

The **Reports** button provides tabular access to your data, based on your selected parameters. When you select a report, it will be displayed on screen to view. You can print it by selecting the printer icon. **By Advisory**, the other Search menu option, displays an alphabetical, incrementally searchable list of all advisories. You can search through this list by typing the first few characters of the advisory name. After selecting advisories, you can view the data or map them.

- Options** controls the map display, including the **Map Type** to display (advisory traces or counts). You can choose to **Draw** all or just the selected advisories, show or don't show **Fish Tissue Data** when an advisory is selected or a query is done, display map coordinates (latitude/longitude), overlay **Geographic Layers** such as U.S. cities on the maps and select what **Colors** to use on the maps and whether or not to show the **status bar** at the bottom of the screen. Simply point and click on your desired choices.
- Maps** generates color maps on the screen. You can select the entire U.S., an EPA Region, or a specific state/province map. These maps will include **all** of the advisories for the selected geographic unit. **Search** can then be used to overlay selected advisories on these maps if you desire. The **Options** settings control what initially displays on the map. The map window consists of a viewing area and a speedbar. On the map area, the left mouse button can be used to select an individual advisory; you may have to try a couple of times to highlight the advisory, especially for smaller traces. When you have successfully clicked the advisory, the data for that advisory will appear. For Canadian advisories, you will need to use the large arrow icons on the speedbar to highlight the advisories and retrieve data. This is because these advisories are point, rather than trace, referenced. The right mouse button places a "zoom" box on the screen, centered on the mouse cursor. The speedbar buttons can be used to **Zoom in**, **Zoom out**, **Zoom box smaller**, **Zoom box larger**, select **Next** or **Previous advisory**, **Note** selection criteria, **Draw** the overlay map, **Draw** the Canadian rivers **Layer** (new for 1996), **Print** the visible map, and **Close** the map window. Note that the "zoom" features will not work if there is more than one map window open in your Listing session.
- Window** is used when you have more than one map open in a session. You can select which map to view when more than one map has been created by selecting its name from the drop down menu.
- Help** is available from the menu and is also context-sensitive. This means that you can get help from wherever you are in the program by pressing F1, and the help will be related to your current activity. The Help menu is divided into **Contents**; **Search for Help On**, which displays an incrementally searchable list of keywords; **Help on Help**, which provides help for whatever Windows version is installed on your machine; and **About the Listing**, which provides brief information on the system, including points of contact, available system resources remaining, the EXE file creation date, and the version number of the program.

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EPA-823-F-98-010
April 1998



Listing of Fish and Wildlife Consumption Advisories

The 1997 Listing of Fish and Wildlife Advisories (LFWA) includes advisories issued in the states and in the Canadian provinces. The extensive reporting and mapping capabilities of the listing include:

- **Flexible searches and queries.** You can select advisories by any combination of State or Province, EPA Region (or Canada), Advisory Type, Pollutant, Species, Affected Population, Status (active or rescinded), and Issuer. An example would be "all PCB advisories in EPA Region 5 issued by the Federal Government." By default, all active advisories are selected unless otherwise specified. You can also view fish tissue data by checking the appropriate box, **Show Fish Tissue Data**.
- **A variety of reports,** listing all advisories or just the advisories that meet your search criteria. These reports include a summary report, reports of the percentage of the size of each state's lakes and rivers under advisory and assessed for advisory, and the relative increase or decrease from the previous year in the numbers and sizes of advisories by state. A report listing the method used to establish an advisory, the advisory contact, and phone number by state is also included.
- **On-screen maps** showing the traces or counts of all advisories or only your selected advisories. These maps can be produced on an international, national, EPA Regional, or state or province-wide basis. You can zoom down to particular areas, click on individual advisories to get detailed information, and even overlay different searches in color. The maps can be printed to a file or to your printer with your own titles. Note that about 9% of active advisories in North America have not been georeferenced due to lack of locational information. No locational data are available for advisories in British Columbia, Alberta, or the Yukon Territory.

Installation

The LFWA requires a PC running Microsoft Windows 3.1 or later, a minimum of 16 MB of RAM, and approximately 30 MB of disk space.

To Install the Program under Windows 3.1 (from floppy diskettes):

1. Place the diskette labeled Disk1-Setup in drive A: (or B:).
2. Start Microsoft Windows 3.1.
3. In the Program Manager, click on File, and then Run.
4. Type A:setup97 (or B:setup97) in the command box.
5. Click the OK button and follow the instructions on the screen.



To install under Windows 95 or Windows NT 4.0 or later:

1. Click the Start button, then Run.
2. Type A:\setup97 in the Open edit box, and then click OK.
3. Follow the instructions on the screen.

Once the installation process is complete, you are ready to run the program:

1. Start Microsoft Windows 3.1 or later (not necessary in Windows 95).
2. Double click on the LFWA97 icon (select from Start/Programs in Windows 95).
3. That's it! You are now in the LFWA.

Printer Hints

The Listing uses the Windows printer drivers for printing maps and reports. The maps can be printed in color if you have a color printer set up in your Windows Print Manager. You may also select map orientation using the Print Manager.

Quick Tutorial

To get a feel for the Listing, try the following sequence. We will examine active (as of December 1997) mercury advisories in the U.S. The results of this quick tutorial will be maps showing the location of mercury advisories and counts of mercury advisories by state and a full report of the associated data.

Step 1: Querying

On the main menu, click **Search** and then **By Parameter**. This brings up all of the search criteria available. Under **Select Pollutant**, use the scroll bars to locate mercury. Click mercury with the left mouse button. Mercury should now be highlighted. (By default, only active mercury advisories will be selected. Click **Rescinded** in the **Status** box to select rescinded advisories.) At the bottom of the window, click the **View Data** button. The first 250 records for all active mercury advisories in the U.S will appear in spreadsheet format. Scroll through the list, both up and down and sideways, to see the available information. Then click **More** to see additional data. Close this window to return to the Search window.

To view fish tissue data, again click **Search/By Parameter**. Check the box labeled **Show Fish Tissue Data instead of Advisory Data**. The tissue data list box will be enabled. Select a state and press **View Data**.

Step 2: Reporting

Leave mercury highlighted in the **Select Pollutant** box. Now Click the **Reports** button. The buttons will change to show all of the types of available reports. Click the **Summary** button; the full report for mercury advisories will now be on the screen. The directional buttons let you move back and forth through the report, view the full page (by clicking the "magnifying glass" icon), and send the report to the printer. **Close** the report window. You may want to limit records to a particular state. In the Search window, click on a state of interest and then the **Reports** and **Summary** buttons to view. **Close** the report window.

Step 3: Map of Advisories

With the Select window still open, make sure that mercury is still highlighted. Now click on the **Map Advisories** button. This action will close the Select window and

prepare the system for mapping the selected mercury advisories. Since mercury advisories span both the U.S. and Canada, the combined map will appear with the selected advisories in red (by default). At this point, you may choose to display information about each advisory, one at a time, by clicking on the trace of your choice. You may also scroll through the advisories using the arrow icons on the speedbar.

Step 4: Map Overlays

You may wish to add, for example, PCB advisories to your map of mercury advisories. You can do this by selecting the **Search/By Parameter** option from the main menu again and highlighting PCBs from the pollutant list. Now click the **Map Overlay** button. Then select **Options/Colors/Selected Advisories** from the menu and change the color from red to green (or any available color other than red). Then, click the **Pencil** icon on the speedbar. This will map the nationwide PCB advisories, in green, on top of your mercury advisories. Note that any mercury and PCB advisories that overlap will be green.

Step 5: Map of Advisory Counts

To make a map showing counts of active mercury advisories by state, select **Search/By Parameter** from the main menu. Highlight mercury from the pollutant list as before. Click on the **Map Counts** button, and a new map showing counts by state will be drawn. You can move back and forth between your maps by selecting **Window**, then the name of the window to view, or by just clicking on the window.

This completes our brief tutorial. To exit the Listing, select **File/Exit** or double click the "slash" in the upper left corner of the window button (the Listing icon in the upper left corner or the X icon in the upper right corner in Windows 95).

Main Menu

The Listing follows standard Windows protocols for user interfaces. The entire system is run using mouse "point and click" options.

File has one option, **Exit**. Exit will immediately end your Listing session.

Search opens the mapping and reporting capabilities of the Listing. There are two options: search **By Parameter** or **By Advisory Name**. For example, if you want to examine mercury advisories for Minnesota, select **Search/By Parameter**. When the Search window appears, go down the list and select MN. Then click on mercury from the pollutant list. Your selection is highlighted on the screen. To deselect something, just click on it again. You can click on more than one item in a list. For instance you may want to group the pollutants DDD, DDE, and DDT in one query; simply click on all three pollutants. If you do not click anything, all advisories will be selected. You may also select parameters in any combination from the other lists. Click on **View Data** to display all advisories meeting your criteria. **Map Advisories** prepares a map of selected advisories in red by default. **Map Counts** will show the number of advisories meeting the criteria by state and province. **Graph Counts** is used to graph trends over time; it should be used with the 1993 through 1997 version only. **Map Overlay** is useful when you want to show the results of more than one query on a map, such as mercury and PCB advisories nationwide.