

**DOCUMENT SAC-04-11**  
**INDIVIDUAL-VESSEL QUOTAS**  
**FOR PURSE-SEINE VESSELS**  
**THAT FISH ON FISH-**  
**AGGREGATING DEVICES (FADS)**

**SCIENTIFIC ADVISORY COMMITTEE**  
**FOURTH MEETING**

## Individual Vessel Quotas

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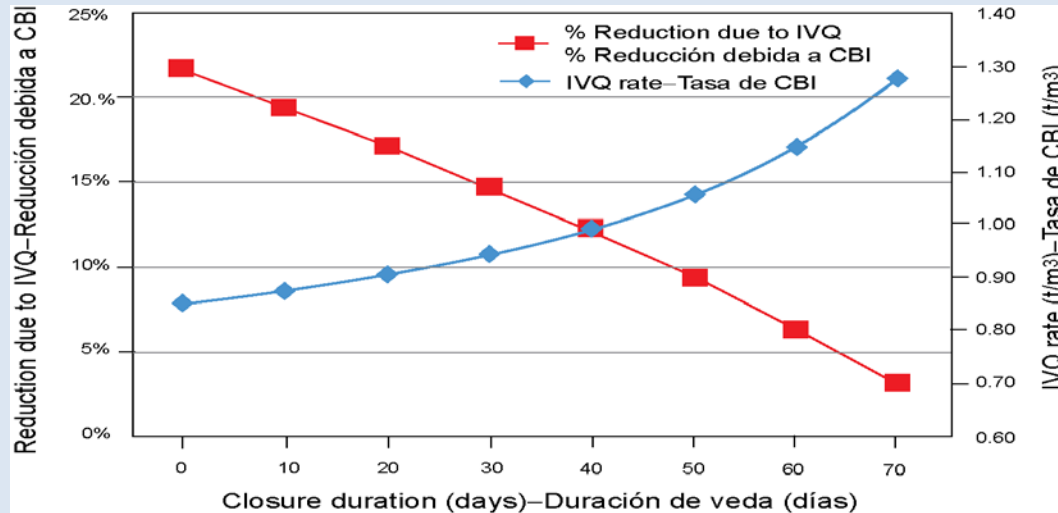
- 100 class-6 purse-seine vessels were identified whose annual catches of bigeye in sets on floating objects during 2009-2011 averaged at least 50 metric tons (t).
- observer estimates of the annual total catches by these vessels in such sets averaged 50,656 t and 29,611 t of bigeye and yellowfin tuna
- Yellowfin was included in the IVQ analysis for several reasons, including: (1) distinguishing small yellowfin from bigeye can be difficult at sea; (2) conservation of yellowfin of the small sizes generally caught in floating-object sets is an appropriate management goal.
- The analyses were carried out for bigeye catches only and also for the combined catch of bigeye and yellowfin by the same group of 100 vessels.

## Individual Vessel Quotas

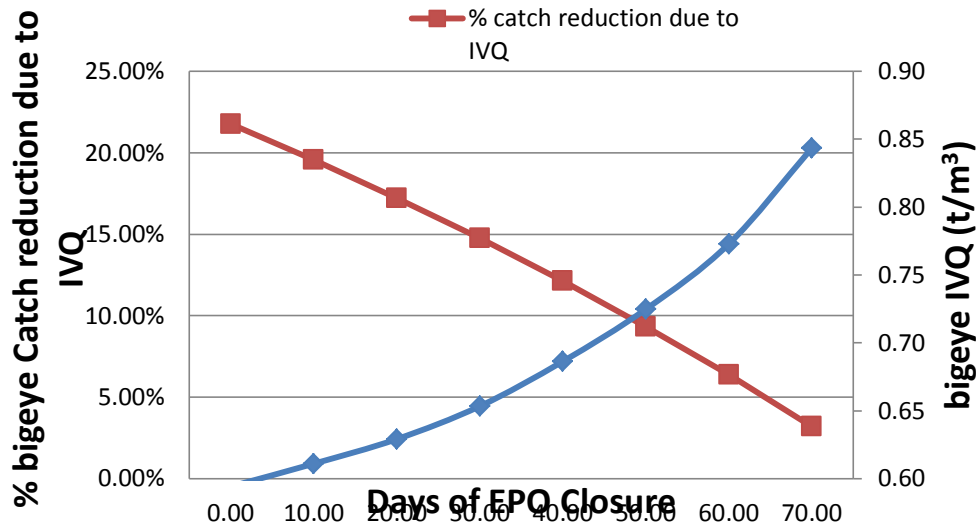
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- IVQs were calculated by multiplying the vessel's capacity by the IVQ rate, a calculated quantity designed to make the projected total catch by the fleet equal to the target catch for achieving the desired conservation goal.
- For a given number of days of closure, the projected catch is the lesser of (a) the vessel's IVQ or (b) its total estimated catch of bigeye and yellowfin combined during the allowable days of fishing.
- Actual vessel performance is taken into account by the use of that formula in the analysis.

# IVQ rates corresponding to various closure durations, and reduction in total catch due to IVQ.



## IVQ of bigeye for various closures and percent reduction in catch due to IVQ



# Individual Vessel Quotas for YFT + BET of [0.59][0.86] t/m<sup>3</sup>

## Individual Vessel Quotas for BET of [0.38][0.59] t/m<sup>3</sup>

