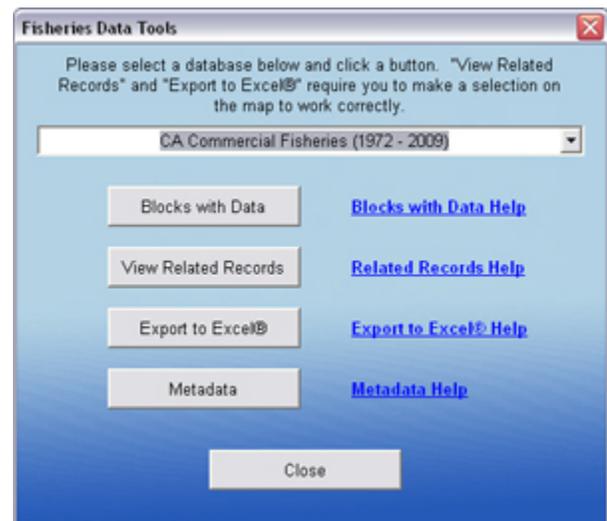
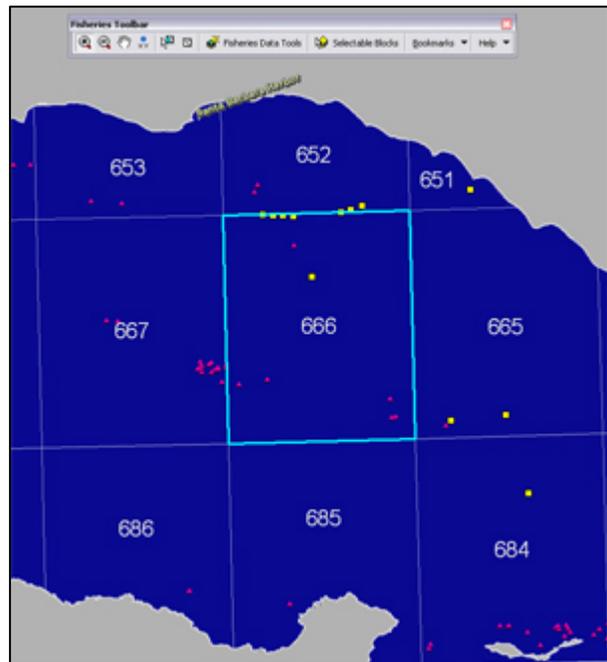

Examples of how to use the Fisheries Resource Database

Scenario 1:

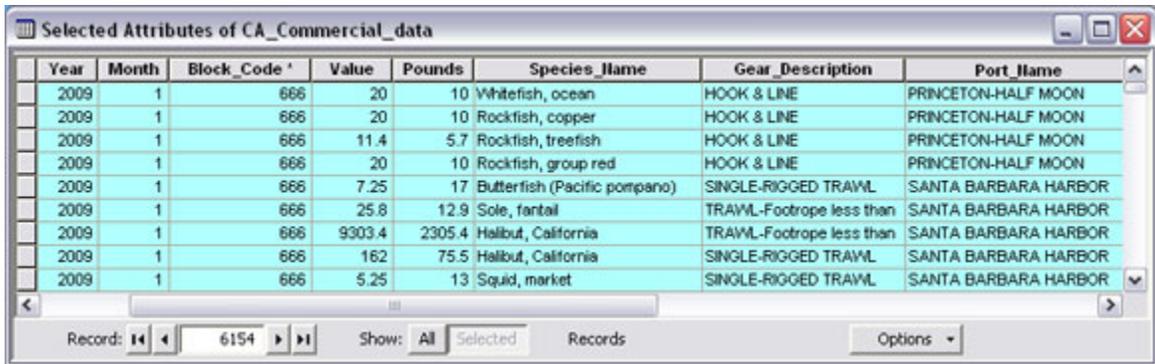
A small oil spill has occurred from a platform located inside California fishing block 666 during the month of December. An environmental analysis is being prepared to look at the potential impacts from the spill. If the area is closed for clean-up purposes, what will the likely impact be for the various fishing industries? Extract a table that includes the commercial fishing information for that area and time-period.

1. Zoom in to the 666 fishing block off southern California. You may need to zoom in closer to the southern section of the blocks before the IDs become visible.
2. Use the "Select Features"  tool from the Fisheries Toolbar to highlight the block (this selects the block, but not the platforms or reefs inside it).
3. On the fisheries toolbar, click the "Fisheries Data Tools" button.
4. For this example, we are mainly interested in the impact to commercial fisheries for this block. From the drop-down list in the "Fisheries Data Tools" dialog, choose "CA Commercial Fisheries (1972 - 2009)" and click the "View Related Records" button.

Note: depending on the speed of your machine, it may take a few moments for the related records table window to appear.



- A table window should appear listing all the CA commercial fishing data for that block. The total number of records is not immediately visible for this virtual table until you click on the  button.

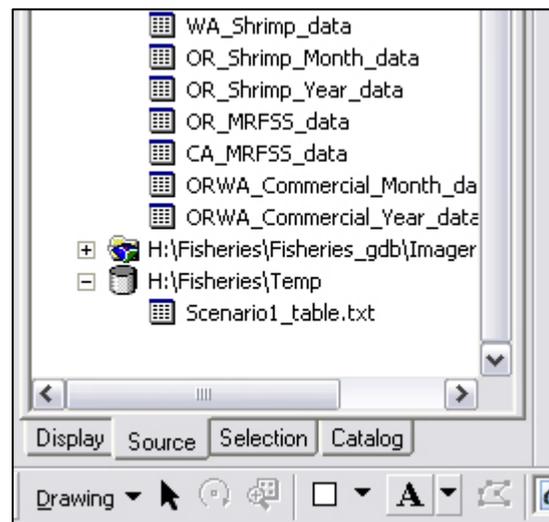


Year	Month	Block_Code	Value	Pounds	Species_Name	Gear_Description	Port_Name
2009	1	666	20	10	Whitefish, ocean	HOOK & LINE	PRINCETON-HALF MOON
2009	1	666	20	10	Rockfish, copper	HOOK & LINE	PRINCETON-HALF MOON
2009	1	666	11.4	5.7	Rockfish, treefish	HOOK & LINE	PRINCETON-HALF MOON
2009	1	666	20	10	Rockfish, group red	HOOK & LINE	PRINCETON-HALF MOON
2009	1	666	7.25	17	Butterfish (Pacific pompano)	SINGLE-RIGGED TRAWL	SANTA BARBARA HARBOR
2009	1	666	25.8	12.9	Sole, fantail	TRAWL-Footrope less than	SANTA BARBARA HARBOR
2009	1	666	9303.4	2305.4	Halibut, California	TRAWL-Footrope less than	SANTA BARBARA HARBOR
2009	1	666	162	75.5	Halibut, California	SINGLE-RIGGED TRAWL	SANTA BARBARA HARBOR
2009	1	666	5.25	13	Squid, market	SINGLE-RIGGED TRAWL	SANTA BARBARA HARBOR

- This virtual table offers limited functionality for queries, so we will export it as a new, stand-alone table. Click on the "Options" button near the bottom of the table window and choose "Export..." Select a location for the output table, name it, and choose a file type. If you are saving outside of a geodatabase, you must select a dBase Table or Text File format (otherwise choose "File and Personal Geodatabase tables" as the type and navigate to your gdb). Click "Yes" to add the table to the map.

(Alternatively, you could choose to close this window, re-open the "Fisheries Data Tools" dialog, and click the "Export to Excel[®]" button instead of "View Related Records" to simply work in the Microsoft Excel[®] environment rather than continue in ArcMap[™].)

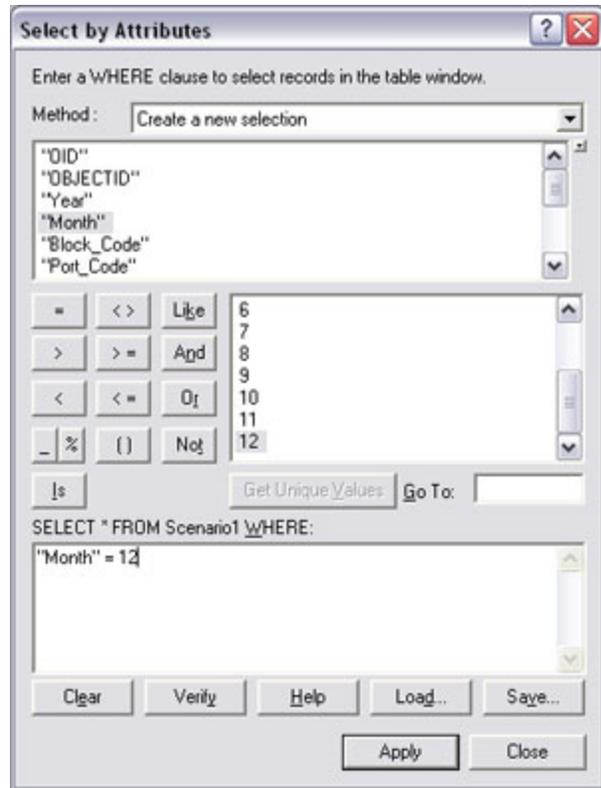
- Your new table will not be visible in the "Display" section of ArcMap's Table of Contents. Click on the "Source" tab near the bottom of the Table of Contents window to see all the datasets currently loaded in the ArcMap document. Your new table should be in the list. Right click on the new table and choose "Open".



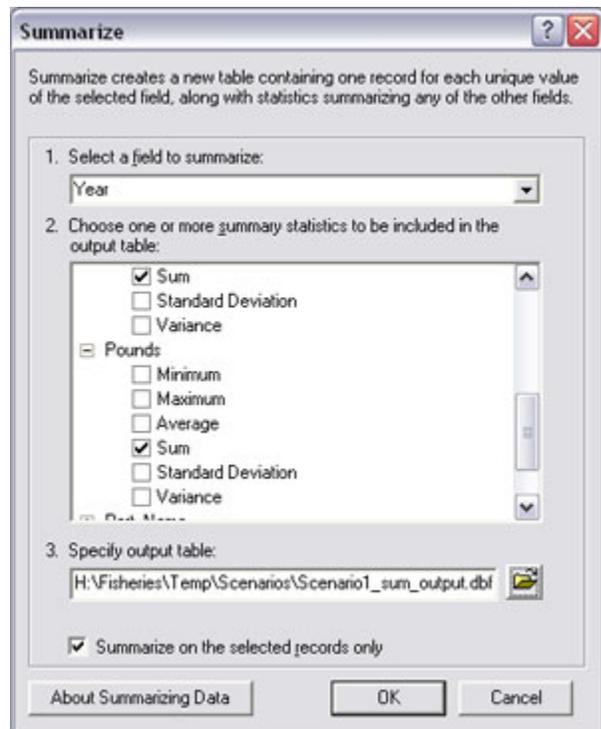
- Because we are primarily concerned with the impact to fishing during the month of December, you will need to perform a query on the new table. On the open table window, click on the "Options" button and choose "Select by Attributes." With "Create a new selection" selected as the method, double click on "Month_" in the field list to add it to the query text box at the bottom. Click the "=" button and then type 12 as the last part of the query.

Your query should look like this:
 "Month" = 12

Click "Apply," then click on the "Selected" button at the bottom of the table window to see only your selected records. Only records that are from block 666 for the month of December should be visible.



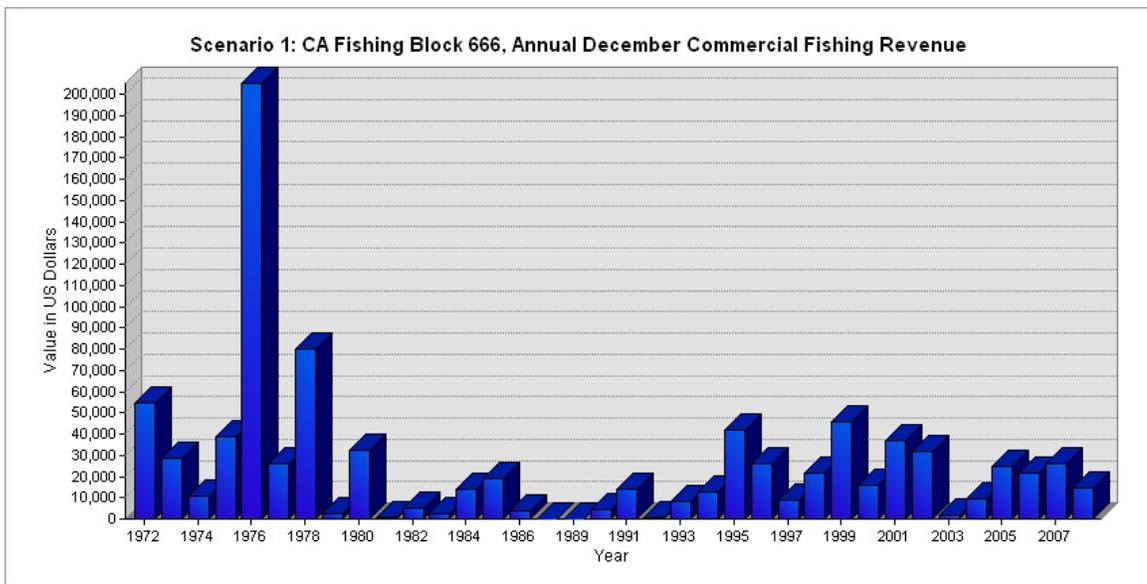
- With these records still selected, right click on the "Year" column heading and choose "Summarize..." In the Summarize dialog, expand the options for "Value_" and "Pounds." Add a check next to "Sum" for each field. Choose an output location and name, making sure that "Summarize on the selected records only" is checked. Click "OK" to create a new summary table based on your choices. When prompted to add the table to the map, click "Yes."



10. You should see your summary table in the Table of Contents. Right click on it and choose "Open." Your summary table now shows the total value and pounds of fish caught in block 666 during the month of December for each year from 1972 to 2009. To quickly view the average December value or pounds for this block across all years, right click on either field and choose "Statistics." A window containing a graph and the statistics of the field you chose will appear. If you are only interested in a specific range of years, you can also shift-select them, then view the statistics.

OID	Year	Count_Year	Sum_Value	Sum_Pounds
0	1972	9	54707.033	3865776
1	1973	6	28393.99	900358
2	1974	8	10924.89	506890
3	1975	22	38513.54	2488319
4	1976	5	205174.2125	9804314
5	1977	2	26159.7	1245700
6	1978	9	80198.6802	3750868
7	1979	11	2705.95	2470
8	1980	11	32113.6	2104409
9	1981	3	817.4	1067

11. If you would like to create a graph for these data, you can choose Tools > Graphs > Create... from the main menu. In the "Create Graph Wizard" window that opens, make sure your summary table is selected as the "Layer/Table." You can then customize the various settings to create the style of graph of your choice. Once the graph is created, you can right-click on it and choose "Export..." to save it as an image.



Additional options: You could go back to the first table you created of all commercial fishing records from December and choose to summarize on a different field (such as species), or view statistics for any of those fields in that table. If you are interested in other associated data, you can choose a sport fishing or CA MRFSS/CRFS database from the Fisheries Data Tools dialog and "View Related Records" for block 666. You could also go back to the map and select the individual reefs or platforms that occur within block 666. Then choose the "CA Reefs" or "CA Oil Platforms" databases from the drop-down menu in the Fisheries Data Tools dialog to view related fish survey data from those databases.