additional
QS or IFQs until that person's QS falls below the limits set forth above, at which time that person would
besubject to the limitations. The $1 / 2$ percent restriction in Area 4 will prevent the consolidation of halibut QS owners from falling below a theoretical minimum of 200 QS holders (1/2 percent X $100 \%=200$ ). Additional block and vessel categories restrictions would not allow consolidation to reach the theoretical minimum.

The status quo QS use limit of 165,015 units converted to 1996 IFQ pounds for each Area 4 subarea is listed for each of the alternatives (Table 1). Industry has reported that the $: / 2$ percent limit is insufficient to justify the expense of traveling to remote areas in the Bering Sea and western Aleutian islands to harvest halibut and does not adequately allow initial issuees to harvest in a manner consistent with their historic participation in the fishery.

The 1996 QS pool totals $33,002,937$ QS units for Area 4. The $1 / 2$ percent limit for all of Area 4 limits QS holders to 165,015 units. The limit amounted to $26,500 \mathrm{lb}$ based on combined Area 41994 TACs and $23,610 \mathrm{ib}$ based on 1995 and 1996 TACs. Most QS, however, is distributed among multiple areas, further exacerbating the effects of low use limits on the distances needed to travel to remote fishing grounds and other IFQ program requirements (e.g., check-in/check-out requirements).

A vessel limit of $1 / 2$ percent for the combined total catch limits for all halibut regulatory areas ( $2 \mathrm{C}-4 \mathrm{E}$ ) is unaffected by the preferred alternative.

### 1.2 MANAGEMENT ACTION ALTERNATIVES

Alternative 1. Status quo. Halibut QS use will be limited to $1 / 2$ percent of the total amount of halibut QS for IFQ regulatory areas $4 \mathrm{~A}, 4 \mathrm{~B}, 4 \mathrm{C}, 4 \mathrm{D}$, and 4 E , combined.

## Alternative 2. Increase Halibut QS use, of the total amount of halibut QS for IFQ regulatory areas

 $4 \mathrm{~A}, \quad 4 \mathrm{~B}, 4 \mathrm{C}, 4 \mathrm{D}$, and 4 E combined, t 0 :Option A. 1.0 percent;

## (Preferred) Option B. 1.5 percent;

Option C. 2.0 percent.

### 1.3 MANAGEMENT BACKGROUND

The Northern Pacific Halibut Act of 1982 (NPHA), P.L. $97-176,16$ U.S.C. 773 c (c) authorizes the regional fishery management councils having authority for the geographic area concerned to develop regulations governing the Pacific halibut catch in U.S. waters, which are in addition to but not in conflict with regulations of the International Pacific Halibut Commission. The halibut IFQ program is implemented by federal regulations under 50 CFR part 676, Limited Access Management of Fisheries off Alaska under authority of the Magnuson-Stevens Fishery Conservation and Management Act of 1975, P. L. 94-265, 16 U.S.C. 1801.

Table 1. IFQs associated with proposed caps.


| $1 \%$ IFQ | $11 / \%$ IFQ |  |
| :--- | :--- | :--- |
| $2 \%$ IFQ |  |  |
| 4 A | 21,573 | 43,146 |
| 32,360 |  | 86,292 |
| 4 B | 32,813 |  |.

The halibut and sablefish IFQ program was implemented under Amendments $15 / 20$ to the groundfish FMPS of Alaska (NPFMC 1992). A history of the Council's actions with respect to Alaska's halibut and sablefish IFQ fisheries is summarized in Amendments 31/35 (Modified Block Amendment) (NPFMC 1994b). Recent amendments to the IFQ program have allowed a
block exemption and one-time transfer of CDQ compensation QS (Amendment 32/36) (NPFMC 1995), prohibited the use of halibut catcher vessel QS on freezer/longline vessels and allowed the freezing of non-IFQ species along with sablefish catcher vessel QS on freezer/longline vessels (Amendment 33/37) (NPFMC 1996a), would extend the Aleutian Islands sablefish season year-round (proposed regulatory amendment) (NPFMC 19966), allow the use of larger catcher vessel QS on smaller vessels (proposed Amendment 42/42) (NPFMC 1996c), and increase the halibut and sablefish sweep-up levels (proposed Amendment 43/43) (NPFMC 1996d).

This section contains the draft Environmental Assessment/Regulatory Impaćt Review/Initial Regulatory Flexibility Analysis (EA/RIR/IRFA) for a regulatory amendment to increase the halibut Area 4 use limits to $11 / 2$ percent. The current $Q S$ use limit was aimed at preventing consolidation of the halibut fishery into too few hands. After lengthy public testimony and Council debate in designing the original halibut IFQ program, the Council considered and rejected limits of 1,2 , and 3 percent of the total combined for all areas. In September 1991, the Council recommended the status qua limit of $1 / 2$ percent. The current halibut QS use restrictions require that unless the amount in excess of the following limits was received in the initial allocation of halibut QS, no person, individually or collectively, may use more than:
(1) 1 percent of the total amount of halibut QS for IFQ regulatory area 2 C :
(2) 1/2 percent of the total amount of halibut QS for IFQ regulatory areas $2 \mathrm{C}, 3 \mathrm{~A}$, and 3 B , combined; and
(3) $1 / 2$ percent of the total amount of halibut $Q S$ for $I F Q$ regulatory areas $4 A, 4 B, 4 C, 4 D$, and $4 E$, combined.

The use limit was created to address concems that an unrestricted market for QS could result in a few powerful interests controlling most of the landings and result in excessive decreases in the number of vessels and fishermen participating in the fixed gear halibut fishery. The $1 / 2$ percent limits consolidation to a theoretical minimum of 200 participants. The block limit and vessel category restrictions make the maximum consolidation unlikely.

In April 1994, industry representatives presented a proposal to relax the Bering Sea halibut use limit to 3 percent (Appendix A). The Council requested NMFS staff to prepare a discussion paper of the issues for the June 1994 Council meeting. Upon review of the discussion paper and a recommendation from the IFQ Industry Implementation Team (Team) to relax the limit, the Council initiated a regulatory amendment to analyze use limits at 1 percent and 2 percent of Bering Sea quotas for second generation ownership of IFQs in the BSAI, but it was not assigned a high priority due to other staff workload.

At its April and November 1995 meetings, the Team reiterated its recommendation to analyze the proposed Bering Sea use limits; the report was presented to the Council in January 1996. At that meeting, the Council requested that staff prepare an analysis for the April 1996 meeting as part of the 1996 IFQ amendment cycle.

The use restrictions are intended to complement restrictions on vessel QS limits and the transfer of QS and IFQs between vessel categories. It would prevent the possibility of the halibut IFQ fishery being conducted from a small number of large vessels and is in response to public concern about excessive consolidation of the fishing fleet under the IFQ program and its socio-economic consequences. Vessel limits and categories that also restrict the use of halibut QS follow. Use limits by area are presented in Figure 2.
(1) No vessel may be used, during any fishing year, to harvest more than one-half percent ( 0.005 ) of the combined total catch limits of halibut for IFQ regulatory areas $2 \mathrm{C}, 3 \mathrm{~A}, 3 \mathrm{~B}$, $4 \mathrm{~A}, 4 \mathrm{~B}, 4 \mathrm{C}, 4 \mathrm{D}$, and 4 E , except that, in IFQ regulatory area $2 C$, no vessel may be used to harvest more than 1 percent ( 0.01 ) of the halibut catch limit for this area; and
(2) No vessel may be used, during any fishing year, to harvest more than 1 percent ( 0.01 ) of the combined fixed gear TAC of sablefish for the Gulf of Alaska and Bering Sea and Aleutian Islands IFQ regulatory areas, except that. in the IFQ regulatory area ease of $140^{\circ}$ west longitude, no vessel may be used to harvest more that 1 percent ( 0.01 ) of the fixed gear TAC of sablefish for this area.

|  | Area | Cap |
| :---: | :---: | :---: |
| Hallbut | 2 | 1\% |
|  | 2C, 3A, 30 | 1/2\% |
|  | 4A, B, C, D, E | 1/2\% |
| Sablefish | Gut of Alatics and ESIAl Fegion | $1 \%$ |
|  | East of 140\% | 1\% |

Figure 2. IFQ use limits by area.
(3) A person who receives an approved IFQ allocation of halibut or sablefish in excess of these limitations may nevertheless catch and retain all of that IFQ with a single vessel. However, two or more persons may not catch and reain their IFQs with one vessel in excess of these limitations.

These restrictions are intended to assure that those directly involved in the fishery benefit from the IFQ program and that the fisheries continue to be dominated by owner/operators. However, increased restraints on QS use increases the opportunity for an individual to control or influence the prosecution of a segment of the fishery. Vessel himits differ from the use limit in that the former applies to the GOA and BSAI combined rather than separate GOA and BSAI personal use limits. Additionally, multiple QS holders may fish aboard a single vessel, so long as the vessel remains under the vessel limit.

Vessel category restrictions further complicate the issue of QS consolidation (Figure 3). Constraints on marketing of QS have been lessened somewhat due to the proposed "Buydown" allowance under Amendment $42 / 42$ which would allow the use of larger catcher vessel QS on smaller vessels (NPFMC 1996c). Since QS cannot be traded from smaller vessel categories to larger vessel categories, separate markets have developed for QS for each vessel class in each area.

Some QS are treated as "restricted" by the NMFS Restricted Access Management (RAM) Division, which administers the IFQ program. IFQs are not assigned to these QS. These restricted QS are, however, included in the calculation of use and vessel limits. Restricted QS include those that were assigned to QS holders in Areas 4B-E, but were not assigned corresponding IFQ due to the Community Development Quota (CDQ) Program under Amendment 30/34(NPFMC 1994a). QS holders in Areas $4 \mathrm{~B}, 4 \mathrm{C}, 4 \mathrm{D}$, and 4 E were compensated for IFQ amounts in those areas assigned to CDQ groups.
They were allocated CDQ compensation QS in Areas $2 C$,

| Verma (mang |  | Cracerwor verux |  |
| :---: | :---: | :---: | :---: |
|  |  | Smamat | nelunt |
| Over $60^{\circ}$ |  | 日 | B |
| $\begin{aligned} & 35^{\prime} \\ & \text { to } \\ & 60^{\prime} \end{aligned}$ | A | $\downarrow$ <br> c | $\underset{c}{\ddagger}$ |
| $\begin{gathered} 0 \\ \text { on } \\ \text { '35 } \end{gathered}$ |  |  | $\downarrow$ |

Figure 3. Vessel category restrictions $3 \mathrm{~A}, 3 \mathrm{~B}$, and 4 A that is treated as unblocked QS as compensation in proportion (but not equal to) to the amount of halibuc QS foregone due to CDQ allocations. For example,
nearly 140,000 QS units were issued to 104 persons in Area 4E ( $100 \%$ CDQ), but no IFQS were assigned to those shares.

Other restricted QS include those that are held in reserve, awaiting the appeals process and those that are legally assigned to an entity through, for example, an inheritance or cour order. While the Secretary of Commerce may not impose a limit on the amount of QS owned, held, or controlled by an entity, a limit on how much of it is used can be imposed.

To prevent the unwitting assignment of QS in excess of the individual limit, in January 1996 the RAM Division conducted a survey of QS holders who are corporations, parnerships, or other types of businesses that are owned by more than one person. The survey requested the identity of each owner of the business and the percentage of use held by each owner. This information is used when reviewing QS transfers and determining whether "persons, individually or collectively" are at the limits. At least two transfers were not granted that would have placed individuals in violation of this provision.

Proposed Amendment $43 / 43$ is not expected to have an effect on Area 4 QS holders wishing to increase their holdings above the use limit. Blocked QS less than $3,000 \mathrm{lb}$ (the new halibur sweep-up limit) are held by 125 persons. Much of these, however, are held in Area 4 E where no IFQs are assigned to these shares because this area is $100 \%$ CDQ. Additionally, due to the two block limit these small QS blocks are not desirable to QS holders wishing to increase their holdings.

The theoretical maximum consolidation under the preferred alternative is unlikely to occur due to the constraints placed upon QS transfers and consolidation by the Block Program and vessel category restrictions. Calculating theoretical consolidation scenarios does not predict potential consolidation behavior.

### 2.0. NEPA REQUIREMENTS: ENVIRONMENTAL IMPACTS OF THE ALTERNATIVES

An environmental assessment (EA) is required by the National Environmental Policy Act of 1969 (NEPA) to determine whether the action considered will result in significant impact on the human environment. If the action is determined not to be significant based on an analysis of relevant considerations, the EA and resulting finding of no significant impact (FONSI) would be the final environmental documents required by NEPA. An environmental impact statement (EIS) must be prepared for major Federal actions significantly affecting the human environment.

An EA must include a brief discussion of the need for the proposal, the alternatives considered, the environmental impacts of the proposed action and the alternatives, and a list of docurnent preparers. The purpose and altematives are discussed in Sections 2.1, 2.2,3.1 and 3.2. Sections 2.4 and 3.4 contain a discussion of the environmental impacts of the alternatives. Section 5 contains the summary and conclusions of the analysis. The list of preparers is in Section 8.

The environmental impacts generally associated with fishery management actions are effects resulting from (1) harvest of fish stocks which may result in changes in food availability to predators and scavengers, changes in the population structure of target fish stocks, and changes in the marine ecosystem community structure; (2) changes in the physical and biological structure of the marine
environment as a result of fishing practices, e.g., effects of gear use and fish processing discards; and (3) entanglement/entrapment of non-target organisms in active or inactive fishing gear.

### 2.1 Impacts on Endangered or Threatened Species

Endangered and threatened species under the ESA that may be present in the Bering Sea include:

## Endangered

Northern right whale
Sei whale
Blue whale
Fin whale
Humpback whale
Sperm whale
Snake River sockeye salmon
Shor-tailed albatross

Steller sea lion
Snake River spring and summer chinook salmon
Snake River fall chinook salmon
Spectacled eider

## Threatened

Balaena glacialis
Balaenoptera borealis
Balaenoptera musculus
Baleanoptera physalus
Megaptera novaeangliae
Physeter macrocephalus
Oncorhynchus nerka
Diomedea albarrus

Eumeropias jubarus
Oncorhynchus tshawytscha
Oncorhynchus tshawyischa
Somateria fischeri

Steller sea lion population west of $144^{\circ} \mathrm{W}$. longitude are currently undergoing recalssification to "endangered species" status. The "threatened" status of eastern Gulf of Alaska populations will be maincained.

None of the alternatives for either management action is expected to have a significant impact on endangered or threatened species or their critical habitats in any manner not previously considered and addressed.

### 2.2 Marine Mammals

As with salmon and seabirds listed under the ESA, fishing activities under this proposed action are not likely to impact the threatened Steller sea lion (Eumetopias jubatus), in a manner, or to an extent, not previously considered in informal Section 7 consultations for 1994 groundfish fisheries (NMFS 1994b, c). The $10-\mathrm{nm}$ annual trawl exclusion areas around Steller sea lion rookeries would be in place regardless of which alternative is chosen. These create refuges where no trawling can occur in areas important for sea lion breeding and foraging.

Other listed marine mammals include the endangered fin whale (Balaenoptera physalus), sei whale (Balaenoptera borealis), humpback whale (Megaptera novaeangliae), and sperm whale (Physeter carodon). None of these species are anticipated to be adversely affected by this amendment because total harvests and overall fishing efforr would not change. The impacts of listed marine mammals is further detailed in the EA/RIRIRFA for Amendments 31/35 (Block Program) (NPFMC 1994). Neither of the alternatives is expected to adversely affect marine mammals.
2.3 Impacts on Marine Mammals not listed under the ESA

Marine mammals not listed under the ESA that may be present in the BSAI or GOA include cetaceans, [minke whale (Balaenoptera acutorostrata), killer whale (Orcinus orca), Dall's porpoise (Phocoenoides dali), harbor porpoise (Phocoena phocoena), Pacific.white-sided dolphin (Lagenorhynchus obliquidens), and the beaked whales (e.g., Berardius bairdii and Mesoplodon spp.)] as well as pinnipeds [northern fur seals (Callorhinus ursinus), and Pacific harbor seals (Phoca vitulina)] and the sea otter (Enhydra iutris). A list of species and detailed discussion regarding life history and potential impacts of the 1995 groundfish fisheries of the BSAI and GOA on those species can be found in an EA conducted on the 1995 Total Allowable Catch Specifications for the GOA and BSAI (NMFS 1994a). Neither of the alternatives are expected to adversely affect any listed or candidate marine mammals in a manner not already considered in previous consultations.

## 2.4 <br> Coastal Zone Management Act

Each of the alternatives would be conducted in a manner consistent, to the maximum extent practicable, with the Alaska Coastal Zone Management Program within the meaning of Section 307(c)(1) of the Coastal Zone Management Act of 1972 and its implementing regulations.

### 2.5 FINDING OF NO SIGNIFICANT IMPACT

None of the alternatives is likely to significantly affect the quality of the human environment; preparation of an environmental impact statement for selection of any of the alternatives as the proposed action would not be required by section 102(2)(C) of the National Environmental Policy Act or its implementing regulations.


### 3.0 REGULATORY IMPACT REVIEW: ECONOMIC AND SOCIOECONOMIC IMPACTS OF THE ALTERNATIVES

This section provides information about the economic and socioeconomic impacts of the alternatives including identification of the individuals or groups that may be affected by the action, the nature of these impacts, quantification of the economic impacts if possible, and discussion of the trade offs between qualitative and quantitative benefits and costs.

The requirements for all regulatory actions specified in E.O. 12866 are summarized in the following statement from the order:

- In deciding whether and how to regulate, agencies should assess all costs and benefits of available regulatory alternatives, including the altemative of not regulating. Costs and benefits shall be understood to include both quantifiable measures (to the fullest extent that these can be usefully estimated) and qualitative measures of costs and benefits that are difficult to quantify, but nevertheless essential to consider. Further, in choosing among alternative regulatory approaches, agencies should select those approaches that maximize net benefits (including potential economic, environment, public health and safety, and other advantages; distributive impacts; and equity), unless a statute requires another regulatory approach.

This section also addresses the requirements of both E.O. 12866 and the Regulatory Flexibility Act to provide adequate information to determine whether an action is "significant" under E.O. 12866 or will result in "significant" impacts on small entities under the RFA.
E. O. 12866 requires that the Office of Management and Budget review proposed regulatory programs that are considered to be "significant." A "significant regulatory action" is one that is likely to:
(1) Have an annual effect on the economy of $\$ 100$ million or more or adversely affect in a material way the economy, a sector of the economy, productivity, competition, jobs, the environment, public health or safety, or Sate, local, or tribal governments or communities;
(2) Create a serious inconsistency or otherwise interfere with an action taken or planned by another agency;
(3) Macerially alter the budgetary impact of entitlements, grants, user fees, or loan programs or the rights and obligations of recipients thereof; or
(4) Raise novel legal or policy issues arising out of legal mandates, the President's priorities, or the principles set forth in this Executive Order.

A regulatory program is "economically significant" if it is likely to result in the effects described above. The RIR is designed to provide information to determine whether the proposed reguiation is likely to be "economically significant."

### 3.1 IDENTIFICATION OF THE INDIVIDUALS OR GROUPS THAT MAY BE AFFECTED BY THE PROPOSED ACTION

A total of 513 QS holders in 1996 were issued nearly 32 million halibut QS units in Area 4. A total of 226 persons landed IFQ halibut in 1995 on 167 vessels. Assuming that 1995 and 1996 IFQ recipients are nearly the same, fewer than half of Area 4 QS recipients fished their IFQs. Fifty-nine persons fished their IFQs on another QS holder's vessel, $75 \%$ of these occurred in Area 4A. Appendix B lists all 513 QS holders who may be

Table 2. 1996 Area 4.QS holders and 1995 panticipants.

Area QS holders QS units Persons
Yessels

| 4 A | 469 | $14,138,442$ | 185 |
| :---: | :---: | :---: | :---: |
| 141 |  |  |  |
| 4 B | 143 | $9,068,548$ | 61 |

$4 B \quad 143 \quad 9,068,548 \quad 61$ affected by the proposed action and the QS that would be required to meet the preferred alternative use limit and the options rejected by the Council.

Analysis of RAM data indicates that under the starus quo, 54 of the 513 Area 4 QS recipients (11\%) exceeded the individual use limit in 1996. Table 3 lists the distribution of QS units for these 54 QS holders and the QS units required to meet the proposed alternative use limits. These QS holders have
been "grandfathered" as initial issuees and are allowed to use their entire QS; however, under the status quo they are unable to increase their holdings above the limit and for 54 persons, above their grandfathered amounts, to make a reportedly viable fishing trip in these remote fishing grounds. They are also currently unable to consolidate their QS holdings into fewer Area 4 subareas without divesting themselves of all QS above the limit; they would then be prohibited from acquiring QS above the limit to return to the level of their initial allocation.

### 3.2 ECONOMIC AND SOCIAL IMPACTS OF THE ALTERNATIVES

The Council intended constraints on QS use to limit QS consolidation and to assure that practicing fishermen remain as the "stock holders" of the halibut resource. This purpose is perceived as important to maintain the current social and economic character of the fixed gear fishery. Use limirs restrict the amount of QS that could be used by any one person. In this case, a person includes all individuals, corporations, partnerships, or other entities. The use limit is calculated by adding QS owned personally, as weil as by any partnership or corporation of which the person is a part.

### 3.2.1 Impacts of Altemative 1-Status Quo

The status quo use limit provisions grandfather the use of initial QS allocations. including QS that exceeds the individual use limit of 165,015 units. The 54 Area 4 QS holders who exceed the current use limit were issued $18,616,778$ QS units, or 56 percent of total Area 4 QS units, exceeding the use limit by 9,705.968 units. Their holdings by area are listed in Table 4. QS holders limited by the status quo range between 26 in Area 4C and 54 in Area 4A.

As described in the analysis for the halibut IFQ program (NPFMC 1991), the use limit was created because the Council was concerned that an unrestricted market for QS could result in a few powerful interests controlling most of the landings. The Council had expressed a desire to maintain a fishery with many diverse participants and one in which harvesters are not dependent on "company store" processors or the monopolizing influence of a few other harvesters. This was to assure that both the initial and ongoing benefits of the IFQ program would be broadly distributed and that the market for QS would be competitive. Market power is the issue underlying both the originally proposed alternarives ( $1,2,3$ percent of the total combined for all areas) and the

$$
\text { Table } 4 .
$$

distributions for individuals exceeding the status quo cap. Area $Q S$ holders $Q S$ units $4 \mathrm{~A} \quad 54$ 6,078,414 $4 B \quad 41$
6,295,733 current alternatives ( $1 / 2,1,1 / 2$ and 2 percent for the BSAI).

One of the original objectives of use limits was to moderate the decline in employment for fishermen. These restrictions were assumed to not have a substantial effect on total employment measured in terms of fishermen days. The analysts noted that restrictions could substantially increase the number of fishermen among whom that employment is shared. However, restrictions could also resuit in the same fishermen fishing on a number of boats during the year. This has happened in the Canadian halibut IVQ fishery. Thus, the number of fishermen can be less than expected given the number of vessels participating in the fishery.

It is not clear, however, that less consolidation would occur in the absence of use limits. Consolidation would occur only if operations that specialize in the halibut fishery are more profitable with respect to using halibut IFQs than are operations that are more diversified. If this is not the case, these restrictions

Table 3．Distribution of wesl halibut $Q S$ units and $Q S$ needed to meet highe Aterrative QS pas for the top 54 QS holder in 1996 who eneor the sand quen

| $\begin{gathered} \text { QS } \\ \text { holder } \end{gathered}$ | TOTAL QS | $\begin{gathered} \text { Siseus Quo } \\ 1 / 2 G_{0}=165.015 \text { OS } \end{gathered}$ | $\begin{aligned} & \text { Alt } 2,0 \text { Opion A } \\ & 1 x_{x}=330.029 \mathrm{QS} \end{aligned}$ | Alt 2，Opion B $28=660.058$ OS |
| :---: | :---: | :---: | :---: | :---: |
| $1)$ | 801．623 |  | M |  |
| 2. | 695.076 | $\stackrel{1}{2}$ | 2． 2.4 .4 | 5，\％ |
| 3 | 667.736 |  |  |  |
| 4 | 661.237 |  | \％ |  |
| 5 | 621.004 | सkN． | 相 | 39，054 |
| 6. | 530,693 | K＊，－ | － | 179365 |
| 7. | 528，080 | \％20．2． | $4 \times 2$ |  |
| 8 | 508.819 |  |  |  |
| 8 |  |  |  | 151.239 |
| 9 | 505．146 | ，\％W \％\％\％\％ | ，\％\％，， | 154．912 |
| 10 | 482.689 | ，人，\％，\％ | 琒， | 177．369 |
| 11. | 469.919 |  | $1$ | 190，139 |
| 12 | 442，096 | N W\％ | \％ | 217.962 |
| 13 | 439，399 | ：N． |  | 220，659 |
| 14 | 413.933 | W2． | $\underset{\sim}{\sim}$ | 246，125 |
| 15 | 389222 | Sx $\times$ Nx | 边 | 270.836 |
| 16 | 366．072 | ，\％，\％ | 20， | 293.986 |
| 17 | 359.682 | ¢ \％\％W－\％\％ | \％\％．$\times 2$. | 300376 |
| 18 | 353，445 |  | －$\rightarrow$－ | 306，613 |
| 19 | 351，942 | M，\％mand | $\xrightarrow{2}$ | 308，116 |
| 20 | 337，708 | ，\％，4 |  | 322.350 |
| 21. | 334，003 |  |  | 326，05s |
| 22 | 332.694 | 4． | $\bigcirc$ | 327，364 |
| 23 | 327.153 | \％$\sim$ \％ | 2.876 | 332，905 |
| 24 | 326.595 | 人\％ | 3.434 | 333，463 |
| 25 | 325，037 |  | 4.992 | 335．021 |
| 26 | 320.752 |  | 9．771 | 339．806 |
| 27 | 319.645 |  | 10.384 | 340.413 |
| 231 | 318.513 | $\cdots 2$ | 11.506 | 341.535 |
| 291 | 312，300 | 20420－2， | 17.729 | 347.758 |
| 30 | 308.910 | $\stackrel{\square}{4}$ | 21.119 | 351．148 |
| 31 | 304．888 |  | 75.1411 | 355.170 |
| 32 | 304．703 | －\％\％\％－－ | 253251 | 355．35s |
| 33 | 286．15！ | maver | 43，873 | 373.907 |
| －4 | 276，370 | $\square$. | 53.6591 | 383.688 |
| 35 | 2695101 |  | 60.519 | 390．5－48 |
| 36 | 268．593 | $\stackrel{\square}{\sim}$ | 61．436 | 391.465 |
| 37 | 257，312 |  | 72.717 | 402.746 |
| 38 | 249.448 |  | 80．58： | 410.610 |
| 39 | 232.662 | 人 4 | 97367 | 427，396 |
| 40 | 231.948 | M，\％\％－－ | 98.081 | 428.110 |
| 41. | 231．541 |  | 98.488 | 428.517 |
| 42 | 226.682 | S | 103，347 | 433.376 |
| 43 | 226．101 |  | 103.978 | 433.957 |
| 4 | 214，816 | －\％\％\％\％＝＝－ | 115.213 | 445.242 |
| 45 | 211.245 |  | 118，784 | ＋48，813 |
| 46. | 210.718 | $3 \mid-2 x+2+2+2$ | 119.311 | 49.340 |
| 47 | 203.957 | ，\％－\％\ll－ | 126.072 | \＄56．101 |
| 48. | 200.171 | $2 \mathrm{~K}, \mathrm{H}$ | 129.852 | 459.881 |
| 49 | 191.931 | ，$=0 . \sim 4 \sim$ | 138，098． | 468.127 |
| 50 | 179．135 |  | 150，894 | 480.923 |
| 51 | 177．162 | ，$\sim \sim \sim 2$ | 152，867 | 482，896 |
| 52 | 175．866 | Nr | 154，163 | 484.197 |
| 53 | 168，105 |  | 161，924 | 491.953 |
| $5-1$ | 167.119 | $1 \sim \sim 2$ | 162.910 | 492.939 |
| TOTAL | 13．616．7781 |  | 2536.3731 | 17.172 .7451 |

The block program and vessel category restrictions further inhibit QS transfers, although proposed revisions to the IFQ program would ease these restrictions. Proposed Amendment $42 / 42$, approved by the Council in January 1996, would allow the use of larger catcher vessel QS on smaller vessels. Proposed Amendment 43/43, approved by the Council in April 1996, would increase the halibut sweep-up levels to $3,000 \mathrm{Ib}$ based on 1996 TACs beginning in the 1997 IFQ season.

The status quo limits the market for QS transfers to potential buyers who may wish to acquire QS above the use limit. The status quo limits the top 54 "grandfathered" Area 4 QS holders from increasing the amount of their currently held QS and from consolidating their holdings into fewer regulatory subareas without having to sell their holdings to below the current limit. They are further prohibited from exceeding the limit once they divest their QS, effectively prohibiting QS holders from trading QS between subareas. The remaining 459 Area 4 QS holders may also be negatively affected should they wish to increase their holdings above the limit in the future or sell their QS because potential buyers are constrained by the limit.

### 3.2.2 Impacts of Alternative 2

An increase in the halibut individual use limit to any Alternative 2 option would incur a net economic gain to the Nation. The Council also considers social factors in choosing its preferred management option. Potential loss of part-time and/or small boat captains and crew may occur from shifting a greater percentage of Area 4 halibut QS to bigger operations. However, this loss would be mitigated if these fishermen did not fish their QS due to the small size of the associated IFQs and remoteness of the Area 4 fishing grounds. Additionally, a small boat fishery may develop if sufficient QS is allowed for use, paricularly in Area 4A.

The Council's preferred option, Alternative 2, Option B, would raise the use limit to 495.044 QS units equivalent to $1 / 2$ percent of 1996 total Area 4 QS unit, to become effective for the 1997 IFQ season. This option allows 504 persons to increase and consolidate their QS to triple the current level and allows 45 persons, who currently exceed the current $1 / 2$ percent limit, an opportunity to increase their QS holdings above their initial allocation. Nine persons, holding 17 percent of the Area 4 QS units, would still be subject to the preferred limit.

Increasing the status quo use limit to $1 / 1 / 2$ percent under Alternative 2, Option B would entail intermediate poundages and QS prices when compared with Options A and C. Options A or B would encourage increased holdings by current QS holders, new encrants, and crew, particularly in Area 4A. However, only large boat operators, who have traditionally fished in Area 4 and hold the majority of shares, may be able to afford large amounts of QS under Option C. Competition for these QS may further drive up their prices.

While increased market prices may benefit current QS holders, higher prices may limit panicipation by small boat operators and crew. Table 5 lists QS market prices for transactions between October 1995 and April 1996 by one QS brokerage. Area 4 blocked QS sold at lower prices compared with nearly all types of QS from Areas 2C, 3A, or 3B. Two smaller Area 4A QS blocks transferred at higher prices than one larger Area 4B block. No transactions occurred for Areas 4C or 4D.

An examination of individual QS holdings in Appendix B indicates that over half (274) of all Area 4 holdings are equivalent to less than $3,000 \mathrm{lb}$ when using the Area 4 average $\mathrm{QS} / \mathrm{IFQ}$ ratio of 6.989 units per lb (Table 6). Thirty-five percent (182) of holdings are equivalent to less than $1,000 \mathrm{lb}$.


Area 4 halibut QS are distributions are further examined by blocked and unblocked holdings (Appendix C). Blocked QS holdings totaling 17,773,810 units are held by 397 QS holders (99 persons hold 140,000 restricted QS units in only Area 4E which are not assigned IFQs) (Table 7). The availability of many, small blocks timits consolidation and maintains small-sized and lower priced QS for entry level purchases by new entrants and crew.

Table 5. Reported prices for halibut and sableñsh QS
transactions (Source: Access Unlimíted, - Iac.).

| Vessel <br> Area <br> Category <br> B/C |  |  |  | Size |
| :--- | :---: | :---: | :---: | :---: |

Unblocked QS tocaling 14,063,230 QS units, including unblocked Area 4A CDQ compensation QS awarded under Amendment 30/34, are held by 198 QS holders (Appendix D). CDQ compensation QS were not issued for Areas 4B-E nor were IFQs issued for Area 4E. Note also that approximately 3.6 million units are being held either in reserve or were issued as restricted QS in Area 4E and are not currently available for consolidation.

This analysis assumes that blocked QS totaling 17.7 million units held by 397 persons will not be available for consolidation under the preferred altemative due to block and vessel category restrictions. Larger blocks may be consolidated. Therefore, blocked QS would be marginally affected by the preferred alternative and the number of blocked QS holders would not be substantially reduced.
The 14 million unblocked QS units in Areas 4A-D held by 198 persons are the likely source of QS for consolidation. The unblocked QS units equal approximately 2.1 million lb of landed halibut. At a repored ex-vessel price of $\$ 2.20 / \mathrm{lb}$, the value of these QS which may be consolidated without vessel and block restrictions exceeds $\$ 4.6$ million. These assets would be transferred among the current pool of QS holders. Since the QS of the 45 persons who would be eligible to increase their holdings are already included within this total, it is uncertain whecher many of these will be transferred.

Unfished permits by area and type of QS indicates the likely pool of QS that could be consolidated by QS holders wisning to increase their holdings (Table 8). The greatest numbers of unused 1995 permits occurred for QS holdings at smaller sizes. Unfished permits for QS tess than $5,000 \mathrm{lb}$ totaled 2.575 of $4,303(60 \%)$ issued for Areas $2 \mathrm{C}-3 \mathrm{~B}$ and 411 of $531(77 \%)$ issued for Areas $4 \mathrm{~A}-\mathrm{D}$. While the total number of unfished permits was greatest in Area $2 \mathrm{C}, 3 \mathrm{~A}$, and 3 B for blocked QS less than $5,000 \mathrm{lb}$, a greater percentage of permits were left cormpletely unfished for similar sized holdings in Area 4. Unblocked 4A ( $94 \%$ ), blocked 4B ( $94 \%$ ), and blocked 4D ( $89 \%$ ) QS exceeded all other areas, except for unblocked 3B ( $96 \%$ ) QS, for totally unfished 1995 permits for QS less than $5,000 \mathrm{lb}$. Areas 4A-D and 3B had the greatest percentages of unfished permits for blocked QS between 5,000 and $10,000 \mathrm{lb}$. At block sizes greater than $10,000 \mathrm{lb}$, unfished permits were rare.

| Table' S Number of 1995 unfished halibut permits by area $\quad$ Page 1 of 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Arcal Blkin |  | Tol | 0 to $5 k$ Unfithol | \% | Tot | 5 to $10 k$ <br> Unfished | \% | Tot | 10 to 19 sk <br> Unfished |  |  | $151020 k$ Unlishal | \% |  | 20 10 254 Unfisheal |  | Tot | 25 to $30 k$ Untisheal | \% |  | 30 10 35k Unlished | \% |  | 5 to 40 k Unlishas | $\%^{\prime}$ |
| 2 C | n | 1268 | 622 | 49 | 240 | 6 | 3 | 100 | 2 | 2 | 6 | . | - | - | - | - | * | - | - | - | * | - | - | - | - |
|  |  | 69 | 9 | 13 | 58 | . | - | 31 | $\cdots$ | - | 15 | - | - | 8 | - |  | 5 | - | - | 6 | - | - | 3 | - | , |
|  | 1 | $24]$ | $1{ }^{1} 2$ | 75 | 8 | - | . | 3 | - | . | 47 | , | - | 22 | - | - | 6 | - | - | 5 | - | - | 3 | - | - |
| 3A | 8 | 1737 | 1117 | 64 | 280 | 18 | 6 | 104 | 2 | 2 | . | - | - | . | - | - | - | - | - | - | - | - | - | - | - |
| 3A | M | 81 | 15 | 19 | 38 | - | - | 34 | - | - | 25 | 1 | 4 | 16 | - | - | 9 | - | - | 4 | - | - | $s$ | - | - |
| 3A | U | 127 | 110 | 87 | 16 | 4 | 25 | 10 | - | - | 70 | 1 | 1 | 61 | * | . | 27 | - | - | 34 | 2 | 6 | 15 | - | - |
| 318 | B | 617 | 382 | 62 | 6 H | 10 | 15 | 31 | 3 | 9 | 11 | - | . | * | - | . | - | * | * | - | - | - | - | - | - |
| 311 | M | 23 | 5 | 22 | 15 | - | . | 9 | - | . | 5 | - | - | 7 | - | - | 3 | * | - | - | - | * | 1 | - | - |
| 311 | U | 138 | 133 | 96 | 1 | - | - | 2 | - | - | 8 | - | * | 8 | - | - | 5 | - | - | 8 | * | - | 1 | - | - |
| 4 A | 0 | 211 | 139 | 66 | 41 | 6 | 15 | 22 | 2 | 9 | 13 | * | - | * | * | - | * | - | - | - | - | - | - | - | . |
| 4A | M | 16 | 5 | 31 | 4 | . | - | 1 | - | - | 4 | - | - | 1 | - | - | - | * | .' | - | - | - | - | - | - |
| 4 A | U | 142 | 133 | 94 | 2 | 1 | 50 | 2 | - | - | 1 | $\cdots$ | - | 8 | $\because$ | - | I | - | - | 1 | * | - | 2 | - | * |
| 41 | 13 | 86 | 62 | 94 | 13 | 17 | 52 | 13 | 3 | 23 | 1 | 1 | 25 | - | . | . | . | : . | - | * | - | - | - | - | + |
| 411 | M | . | . | . | 1 | - | . | - | - | - | 2 | - | - | - | - | - | 1 | - | - | * | - | * | - | - |  |
| 4 H | U | - | - | - | . | - | - | - | - | - | 3 | 1 | 33 | 4 | - | - | 1 | - | - | 3 | 1 | 33 | 2 | - |  |
| 4 C | B | 61 | 41 | 67 | 11 | 2 | 18 | - | - | - | - | . | - | - | - | , | * | - | - | - | - | - | - | * |  |
| 4 C | M | " | - | - | - | - | - | - | - | - | - | - | - | - | * | - | - |  | - | - | $\cdot$ | . | - | - |  |
| 4 C | U | . | . | - | . | - | . | 4 | - | - | 3 | - | - | 2 | - | - | - | - | * | 1 | - | - | - | - | - |
| 4 D | 0 | 35 | 31 | 89 | 19 | 8 | 42 | 5 | - | - | - | - | - | * | - | - | * | - | - | - | - | * | - | - | - |
| 10 | M | " | . | . | - | - | - | - | - | - | - | - | . | * |  | . | * | - | . | * | - | - | - | * |  |
| 10 | U | . | - | - | . |  | . | - | * | - | 3 |  | - | 1 | * | . | 1 |  | - | 4 | $\cdot$ | $\cdots$ | 1 | $\bullet$ | - |

NOTE: $B=$ Blocked, $M=$ Blocked $\&$ Unblocked, $U=$ Unblocked


NOTE: $\mathrm{D}=$ Blocked, $M=$ Blocked \& Unblocked, $\mathrm{U}=$ Unblocked

| Table 9. Halibut QS transfers from |  |  |  |
| :---: | :---: | :---: | :---: |
| October 1994-April 1996. |  |  |  |
| Area | Number |  | OS units |
| 奀 |  |  |  |
| 2 C | 56 | 37. | 13,924,985 |
| 23 | \% |  |  |
| 3 A | 659 | 43. | 35,870,214 |
| 58 |  |  |  |
| 3B | 200 | 13. | 8,960,579 |
| 15 |  |  | , |
| 4A | 96 |  | $\cdots$ 1,862,222 |
| 3 ) |  |  |  |
| 4 B | 14 | $<1$ | 549,906 |
| <1 |  |  |  |
| 4 C | 3 | $<1$ | 105,330 |
| $<1$ |  |  |  |
| 4D | 2 | $<1$ | 109,563 |
| <1 |  |  |  |
| 4E | 0 |  | 0 - |
| $\underline{0}$ |  |  |  |
| TOT | 1,536 | 100 | 61,382,799 |
| $\therefore 100$ |  |  |  |

Table 9 lists the total number of QS transactions that have occurred since halibut QS were initially issued in late 1994. Less than 9 percent of all QS transactions have occurred in Area 4, transferring over 2.6 million QS units. Six percent occurred in subarea 4A, transferring nearly 1.9 million QS units. These Area 4A transactions accounted for nearly $2 / 3$ by number and $3 / 4$ of units transferred in all Area 4 subareas.

Table 10 summarizes the effects of the status quo and proposed alternative use limits on consolidation of all Area 4 QS. Altemative 2, Option A would allow an additional 32 QS holders ( $7 \%$ [ $11 \%-4 \%$ ] of the total) to increase their QS to the proposed 1 percent limit of 333,029 QS units. This alternative would allow the transfer of a theoretical maximum of $2,536,373$ units ( $8 \%$ of total QS units) to 32 currently limited QS holders to reach the $1 \%$ limit. Twenty-two persons would remain above this rejected limit.

Preferred Alternative 2, Option B would allow an additional 45 QS holders ( $9 \%$ of the total) to increase their QS holdings to the $11 / 2$ percent limit of 495,044 QS units. They would be allowed to consolidate an additional $7,816,853$ QS units ( $24 \%$ of total QS units) and transfer QS between areas under the higher limit. Nine persons would remain above the preferred limit.

Alternative 2, Option C would allow an additional 50 QS holders ( $10 \%$ of the total) to increase their QS holdings to the 2 percent limit of 660,058 QS units. If approved, the theoretical maximum QS units required to allow these 50 QS holders to reach the rejected $2 \%$ limit could not be reached since the QS required ( $17,172,745$ units) exceeds those available ( $14,386,159$ units)from the remaining 509 QS holders. Four person would remain above this rejected limit.

While the use limit is based on combined QS holdings for all five subareas. Table It summarizes the consolidation that could theoretically occur with unblocked QS if ail QS were held in only one of the subareas and current block and vessel category restrictions did not apply. This scenario does not reflect the current distribution of QS and is presented here at the request of the Council.

Consolidati on to the theoretical minimum QS holders is not expected under any of $t h e$ alternatives. A 11 currently limited QS holders would not be expected to increase their QS holdings. Additionally - sufficient QS is not available for all eligible QS holders to increase their QS to

Table 10. Effects of proposed Area 4 halibut use cap himits on 1996 QS holders.

|  | Alternative $\begin{array}{r} 1 \\ \text { Status-Quo } \\ 1 / 2 \% \\ 165,015 \\ \text { units } \end{array}$ | $\begin{array}{r} \text { Altermative } \\ 2 \\ \text { Option A } \\ 1 \% \\ 330,029 \\ \text { units } \end{array}$ | $\begin{array}{r} \text { Alternative } \\ 2 \\ \text { Option B } \\ 11 / 2 \% \\ 495,044 \\ \text { units } \end{array}$ | $\begin{array}{r} \text { Altemative } \\ 2 \\ \text { Option } \mathrm{C} \\ 2 \% \\ 660,058 \\ \text { units } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| QS holders > cap \% of Total | $\begin{array}{r} 54 \\ 11 \% \end{array}$ | 22 | 9 $2 \%$ | 4 $1 \%$ |
| QS holders < cap \% of Tocal | $\begin{array}{r} 459 \\ 89 \% \end{array}$ | $\begin{gathered} 491 \\ 96 \% \end{gathered}$ | $\begin{gathered} 504 \\ 92 \% \end{gathered}$ | $\begin{gathered} 509 \\ 99 \% \end{gathered}$ |
| Total | 513 | 513 | 513 | 513 |
| Minimum theoretical consolidation* | 200 | 100 | 67 | 50 |
| $\begin{array}{lr}\text { QS units: } & \text { in Area } 4 \\ \text { held by top } 54 \text { QS holders }\end{array}$ <br> allowed by top 54 QS hoiders <br> needed to reach Alt. 2 caps | $\begin{array}{r} 33,002,937 \\ 18,616,778 \\ 56 \% \\ 8,910,810 \\ 27 \% \\ 0 \end{array}$ | $\begin{array}{r} 33,002.937 \\ 18,616,778 \\ 56 \% \\ 17,821,566 \\ 54 \% \\ 2,536,373 \\ 8 \% \end{array}$ | $\begin{array}{r} 33,002,937 \\ 18,616,778 \\ 56 \% \\ 26,732,376 \\ 81 \% \\ 7,816,853 \\ 24 \% \end{array}$ | $\begin{array}{r} 33,002,937 \\ 18.616,778 \\ 56 \% \\ 35,643,132 \\ 108 \% \\ 17.172 .745 \\ 52 \% \end{array}$ |
| *not including effects of vessel category and block restrictions |  |  |  |  |

the highest limit under Alternative 2 , Option C. And again, many QS holding transfers are limited by block and vessel category restrictions.

Relaxing the individual use limit will provide a net economic benefit to the Nation. Additionally, the costs expended by large $Q S$ holders of increasing their holdings from purchasing QS would be expected to be balanced by the

Tabie 11. Theoretical consolidation of current QS holders. gains made by smaller QS holders from transfers (sales), making the result revenue-neutral. The opportunity cost to those QS holders who transfer their holdings is the revenue that would have been generated by fishing those shares themselves. However, if their holdings were too small to make a viable fishing trip anyway, then their opportunity costs are zero. Those QS holders would benefit directly from an increased market in terms of volume, as well as price, from transfer of their QS under the preferred alternative.

### 3.3. ADMINISTRATIVE, ENFORCEMENT AND INFORMATION COSTS

No additional enforcement costs are expected from either of the proposed actions.

### 4.0 INTTAAL REGULATORY FLEXIBILITY ANALYSIS

The objective of the Regulatory Flexibility Act is to require consideration of the capacity of those affected by regulations to bear the direct and indirect costs of regulation. If an action will have a significant impact on a substantial number of small entities an Initial Regulatory Flexibility Analysis (IRFA) must be prepared to identify the need for the action, alternatives, potential costs and benefits of the action, the distribution of these impacts, and a determination of net benefits.

NMFS has defined all fish-harvesting or hatchery businesses that are independently owned and operated, not dominant in their field of operation, with annual receipts not in excess of $\$ 2,000,000$ as small businesses. In addition, seafood processors with 500 employees or fewer, wholesale industry members with 100 employees or fewer, not-for-profit enterprises, and government jurisdictions with a population of 50,000 or less are considered small entities. A "substantial number" of small entities would generally be $20 \%$ of the total universe of small entities affected by the regulation. A regulation would have a "significant impact" on these small entities if it reduced annual gross revenues by more than 5 percent. increased total costs of production by more than 5 percent, or resulted in compliance costs for small entities that are at least 10 percent higher than compliance costs as a percent of sales for large entities.

If an action is determined to affect a substantial number of small entities, the analysis must include:
(1) a description and estimate of the number of small entities and total number of entities in a particular affected sector, and total number of small entities affected; and
(2) analysis of economic impact on small entities, including direct and indirect compliance costs, burden of completing paperwork or recordkeeping requirements, effect on the competitive position of small entities, effect on the small entity's cashnlow and liquidity, and ability of small entities to remain in the market:

### 4.1 ECONOMIC IMPACT ON SMALL ENTITIES

Approximately 500 halibut QS holders in Areas 4A-D would benefit from an increase in the Area 4 individual use limit, either as QS buyers or sellers. Over 14 million unblocked QS units in Areas 4A-D held by 198 persons and 17.8 million blocked QS units held by 397 persons are the likely source of QS for those wishing to increase their holdings. Blocked QS are limited by block and vessel category restrictions. The unblocked QS units, more likely to be transferred, equal approximately 2.1 million lb of halibut worth more than $\$ 4.6$ million ex-vessel.

Under Alternative 2, Option A, 32 QS holders would be allowed to increase their holdings above the current limit to 1 percent of all Area 4 QS holdings. Preferred Alternative 2, Option B would allow 45 QS holders to increase their holdings to the recommended $11 / 2$ percent limit. Alternative 2, Option $C$ would allow 50 QS holders to increase their holdings to 2 percent. Transfers of unblocked QS would likely occur in these consolidations.

The preferred alternative would also allow persons to consolidate their holdings in fewer areas by allowing QS transfers, without forfeiting their "grandfathered" QS above the status quo limit. The preferred alternative, Option B would not lead to a reduction in the gross revenues received by the small business sector of the fleet and, thus, would not have significant negative impact on small businesses. The preferred alternative's positive impact, however, would be significant in that Area 4 halibut QS holders already at their limit would be allowed a 100 percent increase in their holdings.

### 5.0 SUMMARY AND CONCLUSIONS

The proposed action, to increase the halibut individual use limits in the Bering Sea and Aleutian Islands would be expected to reallocate the resource among current users. It will provide an overall benefit to the Nation by allowing market forces to determine the value of QS unconstrained by artificially low limits.

Two alternatives were evaluated, Alternative 1 is the "no action" or status quo alternative, required by NEPA and E.O. 12866. Alternative 2, the proposed alternative submitted by representatives of the industry in Area 4, could theoretically reduce the number of QS holders by as much as 50 percent. Two altematives were included in the analysis: (1) status quo of $1 / 2$ percent; and (2) an increase to either 1 , $1 / 2$, or 2 percent.
Alternative 2, Option A would allow an additional 32 QS holders ( $7 \%$ of the total) to increase their QS to the proposed 1 percent limit of 333,029 units. This alternative would allow the transfer of a theoretical maximum of $2,536,373$ units to 32 currently limited QS holders to reach the 1 percent limit. Twenty-two persons would remain above this rejected limit.

Preferred Alternative 2, Option B would allow an additional 45 QS holders ( $9 \%$ of the total) to increase their QS holdings to the $1 / 1 / 2$ percent limit of 495,044 QS units. They would be allowed to consolidate an additional $7,816,853$ QS units ( $24 \%$ of total QS units) and transfer QS between areas under the higher limir. Nine persons would remain above the preferred limit.

Alternative 2, Option C would allow an additional 50 QS holders ( $10 \%$ of the total) to increase their QS holdings to the 2 percent limir of 660,058 QS units. If approved, the theoretical maximum QS units required to allow these 50 QS holders to reach the rejected $2 \%$ limit could not be reached since the QS required ( $17,172,745$ units) exceeds those available ( $14,386,159$ units)from the remaining 509 QS holders. Four person would remain above this rejected limit.

Approximately 500 halibur QS holders in Areas 4A-D would benefit from an increase in the Area 4 individual use limit, either as QS buyers or sellers. Over 14 million unblocked QS units in Areas 4A-D held by 198 persons and 17.8 million blocked QS units held by 397 persons are the likely source of QS for those wishing to increase their holdings. Blocked QS are limited by block and vessel category restrictions. The unblocked QS units, more likely to be transferred, equal approximately 2.1 million lb of halibut worth more than $\$ 4.5$ million ex-vessel. A review of the economic and social impacts of the alternatives indicates that either option under Alternative 2 will provide a net economic benefit to the Nation.

None of the alternatives is expected to have a significant impact on endangered, threarened, or candidate species.

### 6.0 LITERATURE CITED

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- 1996b. Draft Environmental Assessment/Regulatory Impact Review/Initial Regulatory Flexibility Analysis for a Regulatory Amendment to the GOA Fishery Management Plan to Extend the Season for the Aleutian Islands Sablefish Fishery. NPFMC, 605 West Fourth Avenue, Suite 306, Anchorage, Alaska.


### 7.0 LIST OF INDIVIDUALS CONSULTED

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APPENDIX A

AREA 4 USE LIMITS PROPOSAL

March 31. 1994


Chaiman Rick Lauber
North Pacific Fishery Management Council
P.O. Box 103136 DT

Anchorage, Alaska 99510

## Chairman Rick Lauber:

The below listed fishemen's organizations would like the North Pacific Fishery Management Council to consider relaxing a halibut ownership and use restriction in the Bering Sea under agenda item C-l(a), at the April Council meeting.

The current regulations restrict second generation ownership to one-half of one percent of the Bering Sea TAC. (This amounts to 26,500 pounds based on the 1994 TACs). The cires:t regulation also restricts the amount of fish that can be barvested in the Bering Sea district to 1 percent per vessel of the Bering Sca TAC, even for those receiving initial allocations. We request the following option be examined.

1. Drop the ownership and use restrictions in the Bering Sea and allow the existing ownership cap of $1 / 2$ percent use and owivership restrictions, which currently applies to all IPHC areas collectively, to be the ressaining regulation for all areas combined. This would limit the halibut ownership and poundage that can be landed by any single vessel to $1 / 2$ percent of the total balibut TACs for all IPHC areas in Alaska. The additional burden in the Bering Sea would be dropped..
2. Pennit a vessel and its ownership to harvest up to the initial allocation received in the Bering Sca even if that amount exceeds the current Bering Sca use restriction, of no more than 1 percent of the Bering Sea combined TACs being landed on a single vessel.
3. Increase the limitation on ownership in the Bering Sea to 3 percent of the Bering

Sinoerely,

Ciride, Tozal
Kodiak Longlin Vetsel Ownen Association
$P$


Finhing Yessal Ounars Associstlon Eric Olsen, Presideat


Doep Soa Fishermens Union of the Paoinlo John Bruce, Menaget

## APPENDIX B

DISTRIBUTION OF 1996 HALIBUT AREA 4 QS HOLDERS

|  |  |  |  |  |  |  | Staxat Ono | Ait 2 Opxion A | Alt $2,0 \times 0$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Qs holder | 4A] | 481 | 4 Cl | 4DI | 48 | TOTAL | 1680165.015051 | 15-30.029 QS. | $29=600.05805$ |
| 1 | 11.746 | 343381, | 14.116 | 300,3851 | 0 | 301.628 |  |  |  |
| 2 | 177.145 | 490576 | 0 | 27.355 | 0 | 895.076 |  |  |  |
| 3 | 104.696 | 26,038 | 342328 | 194,774 | 0 | 667,736 |  |  |  |
| 4 | 123.083 | 253,705 | $\bigcirc$ | 284.44 | 0 | 661.237 |  |  |  |
| 5 | 47,955 | 24.159 | 7.735 | 331.155 | 0 | 621,004 |  |  | 39.054 |
| 6 | 79,129 | 165.105 | 241279 | 45.180 | 0 | 530,693 |  |  | 129.365 |
| 7 | 24,724 | 283,356. | 0 | 0. | 0 | 328,080 |  |  | 131.978 |
| 8 | 65204 | 271.750 | 0 | 171.865 | 0 | 508.819 |  |  | 151239 |
| 9 | 136.746 | 308.800 | 30.193 | 29,407 | 0 | 505.146 |  |  | 154.912 |
| 10 | 371325 | 111.364 | 0 | 0 | 0 | 482.689 |  |  | 17369 |
| 11 | 69.931 | 389.890 | 9.998 | 0 | 0 | 469.919 |  |  | 190.139 |
| 12 | 328.709 | 113.387 | 0 | $0 \cdot$ | 0 | 44.096 |  |  | 217,062 |
| 13 | 5.484 | 153.740 | 0 | 280.175 | 0 | 439.399 |  |  | 200.659 |
| 14 | 39.007 | 208.526 | 43.750 | 72.650 | 0 | 413.933 |  |  | 246.125 |
| 15 | 92,118 | 0 | 0 | 297.104 | 0 | 389222 |  |  | 270.836 |
| 16 | 267.932 | 0 | 52,434 | 45,706 | 0 | 366,072 |  |  | 291.946 |
| 17 | 22,427 | 231.794 | 40.207 | 6.5254 | 0 | 359.682 |  |  | 300.376 |
| 18 | 126.962 | $\bigcirc$ | 188,423 | 40.060 | 0 | 351.445 |  |  | 306.513 |
| 19 | 59.413 | 184.294 | 35485 | 72650 | 0 | 351.942 |  |  | 308,115 |
| 20 | 273516 | 82.192 | 0 | 0 | 0 | 137,708 |  |  | 372.350 |
| 21. | 35,098 | 21159 | 0 | 87,366 | 0 | 334,003 |  |  | 326.055 |
| 22. | 137.102 | 0 | 128.008 | 57.584 | 0 | 332.684 |  |  | 327.364 |
| 23 | 156.521 | 0 | 0 | 170,532 | 0 | 327.153 |  | 2.876 | 332,905 |
| 24 | 180.054 | 146.541 | 0 | 0 | 0 | 325.595 |  | 3.434 | 333.463 |
| 25 | 139.681 | 0 | 100.716 | 81.840 | 0 | 325,037 |  | 4.992 | 335,021 |
| 26. | 82.580 | 219984 | 0 | 17,588 | 0 | 320.252 |  | 9.777 | 139.806 |
| 27. | 112.990 | 88.522 | 0 | 118.133 | 0 | 319.645 |  | 10.384 | 340,413 |
| 28 | 55.067 | 239.816 | 0 | 23.640 | 0 | 318.523 |  | 11506 | 34.515 |
| 291 | 89.476 | 0 | 121334 | 101290 | 0 | 312.300 |  | 17.729 | 47.758 |
| 30 | 196.060 | 35.902 | 0 | 56.948 | 0 | 308.910 |  | 21.119 | 351.148 |
| 31. | 304,888 | 0 | 0 | 0 | 0. | 304,888 |  | \% 5.141 | 355,170 |
| 32 | 78,658 | 40,880 | 185.175 | 0 | 0. | 304.703 |  | 23.326 | 355355 |
| 33 | +4,611 | 0 | 0 | 241540 | 0 | 286.151 |  | 43,878 | 373.907 |
| 34 | 84,955 | 113.630 | 0 | 77.785 | 0 | 776.370 |  | 33.659 | 383.688 |
| 35 | 89.656 | 179.854 | 0 | 0 | 0 | 259510 |  | 50.519 | 390.548 |
| 36 | 107.418 | 161.175 | 0 | 0. | 0 | 268.593 |  | 61,436 | 391.465 |
| 37 | 158.607 | 59,001 | 39.704 | 0 | 0 | 17.312 |  | 72,717 | 402.746 |
| 38 | 5.992 | 0 | 243.456 | 0 | 0 | 249.448 |  | 80.581 | 410.810 |
| 39 | 171.171 | 54,947 | 6.544 | 0 | 0 | 212.652 |  | 97.367 | 427.356 |
| 40 | 110.884 | 0 | 71.031 | 50.733 | 0 | 231.948 |  | 98.081 | 428.110 |
| 41 | 147.599 | 49.690 | 34.23 | 0 | 0 | 231541 |  | 98.488 | 428517 |
| 42 | 2.874 | 227.808 |  | 0 | 0 | 226.682 |  | 103337 | 433,376 |
| 43 | 35.437 | 47.788 | 30.962 | 111.944 | 0 | 226.101 |  | 103.923 | +33.957 |
| 44 | 107523 | 0 | 67.578 | 39,715 | 0 | 214.816 |  | 115213 | 45242 |
| 45 | 163.076 | 36.851 | 0 | 11.308 | 0 | 211245 |  | 118.784 | 48.813 |
| 46 | 158.200 | 31.800 | 0 | 20.628 | 0 | 210,718 |  | 119311 | 449.340 |
| 47 | 154.423] | 3.720 | 0 | 15,814 | 0 | 203.957 |  | 126.072 | 456.10 t |
| 48 | 134.889 | 29.073 | 20,036 | 16.179 | 0 | 200.177 |  | 129.852 | 459.881 |
| 49 | 11.791 | 6028 ! | 67,636 | 32,273 | 0 | 191.931 |  | 138.098 | 468.127 |
| 50. | 4.3031 | 0 | 174.832 | 0 | 0 | 179.135 |  | 150.894 | 480.927 |
| 51 | 2967 | 174,195 |  | 0 | 0 | 177,162 |  | 152.867 | 482,896 |
| 52 | 97.514 | 78.352 | 0 | 0 | 0 | 175,856 |  | 154.1631 | 484.192 |
| 53. | 4.407 | 60.927 | 13,128 | 89,643 | 0 | 168.105 |  | 161.924 | 491.95] |
| 54 | 13.205 | 93.320 | 0 | 60.594 | 0 | 167.119 |  | 162.910 | 492.939 |
| 55 | 122.636 | 40.897 | 0 | 0 | 0 | 163.533 | 1.482 | $168.196{ }^{2}$ | 49.525 |
| 56 | 122063 | 40.834 | 0 | 0 | O, | 162.897 | 2.118 | 167.132 | 497.161 |
| 57 | 60.758 | 39.3\%4 | 62.225 | 0 | 0 | 162.304 | 2.711 | 167.725 | 497.754 |
| 58 | 3.792 | 0 | 154.068 | 0 | 0 | 157.860 | 7,15s | 172,169 | 50.198 |
| 59 | 1.935 | 0 | 0 | 154.426 | 0 | 156361 | 8,554 | 173.638 | 503.697 |
| 60. | 129.210 | d | 23.170 | 0 | 0 | 152380 | 12.635 | 177,049 | 507.678 |
| 61. | 72,445 | 36.174 | 32.004 | 1.925 | 6.707 | 149254 | 15.761 | 180,775 | 510.804 |
| 62. | 146,86i | 0 | 0 |  | 0 | 146,861 | 18,154 | 183,168 | 513.197 |
| 63 | 1.365 | 142382 | 0 | 0 | 0 | 143.747 | 21268 | 186.282 | 516311 |
| 64 | 138.437 | 4.489 | 0 | 116 | 0 | 43.062 | 21.553 | 186.967 | 516.996 |
| 65 | 28.780 | 44369 | 49.761 | 17.670 | 0 | 142580 | 24.435 | 189,449 | 519.478 |
| 68 | 66.535 | 40.313 | 8.747 | 24.235 | 0 | 139.830 | 25,185 | 150.199 | 520.228 |
| 67 | 56217 | 81.497 | 0 | 0 | 0 | 137,714 | 27.301 | 192,3131 | 523.344 |


| Se bolder | 4A | 4 BI | 4 C | 401 | $4 E$ | TOTAL | $129 x 165015051$ | $10_{6}=330,029051$ | 2x 0560.05805 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 138 | 18,626 | 39.857 | 0 | 0 | 0 | 53.483 | 106.5321 | 271.546 | 601.575 |
| 139 | 732 | 56,991 | 0 | 0 | 0 | 57.723 | 107.292 | 272.306 | 602335 |
| 140 | 1.384 | 0 | 56.234 | 0 | 0 | 57,618 | 107.397 | 272.411 | 602.440 |
| 141 | 703 | 0 | 0 | 56.077 | 0 | 56.780 | 108235 | 273.249 | 609.278 |
| 142 | 696 | 0 | 0 | 55.528 | 0 | 56.224 | 108.791 | 273,805 | 603.834 |
| 143 | 52.782 | 0 | 0 | 0 | 0 | 52.782 | 112233 | 277.247 | 607.276 |
| 144 | 51.441 | 0 | 0 | 0 | 0 | 51.441 | - 113574 | 278.588 | 608.617 |
| 145 | 51,339 | 0 | 0 | 0 | 0 | 51.333 | 113.682 | 278.696 | 608.725 |
| 146 | 32.119 | 18.012 | 0 | 0 | 0 | 50,131 | 114.884 | 279,998 | 609.927 |
| 147 | 49,863 | 0 | Of | 0 | 0 | 49.853 | 115.152 | 280,166 | 610.195 |
| 148 | 1.185 | 0 | \$8,148 | 0 | 0 | 49.333 | 115.582 | 280,696 | 010.725 |
| 149 | 48,870 | 0. | 0 | 0 | 0 | 48,870 | 116.145 | 281.159 | 611.188 |
| 150 | 36.519 | 0 | 0 | 0 | 12.156 | 48.675 | 116.340 | 281.354 | 611,383 |
| 151 | 27,307 | 0 | 0 | 20.332 | 0 | 48,139 | 116.876 | 281.890 | 611.919 |
| 152 | 47.963 | 0 | 0 | 0 | 0 | 47.963 | 117,052 | 282,066 | 612,095 |
| 153 | 600 | 22392 | 0 | 24.866 | 0 | 47,858 | 117.157 | 282.171 | 612200 |
| 154 | 24,008 | 18.897 | 3.743 | 0 | 0 | 45.648 | 118.367 | 283.38! | 613.410 |
| 155 | 28.284 | 16,752 | 0 | 0 | 0 | 45,036 | 115,979 | 284,993 | 615,022 |
| 156 | 42.018 | 0 |  | 2.189 | 0 | 4.207 | 120,808 | 285.822 | 619.851 |
| 157 | 14.625 | 0 | 29.597 | 0 | 0 | 4.182 | [20,33] | 285.847 | 615.876 |
| 158 | 1.060 | 0 | 43,052 | 0 | 0 | 44,112 | 120.903 | 285.917 | 615,946 |
| 139 | 43.285 | 0 | O. | 0 | 0 | 43.285 | 121,730 | 286,744 | 616,773 |
| 160 | 1.031 | 0 | 4,873 | 0 | 0 | 42.904 | 122111 | 287.125 | 617.154 |
| 161 | 541 | 42,135. | 이 | 0 | 0 | 42.676 | 177339 | 297,153 | 617382 |
| 162 | 12.391 | 0 | 0 | 0 | 0 | 42391 | 122.534 | 287.638 | 617,667 |
| 163 | 42.264 | 0 | 0 | 0 | 0 | 42.264 | 122.751. | 287,765 | 617.794 |
| 164 | 0 | 41.459 | 0 | 0 | 0 | 41,459 | 123.556 | 288.570 | 618.599 |
| 165. | 0 | 32.732 | 0 | 0 | 8.168 | 40.900 | $12 \mathrm{~A}, 115$ | 289.129 | 619,158 |
| 166 | 40.818 | 0 | 0 | 0 | 0 | 40.818 | 124.197 | 289.211 | 619240 |
| 167 | 40.801 | 0 | O | 0 | 0 | 40,801 | 124214 | 289228 | 619.257 |
| 168 | 40,793 | 0 | 0 | 0. | 0 | +0.793 | 124.272 | 289236 | 619.265 |
| 169 | 35.256 | 0. | 3.435 | 0 | 0 | +0.711 | 124.304 | 289,18 | 619347 |
| 170 | 39.793 | 0 | 0 | 0 | 0 | 39,793 | 12502 | 290.236 | 620.265 |
| 171 | 9.322 | 30.306 | 0 | 0 | 0 | 39.628 | 125387 | 290.401 | 620.430 |
| 172 | 0 | 19.216 | 0 | 0 | 0 | 39.216 | 125.799 | 290,813 | 620.8.2 |
| 173 | 37.996 | 948 | 0 | 0 | 0 | 38.94 | 126,071 | 291.085 | 621.114 |
| 174 | 6.639 | 31.563 | 0 | 0 | 0 | 38.202 | 125.813 | 291.827 | 621.856 |
| 175 | 31.772 | 6.322 | 0 | 0 | 0 | 38,094 | 128.921 | 291.935 | 621.960 |
| 176 | 37.766 | 0 | 0 | 0 | 0 | 37.766 | 127.249 | 292363 | 627.292 |
| 177 | 33278 | 4,066 | 0 | 0. | 0 | 37.344 | 127.671 | 292.685 | 622.714 |
| 178 | 37232 | 0 | 0 | 0 | 0 | 37.232 | 127,783 | 292,797 | 622.826 |
| 179 | 37,027 | 0 | 0 | 0 | 0 | 37,027 | 127,988 | 293.002 | 523.031 |
| 180 | 35.527 | 0 | 0 | 0 | 0 | 35.527 | 129,488 | 294.502 | 524.511 |
| 181 | 35.397 | 0 | 0 | 0 | 0 | 35.397 | 129.518 | 294.632 | 624,651 |
| 182 | 35.106 | 0 | 0 | 0 | 0 | 35,106 | 129.009 | 294,923 | 624.952 |
| 183 | 34.922 | 0 | 0 | 0 | 0 | 34.922 | 130.093 | 295.107 | 625.136 |
| 184 | 4.2 | 34.429 | 0 | 0 | 0 | 34.871 | 130.14 | 295.158 | 625.187 |
| 185 | 34.818 | 0 | 0 | 0 | 0 | 34,818 | 130.197 | 295211 | 625240 |
| 186 | 34,818 | 0 | 0 | 0 | 0 | 34.818 | 130.197 | 295.211 | 635240 |
| 187 | 26.083 | 8.713 | 0 | 0 | 0 | 34.796 | 130219 | 295233 | 625.262 |
| :88 | 34.560 | O | 0 | 0 | 0 | 34.560 | 190, +55 | 295.469 | 625,498 |
| 189 | 14.876 | 18.623 | 0 | 0 | 0 | 33.499 | 111516 | 296.530. | 626.559 |
| 190 | 423 | 32.962 | 0 | 0 | 0 | 33.385 | 131.630 | 296.644 | 626.673 |
| 191 | 24.636 | 0 | 0 | 3.748 | 0 | 33.384 | 131.631 | 296,645 | 626.674 |
| 192 | 792 | 0 | 32.196 | 0 | 0 | 32988 | 132027 | 297,0411 | 627.070 |
| 193 | 19.284 | 13.598 | 0 | 0 | 0 | 32.882 | 132.135 | 297.477 | 627.176 |
| 194 | 1.622 | 0 |  | 28.841 | 0 | 32.463 | 172.552 | 297.566 | 627.595 |
| 195 | 410 | 31,904 |  | 0 | 0 | 32.314 | 132.701 | 297.715 | 627.744 |
| 196 | 24.154 | 0 | 7.760 | 0 | 0 | 31.930 | 133,085 | 298,099 | 628.128 |
| 197 | 31.501 | 0 | 0 | 0 | 0 | 31.501 | 133514 | 298.528 | 628.557 |
| 198 | 395 | 30.726 | 0 | 0 | 0 | 31.121 | 133.894 | 298,908 | 628,937 |
| 199 |  | 31,046 | 0 | 0 | 0 | 31.046 | 133.969 | 298,983 | $629 \% 12$ |
| 200 | 28.127 | 2.128 | 0 | 0 | 0 | 30.255 | 134.760 | 299,774 | 629.803 |
| 201 | 21.539 | 8.683 | 0 | 0 | 0 | 30.232 | - 134.797 | 299.807 | 629,836 |
| 202 | 722 |  | 29315 | 0 | 0 | 30.037 | 134,978 | 299.892 | 630.021 |
| 203 | 29,971 | 0 | 0 | 0 | of | 29.97! | 135.044 | 300.058 | 630.087 |
| 20.5 | 6,670 | 232541 | 0 | 0 | 0 | 29.924 | 135.091 | 300,105 | 630.134 |
| 205 | 29,883 | $\bigcirc$ | 0 | 0 | 0 | 29.883 | 115.132 | 300.146 | 630.175 |
| 206 | 29.607 | 0 | 0 | 0 | 0 | 29.607 | 115.408 | 300.422 | 630.451 |
| 2071 | 23.825 | 0 | 0 | 0 | 0 | 28.825 | 116.190 | 301204 | 631.233 |


| OS bolder | 4A. | 4B1 | 4 Cl | 4DI | 4 E | TOTAL | $-1 / 2 x=165.015$ QSi | $18_{0}=330.029$ QS | 2x $=660.058$ QS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 348 | 6.018 | 0 | 0 | 0 | 0 | 6.018 | 158.997 | 324,0111 | 654,040 |
| 349. | 5.778 | 0 | 0 | 0 | 0 | 5.778 | 159.237 | $32+251$ | 654280 |
| 350 | 5.561 | 0 | 0 | 0 | 0 | 5.561 | 159.454 | 324.468 | 654.497 |
| 351 | 0 | 0 | 0 | 0 | 5.508 | 5.508 | 159.507 | 324.521 | 654.550 |
| 352 | 5.500 | 0 | 0 | 0 | 0 | 5.500 | 159.515 | 324.529 | 654.558 |
| 353 | 5390 | 0 | 0 | 0 | 0 | 5.390 | 159.625 | 324.639 | 654.668 |
| 354 | 5384 | 0 | 0 | 0 | 0 | 5.384 | 159.63I | 324.645 | 654.674 |
| 355 | 5.314 | 0 | 0 | 0 | 0 | 5.314 | 159.701 | 324.715 | 654,74 |
| 356 | 5,226 | 0 | 0 | 0 | 0 | 5.226 | 159,789 | 324.803 | 654.832 |
| 357 | 0 | 0 | 0 | 0 | 5.155 | 5,155 | 159.860 | 324,874 | 654.903 |
| 358 | 5.106 | 0 | 0 | 0 | 0 | 5.106 | 159.909 | 324.923 | 654.952 |
| 359 | 4.983 | 0 | 0 | 0 | 0 | 4.983 | 160,032 | 325.046 | 655.075 |
| 360 | 4.928 | 0 | 0 | 0 | 0 | 4.928 | 160.087 | 325.101 | 655.130 |
| 361 | 4.902 | 0 | 0 | 0 | 0 | 4.902 | 160.113 | 325.127 | 655.156 |
| 362 | 62 | 4,806 | 0 | 0 | 0 | 4.868 | 160.147 | 325.161 | 655.190 |
| 363 | 116 | 0 | 4.726 | 0 | 0 | 4,842 | 160.173 | 375.187 | 655.216 |
| 364 | 4.750 | - | 0 | 0 | 0 | 4.750 | 160.265 . | 325.279 | 655308 |
| 365 | 4.639 | 0 | 0 | 0 | 0 | 4.639 | 160.376 | 325.390 | 655.419 |
| 366 | 0 | 0 | 0 | 0 | 4.454 | 4.454 | 160.561 | 325.575 | $655.60-1$ |
| 367 | 806 | 0 | 0 | 0 | 3.620 | 4.426 | 160.589 | 325.603 | 655.632 |
| 368 | 4.387 | 0 | 0 | 0 | 0 | 4387 | 160.628 | 325.642 | 655.671 |
| 369 | 793 | 0 | 0 | 0 | 3.560 | 4353 | 160.662 | 325.676 | 655.705 |
| 370 | 4.287 | 0 | 0 | 0 | 0 | 4.287 | 160,728 | 325.742 | 655.771 |
| 371 | 775 | 0 | 0 | 0 | 3.478 | 4253 | 160,762 | 325.776 | 655.805 |
| 372 | 102 | 0 | 4,129 | 0 | 0 | 4.231 | 160.784 | 325.798 | 655.827 . |
| 373 | 0 | 4,066 | 0 | 0 | 0 | 4,066 | 160.949 | 325.963 | 655.992 |
| 374 | 50 | 3,889 | 0 | 0 | 0 | 3.939 | 161.076 | 326,090 | 656.119 |
| 375 | 49 | 3,823 | 0. | 0 | 0 | 3.872 | 161.143 | 326.157 | 656.186 |
| 376 | 3.811 | 0 | 0 | 0 | 0 | 3.811 | 161.206 | 326218 | 656.247 |
| 377 | 3.744 | 0 | 0 | 0 | 0 | 3.74 | 161.27t | 326.285 | 656.314 |
| 378 | 3.735 | 0 | 0 | 0 | 0 | 3.735 | 161.280 | 326.294 | 656.323 |
| 379 | 3570 | 0 | 0 | 0 | 0 | 3.570 | 161.45 | 326.459 | 656.488 |
| 380 | 3.559 | 0 | 0 | 0 | 0 | 3.559 | 161.456 | 326.470 | 656.499 |
| 381 | 3559 | 0 | 0 | 0 | 0 | 3.559 | 161.456 | 326,470 | 656.499 |
| 382 | 0 | 0 | 0 | 0 | 3.345 | 3345 | 161.670 | 326.684 | 656.713 |
| 383 | 3306 | 0 | 0 | 0 | 0 | 3306 | 161.709 | 326.723 | 656.752 |
| 384 | 3261 | 0 | 0 | 0 | 0 | 3.251 | 161.754 | 326.768 | 656.797 |
| 385 | 40 | 3.114 | 0 | 0 | 0 | 3,154 | 161.861 | 326.875 | 656.904 |
| 386 | 564 | 0 | 0 | 0 | 2533 | 3.097 | 161.918 | 326.932 | 656.961 |
| 387 | 3.084 | 0 | 0 | 0 | 0 | 3,084 | 161.931 | 326.945 | 656.974 |
| 388 | 541 | 0 | 0. | 0 | 2.427 | 2.968 | 162.047 | 327.061 | 657.090 |
| 389 | 71 | 0 | 2.893 | 0 | 0. | 2.964 | 162.051 | 327,065 | 657.094 |
| 390 | 2.898 | 0 | 0 | 0 | 0 | 2,898 | 162.117 | 327.131 | 657.160 |
| 391 | 528 | 0 | 0 | 0 | 2.369 | 2.897 | 162.118 | 327.132 | 657.161 |
| 392 | 510 | 0 | 0 | 0 | 2292 | 2.802 | 162.213 | 327297 | 657.256 |
| 393 | 2.724 | 0 | 0 | 0 | 0 | 2.724 | 162.291 | 327.305 | 657334 |
| 394 | 64 | 0 | 2.580 | 0 | 0 | 2.644 | 162.37 I | 327.385 | 657,414 |
| 395 | 30 | 2368 | 0 | 0 | 0 | 2.398 | 162.617 | 327.631 | 657.660 |
| 396 | 2.343 | 0 | 0 | 0 | 0 | 2.343 | 162.672 | 327.686 | 657.715 |
| 397 | 0 | 0 | 0 | 0 | 2.331 | 2,331 | 162.684 | 327.698 | 657.727 |
| 398 | 2.299 | 0 | 0 | 0 | 0 | 2.299 | 162.716 | 327,730 | 657.759 |
| 399 | 2,172 | 0 | 0 | 0 | 0 | 2.172 | 162,843 | 327.857 | 657.886 |
| $4 \infty$ | 2.135 | 0 | 0 | 0 | 0 | 2.135 | 162.880 | 327.894 | 657.923 |
| 401 | 0 | 0 | 0 | 0 | 1.935 | 1.935 | 163.080 | 328.094 | 658.123 |
| 402 | 1,900 | 0 | 0 | 0 | 0 | 1.900 | 163.115 | 328.129 | 658.158 |
| 403 | 1.827 | 0. | 0 | 0 | 0 | 1.827 | 163.188 | 328.202 | 658.231 |
| 404 | 0 | 0 | 0 | 0 | 1.823 | 1.823 | 163.192 | 328206 | 658.235 |
| 405 | 1.820 | 0 | 0 | 0 | 0 | 1.820 | 163.195 | 328.209 | 658238 |
| 406 | 0 | 0 | 0 | 0 | 1.775 | 1.775 | 163.240 | 328.254 | 658.283 |
| 407 | 1,719 | 0 | 0 | 0 | 0 | 1.719 | 163296 | 328.310 | 658.339 |
| 408 | 22 | 1.686 | 0 | 0 | 0 | 1.708 | 163.307 | 328.321 | 658.350 |
| 409 | 1.591 | 0 | 0 | 0 | 0 | 1591 | 163.424 | 328.438 | 658.467 |
| 410 | 38 | 0 | 1.534 | 0 | 0 | 1.572 | 163.43 | 328.457 | 658.486 |
| 411 | 0 | 0 | 0 | 0 | 1.563 | 1.563 | 163.452 | 328.466 | 658.495 |
| 412 | 1.484 | 0 | 0 | 0 | 0 | 1.484 | 163.531 | 328.545 | 658.574 |
| 413 | 1.434 | 0 | 0 | 0 | 0 | 1.434 | 163.581 | 328.595 | 658,624 |
| 114 | 1.425 | 0 | 0 | 0 | 0 | 1.425 | 163.590 | 328.604 | 658.633 |
| 415 | 246 | 0 | 0 | 0 | 1.106 | 1.352 | 163.663 | 328.677 | 658.706 |
| 416 |  | 0 | 0 | 0 | 1.302 | 1.302 | 163.713 | 328.727 | 658.756 |
| 417 | 1.301 | 0 | 0 | 0 | 0 | 1.301 | 163.714 | 328.728 | 658.757 |



APPENDIX C
DISTRIBUTION OF 1996 HALIBUT AREA 4 BLOCKED QS HOLDERS

| OS boider | 4A | 4B1 | 4 C | 4D | 4 E | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 139.681 | 0 | 100.716 | 84.640 | 0 | 325.037 |
| 2 | 110.184 | 0 | 71.031 | 50.733 | 0 | 231.948 |
| 3 | 147.599 | 49.690 | 34.252 | 0 ) | 0. | 231541 |
| 4 | 112.990 | 0 | 0 | 118.133 | 0 | 231.123 |
| 5 | 35.437 | 47,758 | 30.962 | 111944 | 0 | 226.101 |
| 6. | 89.007 | 0 | 43.750 | 72.650 | Of | 205,407 |
| 7 | 137.102 | 0 | 0 | 67584 | 0 | 204.686 |
| 8 | 134.889 | 29.073 | 20.036 | 15,179 | 0 | 200.177 |
| 9 | 136,746 | 0 | 30.193 | 29.407 | 0 | 196,346 |
| 10 | 11,791 | 60281 | 67.636 | 52.223 | 0 | 191931 |
| 11 | 89.476 | 0 | 0 | 101290 | 0 | 190.766 |
| 12 | 97.514 | 78.352 | 0 | 0 | 0 | 175.866 |
| 13 | 4.407 | 60.927 | 13.128 | 89.643 | 0 | 168, 105 |
| 14 | 59.413 | 0 | 35585 | 72.650 | 0 | 167.648 |
| 15 | 126.962 | 0 | 0 | 10,060 | 0 | 167,022 |
| 16 | 122.063 | $40,83+1$ | 0 | 0 | 0 | 162.897 |
| 17 | 60,758 | 39.324 | 62.232 | 0 | 0 | 162304 |
| 18. | 129.210 | 0 | 23.170 | 0 | 0 | 152380 |
| 19. | 111253 | 40.897 | 0 | 0 | 0 | 151,152 |
| 20 | 72.4.5 | 36.174 | 32,004 | 1.924 | 6,707 | 149.254 |
| 21 | 146.861 | 0 | 0 | 0 | 0 | 1+6.861 |
| 22 | 138.437 | 4.8991 | 0 | 116 | 0 | 143,062 |
| 23 | 28.780 | +1,369 | 49,761 | 17.6701 | 0 | 140.580 |
| 24 | 66.535 | 40.113 | 8,747 | 24235 | 0 | 139.830 |
| 25 | 36.217 | 81,497 | 0 | 0 | 0 | 137.714 |
| 76 | 38,025 | 86.812 | 0 | 7.903 | 0 | 132.740 |
| 27 | 104.696 | 25,038 | 0 | 0 | 0 | 130.734. |
| 28 | 124.539 | 0 | 0 | 0 | 4.184 | 128,723 |
| 29 | 128.632 | 0 | 0 | 0 | 0 | 128.532 |
| 30 | 128.300 | 0 | 0 | 0 | 0 | 128300 |
| 11 | 27.427 | 0 | 40.307 | 65.254 | 0 | 177.888 |
| 32 | 125.789 | 0 | 0 | 0 | 0 | 125.789 |
| 33 | 79.129 | 0 | 0 | 45.180 | 0 | 124,309 |
| 34 | 123.088 | 0 | 0 | 0 | 0 | 123.088 |
| 35 | 35.098 | 0 | 0 | 87.366 | 0 | 122,464 |
| 36 | 43.435 | 77,999 | 0 | 0 | 0 | 121.64 |
| 37 | 0 | 85.566 | 20.198 | 15.237 | 0 | 121.001 |
| 38 | 120.429 | 0 ! | 0 | 0 | 0 | 120.429 |
| 39 |  | 96.1831 | 0 | 63,855 | 0 | 120.038 |
| 40 | 78.648 | 40,880 | 0 | 0 | 0 | 119.528 |
| 41 | 71.788 | +7.536 | 0. | 0 | 0 | 119.324 |
| 42 | 94243 | 24.0311 | 0 | 0 | 0 | 118.274 |
| 43. | 0 | \$3,902 | 0 | 56.748 | 0 | 112850 |
| 4 | 112594 | 0 | 0 | 0 | 0 | 112.594, |
| 45 | 107,418 | 0 | 0 | 0 | 0 | (07.418 |
| 46 |  | 0 | 67578 | 19.715 | 0 | :07.295 |
| 47 | 32,624 | 62,077 | 12.077 | 0 | 0 | 106,778 |
| 48 | 73,067 | 14.7011 | 0 | 13.001 | 0 | 106,068 |
| 49 | 106.008 | 0 | 0 | 0 | 0 | 106,008 |
| 50 |  | 80.402 | 71.747 | 0 | 0 | 102.149 |
| 51 | 47.611 | 34.980 | 18.618 | 692 | 0 | 101,921 |
| 52 | 16.508 | 8.8886 | 0 | 0. | 0 | 101.394 |
| 53 | 82.680 | 0 | 0 | 17.588 | 0 | 100,268 |
| 54 | 100.175 | 0 | 0 | 0 | 0 | 100.175 |
| 55 | 0 | S9,001. | 39.704 | 0 | 0 | 98.705 |
| 56 | 0 | 0 | 52.434 | 45,706 | 0 | 98.140 |
| 57 | 97.722 | 0 | 0 | 0 | 0 | 97.722 |
| 58 | 96.987 | 0 | 0 | 0 | 0 | 96.987 |
| 59 |  | 0 | 96.089 | 0 | 0 | 96.089 |
| 60 | 7.308 | 38.928 | 48.850 | 0 | 0 | 95.086 |
| 61 | 32.182 | 62.885 | 0 | 0 | 0 | 95.667 |
| 62 | 26.622 | 58,097 | 9.990 | 0 | 0 | 96.709 |
| 531 | 22.4501 | 0 |  | 0 | 0 | 92.450 |


| QS bolien | 4A | 4 B | 4 Cl | 4 D | 45 | . $\cdots$ | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 119 | 2294 | 52.434 | 0 | 0 | 0 | , | 54.728 |
| 120 | 52,782 | 0 | 0 | 0 | 0 |  | 52.782 |
| 121 | 0 | 31,800 | 0 | 20.528 | 0 |  | 52.628 |
| 122 | 51,441 | 0 | 0 | 0 | 0 |  | 51.411 |
| 123 | 51,333 | 0 | Of | 0 | 0 |  | 51.333 |
| 124 | 32.119 | 18.012 | 0 | 0 | 0 |  | 50.131 |
| 125 | 49.863 | 0 | 0 | - 0 | 0 |  | 49.863 |
| 126 | 0 | 3.720 | 0 | 45.314 | 0 |  | 49.34 |
| 127 | 48.870 | 0 | 0 | 0 | 0 |  | 48.870 |
| 128 | 36519 | 0 | 0 | 0 | 12.156 |  | 48.675 |
| 129 | 0 | 36.861 | 0 | 11,308 | 0 |  | 48.169 |
| 130 | 0 | 0 | 48.148 | 0 | 0 |  | 48.148 |
| 131 | 27307 | 0 | 0 | 20.832 | 0 |  | 48,139 |
| 132 | 47.863 | 0 | 0 | 0 | 0 |  | 47,963 |
| 133 | 0 | 22.392 | 0 | 24.866 | 0 |  | 47.258 |
| 134 | 24,008 | 18.857 | 3.743 | 0 | 0 |  | 46.648 |
| 135 | 28.284 | 16,752 | 0 | 0 | 0 |  | 45.036 |
| 136 | 4.611 | 0 | 0 | 0 | 0 |  | -4,611 |
| 137 | 42,018 | 0 | 0 | 2.189 | 0 |  | 4.2077 |
| 138 | 14.625 | 0 | 29557 | 0 | 0. |  | 4.182 |
| 130 | 0 | 43.456 | 0 | 0 | 0 |  | 43.456 |
| 140 | 43285 | 0 | 0 | 0 | 0 |  | 43285 |
| 141 | 0 | 0 | 43.052 | 0 | 0 |  | 43.052 |
| 142 | 42.391 | 0 | 0 | 0 | 0 |  | 1791 |
| 1 | 12, |  |  |  | - |  | 2 |
| 143 | 42.264 | 0 | 0 | 0 | 0 |  | 42354 |
| 14-4 | 0 | 42,135 | 0 | 0 | 0 |  | 42.135 |
| 145 | 0 | 0 | 41.873 | 0 | 01 |  | 41.873 |
| 146 | 0 | 41.459 | 0 | 0 | - |  | 11.450 |
| 147 |  | 7273 |  |  |  |  |  |
| 147 | 0 | 32,732 | 0 | 0 | 8.168 |  | 40.900 |
| 148 | 40,818 | 0 | Of | 0 | 0 |  | 40.818 |
| 149 | 10.801 | 0 | 0. | 0 | 0 |  | 40.801 |
| 1501 | 40.793 | 0 | 0 | 0 | 0 |  | 40.793 |
| :51 | 15356 | 0 | 5,155 | 0 | 0 |  | 40.711 |
| 152 | 19.793 | 0 | 0 | 0 | 0 |  | 39.793 |
| 153 | 9.322 | 30.306 | 0 | 0 | 0 |  | 19.528, |
| 154 | 0 | 39.716 | 0 | 0 | 0 |  | 39.216 |
| 155 | 17.996 | 948 | 0 | 0 | 0 |  | 38,94.4 |
| 156 | 6.639 | 31.563 | 0 | 0 | 0 |  | 38.202. |
| 157 | 31.772 | 6.322 | 0 | 0 | 0 |  | 38,094 |
| 158 | 37.760 | 0 | 0 | 0 | 0 |  | 37.766 |
| 159 | 332781 | 4,068 | 0 | 0 | 0 |  | 37 344 |
|  |  |  |  | , | , |  | 31.58 |
| 160 | 37,027 | $01$ | 01 | 0 | 0 |  | 37,027 |
| 161 |  | 36.073 | 0 | 0 | 0 |  | 36,073 |
| 162 | 35.527 | 0 | 0 | 0 | 0 |  | 35.527 |
| 163 | 35.397 | 0 | 0 | 0 | 0 |  | 35197 |
| 16.4 | 35,106 | 0 | 0 | 0 | 0 |  | 35.106 |
| 165 | 34.922 | 0 | 0 | 0 | 0 |  | 34.922 |
| 166 | 34,818 | 0 | 0 | 0 | 0 |  | 34.818 |
| 167 | 34.818 | 0 | 0 | 0 | 0 |  | 34.818 |
| 168 | 26.083 | 8.713 | 0 | 0 | 0 |  | 34.796 |
| 169 | 34.560 |  | 0 | 0 | 0 |  | 34.560 |
| 170] |  | 34.429 | 0 | 0 | 0 |  | 34.429 |
| :71 | 14.876 | 18.623 | 0 | 0 | 0 |  | 33.459 |
| 172 | 24.636 | 0 | 0 | 8,748 | 0 |  | 33.384 |
| !71 |  | 32.962 | 0 | 0 | 0 |  | 12.962 |
| 174 | 19284 | 13,598 | 0 | 0 | 0 |  | 32.882 |
| 175 | 3.622 | 0 | 0 | 28,84! | 0 |  | 13.463 |
| 176 |  |  | 32196 | 0 | 0 |  | 3,463 |
|  | 24.16 | - | 72.8 | , | 0 |  | 32.150 |
| 177 | 24,164 | 0 | 7.766 | 0 | 0 |  | 31.9301 |
| 1781 |  | 31.504 | 0 | Of | 0 |  | 31.5044 |


| Qs bolden | 4A | 481 | 4 Cl | 4D | 4 E - $\cdots$ | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 239 | 16.727 | 0 | 0 | 0 | 0 | 16.727 |
| 240 | 16.716 | 0. | 0 | 0 | 0 | 16,716 |
| 241 | 16.403 | 0 | 0 | 0 | 0 | 16.403 |
| 242 | 16.160 | 0 | 0 | 0 | 0 | 16.160 |
| 243 | 0 | 15,896 | 0 | 0 | 0 | 15.896 |
| 244 | 15.829 | 0 | 0 | 0 | 0 | 15.829 |
| 245 | 15.813 | 0 | of | - 0 | 0 | 15,813 |
| 246 | 15.763 | 0 | 0 | 0 | 0 | 15,763 |
| 247 | 0 | 15,709 | 0 | 0 | 0 | 15,709 |
| 248 | 0 | 15.466 | 0 | 0 | 0 | 15,466 |
| 249 | 15.452 | 0 | 0 | 0 | 0 | 15.452 |
| 250 | 15346 | 0 | 0 | 0 | 0 | 15.346 |
| 251 | 0 | 0 | 0 | 15,333 | 0 | 15.333 |
| 252 | 15.264 | 0 | 0 | 0 | 0 | 1.5264 |
| 253 | 14.836 | 0 | 0 | 0 | 0 | 14.836 |
| 254 | 14,827 | 0 | 0 | 0 | 0 | 14,827 |
| 255 | 14.554 | 0 | 0 | 0 | 0 | 14554 |
| 256 | 14.527 | 0 | 0 | 0 | 0 | 14.527 |
| 257 | 14,510 | 0 | 0 | 0 | 0 | 14.510 |
| 258 | 0 | 14,095 | 0 | 0 | 0 | 14,095 |
| 259 | 14.030 | 0 | 0 | 0 | 0 | 14.030 |
| 250 | 13.886 | 0 | . 0 | 0 | 0 | 13.986 |
| 261 | o | of | 13.713 | 0 | 0 | 13,713 |
| 262 | 13,696 | 0 | 0 | 0 | 0 | 13.696 |
| 253 | 13.576 | 0 | 0. | 0 | 0 | 13.576 |
| 264 | 13.396 | 0 | 0 | 0 | 0 | 13.396 |
| 265 | 13,142 | 0 | 0 | 0 | 0 | 13,142 |
| 266 |  | 0 | 13.005 | 0 | 0 | 13,05 |
| 267 | 12.599 | 0 | 0 | 0 | 0 | 12.599 |
| 268 | 12.542 | 0 | 0 | 0 | 0 | 12.542 |
| 269 | 8350 | 0 | 0 | 0 | 2.878 | 12.228 |
| 270 | 12361 | 0 | 0 | 0 | 0 | 12.361 |
| 271 | 12355 | 0 | 0 | 0 | 0 | 12355 |
| 272 | 12.238 | 0 | 0 | 0 | 0 | 12.238 |
| 273 | 12.100 | 0 | 0 | 0 | 0 | 12.106 |
| 274 | 12104 | 0 | 0 | 0 | 0 | 12.104 |
| 275 | 0 | 11,907 | 0 | 0 | 0 | 11.907 |
| 276 | 11.759 | 0 | 0 | 0 | 0 | 11.759 |
| 277 | 11.690 | 0 | 0 | 0 | 0 | 11.690 |
| 278 | 9.460 | 2,104 | 0 | 0 | 0 | 11.564 |
| 279 | 11,111 | 0 | 0 | 0 | 0 | 11.111 |
| 280 | 11.107 | 0 | 0 | 0 | 0 | 11.107 |
| 231 | 0 | 10.820 | 0 | 0 | 0 | 10.820 |
| 232 |  | 0 | 0 | 0 | 10.816 | 10.816 |
| 283 | 5.880 | 0 | 0 | 2,909 | 1.856 | 10,641 |
| 284 | 10.255 | 0 | 0 | 0 | 0 | 10.255 |
| 295 | 10.075 | 0 | 0 | 0 | 0 | 10,075 |
| 236 | 10.024 | 0 | 0 | 0 | 0 | 10.024 |
| 287 | 9,900 | 0 | 0 | 0 | 0 | 9.900 |
| 238 | 9.900 | 0 | 0 | 0 | 0 | 9.900 |
| 239 | 9.900 |  | 0 | 0 | 0 | 9.900 |
| 290 |  | 9.820 | 0 | 0 | 0 | 9.820 |
| 291 | 9.750 | 0 | 0 | 0 | 0 | 9.750 |
| 292 | 9.720 | 0 | 0 | 0 | 0. | 9.710 |
| 293 | 9.698 | 0 | 0 | O | 0 | 9.698 |
| 294 | 9.650 | 0 | 0 | 0. | Of | 9.650 |
| 285 |  | 0 | 0 | 0 | 9.457 | 9.457 |
| 296 |  | 0 | 9.382 | 0 | O. | 9.382 |
| 2971 | 9.154 | 0 | 0 | 0 | 0 | 9.154 |
| 298 | 9,148 | 0 | 0 | 0 | 0 | 9.148 |



| O bolder | 4A | 48 | 4 C | 4D | 4 E | TETAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 475 | 0 | 0 | 0 | 0 | 121 | 1211 |
| 476 | 0 | 0 | 0 | 0 | 104 | 104 |
| 477 | 0 | 0 | 0 | 0 | 103 | 103 |
| 478. | 0 | 0 | 0 | 0 | 100 | 100 |
| 479. | 0 | 0 | 0 | 0 | 98 | 98 |
| 480 | 0 | 0 | 0 | 0. | 96 | 96 |
| 481 | 0 | 0 | 0 | 0 | 91 | 91 |
| 482 | 0 | 0 | 0 | $0 \cdot$ | 83 | 83 |
| 483 | 71. | 0 | 0 | 0 | 0 | 71 |
| 484 | 0 | 0 | 0 | 0 | 56 | 56 |
| 485 | 0 | 0 | 0 | 0 | 52 | 32 |
| 488 | 0 | 0 | 0 | 0 | 47 | 47 |
| 487 | 0 | 0 | 0 | 0 | 45. | 46 |
| 488 | 0 | 0 | 0 | 0 | 43 | 45 |
| 489 | 0 | 01 | 0 | 0 | 41 | 41 |
| 490 | 0 | 0 | 0 | 0 | 34 | 34 |
| 491 | 32 | 0 | 0 | 0 | 0 | 32 |
| 492 | 0 | 0 | 0 | 0 | 30 | 30 |
| 493 | 0 | 0 | 0 | 0 | 27 | 27 |
| 494 | 0 | 0 | 0 | 0 | 23 | 23 |
| 495 | 0 | 0 | 0 | 0 | - 211 | 21 |
| 496 | 0 | 0 | 0 | 0. | 11 | 11 |
| TOTAL | 10,154.1871 | 3,325,461 | 2.034 .5811 | 2359.496 | 139.099 | 17.911 .8091 |
| 2 | 578 | 1900 | 118 | 13\% | 1\% |  |

## APPENDIX D

DISTRIBUTION OF 1996 HALIBUT AREA 4 UNBLOCKED QS HOLDERS

APPENDLX D. Distribution an berl unblacked Qs for all 1996 recipicols.

| QS bolder | 4 A C | U) | 4A Toull | $\frac{481}{41}$ | 4B Toul | $4 \frac{4}{41}$ | 4 CTousl | 41 | 10 Taxi | Grand Towd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 0 | 01 | 0 | 179.84 | [79.354] | Of | 0 | 0 | 0 | 179.85 |
| 2 | 0 | 0 | 0 | 208,526 | 208.526 | 0 | 0 | 0 | 0 | 208. 525 |
| 3 | 65 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| 4 | 254 | 0 | 26.4 | 0 | 0 | 0 | 0 | 0 | 0 | 254 |
| 5 | 0 | 0 | 0 | 0 | $-0$ | 0 | 0 | 397.104 | 297.104 | 297.104 |
|  | 3.992 | 0 | 5.992 | 0 | 0 | 243.456 | 243.456 | 0 | 0 | 249,448. |
| 7 | 45 | 0 | 45 | 0 | 0 | O | 0 | 0 | 0 | 45 |
| 8 | 0 | 180.054 | 180.054 | 146,341 | 145.341 | 0 | 0 | 0 | 0 | 326.595 |
| 9 | 793 | 0 | 793 | 0 | 0 | 0 | 0 | 0 | 0 | 793 |
| 10 | 57 | 0 | 37 | 9 | 0 | 0 | 0 | 0 | 0 | 37 |
| 11 | 60 | 0 | 60 | 0 | 0 | 9 | 0 | 0 | 0 | 60 |
| 12 | 0 | 1.935 | 1.935 | 0 | 0 | 0 | 0 | 154,426 | 154,426 | 156.361 |
| 13 | 0 | 154,423 | 154.423 | 0 | 0 | 0 | 0 | 0 | 0 | 154,423 |
| 14 | 0 | 175 | 175 | 0 | 0 | 0 | 0 | 0 | 0 | 175 |
| 15 | 111 | 0 | . 111 | 0 | 0 | 0 | 0 | 0 | 0 | 111 |
| 16 | 1.365 | 0 | 1.365 | 106.309 | 106,309 | 0 | 0 | 0 | 0 | 107.674 |
| 17 | 1.511 | 0 | 1,511 | 0 | 0 | 0 | 0 | 0 | 0 | 1.511 |
| 18 | 0 | 304,888 | 304,888 | 0 | 0 | 0 | 0 | 0 | 0 | 304.858 |
| 19 | 0 | 0 | Of | 90.916 | 90.916 | 0 | 0 | 0 | 0 | 00,916 |
| 20 | 0 | 0 | 0 | 211.539 | 211.539 | 0 | 0 | 0 | 0 | 211.539 |
| 21 | 673 | 0 | 673 | 121,761 | 121,761 | 0 | 0 | 0 | 0 | 127,434 |
| 22 | 0 | 0 | 0 | 271.750 | 271.750 | 0 | 0 | 171.865 | 171.865 | 443,615 |
| 23 | 0 | 0 | 0 | 0 | 0 | 185.175 | 185,175 | 0 | 0 | 185.175 |
| 24 | 58 | 0 | 528 | 0 | c- | 0 | 0 | 0 | 0 | 528 |
| 25 | 0 | 0 | 0 | 343.381 | 345,381 | 14,116 | 144,116 | 300.385 | $300,38.5$ | 789.882 |
| 261 | 0 | 171.171 | 171.171 | 0 | 0 | 0 | 0 | 0 | 0 | 171.171 |
| 27 | 72 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 92 |
| 281 | 71 | 0 | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 71 |
| 29 | 564 | 0 | 5601 | 0 | 0 | 0 | 0 | 0 | 0 | 56.4 |
| 30 | 12 | 0 | 12. | 0. | 0 | 0 | 0 | 0 | 0 | 12 |
| 31 | 1.78] | 0 | 1.787 | 0 | 0 | 0 | 0 | 0 | 0 | 1,787 |
| 32 | 0 | 541 | 541 | 0 | 어 | 0 | 0 | 0 | 0 | 341 |
| 331 | 0 | 84.955 | 84.955 | 113.630 | 113.630 | Of | 0 | 0 | 0 | 198, 385 |
| 341 | 775 | 0 | 775 | 0 | 0 | Of | 0 | 0 | 0 | 775 |
| 35 | 0 | 18,431 | 18.451 | 0 Of | 0 | 0 | 0 | 0 | 0 | 18,451 |
| 36 | 0 | 0 | 0 | 165,105 | 165.105 | 21.279 | 211270 | 0 | 0 | +06,38-4 |
| 37 | 82 | 0 | 82 | 0 | of | 0 | 0 | 0 | 0 | 82 |
| 38. | 10 | 0 | 10 | 0. | 0 | 0 | 0 | 0 | 01 | 10 |
| 39. | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 4 | 423 | 0 | 423 | 0 | 0 | 01 | 0 | 0 | 0 | 425 |
| 41 | 305 | 0 | 204 | 0 | 0 | 01 | 0 | 0 | 0 | 204 |
| 42 | 19 | 0 | 49 | 0 | 0 | Of | 0 | 0 | 0 | 49 |
| 43 | 96 | 0 | 96 | 0 | 0 | 01 | 0 | 0 | 0 | \% $\%$ |
| 4 | 0 | 42. | 442 | 0 | 0. | 01 | 0 | 0 | 0 | 42 |
| 45 | 0 | 0 | 0 | 211,794 | 231,794 | 0 | 0 | 0 | 0 | 211,704 |
| 46 | 410 | 0 | 410 | 0 | 0 | 0 | 01 | 0 | 0 | 410 |
| 47 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 48 | 71 | 0 | 71. | 0 | 0 | 0 | 0 | 0 | 0 | 71 |
| 49 | 0 | 87,451 | 87.451 | 0 | 0 | 01 | 0 | 0 | 0 | 87,411 |
| SO | 0 | 0 |  | 308.300 | 308.800 | 0 | 0 | 0. | 0 | 308,800 |
| 51 | 0 | 0) |  |  |  | 186,423 | 186,42 | 0 | 0 | 188,423 |
| 52. | 0 | 158.607 | 158.507 | Of | 0 | 0 | 0 | 0 | 0 | 158.607 |
| 53 | 500 | 0 | 600 | 0 | 0 | 0 | 0 | 0 | 0 | 600 |
| 5 | 0 | 107.573 | 107.523 | 0 | 0 | 0 | 0 | 0 | 0 | 107.523 |
| 55 | 0 | 177.145 | 177.145 | \$90.576 | \$ 0 , 576 | 0 | 0 | 0 | 0 | 667.721 |
| 36. | 0 | 105,305 | 105,305 | 0 | 0 | 0 | 0 | 0 | 0 | 105.305 |
| 57 | 0 | 267.932 | 267,932 | 0 | 0 | 0 | 0 | 0 | 0 | 257.932 |
| 58 | 43 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | $4]$ |
| 59 | 33 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | $3]$ |
| 60 | 703 | 0 | 703 | 0 | 0 | 0 | 0 | 0 | 0 | 703 |
| 61 | 313 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |
| 52 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 67 | 378 | 0 | 338 | 0 | Of | 0 | 0 | 0 | 0 | 338 |
| 64 | 38 | 0 | 38 | 01 | 0 | 0 | 0 | 0 | 0. | 38 |
| 65 | 11 | 0 | 31 | 0 | 0 | 01 | 0 | 0 | 0 | 31 |
| 66 | 4) | 0 | 401 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 67 | 139 | 0 | 139 | 01 | 9 | 0 | 0 | 0 | 0 | 159 |


| OS holden: | ${ }_{4}^{4 .}$ | $4$ | 4A Tous | $\frac{48}{41}$ | 4 B Toal | $\stackrel{4}{4}$ | 4 CTON | 4D | 40 Toun | Graxd Tow |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 137 | 150 | 0 | 150 | 0 | 0 | of | Of | 0 | 0 | 150 |
| 138 | 2 | $勹$ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | , |
| 139 | 7 | 0 | , | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 140 | 62 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| 141 | 769 | 0 | 769 | 0 | 0 | 0 | 0 | 0 | 0 | 769 |
| 142 | 0 | 30 | 30 | 0 | 0 | 0 | Of | 0 | 0 | 30 |
| 143 | 5 | 0 | 5 | 0 | -0 | 0 | 0 | 0 | 0 | 5 |
| 144 | 191 | 0 | 191 | 0 | $\bigcirc$ | 0 | 0 | 0 | 0 | 191 |
| 145 | 79 | 0 | 79 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| 146 | 219 | 0 | 219 | 0. | O | 0 | 0 | 0 | 0 | 219 |
| 147 | 0 | 0 | 0 | [84,294 | 184.294 | 0. | 0 | 0 | 0 | 184.294 |
| 148 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 149 | 246 | 0 | 246 | 0 | 0 | 0 | 0 | 0 | 0 | 245 |
| 150 | 510 | 0 | 510 | 0 | 0 | 0 | 0 | 0 | 0 | 510 |
| 151 | 86 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 86 |
| 152 | 1.41 | 0 | 1.441 | 0 | 0 | 0 | 0 | 0 | 0 | 1.44 |
| 153 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 154 | 0 | 1\%\%00 | 18,060 | 0 | 0 | 0 | 0 | 0 | 0 | $1 \% .060$ |
| 155 | 2 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 156 | 0 | 529 | 529 | 0 | 0 | 0 | 0 | 0 | 0 | 529 |
| 157 | 181 | 0 | 181 | 0 | 0 | 0 | 2) | 0 | O | 131 |
| 158 | $3 \cdot 2$ | 0 | 342 | 0 | 0 | 0 | 0 | 0. | 0 | 312 |
| 159 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 160 | 109 | 0 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 109 |
| 161 | 0 | 324.709 | 378,709 | 113.387 | 113.387 | 0 | 0 | 0. | 0 | 42.096 |
| 162 | 0 | 0 | Of |  | 0 | [28,008 | 128,008 | 0 | 0 | 128.008 |
| 163 | 231 | 0 | 231 | 0 | 0 | 0 | 0 | 0. | 0 | 231 |
| 164 | 165 | 0 | 16.5 | 0 | 0 | 0 | 0 | 0 | 0 | 165 |
| 165 | 0 | 734 | 734 | 0 of | 0 | 0 | 0 | 0 | 0 | 75 |
| 160 | 23 | 0 | 23. | 0. | 0 | 0 | 0 | 0 | 0 | 23 |
| 167 | 147 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 0 | 147 |
| 168. | 88 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | of | 98 |
| 169 | 136 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | O | 126 |
| 170 | 100 | 0 | 100 | 0 | 0 | 0 | Of | 0 | 0 | 100 |
| 171 | 49 | 0 | 49 | 0 | 0 | 0 | Of | 0 | 0 | 49 |
| 172 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 241.540 | 241540 | 241,540 |
| 173 | 102 | 0 | 102 | 0 | 0 | 0 | 0 | O | 0 | 102 |
| 174 | 0 | 0 | 0 | 93.320 | 91.320 | 0. | O- | 0 | 0 | 93.320 |
| 175 | 2018 | 0 | 2.018 |  | 0 | 0 | 0 | 0 | 0 | 2.018 |
| 176. | 0 | 0 | 0 | 239.816 | 29.816 | 0 | 0 | 0 | 0 | 239.816 |
| 177 | 0 | 800 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 800 |
| 178 | 22 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 179 | 86 | 0 | 36 | of | 0 | 0 | 0 | 0 | 0 | 86 |
| 180 | 0 | 0 | 0 | 234,159 | 23.159 | 0 | 0 | 331.158 | 311,155 | 565.314 |
| 181 | 0 | Of | 0 | 219.984 | 219.984 | 0 | 0 |  | 0 | 219.584 |
| 182 | 51 | 0 | 51 |  | 0 | 0 | 0 | 0 | 0 | 31 |
| 183) | , | 0 | 0 | 251.705 | 253.705 | 0 | 0 |  | 28.44 | 538.149 |
| 184 | 10 | 0. | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1851 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 186 | 12 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 187 | 87 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 87 |
| 188 | 0 | 1202 | 1.302 | 0 | 0 | 0 | 0 | 0 | 0 | 1.202 |
| 189 | so | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 190 | 11 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 191 | 202 |  | 202 |  |  | 0 | 0 | 0 | 0 | 2 m |
| 192 | a | 279.516 | 275.516 | 0 | 0 | 0 | 0 | 0 | 0 | 279,516 |
| 193 | 1.568 | 0 | 1.568 |  |  | of | 0 | 0 | of | 1,568 |
| 194 | 5,4301 | 0 | 5.884, | 153,740 | 153.740. | 0 | 0 | 280,175 | 230.175 | 439399 |
| 198 | 1, DS0 | Of | 1.060 | 0 | 0 | 0 | O | 0 | 0 | 1,060 |
| 196 | 199 | 0 | 199 | 0 | Of | 0 | 0 | 0 | 0 | 199 |
| 197 | 20 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 220 |
| 1,98 | 92 | of | 92 | 0 | 0 | 0 | 0 | 0 | ol | 92 |
| TUTAL | 62.595 | 3.909 .914 | 3.972509 | 5.743.1021 | 5.743 .1021 | 1.921,1:9 | 1.921.119 | 2425.500 | 2,426.5001 | 14.063230 |
| 4 or total |  | 1 | $28 \% 1$ |  | 418.) |  | 14\%1 |  | 17\% | 100\% |

## G:\FCM-J\ALASKA\IFQUUSECAPS.EA

## SUPPLEMENT

Final Regulatory Flexibility Analysis (FRFA)<br>for a Regulatory Amendment to Increase Halibut Quota Share (QS) Use Limits in Regulatory Area 4 of the Individual Fishing Quota (IFQ) Program.

January 10, 1997

## BACKGROUND

The North Pacific Fishery Management Council (Council) recommended and NMFS prepared this regulatory amendment and its supporting documents under authority of the MagnusonStevens Fishery Conservation and Management Act. The Council also prepared an initial regulatory flexibility analysis (IRFA) in support of the proposed action. On December 2, 1996 (61 FR 63812), NMFS published in the Federal Register a proposed rule inviting public comments on the proposed amendment, the IRFA, and other supporting documents through January 2, 1997. NMFS approved the regulatory amendment on [date] and will implement this action through a final rule. Copies of the IRFA are available from the Council or from NMFS (see Further Information below).

In conjunction with promulgation of the final rule to implement this regulatory action, NMFS has prepared this FRFA as a supplement and appendix to the IRFA. The reasons for this action are explained in the preamble to the proposed rule. There have been no changes in the measures as described in the proposed rule for this action.

## OBJECTIVES OF AND NEED FOR THE FINAL RULE

Limits on QS use were created in response to concerns that an unrestricted market for QS could result in a few powerful interests controlling most of the IFQ landings and thus result in excessive decreases in the number and demographic distribution of vessels and fishermen participating in the fixed gear halibut fishery. The use limits rescrict the amount of QS that a single QS holder may use to harvest IFQ species. Current regulations at 50 CFR 679.42(b)(3) allow a single QS holder to use no more than one-half percent (0.005) of the total amount of halibut $Q S$ for IFQ regulatory areas $4 \mathrm{~A}, 4 \mathrm{~B}, 4 \mathrm{C}, 4 \mathrm{D}$, and 4 E combined, unless the amount in excess of this limit was received in the initial allocation of QS. The one-half percent limit for these regulatory Areas combined limited QS use to 165,015 QS units per IFQ holder in 1996.

The amount of halibut, in pounds, that a fisherman is allowed to harvest each year is calculated annually by dividing the number of QS units a fisherman holds by the QS pool, the total of all QS for each respective IFQ regulatory area. From the resulting figure is derived the percentage of the catch limit of halibut that a fisherman may harvest in each IFQ regulatory area for which he holds QS . This percentage is then multiplied by the catch limit in each IFQ regulatory area determined annually for halibut by the IPHC. The mathematical formula for deriving IFQ pounds from QS is given at 50 CFR 679.40 (c). Because the TAC can change annually in response to changes in fish stocks, IFQ based on a certain amount of

QS can also vary from year to year. The QS pool can also change as appeals are decided and additional QS issued, or as QS are revoked due to violations.

In 1995, representatives of the fishing industry testified to the Council that the limited profits available from halibut harvests under the one-half percent limit were insufficient to justify the expense of traveling to remote fishing grounds in the western Aleutian Islands and Bering Sea. To further exacerbate this problem, most QS are distributed anong IFQ regulatory areas $4 \mathrm{~A}, 4 \mathrm{~B}, 4 \mathrm{C}, 4 \mathrm{D}$, and 4 E . Hence, QS units result in differing amounts of IFQ poundage for each specific regulatory area. For example, in 1996, the Area 4 use cap of one-half percent ( 165,015 QS units) resulted in 32,813 IFQ pounds for regulatory area 4 B , but only 16,005 IFQ pounds for regulatory area 4 C . Moreover, because the current use limit is expressed as a percentage of the QS pool and the size of the QS pool can vary from year to year, a fisherman's QS holdings that are at the use limit one year could exceed the use limit in another year without the fisherman adding more QS to his holdings.

At its meeting in January 1996, the Council initiated an analysis of options for increasing BSAI halibut use limits from one percent to two percent and at its next meeting, in April 1996, approved the analysis for public review. The Council took final action to recommend a regulatory amendment increasing the use limits to one percent at its meeting in June, 1996. Under this proposal, the halibut QS use limit in the BSAI would be increased from one-half percent to one percent of the QS pool. This would allow halibut QS holders currently at the present limit to increase their QS and would provide greater economic incentive to harvest halibut in remote areas of the western Aleutian Islands and Bering Sea.

Current regulations at 50 CFR 679.42 set the use limit as a percentage of the QS pool in any given year; this action would fix the use limit for regulatory area 4 at one percent of the 1996 QS pool for a total of 333,029 QS units. For consistency, regulations at 50 CFR $679.42(\mathrm{f})(1)$ and (2), which set halibut QS use limits for IFQ regulatory areas $2 \mathrm{C}, 3 \mathrm{~A}$, and 3 B , would be revised also to set the halibut $Q S$ use limit for all IFQ regulatory areas at a fixed number of QS units rather than a percentage of the annual QS pool. By setting the use limit at a fixed number of QS units, this action would provide QS holders with an unchanging QS limit that will not vary according to the size of the QS pool. While the amount of IFQ produced from a certain amount of QS will vary from year to year, an invariable use limit would allow QS holders to judge more accurately whether or not their holdings exceed the use limit.

## A SUMMARY OF SIGNIFICANT ISSUES RAISED BY PUBLIC COMMENTS

No letters of comment on this regulatory amendment were received during the public comment period for the proposed rule.

## DESCRIPTION AND ESTIMATE OF THE NUMBER OF SMALL BUSINESS TO WHICH THE RULE WILL APPLY

Approximately 500 halibut QS holders in regulatory areas 4A-4D will benefit from an increase in the Area 4 QS use limit, either as QS buyers or sellers. Area 4 E would not be affected by this action, because all of the halibut QS in this area is assigned to the CDQ Program. Under this action, 32 QS holders would be allowed to increase their holdings above the current limit to the new limit. Because blocked QS are limited by block and vessel category restrictions, unblocked QS units are more likely to be transferred. The unblocked halibut QS units in regulatory areas 4A-D equal approximately 2.1 million lb of halibut worth more than $\$ 4.6$ million in ex-vessel value.

## DESCRIPTION OF THE PROIECTED REPORTING, RECORDKEEPING, AND OTHER COMPLIANCE REQUIREMENTS OF THE RULE

No significant additional administrative, enforcement, or information costs are expected under this action.

## DESCRIPTION OF THE STEPS THE AGENCY HAS TAKEN TO MINIMIZE THE SIGNIFICANT ECONOMIC IMPACTS ON SMALL ENTITIES

This action will have a significant positive impact on small businesses. It is not likely to lead to a reduction in the gross revenues received by the small business sector of the fleet. Rather, the altematives to the status quo will significantly improve the profitability of operations for fishermen wishing to harvest IFQ halibut in remote areas of the western Aleutian Islands and Bering Sea. It will have no associated negative impacts that need to be minimized.

## FURTHER INFORMATION

For further information contact: James Hale, Alaska Regional Office, NMFS, phone: 907-586-7228. Copies of the final rule and the Environmental Assessment/Regulatory Impact Review/nitial Regulatory Flexibility Analysis and Supplemental Final Regulatory Flexibility Analysis for this action may be obtained from Fisheries Management Division, Attn: Lori Gravel, Alaska Region, National Marine Fisheries Service, P.O. Box 21668, Juneau, AK 99802.

