A Tale of Two Co-ops

Dealing with Constraining Species in a Co-Management System with Full Catch Accounting
The Pacific Whiting Fishery

The Mothership Sector
Rationalization through a Cooperative
A common pool of Target and Bycatch Species Quotas

The Shorebased Sector
Rationalization through IFQs
Individual Target and Bycatch Quotas
The “Choke” Species

The Mothership Co-op
One bad tow can shut down the fleet for the season.

The Shorebased Co-op
One bad tow can shut down a vessel for over a year.
Constraints per 100 Tons of Whiting

- 22 Pounds of Darkblotched
- 19 Pounds of Canaries
- 425 Pounds of Widows
- 25 Pounds of POP
- 3 Chinook Salmon
The “Heart Attack” Species

What Am I Worth Today?

Jan. 1\textsuperscript{st} - $30.00/lb

Dec 30\textsuperscript{th} – zippo

The day you are in deficit and you still have 10,000,000 pounds of Whiting left in the water?

“Priceless…”
## Balancing Accountability and Risk

<table>
<thead>
<tr>
<th>The Mothership Co-op</th>
<th>The Shorebased Co-op</th>
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<tbody>
<tr>
<td>The task of the co-op is to individualize accountability while managing a common quota</td>
<td>The task of the co-op is to collectivize risk while maintaining individual accountability.</td>
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<td>A “Necessary” Co-op</td>
<td>A “Voluntary” Co-op</td>
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### A Common Set of Tools

- Observer Data – Historic and Real Time
- VMS Track Lines – Historic and Real Time
- Captain’s Logbooks and Local Knowledge
- GIS Analysis
Shorebased Whiting Co-op

“Insuring Against Lightning Strikes Since 2012”

- Premiums
- Deductibles
- Co-Pays
- Life Time Benefit Caps
- Smoke Detector Requirements
Some of the Co-op Rules

A 20 Page Contract Among Members

- Waiver of Confidentiality for:
  - Observer & Fish Ticket Data
  - VMS Data

- Full Data Transparency within the Co-op
- Data Sharing with other Whiting Sectors
- Agreement to Abide by Co-op Closures
  - Spatial Closures
  - Night Fishing Restrictions
From the Data to Self Imposed Avoidance Areas
31 Closures and 43 Advisory Areas

Tows with Darkblotched Bycatch
Whiting Harvest “Heat Map”
SWC Closed and Advisory Areas
Observer Data in the Hands of Captains
The Sea State accesses fish ticket data through the NMFS catch accounting website, but there can be a 48 hour lag time between delivery and data availability. Captains are asked to enter preliminary catch data before starting a new trip.
Members get daily reports on catch and bycatch for all members of the co-op.
Members can view any tracks with bycatch above the “base rates.”
Members can see detailed information about catch and bycatch by clicking on a VMS track.
The Co-op manager can view all tracks to monitor compliance with area closures.
Acknowledgements:

National Fish and Wildlife Foundation

NMFS Observer Program

Sea State, Inc.
Questions?