OR Commercial Shrimp, Nearshore, and Sardine Data Update Steps

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

NOTE: Oregon uses 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.

1. Email a data request to Mark Freeman (Project Leader Marine Information Management mark.freeman@state.or.us) at ODFW.

   Include the following information:
   - The reason for the request.
   - The year(s) in which you are interested.
   - Specify that you want summarized data. The Oregon shrimp, nearshore, and sardine data in the fisheries geodatabase consist of two tables: A summary table by year and a summary table by month (more spatial locations are dropped in the monthly summary due to the three-minimum vessel rule).
   - The following fields should be included in the tables (minus the "month" field in the annual summary):

     Log_Type, Year, Month, Gear, SP_Code, LAT10, Lon10, BlockID10, Lbs, Value, CountDoc, Depth, Duration, and Freq.

   - Specify in what format you would like to receive the data (the original data used for the fisheries geodatabase was sent in .dbf format).

2. Once you've received the data, preview it 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.

3. In ArcMap, you will need to replace the Block IDs used in the data tables with the IDs used in the ORWA_Blks feature class.

    - The block IDs included in the shrimp and offshore data are actually a concatenation of the latitude and longitude centerpoint decimal degrees coordinates.
    - 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. Also, some points may fall on land due to the formula used by ODFW to find block center locations. You should edit the points to fall into the nearest ORWA block.
    - Some points may fall south of the ORWA blocks. If you wish to retain these data records, you can also add the CA_Blks feature class to the map.
    - Some locations given a "0,0" coordinate because they have been placed in a "confidential" block (due to the three-minimum vessel rule). Select these and export them into a separate file.
    - Intersect each point feature class (year and month) with the ORWA_Blks feature class to get the correct block IDs (include the CA_Blks feature class in the Intersect if there are California locations you wish to keep).
    - Merge (or Append) the confidential points to the resulting output file from the Intersect.

4. Add species information to the tables:

    - Add ODFW_Species_Table from the fisheries geodatabase to your ArcMap document.
    - Join the species table to each of the point files you created (month and year) which contain correct block IDs. Use the PACFIN field in the species table and the SP_CODE field in the summary tables for the joins. Export the joined data to your temporary geodatabase.

5. Add the Gear descriptions:

- Add a text field to each of your summary tables that contains all the joined information. Call the field Gear_Class.
- Based on the code values in the Gear field, add the correct descriptions in the Gear_Class field.

  340 = Hook and Line Gear
  350 = Bottom Longline
  370 = Shrimp single rig
  280 = Shrimp double rig

6. Use ArcCatalog to load your new data into the OR_Shrimp_Month_data and OR_Shrimp_Year_data tables 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.

7. After you have successfully updated the OR shrimp 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 strORShrimpMonth As String
     strORShrimpMonth = "OR Shrimp and Nearshore, summary by month (1996 - 2008)"

     Dim strORShrimpYear As String
     strORShrimpYear = "OR Shrimp and Nearshore, summary by year (1996 - 2008)"

     - You can <u>carefully</u> 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.