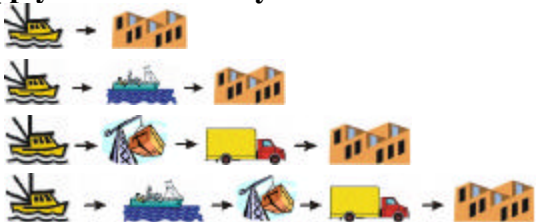
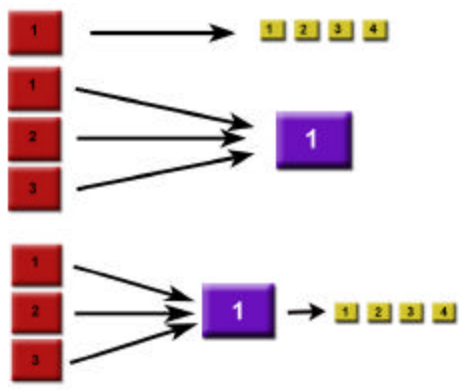


## Traceability Readiness Report Card

<b>Fishery:</b> <i>Roe Herring Seine and Gillnet</i>	<b>State of Readiness Assessment:</b>  <b>Total Score =</b> <b>B</b>
<b>Fishery Overview:</b> <ul style="list-style-type: none"> <li>• Short openings with area Total Allowable Catches and pooled fishing effort</li> <li>• Effort is based on competition and fishing opportunity (stock forecasts).</li> <li>• Fishing occurs in specific nearshore areas throughout the BC coast</li> <li>• Catch is primarily herring. There are no bycatch issues</li> <li>• Pooling of product is infrequent for seine caught herring but common on packers for gillnet caught herring.</li> <li>• Batch = offload, Trade unit = totes of fish, Logistic unit = totes of fish</li> <li>• A differential price is paid based on quality (delivery for a single vessel or pooled packer load).</li> <li>• One association represents industry – Herring Conservation and Research Society (HCRS)</li> </ul>	
<b>Supply Chain Pathways</b>  <p>The diagrams illustrate four different supply chain pathways: 1. A fishing vessel (yellow) goes to a processing plant (orange). 2. A fishing vessel (yellow) goes to a larger vessel (blue), which then goes to a processing plant (orange). 3. A fishing vessel (yellow) goes to a processing plant (orange), then to a truck (yellow), and finally to a processing plant (orange). 4. A fishing vessel (yellow) goes to a larger vessel (blue), then to a processing plant (orange), then to a truck (yellow), and finally to a processing plant (orange).</p>	<b>Unit Transformations</b>  <p>The diagrams show unit transformations: 1. A single red unit '1' is transformed into four yellow units '1', '2', '3', and '4'. 2. Three red units '1', '2', and '3' are combined into a single purple unit '1'. 3. Three red units '1', '2', and '3' are combined into a single purple unit '1', which is then transformed into four yellow units '1', '2', '3', and '4'.</p>
<b>Markets:</b> <ul style="list-style-type: none"> <li>• Market is primarily for salted roe to Japan. Domestic market is extremely small.</li> <li>• Fresh iced herring is delivered to buyers</li> <li>• Product quality concerns are based on freshness, size, texture and colour of eggs.</li> <li>• Japanese traceability regulations are not yet developed, will also be of concern.</li> </ul>	

<p><b>Data Availability from Fisheries Monitoring Programs:</b> Traceability data is currently collected through the following processes.</p>		<b>Score = 1</b>
<p><b>Harvester</b> Validation Record - MSP Offload Tally – custom offloader</p>	<p><b>Transporter</b> Validation Record – MSP Offload Tally – MSP and custom offloader Bill of Lading – transporter</p>	<p><b>Buyer</b> Validation Record – MSP Offload Tally – custom offloader Bill of Lading – transporter Delivery Record – buyer Processing Records – buyer Sales Records - buyer</p>
<p><b>What product or business data is missing?</b> units in shipment, type of package, transport firm, data access contact persons (data responsible party) for the harvester, buyer and transporter.</p> <p><b>Is the data electronically accessible to the supply chain?</b> No. Paper validation records are maintained by the harvester. A confidential electronic database is maintained by the MSP.</p> <p><b>Is the data verifiable?</b> Yes through 100% dockside validation</p>		
<p><b>Product Identifiers:</b> Unique trade and/or logistic unit identifiers are not used.</p>		<b>Score = 3</b>
<p><b>Data Transfer and Information Mapping:</b> Current data systems are hail and paper based with validation records accompanying deliveries to the buyer.</p>		<b>Score = 2</b>
<p><b>Industry Leadership:</b> One association represents industry</p>		<b>Score = 1.5</b>
<p><b>Processor Level Constraints:</b> Minimal as pooled product is traced through the plant for quality monitoring</p>		<b>Score = 1.5</b>
<p><b>Factors impeding ability to meet traceability:</b></p> <ul style="list-style-type: none"> <li>No harvest log exists. Harvest information is hailed from the grounds to MSP which provides lack of verifiable harvest data during pooling.</li> </ul>	<p><b>Factors aiding ability to meet traceability:</b></p> <ul style="list-style-type: none"> <li>An industry wide landings data system is in place through 100% dockside validation</li> <li>Most of the required information is collected on paper and stored electronically.</li> <li>Japanese market is very quality oriented</li> <li>Single species fishery</li> </ul>	
<p><b>Opportunities:</b> <b>Goal 1 - Traceability to a pool level</b></p> <ul style="list-style-type: none"> <li>Identify containers with trade/logistic unit identifiers</li> <li>Improve documentation of pooling for gillnet product</li> <li>Integrate existing data systems and streamline data transfer through the supply chain for more efficient and timely data communication</li> </ul>		