
OR and WA Commercial Fisheries Data Update Steps

Data Contact Information:

Washington Department of Fish and Wildlife
Region 6
48 Devonshire Road
Montesano, WA 98563
(360) 249-4628
<http://wdfw.wa.gov/about/regions/region6/>

Oregon Department of Fish and Wildlife
Marine Resources Program
2040 SE Marine Science Dr.
Newport, OR 97365
(541) 867-4741
<http://www.dfw.state.or.us/MRP/index.asp>

PacFIN/PSMFC
7600 Sand Point Way NE
Seattle, WA 98115-0070
(206) 526-4072
<http://pacfin.psmfc.org/>

The following update steps should be performed by someone familiar with ArcGIS, spreadsheets, and database tables.

NOTE: Both Oregon and Washington use a “three-minimum vessel” rule when providing summarized data. All data associated with locations that have fewer than three fishing vessels for any specific time period will not be provided with spatial information. It’s recommended that you ask for both states’ data at the same time to try and get a richer dataset.

1. Oregon and Washington Commercial fishing data can be provided together by PacFIN. However, before PacFIN can work on your data request, permission must be granted from each state. Email a data request to Mark Freeman (Project Leader Marine Information Management mark.freeman@state.or.us) at ODFW and Michele Culver (Region 6 Director, michele.culver@dfw.wa.gov) at WDFW.

Include the following information:

- The reason for the request.
- The years(s) you are interested in.

- Specify that you are interested in summarized data. The OR and WA commercial fishing data in the fisheries geodatabase consists of two tables: A summary table by year, month, block, and management group; a summary table by year, block, species, and gear.
2. Once you have been granted permission for the data from both states, you will need to contact PacFIN regarding your request.
 - Provide the specific details of your request and the two tables you want to receive. Ask for the following two datasets offered by RecFIN:

“Dataset #3”: 10 x 10 blocks by SPID (Annual Summary):
Columns: year, blockid, block center-point: latitude, longitude, spid, gear group (midwater or bottom), gear-type, number of vessels, hailed catch (WA, OR), adjusted catch (WA, OR), estimated revenue

“Dataset #5”: 10 x 10 blocks, MGRP and complex; no SPID (Monthly Summary):
Columns: year, month, blockid, block center-point: latitude, longitude, mgrp, complex, gear group(midwater or bottom), gear-type, number of vessels, hailed catch (WA, OR), adjusted catch (WA, OR), estimated revenue
 - Specify in what format you would like to receive the data.
 3. After you receive the data, preview them to make sure the fields are correct and the data types are compatible.
 - Remove all spaces from field names.
 - Ensure that all numeric values are stored in a numeric data type instead of as text.
 - If you received the data in Excel Spreadsheets, you may need to open the file and format the cells and values to be stored as numbers with the correct number of decimal places. Make sure the word “null” is not used in any numeric fields.
 4. In ArcMap, you will need to replace the PacFIN “BlockIDs” in both tables with those used in the ORWA_Blks feature class.
 - The PacFIN block IDs should be a concatenation of latitude and longitude center-point decimal degree coordinates. If the individual “LAT_CP” and “LONG_CP” fields are not included, create them and get each field’s individual value from the concatenated value.
 - Generate point locations for each table using the coordinates in the data and export them to a temporary file geodatabase.

- Add the ORWA_Blks feature class to the map. The points you created should appear roughly in the center of the OR and WA fishing blocks.
 - Because some ORWA_Blks are spaced at irregular intervals (as depicted in the WA-OR-CA Trawl Logbook), some points may fall on block lines rather than their center. These points can be nudged into the correct block, but keep in mind that this could introduce error.
 - Intersect each point feature class with the ORWA_Blks feature class to get the correct block IDs. Export just the table for each intersect file (not the features) into your temporary file geodatabase. Note: records for any locations outside the ORWA_Blks extent will be dropped during the intersect process.
5. Add species information to the annual summary table.
- Add PacFIN_Species_Table from the fisheries geodatabase to your ArcMap document.
 - Join the species table to the Annual summary table you created with correct block IDs. Use the SPID field for the join. Export the joined data to your temporary geodatabase.
 - Add a Gear_Group text field to the annual summary table that you just created. The Gear_Group values are either “Bottom” or “Midwater” (BTWL or MWTR in the GEARGRP field). Add these values to the field.
6. Add Gear_Group, Mngmnt_Group, and Complex text fields to the monthly summary table.
- The Gear_Group values are either “Bottom” or “Midwater” (BTWL or MWTR in the GEARGRP field). Add these values to the field.
 - Refer to the PacFIN_Species_Table for the full Mngmnt_Group and Complex values.
7. Use ArcCatalog to load your new data into the ORWA_Commercial_Month_data and ORWA_Commercial_Year table in the fisheries geodatabase.
- Right-click on the table you want to update and choose Load > Load Data.
 - Verify that the “Target” and “Matching Source Field” values match during the load process. The data types should match (double or string) or the Load could fail. Make sure the field names match correctly (they do not need to have the exact same name, but they should be equivalent fields). Also, there will be additional fields in the tables you formatted that will not be necessary.
 - If you are given an error, it most likely means there is a data type conflict. You will need to go back and review the formatting to ensure that the field values and field data types aren’t causing the conflict.

8. After you have successfully updated the OR and WA commercial data tables, you can also update the custom tools to reflect the new range of years in the drop-down menu.

- Open the Fisheries ArcMap document.
- Open the VBA editor.
- Open frmTools.
- Open the code window for the form.
- Find the following variables which store the names and edit them:

```
Dim strORWACommYearFish As String  
strORWACommYearFish = "OR and WA Commercial Fisheries, summary by year  
(1987 - 2009)"
```

```
Dim strORWACommMonthFish As String  
strORWACommMonthFish = "OR and WA Commercial Fisheries, summary by  
month (1987 - 2009)"
```

- You can carefully edit the text inside the quotation marks, such as the years. However, you must be sure not to delete the quotation marks surrounding the title or the VBA code for this variable will cease to work correctly.
- Save and close the VBA editor.