Fisheries and Oceans Canada (DFO) staff, often in collaboration with partners, deliver three types of monitoring programs to support area-based salmon stock assessment. The information generated by these programs is compiled annually to provide advice on the management of salmon populations.

**POPULATION MONITORING** programs estimate the abundance of salmon and their condition. Methods used range from basic visual surveys to application intensive mark-recapture or passage enumeration, and associated biological sampling.

**CATCH MONITORING** programs estimate catch, releases, fishing effort, and the stock and age composition of catch, to evaluate harvest impacts. These are estimated through harvester reporting and survey methods. Age and stock composition is estimated by sampling DNA, scales, coded wire tags, and other stock identifiers.

**ECOSYSTEM MONITORING** programs monitor habitat changes and their impact on salmon. This may include methods such as basic water quality monitoring to more comprehensive hydrology or food-web studies.

*Note: Figure 1, Figure 4, Map 2, and Map 3 represent activities or projects funded by grants and contributions.*
DFO, First Nations, and Indigenous organizations are committed to working together and weaving science and Indigenous Knowledge to understand the many challenges facing Pacific salmon populations and inform better decision-making.

**Figure 3.** Unique Indigenous collaborators in 2023 and 2024.

**Figure 4.** DFO-Indigenous monitoring projects by area.*

**Map 2.** DFO-Indigenous monitoring projects by species.*

**Salmon stock assessment activities**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Species</th>
<th>Count</th>
</tr>
</thead>
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<tr>
<td>Population Monitoring</td>
<td>Enumeration (escapement)</td>
<td>169</td>
</tr>
<tr>
<td></td>
<td>Enumeration (catch)</td>
<td>72</td>
</tr>
<tr>
<td></td>
<td>Biological sampling</td>
<td>86</td>
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<tr>
<td>Catch Monitoring</td>
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<td></td>
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<tr>
<td>Ecosystems Monitoring</td>
<td>Stream assessment</td>
<td>11</td>
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<tr>
<td></td>
<td>Lake assessment</td>
<td>5</td>
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</tbody>
</table>

*Not all activities are shown in the maps.

**Map 3.** DFO-Indigenous salmon stock assessment monitoring programs by activity and species.*

By species
- Chinook
- Chum
- Coho
- Pink
- Sockeye
The **Pacific Salmon Data Portal** will launch spring 2024!

The portal will eventually contain data visualization tools, built-in analysis tools such as charts, maps, and graphs providing insights about Pacific salmon, and the ability to export or connect to the underlying salmon datasets. These dashboards will improve data accessibility and enable conservation and restoration work.

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