The Pollock Conservation Cooperative

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Eastern Bering Sea Pollock Catch, 1964-1999

- Eastern Bering Sea
- Aleutian Islands
- Bogoslof District
- Donut Hole
Bering Sea Pollock Fishery
Preliminary 1999 A-Season Daily Catches by Sector

Source: NMFS AKFSC - SeaState, Inc.
Exploitable Biomass (Age 3+) and Catch, Eastern Bering Sea Pollock, 1978-2002

Figure 4. Surimi grade fractions (left scale) and average value (right scale), by month.

Source: At-sea Processors Association, per kg grade values (in parentheses) are industry expected values for 1999, yen value is 120 per US dollar.
Figure 5. Pollock roe grade fractions (left scale) and average value (right scale), by period.

Source: At-sea Processors Association, per kg grade values (in parentheses) are industry expected values for 1999, yen value is 120 per US dollar.
Figure 3. Pollock finished product recoveries by week.

Source: At-sea Processors Association; values assume no spatial changes in fishing activities.
Estimated Weekly Round-Pollock Product Values
2000 Eastern Bering Sea Pollock Fishery

Year-round Average
$791 per Metric Ton

Source: At-Sea Processors Association; values reflect first wholesale prices for pollock roe, surimi, and fish meal.
Figure 3. Costs, Returns, and Supplemental Fish Bid Potential for a Bering Sea Surimi Trawler (CDQ Fish Provide 10% Greater Product Recovery).

Baseline Scale of Operation is 40,000 mt

<table>
<thead>
<tr>
<th>CDQ Fish</th>
<th>Bid Potential ($)/mt</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000</td>
<td>155</td>
</tr>
<tr>
<td>15,000</td>
<td>178</td>
</tr>
<tr>
<td>20,000</td>
<td>198</td>
</tr>
</tbody>
</table>

Bid Potential is $155 per Metric Ton

Source: At-Sea Processors Association, 1997.
Figure 4. Costs, Returns, and Supplemental Fish Bid Potential for a Bering Sea Surimi Trawler (Baseline Operation Reduced to 32,000 mt).

Costs Exceed Revenues with Reduced Baseline Operation

Bid Potential is $36 per Metric Ton

Baseline Scale of Operation is 32,000 mt

CDQ Fish (mt)       Bid Potential ($/mt)
10,000        36
15,000        68
20,000        95

Source: At-Sea Processors Association, 1997.
Pacific Whiting Conservation Cooperative
Historic Catch and Cooperative Fishing Shares

- Catch Share (%)

<table>
<thead>
<tr>
<th>Company</th>
<th>Catch History</th>
<th>Cooperative Fishing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>9</td>
</tr>
</tbody>
</table>
Figure 2. Real Average Hourly Wages for Shoreplant Processors in Southwest Alaska and Real Average Value of Pollock Landings in Alaska, 1991-1996.

Sources: Alaska Wage Rate Book, Alaska Dept. of Labor; Fisheries of the United States, U.S. Dept. of Commerce. Nominal values converted to real values using the implicit price deflator for personal consumption expenditures, 1992=100, Bureau of Economic Analysis, U.S. Dept. of Commerce.
Figure X. Overlay of Shoreside Processing Wages, Fraction of Shoreside Processing Labor Contributed by Alaskans, and Fraction of Pollock Landings Processed Inshore, 1991-1996.
<table>
<thead>
<tr>
<th></th>
<th>I-O II</th>
<th>I-O III</th>
<th>AFA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDQ</td>
<td>7.5%</td>
<td>7.5%</td>
<td>10%</td>
</tr>
<tr>
<td>Bycatch</td>
<td>4-6%</td>
<td>4-6%</td>
<td>4-6%</td>
</tr>
<tr>
<td>Inshore (SP CVs)</td>
<td>35%</td>
<td>39%</td>
<td>50%</td>
</tr>
<tr>
<td>Offshore</td>
<td>65%</td>
<td>61%</td>
<td></td>
</tr>
<tr>
<td>MS CVs</td>
<td></td>
<td></td>
<td>10%</td>
</tr>
<tr>
<td>CPs</td>
<td></td>
<td></td>
<td>36.6%</td>
</tr>
<tr>
<td>CP CVs</td>
<td></td>
<td></td>
<td>3.4%</td>
</tr>
</tbody>
</table>
Figure 1. Lost gross value of processing inputs offshore due to inshore-offshore #3 BSAI pollock reallocation.
Figure 2. Lost net harvesting and processing value offshore due to inshore-offshore #3 BSAI pollock reallocation.
Figure 3. Lost ITQ value offshore due to inshore-offshore #3 BSAI pollock reallocation.
Average Annual Western Stock Abundance Trend
Log-Linear Regression Model Estimate

\[ Y = 10.5711 - 0.0406^* \text{ Year} \]

\( (0.019) \quad (0.0032) \)
Bering Sea Pollock A-Season Daily Catches Before and After Implementation of S.1221

Before: Average Catch per Day by Processing Sector, 1994-1997, and Concomitant Season Lengths
Given a 1.0 Million MT TAC for Bering Sea Pollock (No CDQ).

After: Projected Average Catch per Day by Processing Sector After S.1221 Reallocation, and Concomitant Season Lengths Given a 1.0 Million MT TAC for Bering Sea Pollock and Sector Staggered Start.

Source: Projections use sector average daily BSAI pollock catch 1994-1997; pollock catches and fishing days from NMFS Alaska inseason management data.
Bering Sea Pollock B-Season Daily Catches Before and After Implementation of S.1221

Before: Average Catch per Day by Processing Sector, 1994-1997, and Concomitant Season Lengths Given a 1.0 Million MT TAC for Bering Sea Pollock (No CDQ).

- Catcher-Processors
- Inshore Plants
- Motherships

After: Projected Average Catch per Day by Processing Sector After S.1221 Reallocation, and Concomitant Season Lengths Given a 1.0 Million MT TAC for Bering Sea Pollock and Sector Staggered Start.

Source: Projections use sector average daily BSAI pollock catch 1994-1997; pollock catches and fishing days from NMFS Alaska inseason management data.
Pollock Conservation Cooperative
Historic Catch and Cooperative Fishing Shares

![Graph showing catch share for different companies. The x-axis represents companies from 1 to 8, and the y-axis represents catch share (%). The graph compares catch history and cooperative fishing shares. Company 8 has a significantly higher catch share compared to other companies.]
Catch Profiles
AFA 20 Eligible Catcher-Processors, 1996-98

A Measure of Cumulative Catch with Vessels Ordered from Highest to Lowest Catch
CRP — 1999A

Figure 4A. A-season relative fishing power of AFA catcher-processors, 1995-1998.
Figure 4B. B-season relative fishing power of AFA catcher-processors, 1995-1998.
Vanishing AFA Catcher-Processor Harvesting Sideboards

Source: Alternative CP limits based on the 1999 BSAI harvest specifications (FR 64:12103-12116) and a NMFS proposed rule to base the limits on retained instead of total catch (FR 65:4527).
Average Hauls Per Day
AFA Catcher-Processors, 1995-1999

'99A Hauls per Day Down 45% from Average During '95-'98

20+9 Listed
20 Eligible
16 Fishing '99A
Average Catch Per Haul
AFA Catcher-Processors, 1995-1999

A-Season

- 20+9 Listed
- 20 Eligible
- 16 Fishing '99A

'99A Catch per Haul Down 27% from Average During '95-'98
Average Daily Catch
AFA Catcher-Processors, 1995-1999

A-Season

- 20+9 Listed
- 20 Eligible
- 16 Fishing '99A

Year

Metric Tons


'99A Daily Catch Down 60% from Average During '95-'98
Fishing Days, 1990-1999
US Eastern Bering Sea Pollock Fishery

Cooperative Fishing Initiated by Catcher-Processor Sector of Offshore Fishery
Bering Sea Pollock Fishery
Catcher-Processor 1998 A-Season Daily Catches; No CDQ

Source: NMFS AKFSC - SeaState, Inc.
Bering Sea Pollock Fishery
Catcher-Processor 1999 and 1998 A-Season Daily Catches; No CDQ

Source: NMFS AKFSC - SeaState, Inc.
Figure 1. Total Product Recovery.

Source: SeaState, Inc. PCC and CDQ catch per haul, 1998-2002; NMFS AK Region Pacific cod and pollock products by processing mode, 1998-2002, BSAI groundfish quotas and preliminary catch in round metric tons, 1999-2002, and CDQ participation and catch by gear, 1999-2002. Total product recovery estimates include both directed-fishing and CDQ pollock harvests, and are calculated as the weight of all products produced divided by the weight of the round pollock used to obtain the products.
During 2002 total product recovery is estimated to have increased by 44% over the 1998 open-access "race-for-fish" baseline.

Source: SeaState, Inc. PCC and CDQ catch per haul, 1998-2002; NMFS AK Region Pacific cod and pollock products by processing mode, 1998-2002, BSAI groundfish quotas and preliminary catch in round metric tons, 1999-2002, and CDQ participation and catch by gear, 1999-2002. Note that this figure does not show individual product recovery rates, but instead the average product mix that was produced from the total amount of pollock harvested throughout the entire year.
Data Source: SeaState, July 11, 2000