Rose Canyon Fisheries
A Commercial, Sustainable Aquaculture Enterprise

Presented to
Pacific States Fisheries Management Council
Friday, April 11, 2015; Rohnert Park, CA
The Project

- A commercial scale, state-of-the-art, offshore aquaculture project
  - Evaluate both economic and environmental sustainability
  - Scale up to 5,000 metric tons (11 million pounds) annual production
  - Annual sales in excess of $50 million with potential 2:1 economic benefit to the region
The Need

Secure an increased domestic supply of safe and healthy seafood
- 91% of US seafood is imported
- Annual seafood imports total over $16 billion
- 50% of global supply of seafood is farmed
- The US cultures only 2.5% of the seafood consumed
- Domestic fisheries supply only 6.5%
- US needs another 2 to 4 million tons annually
USA has Potential for Greater Production

<table>
<thead>
<tr>
<th>Country</th>
<th>Aquaculture Production (metric tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bangladesh</td>
<td>1,308,515</td>
</tr>
<tr>
<td>Vietnam</td>
<td>2,671,800</td>
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<tr>
<td>Thailand</td>
<td>1,286,122</td>
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<tr>
<td>Myanmar</td>
<td>850,697</td>
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<tr>
<td>Egypt</td>
<td>919,585</td>
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<td>Philippines</td>
<td>744,695</td>
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<td>Norway</td>
<td>1,008,010</td>
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<td>Chile</td>
<td>701,062</td>
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<td>Japan</td>
<td>718,284</td>
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<td>India</td>
<td>4,648,851</td>
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<td>Indonesia</td>
<td>2,304,828</td>
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<td>China</td>
<td>36,734,215</td>
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<tr>
<td>USA</td>
<td>495,499</td>
</tr>
</tbody>
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Top 13 Aquaculture Producers Worldwide

Total aquaculture production in relation to land and water resources

Legend:
- Fish: Total aquaculture production (metric tonnes)
- Yellow: Total land area
- Blue: Total water area (land + exclusive economic zone)

Sources of all seafood consumed in U.S.

- U.S. Farmed: 2.3%
- U.S. Wild-caught: 6.3%
- Imported Wild-caught: 15%
- Imported Farmed: 46%

Data as of 2012, NOAA National Marine Fisheries Service.

California’s Commercial Fishing

Commercial Fish Landings for 2013

2013 Total: $256 Million, 165K Metric Tons
San Diego Commercial Fishing

Value of Commercial Landings in 2013 (Total = $8.3M)

- Lobster, California spiny, $4,611,682
- Prawn, spot, $819,595
- Sea urchin, red, $509,295
- Swordfish, $473,529
- Thornyhead, shortspine, $431,039
- Sablefish, $333,658
- Prawn, ridgeback, $180,226
- Sheephead, California, $134,975
- Seabass, white, $107,242
- Other, $732,122

- Total Value: $8,300,000