



NATIONAL TOXICOLOGY PROGRAM

TDMS Post-PWG User's Guide

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NATIONAL TOXICOLOGY PROGRAM

TDMS POST-PWG USER'S GUIDE

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1. Introduction

Chapter 1

1.1 Overview

Purpose

The purpose of the **TDMS Post-PWG Studies No. W/ Lesion and No. Examined** online search is to provide scientists at the National Institute of Environmental Health Sciences (NIEHS) a WEB interface to access specific, **Post-PWG** data. This data is also available for public viewing by the scientific community. The **Post-PWG** project is a query of all completed TDMS experiments and all examined lesions and tissues. Queries can be performed for either **Chronic** or **Prechronic studies**.

Workstation/Software Requirements

The **Post-PWG** is available via the WEB for PC and Macintosh workstations that are running Microsoft Internet Explorer 4.0 or higher, or Netscape 4.0 or higher. If you are assigned to an NIEHS project and question whether or not your workstation is fitted with these terms, contact your computer support person (CSP).



It is recommended that you run only one web browser during a session. Running two browsers, whether Internet Explorer or Netscape will cause each browser to update simultaneously. For example, if two Netscape browsers are open to Post-PWG and you run a query, the second browser will display the query results as well.



Netscape 4.7* on the Macintosh may have problems with the Post-PWG application loosing focus on a screen. If this occurs, click on your desktop and then click back to the screen you were on when the lost focus occurred. This should restore the application.

Storage of Post-PWG Data

All of the **Post-PWG** data is stored on the TDMS Oracle Database. Lesions found and tissues examined were summarized and copied to the **Post-PWG** database and created especially for this query. The reference data is automatically updated each night and the following tables are updated as well: Clinical Observations, Facilities, Morphologies, Morphologies By Organ, Organs, Sites By Organ, Species, Studies, Test-Types and Treatments.

The lesion counts, tissue counts, removal observations and animal counts are updated as studies reach **Post-PWG** status.

Post-PWG User's Guide Icons

In this guide, the following icons will be used:

	The " Warning " (stop sign) icon indicates a critical user message such as the loss of data could result if certain procedures are not followed.
	The " Notes " icon indicates a user message that is helpful for the utilization of TDMS system processes.
	The " Tips " icon indicates a helpful shortcut that you may apply when using the TDMS Post-PWG search application.
	The Security icon indicates that a procedure requires a certain level of security or the process is available to a particular user only.

Linking to the NTP Post-PWG Database

The first and most important link to the Search TDMS Post-PWG Studies application is the one that gets you to the application to begin with.

- 1) Using your browser, type in the following URL to access the TDMS Post-PWG Database:

<http://ntp-apps.niehs.nih.gov/postpwg/webapp/open.cfm>

The web page that opens is called the Home Page (Figure 1-1). You will find more information in section 2.1 on Navigating the Post-PWG Database.

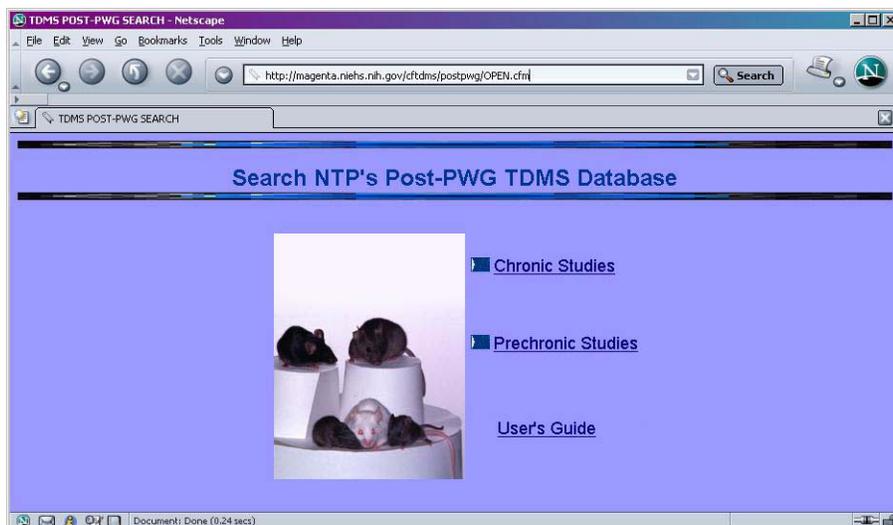


Figure 1-1 Search Post-PWG Home Page

The Home Page allows you to choose between **Chronic** and **Prechronic** studies. The chapters that follow will explain how to run searches on the various studies using organs, morphologies, sites and clinical observations. The home page is your starting point.

There are other links that you will see throughout the application.

Table 1-1 below, references the Links and link descriptions of the Post-PWG application.

Link	Link Description
<u>Return To Results</u>	Clicking on Return to Results in the Lab Code Legend window will return you to the previous Search Results screen.
<u>Close</u>	Clicking on Close will close the search results window and return you to the previous search screen with your previous Morphology and Type selected.
<u>Home</u>	Clicking on the Home link will bring you back to the TDMS Post-PWG Home Page. From here you will need to select Chronic or Prechronic study.
<u>Help</u>	Clicking on the Help link will open the online Help application.
<u>Animal Totals</u>	Clicking on the the Animal Totals link will open the 'Post-PWG Database Totals' screen. This link will have either Prechronic or Chronic in its heading depending on the study you are viewing. This screen will display the total number of animals in the studies of a particular search.
<u>Print</u>	Clicking on the Print link will take you to your print options application so you can print the results you are currently viewing.

Table 1-1: Link References



If you leave the Post-PWG application and then return to the Post-PWG application by clicking on your Browser BACK Button, Post-PWG will run the last search query you had entered resulting in the **Search Results Screen** for that query to display.



Except for the **Chemical Directory of NTP Studies** screen (Figure 1-2), a **Home** link (see Table 1-1 above) is located on each screen.

Link colors are **PINK and PURPLE** if you have not previously clicked on them, otherwise the link will be **MAGENTA** to show you a link you have recently used.

Chemical Directory of NTP Studies Window

You access this screen by clicking on the Chemical link on a Search Results page. This is discussed in detail in chapter 2 and 3. What is important to remember is that this window is not a part of the Post-PWG application. You will have to use the scroll bar to see all the information in this window and you will have to click on the X in the upper right corner to close this window.

Chemical Directory of NTP Studies 11/02/02

TEST: SPECIAL STUDY SPECIES: RATS, CD
 ROUTE: FEED 1ST DOSE:
 TDMS #: 99910-99 LAB: NR
 NTP #: CAS: 84852153

TREATMENT GROUP	ROLE	SEX	VEHICLE(S)
01 - FO CONTROLF	V	F	NIH-31 MEAL
02 - FO 25PPMF	T	F	
03 - FO 200 PPMF	T	F	
04 - FO 750 PPMF	T	F	
05 - FO CONTROLM	V	M	
06 - FO 25PPM M	T	M	
07 - FO 200PPM M	T	M	
08 - FO 750 PPMM	T	M	

Use the scrollbar to view more chemicals and treatment groups.

! To close this window click on the X in the upper right hand corner.

Figure 1-2 Chemical Directory of NTP Studies screen



Use the scrollbar in the Chemical Directory screen to view more Chemicals and Treatment Groups.

To close the Chemical Directory Window, click on the box with the **X** in the top right corner of the window.

1.2 Getting Started

Before using the **Post-PWG** Website, you should first know the workstation software requirements. Next, you should be aware of the following information pertaining to the reset button, error messages, links, and search results:

Reset Button

The **Reset** button is used to refresh the screen, clearing all selections, so that the user may begin a new search.

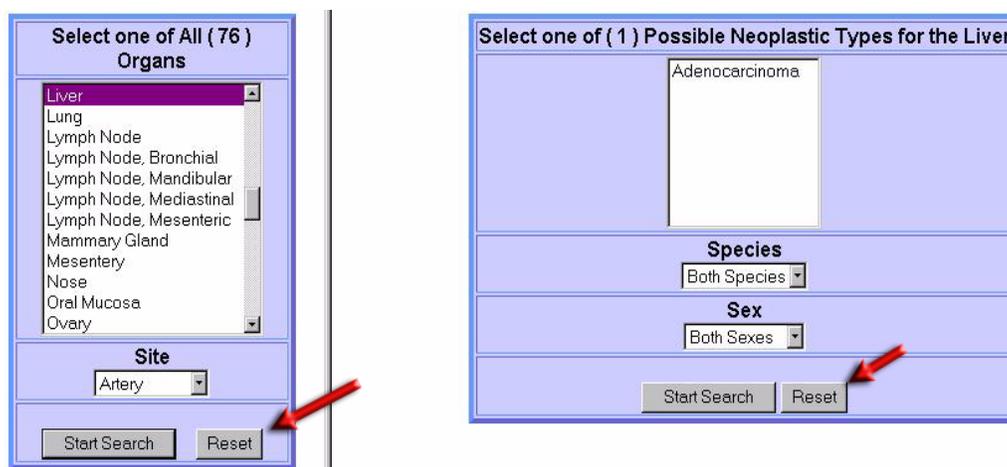


Figure 1-3 Organ and Morphology Windows

Site Button

The **Site Button** allows you to narrow your search parameters further by selecting a particular site associated with an Organ or Morphology in neoplastic and non-neoplastic searches. Using Figure 1-3 as an example: Liver is selected as the Organ. Click on the down arrow in the **Site** box to see a list of all sites associated with this organ. Then click on the **Site** you wish to add to the search. If you do not choose a site then your search will include all sites associated with the selected organ. At this point you can either click the **Start Search** button to start your search or click on the **Reset** button to enter new parameters.



Note that you should wait for the Post-PWG application to populate the Site field immediately after you select an Organ. No sites are loaded until after you select an Organ.

By default, if you do not select a Site you are telling the application that you want to conduct a search using All Sites. By searching All Sites, your search will include all lesions with or without a site specific lesion.

Obtaining Search Results

For certain searches such as Liver, because of the amount of information being requested, large amounts of data may take longer to display. You should be prepared to wait a few minutes for results in some of the broader searches.

For example, when running a search on Liver you may see a window asking you to either narrow or cancel your search (Figure 1-4, 1-5, and 1-6).

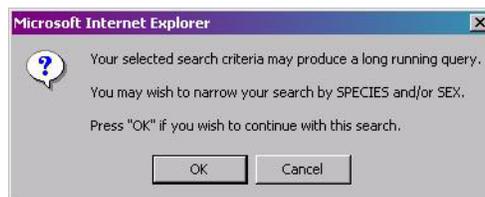


Figure 1-4 Long Query Pop-up in Microsoft Internet Explorer



Figure 1-5 Long Query Pop-up in Netscape

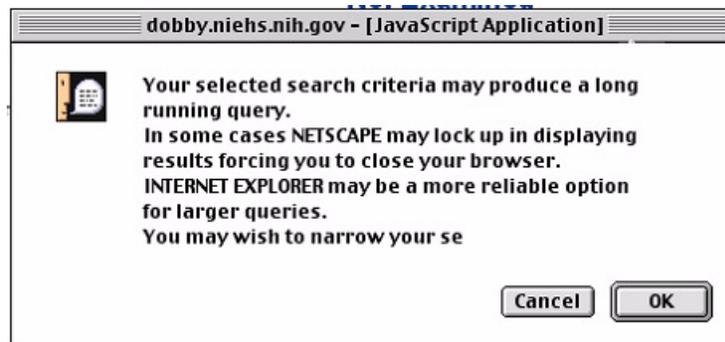


Figure 1-6 Netscape 4.7 Long Query Pop-up



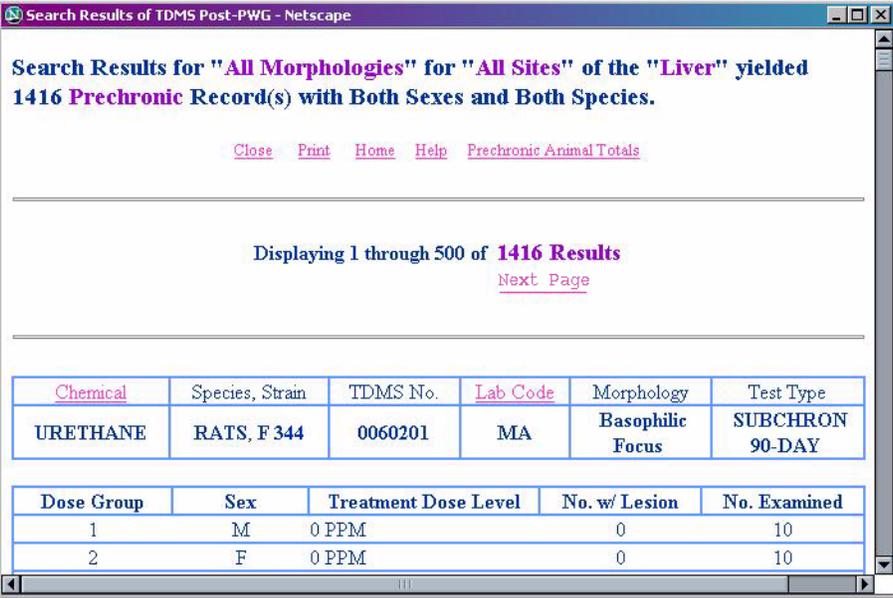
Note the difference in the Long Query pop up message windows in Netscape. Users of Netscape version 4.7 will see a truncated message. For example. Netscape 4.7 on a long query states "You may wish to narrow your se".



It is recommended that your search be as specific as possible. Trying to run an excessively large search can cause your workstation to lock up. If you must run a broad search it is highly recommended that you use Internet Explorer 6.0 or higher. In QA testing, Internet Explorer was found to be a better performer.



Netscape has a limit of approximately 1000 records that it can display for any one search. The Post-PWG application will break down your query to display up to 500 results. When there are more than 500 records, the "Next Page" link will display. Figure 1-5 and 1-6 illustrates the response received when running a broad search on Netscape.



The screenshot shows a Netscape browser window titled "Search Results of TDMS Post-PWG - Netscape". The main content area displays the following text:

Search Results for "All Morphologies" for "All Sites" of the "Liver" yielded 1416 Prechronic Record(s) with Both Sexes and Both Species.

Navigation links: [Close](#) [Print](#) [Home](#) [Help](#) [Prechronic Animal Totals](#)

Displaying 1 through 500 of **1416 Results**
[Next Page](#)

Chemical	Species, Strain	TDMS No.	Lab Code	Morphology	Test Type
URETHANE	RATS, F 344	0060201	MA	Basophilic Focus	SUBCHRON 90-DAY

Dose Group	Sex	Treatment Dose Level	No. w/ Lesion	No. Examined
1	M	0 PPM	0	10
2	F	0 PPM	0	10

Figure 1-7 Limited Data Displayed Screen On Netscape



After closing the Search Results screen (Figure 1-7), you can choose another morphology or species, and sex and click on the Start Search button.

When conducting a search, the Post-PWG application will display a 'Please Wait' message window while the search is in progress (Figure 1-8).



Figure 1-8 Query Please Wait window

Error Messages

Most error messages are due to the user not completing a step or process in the application. For example, when stepping through the process of selecting an organ and morphology, you may try to request a search without selecting the morphology. In this instance the following error message will display:



Figure 1-9 Select Morphology Error Message

Click the **OK** button to close the error message and then choose the morphology you require for your search.

	<p>The Select Morphology Error Message will display when a morphology has not been selected when trying to run a search in Neoplastic or Non-Neoplastic. This rule holds true for Chronic and Prechronic studies. This will be discussed in chapter 2.</p>
--	--

When running a search for **All Morphologies for One Organ** you must select one organ for your search otherwise you will receive the following error message:



Figure 1-10 Select an Organ Error Message

When running a search for **Clinical Observations**, you must select one clinical observation for your search otherwise you will receive the following error message:



Figure 1-11 Select a Clinical Observation Error Message

2. Searching TDMS Post-PWG for No. w/Lesion And No. Examined

This chapter will describe how to search the Post-PWG Database on the WEB.

2.1 Navigating to the Post-PWG Database

To open the **Search NTP's Post-PWG Database** application:

- 1) Open your browser (Microsoft Internet Explorer or Netscape).
- 2) In the address box, type in or copy and paste the following URL. <http://ntp-apps.niehs.nih.gov/postpwg/webapp/open.cfm>
- 3) Press the **Enter** key.
- 4) The **Search NTP's Post-PWG Database** home page will display (Figure 2-1).

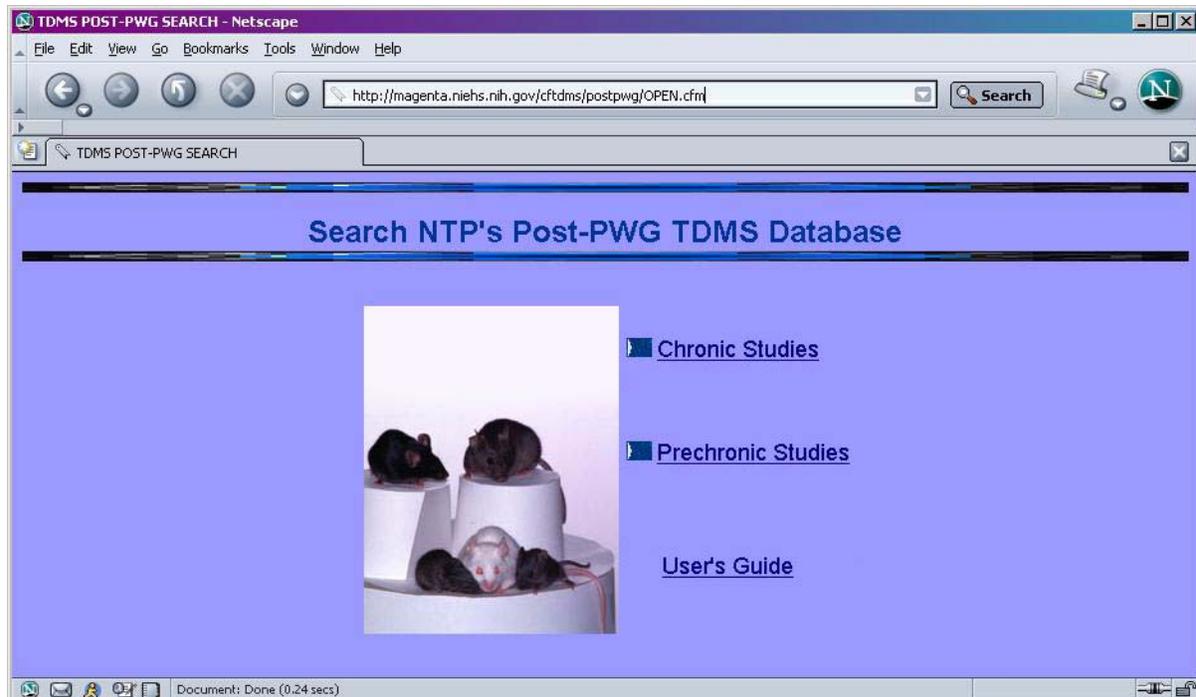


Figure 2-1 Search NTP's Post-PWG Database Home Page

Notice that you now have a choice between conducting a search on either Chronic or Prechronic studies.

You may also access the **Search NTP's Post-PWG Database** through the NIEHS website by performing the following sequence:

- 1) Open your internet browser.
- 2) Type in the following URL: <http://www.niehs.nih.gov/junction/>
- 3) On the **NIEHS Junction** screen, click on the link for **Scientific Resources**.
- 4) Under the Scientific Resources banner, click on the **NTP-National Toxicology Program** link.
- 5) On the **NTP-National Toxicology Program** screen, select the **NTP Study Information** link.
- 6) On the **NTP Testing Information and Study Results** screen, select **Special Reports** link.
- 7) On the **NTP Special Reports** screen, select the **Search the NTP's TDMS Database** link.
- 8) The **Search NTP's Post-PWG Database** home page will display (Figure 2-1).

2.2 Search NTP's Post-PWG Database

On the **Search NTP's Post-PWG Database** screen, select either **Chronic** or **Prechronic Studies** (Figure 2-1).

Depending on your selection either the **Search TDMS Post-PWG Chronic Studies for No. w/ Lesion and No. Examined** screen (Figure 2-2) or the **Search Post-PWG Prechronic Studies for No. w/ Lesion and No. Examined** screen (Figure 2-3) will open. Except for the title section located at the top of the screen, the layout of the two screens are identical.



For the purpose of simplicity, this user's guide will take its examples from the TDMS Post-PWG Chronic Studies for No. w/ Lesion and No. Examined portion of the application unless noted otherwise.

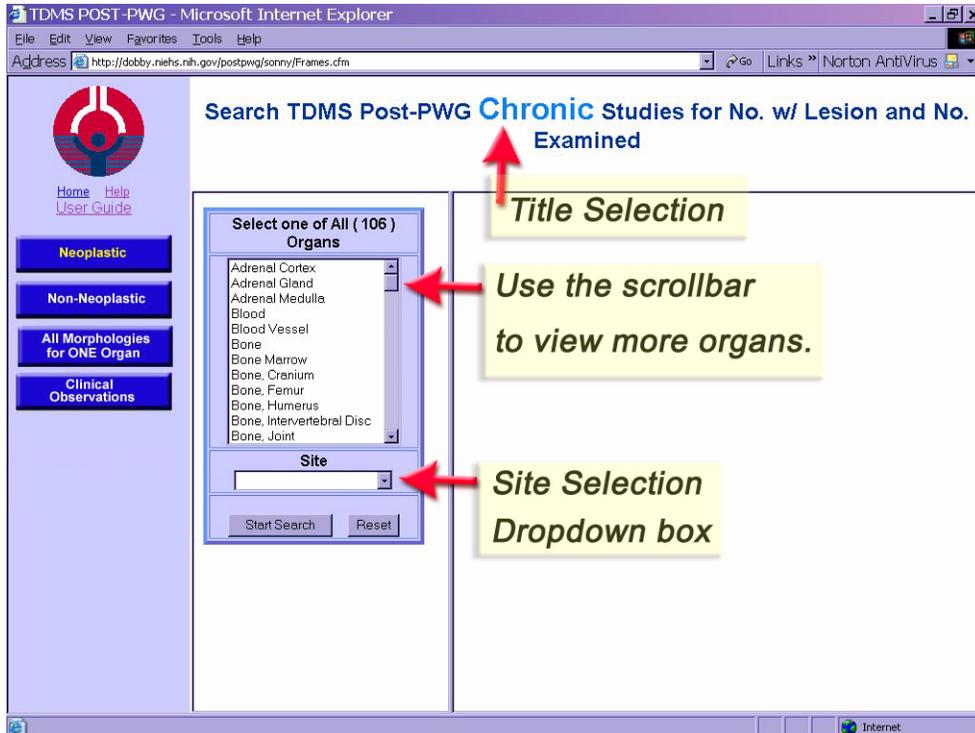


Figure 2-2 Chronic Studies Main screen

When the Chronic Studies Main screen opens it defaults to Neoplastic Studies. Use the scrollbar to view all the organs in the list. To view the Sites associated with an organ, first choose an organ and then click on the down arrow in the Site Selection Dropdown menu.

The following page shows the Prechronic Studies Main screen (Figure 2-3).

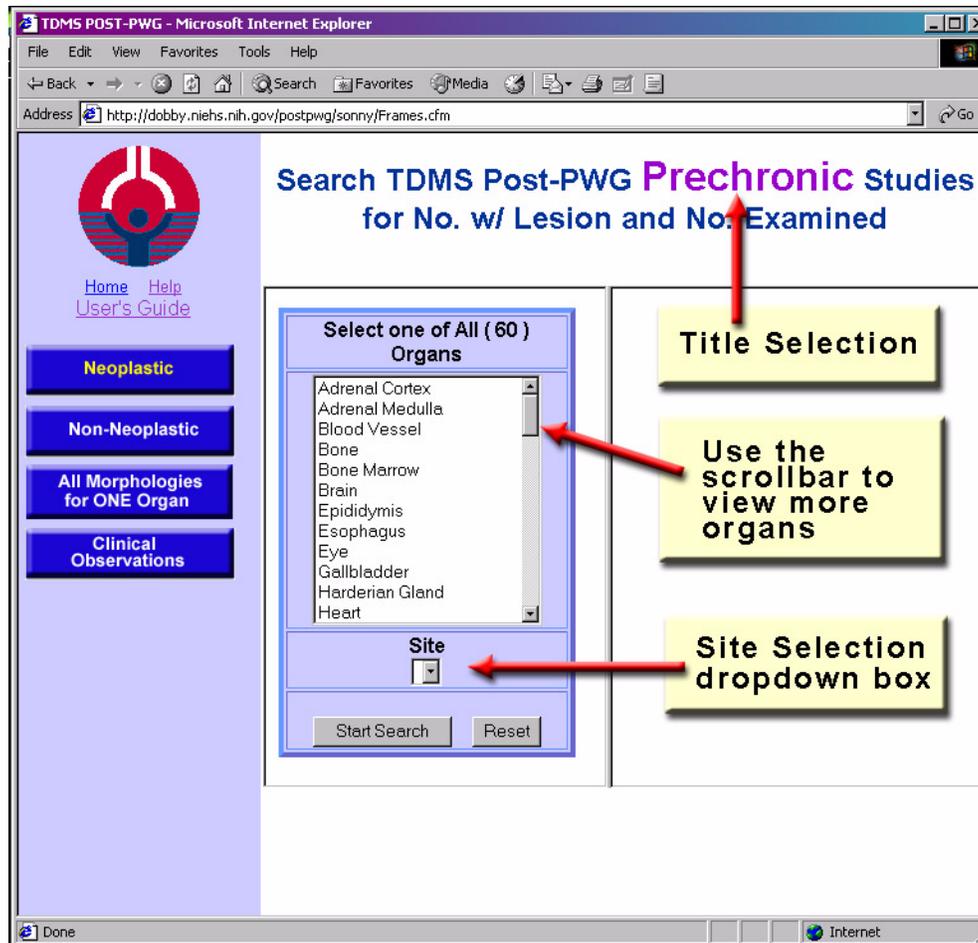


Figure 2-3 Prechronic Studies Main screen



When the **Search TDMS Post-PWG Chronic Studies (or Prechronic) for No. W/ Lesion and No. Examined** screen is displayed, a scrollable list of all available organ types and a **Sites** dropdown list box are displayed in the **Organ** window (Figure 2-2 and Figure 2-3).

The application will automatically default into the **'Neoplastic'** selection mode (Figure 2-4). You will notice that the default selection has yellow lettering.

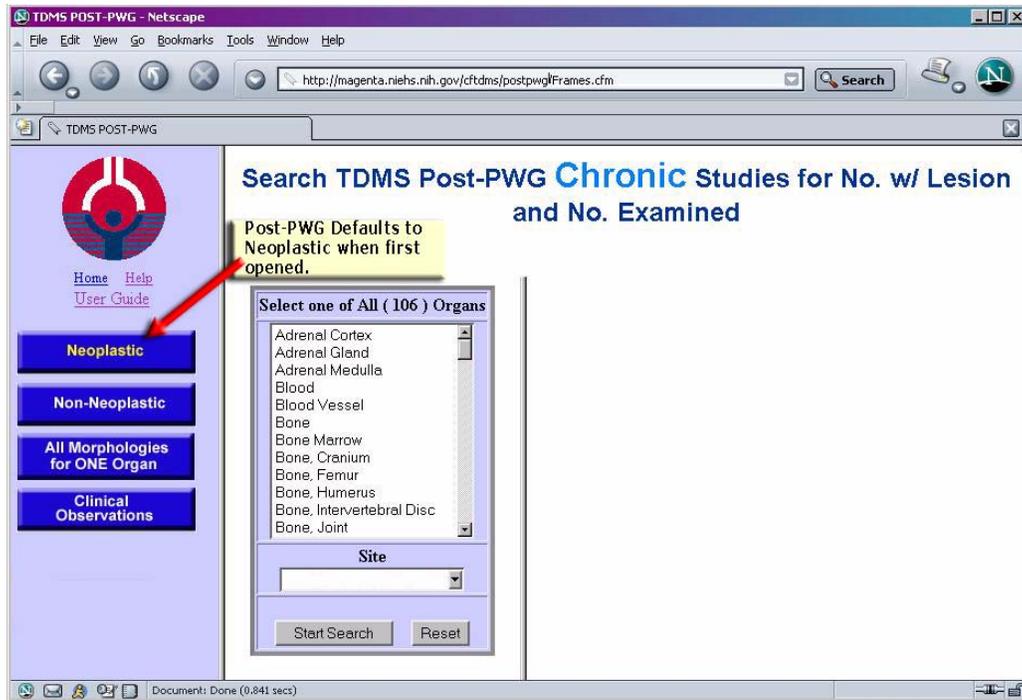


Figure 2-4 Chronic Studies with Default selections

Choose the desired search criteria from the **Select Column:**

- Neoplastic (Default).
- Non-Neoplastic.
- All Morphologies for One Organ.
- Clinical Observations.

2.3 Neoplastic and Non-neoplastic

If you choose the **Neoplastic** (Default) or **Non-neoplastic** selections, your searches will be similar. Please use the sequence on the following page beginning with “Selecting an Organ” for all of those searches.

If your choice is **All Morphologies for One Organ** go to section 2.4, and for **Clinical Observations** go to section 2.5.

Selecting an Organ

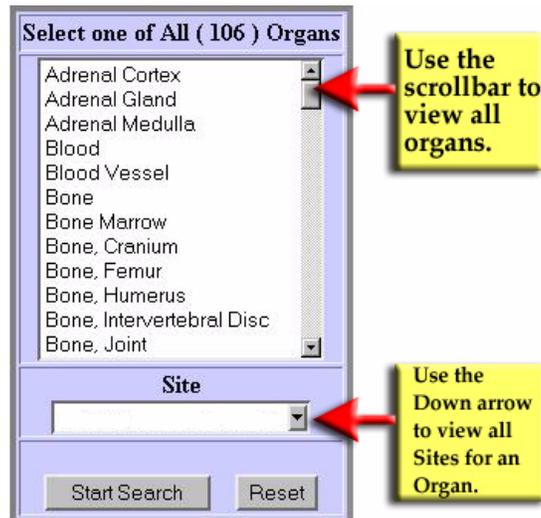


Figure 2-5 Organ Selection window

To select an organ do the following:

- 1) Use the scrollbar to scroll down to view more organ choices.
- 2) Select an organ by clicking on the desired selection. You will receive the Loading Sites Please wait... message box (Figure 2-6) while the Site Selection box loads.



Figure 2-6 Loading Sites Please wait... Message box.

	<p>Once you select an organ, the Post-PWG application will load a list of Sites that are applicable to your organ choice. DO NOT CLICK ON THE START SEARCH BUTTON. Allow the Sites list to load before clicking on the Start Search button. If you do press the Start Search button before the Site list completes loading, you will see an error message to the right of the Organ window. If this happens, click on the Sites button, choose a Site then click on the Start Search button to load the Morphology window.</p>
---	---

- 3) Click on the down arrow in the **Sites** box to display a list of applicable sites.
- 4) Click on a site to select it.

	Only Sites that are associated with a particular organ are included in the Sites drop down list.
---	--

- 5) Click on the **Start Search** button.
 - a) The **Loading Morphologies** pop-up will display asking you to wait while the application loads a list of morphologies for your organ choice (Figure 2-7).



Figure 2-7 Loading Morphologies pop-up window

The **Loading Morphologies** pop-up window will close and the associated morphologies for that organ will display in the **Morphology** window (Figure 2-8).

	Only Morphologies that have observations are included in the returned morphology result set list box.
---	---

Figure 2-8 Morphology window example

- 6) To select a different organ, click on the **Reset** button in the **Organ Selection** window (Figure 2-5) and repeat steps 1 through 5.

Selecting a Morphology

Figure 2-9 Pancreas Morphology window

The principle behind selecting a morphology is similar to that of selecting an organ. You may need to scroll through the list of morphologies using the scrollbar to the right of the morphology list to find the morphology you are looking for.

- 1) Select a morphology by clicking on the desired selection in the **Morphology** window.

- 2) Select the desired species. For more selections, click on the down arrow. The selection '**Both Species**' is selected by default.
- 3) Select the desired sex. For more selections, click on the down arrow. The selection '**Both Sexes**' are selected by default.
- 4) Press the **Start Search** button to begin the search.

A message window asking you to Please wait... will display while the report is being generated (Figure 2-10).



Figure 2-10 Please Wait message window

If the search criteria you entered warrants a large scale search and therefore a large report, one of the following messages will display (Figure 2-11, Figure 2-12 or Figure 2-13):



Figure 2-11 Narrow search message window - Netscape

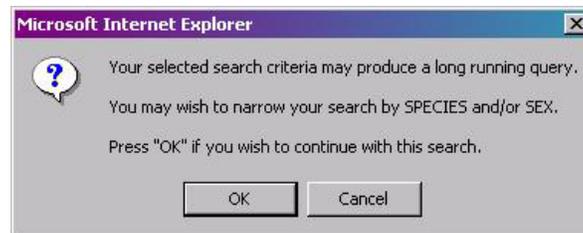


Figure 2-12 Narrow search message window - Internet Explorer

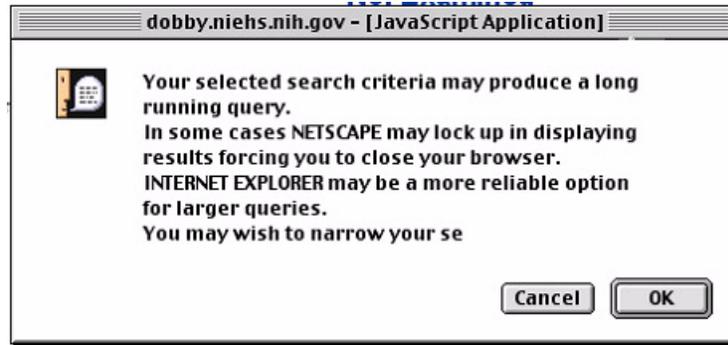


Figure 2-13 Netscape 4.7 Long Query Pop-up

- 5) Press the **OK** button if you wish to run the search with the criteria you have already entered. The message window asking you to 'please wait' will display (Figure 2-10). When the message window closes, the results of your search is displayed (Figure 2-14).

OR

- 6) Press the **Cancel** button to return to the **Morphology Selection** window and narrow your search criteria by selecting a specific sex and/or specific species.
 - a) Once your search criteria is modified, click on the **Start Search** button.

	<p>If your criteria still generates a large report, you may get the Narrow Search window again. This may happen for searches pertaining to morphologies based on an organ such as the liver.</p> <p>Click on the OK button to continue running your search. Please give the system some time to generate the report.</p>
--	--

- b) The message window asking you to please wait will display. When the message window closes, the results of your search is displayed (Figure 2-14).

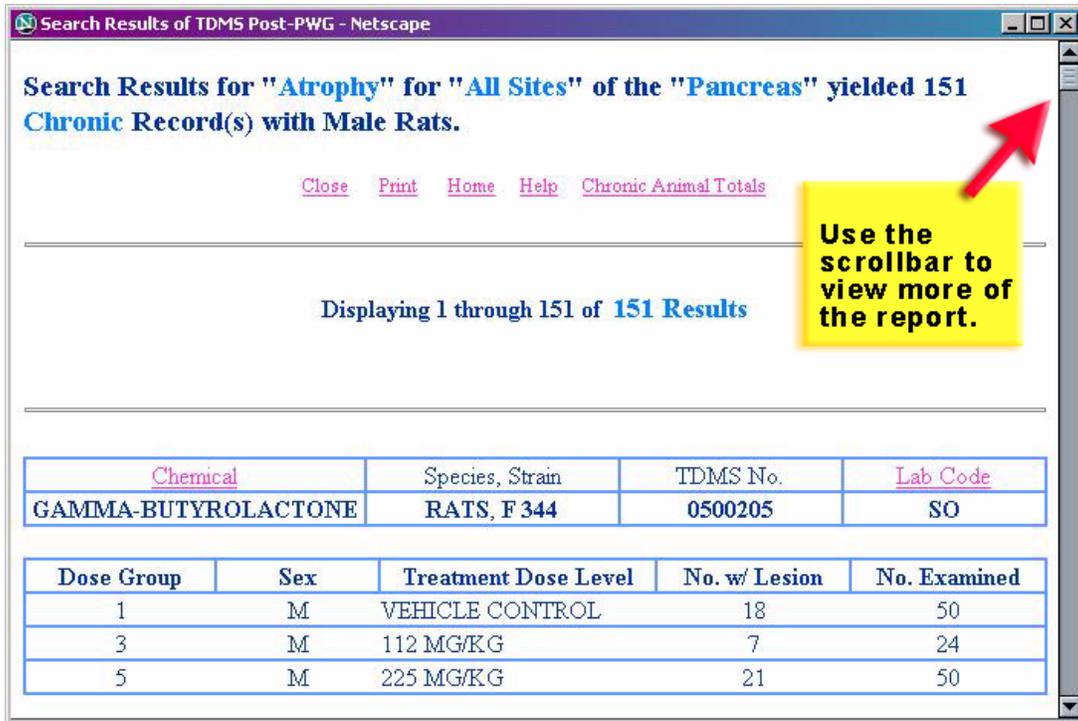


Figure 2-14 Search Results screen

 Figure 2-14 is an example of the results for **Neoplastic** or **Non-neoplastic** using **Pancreas** as the organ for **All Sites** and **Atrophy** as the morphology. The search criteria included **Male** (sex) and **Rats** (species). The records returned are for Chronic studies.

2.4 All Morphologies for One Organ

Starting from the default Chronic Study screen (Figure 2-2):

- 1) Click on the **All Morphologies for One Organ** button. You will receive the Loading Organs Please wait... message (Figure 2-15) as the screen refreshes and displays (Figure 2-16).



Figure 2-15 Loading Organs Please wait... Message box

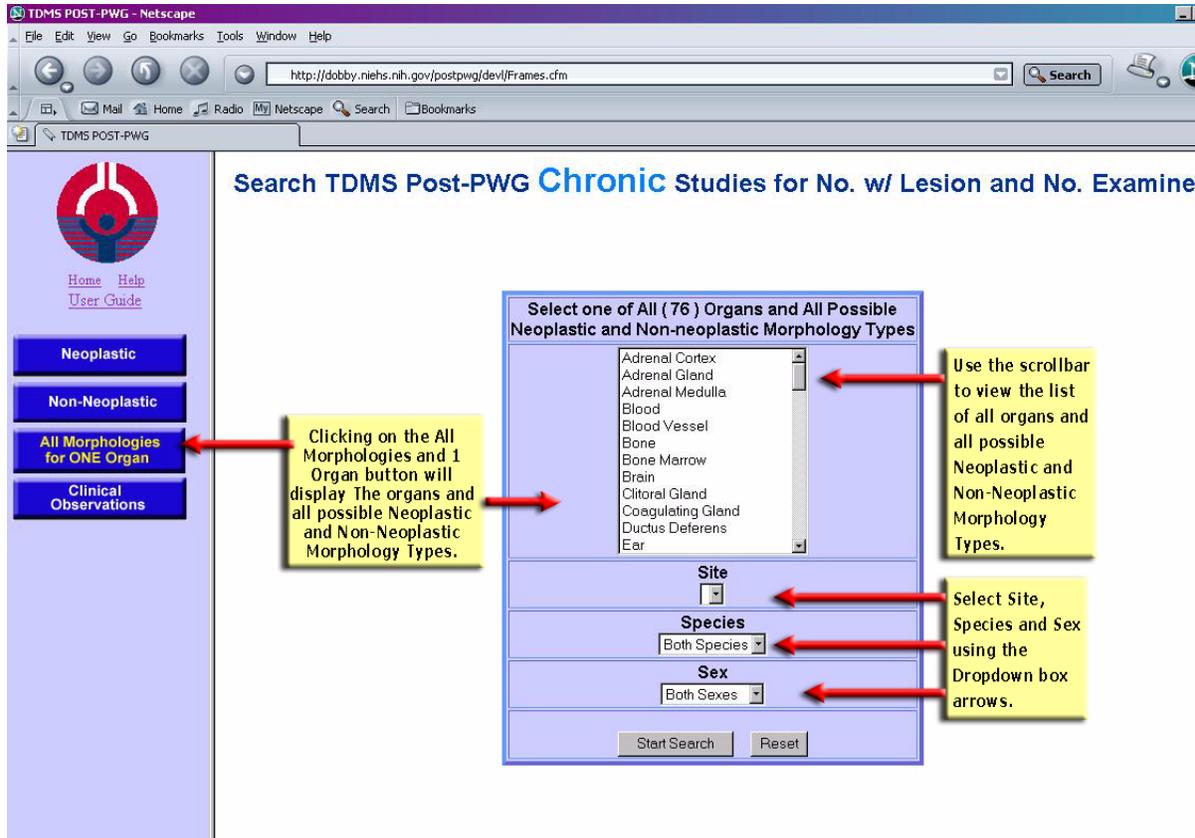


Figure 2-16 All Morphologies for One Organ screen

- 2) Click on an organ to highlight it. If the organ you need is not shown, use the scrollbar to scroll down the list until you find it. Once you select an organ you will receive the Loading Sites Please wait... message (Figure 2-17), wait for the message box to close before continuing.



Figure 2-17 Loading Sites Please wait... Message box

- 3) **Select Site.** Click on the down arrow in the **Site** selection box to find the required site or select **All Sites**.
- 4) **Select Species.** Click on the down arrow in the **Select Species** box to find the required species.
 - a) Click on the species for your search.
- 5) **Select Sex.** Click on the down arrow in the **Sex** selection box to find the required sex.
 - a) Click on the sex for your search.
- 6) Click on the **Start Search** button to begin the search. You will receive the Please wait... message box (Figure 2-18) while the report is generated.

OR

- 7) Click on the **Reset** button to erase all search criteria and begin again.
- 8) When you select the **Start Search** button a message window asking you to please wait will display while the report is being generated (Figure 2-18).



Figure 2-18 Please Wait message window

If the search criteria you entered warrants a large scale search and therefore a large report, one of the following messages will display (Figure 2-19, Figure 2-20 or Figure 2-21):



Figure 2-19 Narrow search message window - Netscape

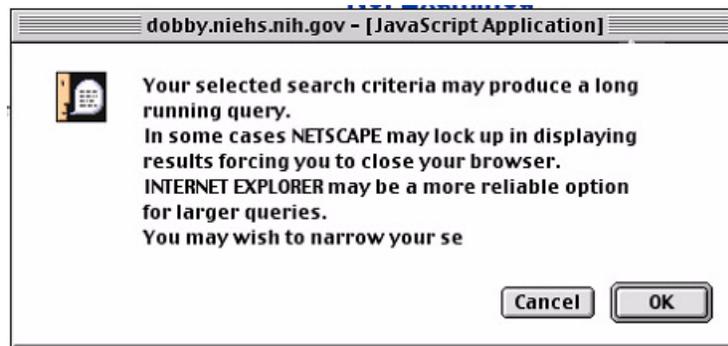


Figure 2-20 Netscape 4.7 Long Query Pop-up

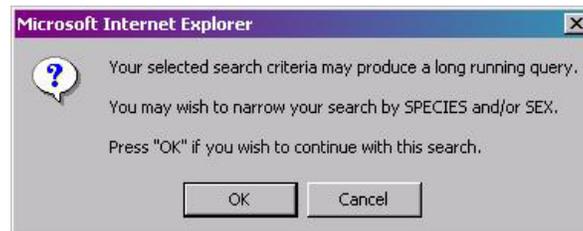


Figure 2-21 Narrow search message window - Internet Explorer

- 9) Press the **OK** button if you wish to run the search with the criteria you have already entered. The message window asking you to 'Please wait...' will display (Figure 2-18). When the message window closes, the results of your search is displayed (Figure 2-22).

OR

- 10) Press the **Cancel** button to return to the **Morphology Types Selection** window and

narrow your search criteria by selecting a specific site, species, and/or specific sex.

- a) Once your search criteria is modified, click on the **Start Search** button.



If your criteria still generates a large report, you may get the **Narrow Search** window again. This may happen for searches pertaining to morphologies based on an organ such as the liver.

Click on the **OK** button to continue running your search. Please give the system some time to generate the report.

- b) The message window asking you to please wait... will display. When the message window closes, the results of your search is displayed (Figure 2-22).

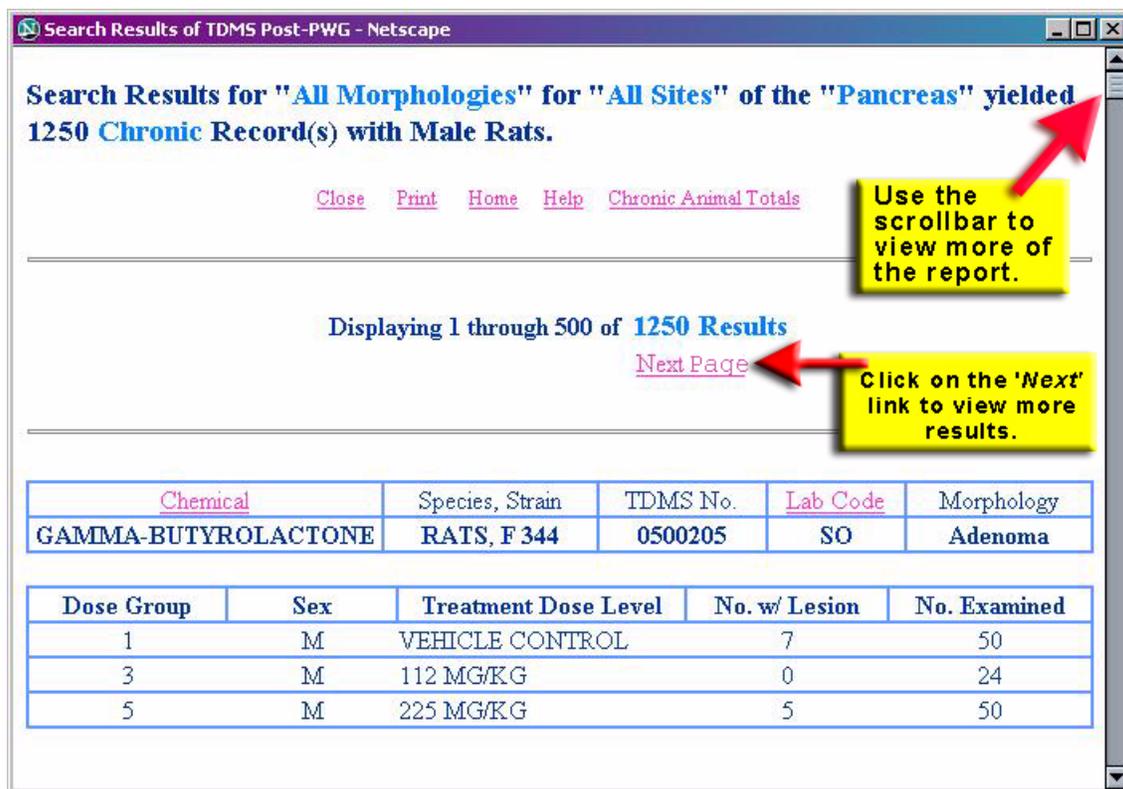


Figure 2-22 All Morphologies Search Results screen



Figure 2-22 is an example of the results for a search using **All Morphologies** for **All Sites** of the **Pancreas (1 Organ)**. The search criteria included **Male** (sex) and **Rats** (species). Notice the **Next Page** link. This link is available on reports with over 500 records.

2.5 Clinical Observations

Starting from the default Chronic Study screen (Figure 2-2):

- 1) Click on the **Clinical Observations** button. The screen will refresh and display figure 2-23.



Sentinel animals are included in the results where they have data for the study. For example, if a Sentinel treatment group has NO clinical observations on a search, then that Sentinel treatment group will not be displayed. If however, a sentinel treatment group has a clinical observation of any kind, then that group will display in a search. So if you were searching Ruffled Fur, and a Sentinel Treatment group has a clin obs of lethargic, it would still display in the Ruffled Fur search but with a 0/Count display.

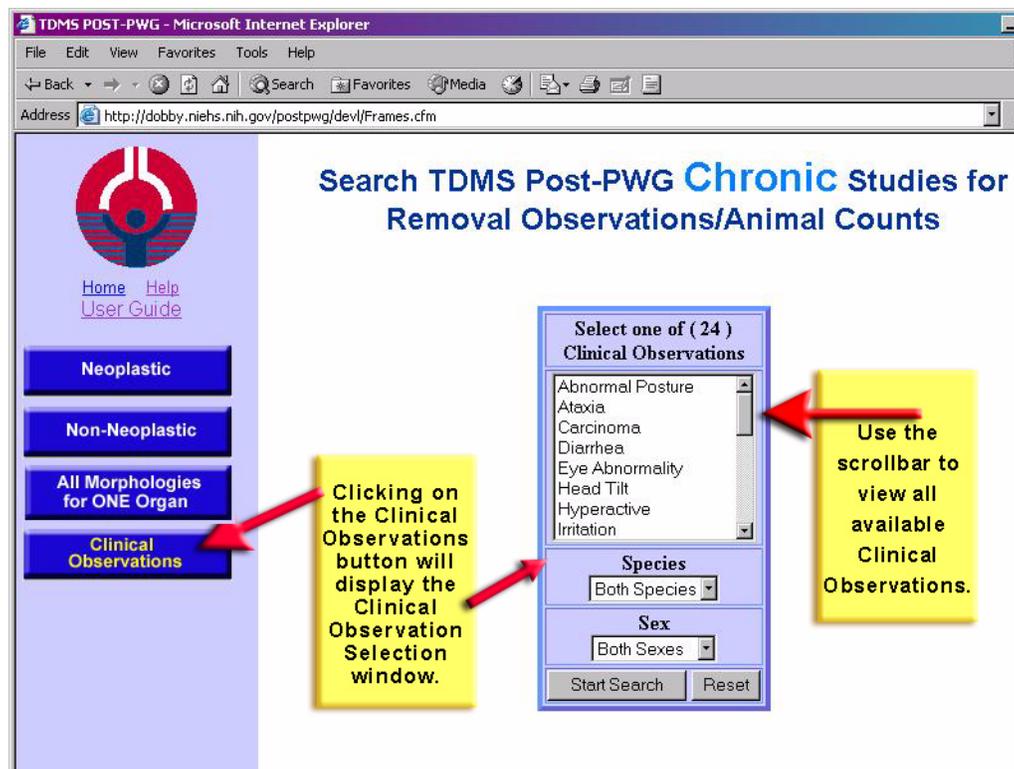


Figure 2-23 Clinical Observation Selection screen

- 2) Click on a clinical observation to highlight it. If the clinical observation you need is not shown, use the scrollbar to scroll down the list until you find it.
- 3) **Select Species.** Click on the down arrow in the **Select Species** box to find the desired species.
 - a) Click on the species for your search.

- 4) **Select Sex.** Click on the down arrow in the **Sex** selection box to find the desired sex.
 - a) Click on the sex for your search.
- 5) Click on the **Start Search** button to begin the search. You will receive the Please wait ... Message box (Figure 2-24) while your request is being processed.

OR

- 6) Click on the **Reset** button to erase all search criteria and begin again.
- 7) When you select the **Start Search** button a message window asking you to 'Please wait...'
will display while the report is being generated (Figure 2-24).



Figure 2-24 Please Wait message window

If the search criteria you entered warrants a large scale search and therefore a large report, one of the following messages will display (Figure 2-25, Figure 2-26 or Figure 2-27):



Figure 2-25 Narrow search message window - Netscape

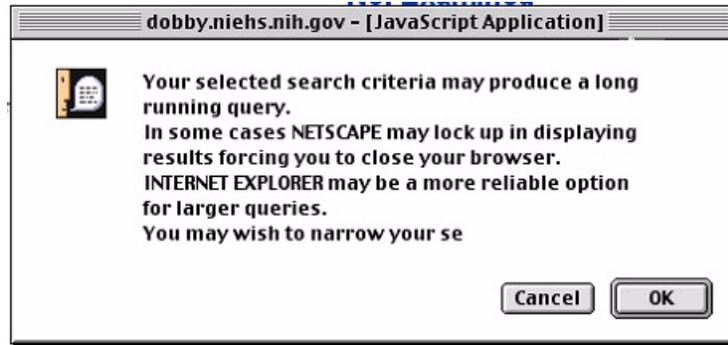


Figure 2-26 Netscape 4.7 Long Query Pop-up



Figure 2-27 Narrow search message window - Internet Explorer

- 8) Press the **OK** button if you wish to run the search with the criteria you have already entered. The message window asking you to 'Please wait...' will display (Figure 2-24). When the message window closes, the results of your search is displayed (Figure 2-28).

OR

- 9) Press the **Cancel** button to return to the **Select Clinical Observations** window and narrow your search criteria by selecting a specific species and/or specific sex.
- a) Once your search criteria is modified, click on the **Start Search** button.

	<p>If your criteria will still generate a large report, you may get the Narrow Search window again. Go back and run your search using only one sex and only one species.</p> <p>Click on the OK button to continue running your search. Please give the system some time to generate the report.</p>
--	--

- b) The message window asking you to 'Please wait...' will display. When the message window closes, the results of your search is displayed (Figure 2-28).

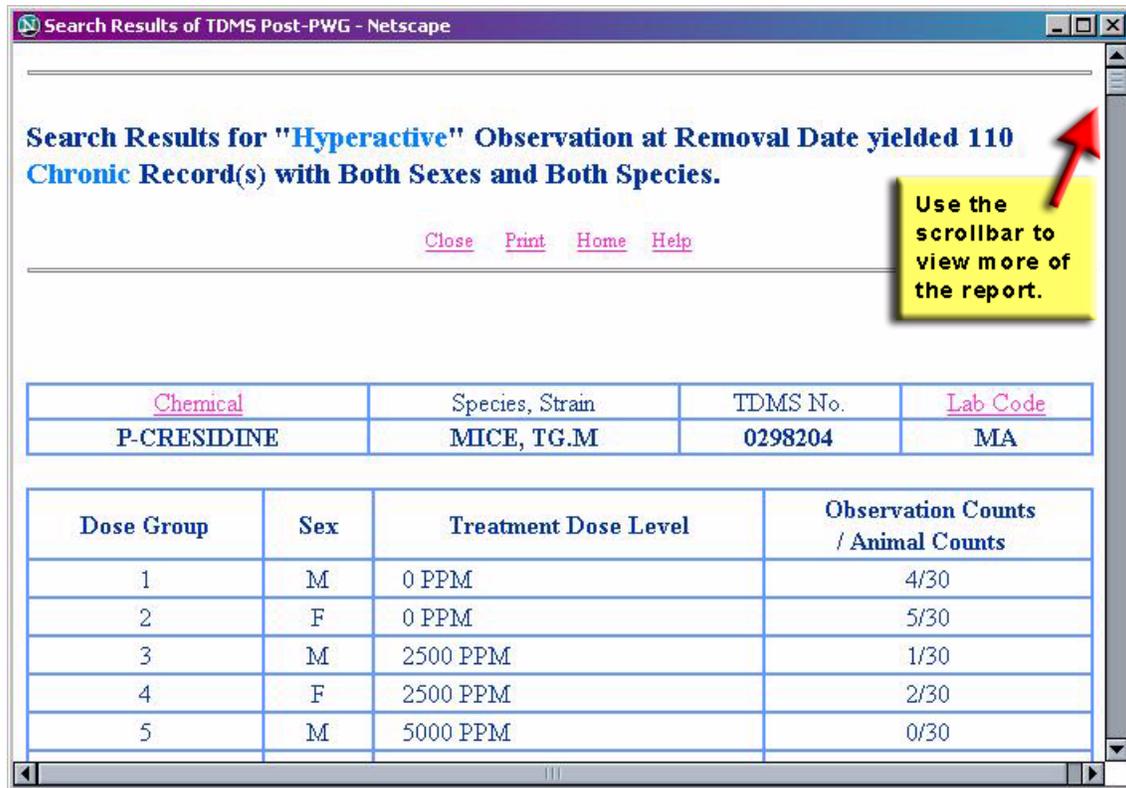


Figure 2-28 Clinical Observation Search Results screen



Figure 2-28 is an example of the results for a clinical observation search on **Hyperactive**. The search criteria included '**Both Sexes**' and '**Both Species**'.



If you leave the Post-PWG application to go to another Internet/Intranet site and then return to the Post-PWG application by clicking on your Browser BACK Button, Post-PWG will run the last search query you had entered resulting in the **Search Results Screen** for that query to display.

3. Search Results and Related Reports

3.1 Purpose

This chapter will take a look at the reports generated by your search in Post-PWG. It will also give you a description of the layout of the reports including the links available on the **Search Results** screen.

As you will find after you receive the results of your query, there are links on the reports page that will allow you to take a closer look at the results by **Chemical** as well as giving you the opportunity to take a closer look at the **Lab Codes** for the labs involved in the studies.

3.2 The Search Results Screen

The **Search Results** screen displays the results of your search. Figure 3-1 illustrates what a search results screen will look like for Chronic Records. Figure 3-2 illustrates what a search results screen will look like for Prechronic Records.

Search Results for "Atrophy" for "All Sites" of the "Pancreas" yielded 151 Chronic Record(s) with Male Rats.

[Close](#) [Print](#) [Home](#) [Help](#) [Chronic Animal Totals](#)

Displaying 1 through 151 of 151 Results

Chemical	Species, Strain	TDMS No.	Lab Code
GAMMA-BUTYROLACTONE	RATS, F 344	0500205	SO

Dose Group	Sex	Treatment Dose Level	No. w/ Lesion	No. Examined
1	M	VEHICLE CONTROL	18	50
3	M	112 MG/KG	7	24
5	M	225 MG/KG	21	50

Figure 3-1 Search Results screen - Chronic

Search Results for "Atrophy" for "All Sites" of the "Pancreas" yielded 42 Prechronic Record(s) with Male Rats.

[Close](#) [Print](#) [Home](#) [Help](#) [Prechronic Animal Totals](#)

Displaying 1 through 42 of 42 Results

Chemical	Species, Strain	TDMS No.	Lab Code	Test Type
URETHANE	RATS, F 344	0060201	MA	SUBCHRON 90-DAY

Dose Group	Sex	Treatment Dose Level	No. w/ Lesion	No. Examined
1	M	0 PPM	2	10
3	M	110 PPM	0	0
5	M	330 PPM	0	0
7	M	1100 PPM	0	0

Figure 3-2 Search Results screen - Prechronic



If no data is found, the **Search Results** screen will display 'No Data Found'.



Note the addition of the **Test Type** column in the **Prechronic** search results. This column can be observed in all searches except **Clinical Observations**.



If you leave the Post-PWG application and go to another internet/intranet site and then return to the Post-PWG application by clicking on your Browser BACK Button, Post-PWG will run the last search query you had entered resulting in the **Search Results Screen** for that query to display.

3.3 Anatomy of the Search Results Screen

Each search results screen header has similar layouts depending on the size of the results and if it is Chronic or Prechronic. For example, small results may not have a scrollbar (Number 9 in Figure 3-3) and other results will have additional header information for Morphologies, and Test Type.



Figure 3-3 Search Results Screen Header

Table 3-1 references the features of the Header of the **Search Results** screen.

Header Feature	Description
1. Search Results Description	This section of the header explains the search criteria starting with the Morphology, then the Sites, the organ, the number of studies found, whether the studies were Chronic or Prechronic, the sex and the species.
2. Yield	The search results displays the number of studies found based on the search criteria.
3. Scrollbar	The scrollbar is used to view records that are not viewable when the Search Results screen first displays.
4. Close Link	Clicking on this link will close the Search Results window.
5. Home Link	Clicking on this link will take you back to the very first page of the Search Post-PWG application.

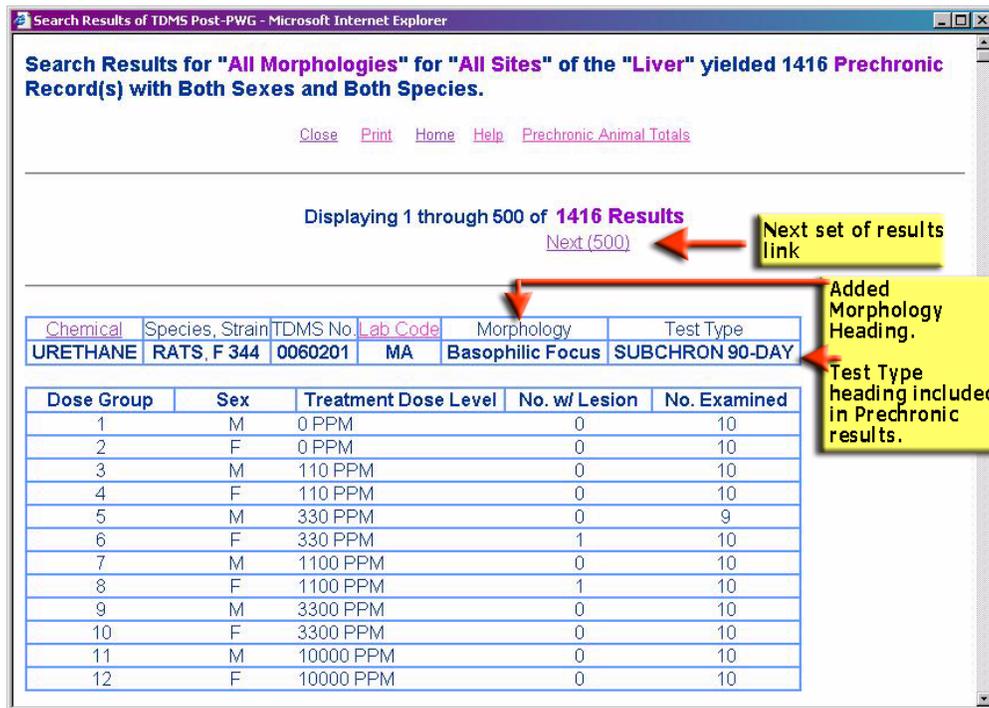
Table 3-1: Search Results screen Header reference

Header Feature	Description
6. Help Link	Clicking on this link will open the Search Post-PWG Online Help application.
7. Animal Totals link	Clicking on this link will open the Post-PWG Chronic and Prechronic Database Totals screen. This screen displays the complete breakdown of the total number and type of animals contained in either the specified Chronic or Prechronic studies. See Appendix A section A.8-Animal Totals Report for more information.
8. Displaying #	This part of the header shows how many results are displayed on the current search results page or all records returned. To see all results in the example in Figure 3-3, you would have to use the scrollbar. In larger reports, along with the scrollbar, there would be a 'Next Page' (more results) link.(Figure 3-4)
9. Report Header	This box displays the Chemical, Species/Strain, TDMS Number and Lab Code. The Chemical and Lab Code are links to their own screens and are discussed later in this chapter. On a Prechronic search results screen there is an additional column for Test Type (Figure 3-4).
10. Record Headings	Record heading includes: Dose Group, Sex, Treatment Dose Level, No. w/ Lesion and the number of animals examined.

Table 3-1: Search Results screen Header reference



'All Morphologies for One Organ' (Figure 3-4) reports will have an extra report heading for **"Morphology"**.



Search Results for "All Morphologies" for "All Sites" of the "Liver" yielded 1416 Prechronic Record(s) with Both Sexes and Both Species.

Close Print Home Help Prechronic Animal Totals

Displaying 1 through 500 of 1416 Results
[Next \(500\)](#) ← Next set of results link

Chemical	Species, Strain	TDMS No.	Lab Code	Morphology	Test Type
URETHANE	RATS, F 344	0060201	MA	Basophilic Focus	SUBCHRON 90-DAY

Added Morphology Heading.
 Test Type heading included in Prechronic results.

Dose Group	Sex	Treatment Dose Level	No. w/ Lesion	No. Examined
1	M	0 PPM	0	10
2	F	0 PPM	0	10
3	M	110 PPM	0	10
4	F	110 PPM	0	10
5	M	330 PPM	0	9
6	F	330 PPM	1	10
7	M	1100 PPM	0	10
8	F	1100 PPM	1	10
9	M	3300 PPM	0	10
10	F	3300 PPM	0	10
11	M	10000 PPM	0	10
12	F	10000 PPM	0	10

Figure 3-4 All Morphologies for One Organ screen with additional Morphology heading

Clinical Observations

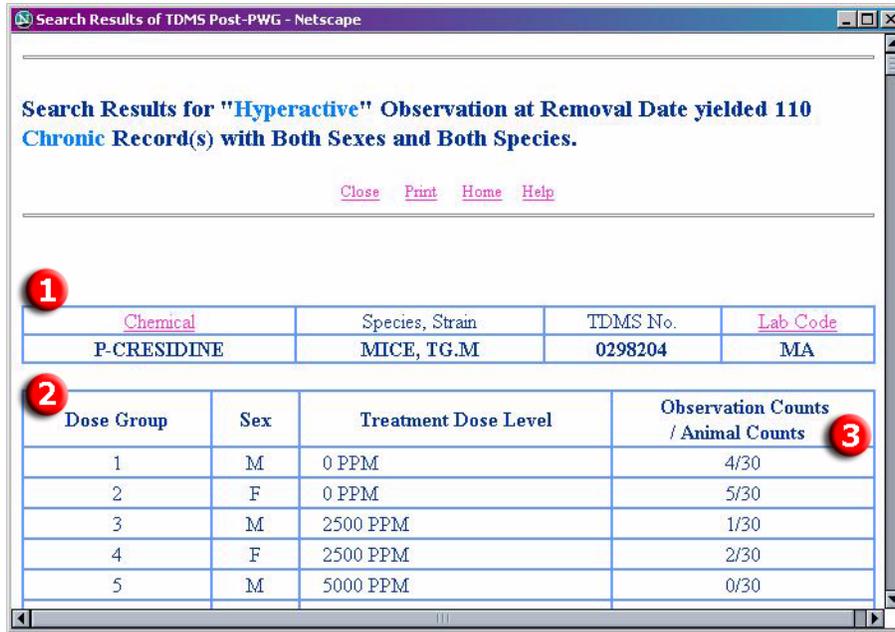


Figure 3-5 Clinical Observation Search Results differences

The search results screen for **Clinical Observations** is slightly different in what information is posted. Figure 3-5 illustrates the differences.

Table 3-2 references the Header differences of the Clinical Observations Search Results screen.

Header Feature	Header Description
1. Report Header	The Clinical Observations search results screen has only Chemical, Species, Strain, TDMS Number and Lab Code Header's .
2. Record Heading	Does not contain the Test Type, Organ, or Morphology headers as other searches do.
3. Observation and Animal Counts	The sub-header for the Clinical Observations search screen is also different from other searches in that it contains Observation/Animal Counts instead of No. w/ Lesion or No. Examined .

Table 3-2: Clinical Observation Search Results screen differences as compared to all other TDMSE search results screens.

3.4 Chemical Link

In the first row of the report heading, the words **Chemical** and **Lab Code** are underlined and of a different color to signify that they are links (Figure 3-6 and Figure 3-7).

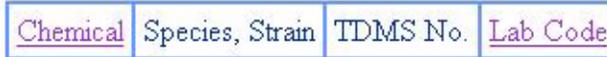


Figure 3-6 Chemical and Lab Code Links in Header - Chronic



Figure 3-7 Chemical and Lab Code Links in Header - Prechronic

By clicking on the **Chemical** link, the **Chemical Directory of NTP Studies** screen will display in a new window (Figure 3-8).

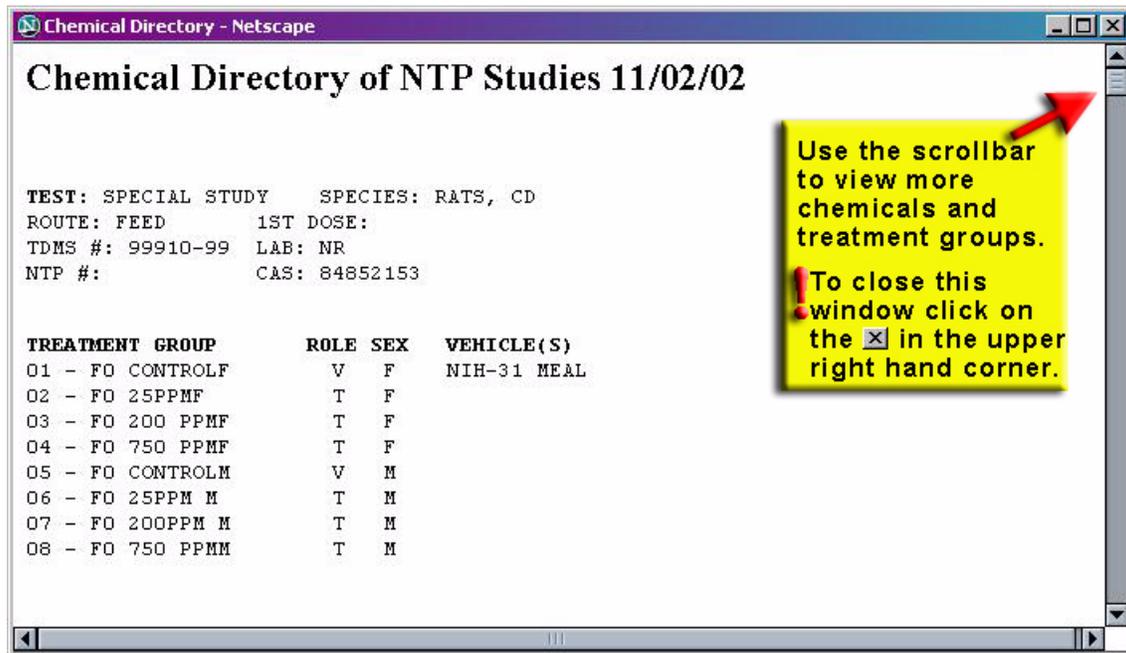


Figure 3-8 Chemical Directory of NTP Studies

The Chemical Directory of NTP Studies enables you to find more information about each experiment using a particular chemical including:

- Test
- Species
- Route
- 1st Dose (Start Date)
- TDMS #

- NTP #
- Lab
- CAS #
- Treatment Group
- Roll
- Sex
- Vehicle(s)



The **Chemical Directory of NTP Studies** is not part of the **Post-PWG Database** and it does not contain a link to go back to the **Post-PWG** application. To return to the last page viewed (**Search Results** screen) in the **Search Post-PWG** application, close the **Chemical Directory of NTP Studies** screen by clicking on the **X** in the upper right hand corner of the screen.

3.5 Lab Code Link

In the first row of the report heading, the words **Chemical** and **Lab Code** are underlined and of a different color to signify that they are links (Figure 3-9 and Figure 3-10).

<u>Chemical</u>	Species, Strain	TDMS No.	<u>Lab Code</u>
-----------------	-----------------	----------	-----------------

Figure 3-9 Chemical and Lab Code Links in Header - Chronic

<u>Chemical</u>	Species, Strain	TDMS No.	<u>Lab Code</u>	TestType
-----------------	-----------------	----------	-----------------	----------

Figure 3-10 Chemical and Lab Code Links in Header - Prechronic

By clicking on the **Lab Code** link, the **Lab Code Legend screen** opens (Figure 3-11). This screen shows you what labs are associated with the experiments listed on the Post-PWG reports along with their abbreviations. To view all the labs you will need to use the scrollbar to the right of the screen.

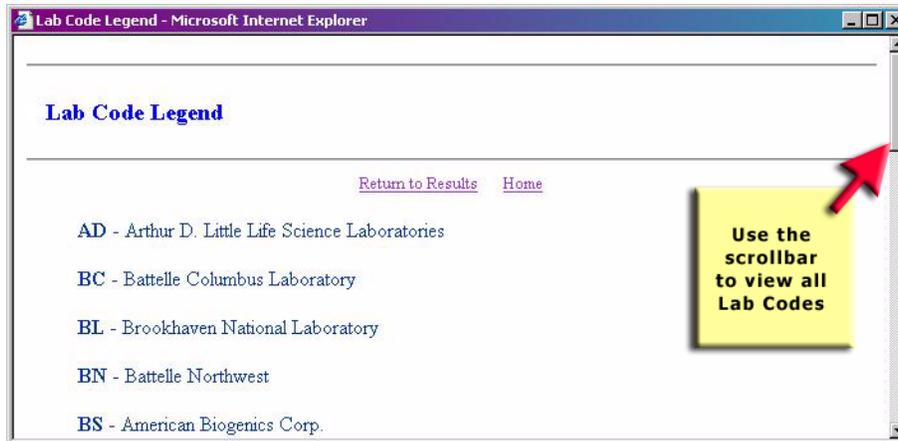


Figure 3-11 Lab Code Legend screen

To return to your search results, click on the **Return to Results** link. To return to the **Search NTP's Post-PWG Database home page**, click on the **Home** link.

3.6 Animal Database Totals



Figure 3-12 Link to Animal Database Totals

The link to the Animal Database Totals screen is located just below the header of the Search Results screen. In the example above, the search originated in Prechronic so the link is posted as Prechronic Animal Totals. Figure 3-13 below is an example of a Prechronic Animal Totals screen.

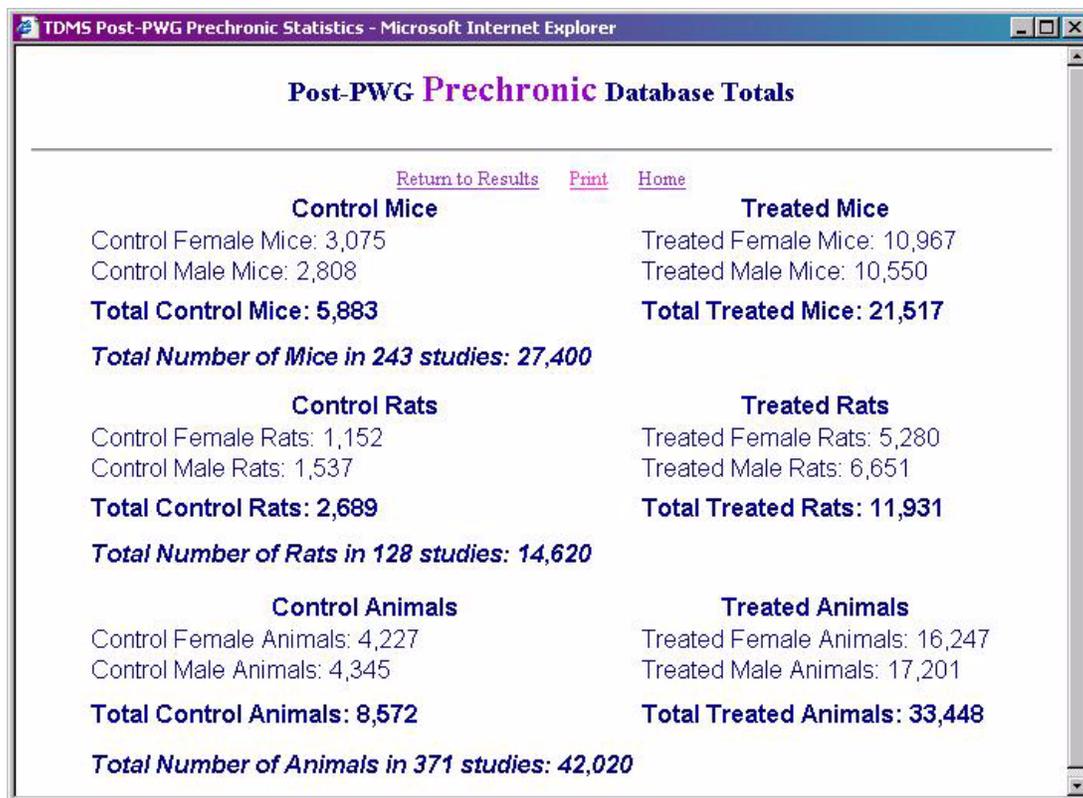


Figure 3-13Prechronic Animal Database Totals screen

From this screen you can click on the **Return to Results** link to return to the previous **Search Results** screen. You can also print this screen by clicking on the **Print** link or you can return to the Post-PWG homepage by clicking on the **Home** link. To close this page, click on the **X** in the upper right corner of your browser window.

For information pertaining to the different fields on this screen, go to Appendix A, section A.8 - Animal Totals Report.

3.7 No Data Available

There may be times when a search is not possible. If an organ or morphology is not displayed it is because there is no data currently available for that organ or morphology.

Another possibility is when an organ or morphology exists yet you have entered a sex or species that does not have data associated with it. In this instance you will see a screen similar to figure 3-14 stating that no data was found matching your search criteria.

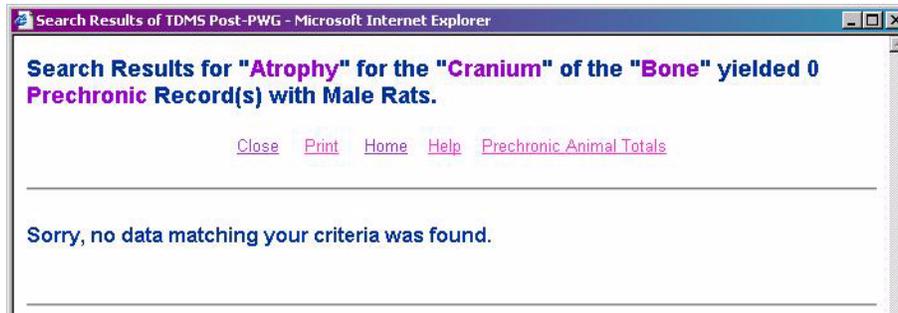


Figure 3-14 No data matching criteria

Appendix A



A.1 Business Process Model and Description

The Post-PWG business area is the area responsible for the maintenance and access of the completed or Post Pathology Working Group data that is derived from the completed data stored and maintained by the Toxicology Data Management System (TDMS). The TDMS Post-PWG may search and report on data from rodent toxicology studies performed at contract laboratories located throughout the United States. The TDMS Post-PWG data is available for public viewing by the scientific community.

The process model outlines the business process of the Post-PWG derived data.

Table A-1 is a key for the terms, entities and processes that are used in the Post-PWG Process Model. In the left hand column are the terms used in the model and in the corresponding right hand column is a more detailed description of the item.

TERM	DESCRIPTION
PWG findings are addressed by the NTP	The NTP reviews the PWG findings to determine if any final modifications are required before the Technical Report is prepared.
Changes are made by subcontractor using LDAS II	The computer support services contractor Pathology Liaison generally makes these changes. However, the post-lock date pathology contractor can also make them.
TDMS is updated and final reports are generated.	NTP computer support updates the changes in the TDMS system.
Study is Promoted to Post- PWG Status	The Chemtrack system automatically updates the study number's reference code to Post-PWG status on the Chemtrack database. The TDMS status is updated.

Table A-1: Post-PWG Process Model Terms and Descriptions

TERM	DESCRIPTION
Technical Report draft is prepared.	<p>An NTP contractor prepares the Technical Report. The first draft of the Technical Report is referred to as the "Green Book." It is so named because the draft has a green cover. The Technical Report details the evaluation of the data for carcinogenic activity. There are five main categories used to characterize the evidence observed in each experiment. A statement of conclusion for a particular study is determined by consideration of key factors that would extend the actual boundary of an individual category of evidence. See the documents Categories of Evidence and Key Factors in the Evaluation of Carcinogenicity for a list of the five categories of evidence and the sixteen key factors for determining the study conclusion.</p> <p>The Technical Report contains (1) Chemical Abstract; (2) Explanation of levels of evidence of carcinogenic activity; (3) Technical reports review subcommittee; (4) Summary of technical reports review subcommittee comments; (5) Introduction; (6) Materials and methods; (7) Results; (8) Discussion and conclusions; (9) References; and (10) Appendices of corroborative documentation</p>
The Technical Report draft is subjected to Peer Review.	<p>Peer Review is performed by members of the Board of Scientific Counselors called the Technical Reports Review Subcommittee. The panel members serve as independent scientists, not as representatives of any institution, company, or governmental agency.</p> <p>In addition to the Technical Report, the Peer Review also reviews the TDMS reports of the study data and diagnoses.</p>
Suggestions are made regarding changes in the report findings.	<p>The Peer Review panel members suggest any changes to the findings that they feel are appropriate.</p>
Technical Report is published and disseminated.	<p>The final report is referred to as the Blue Book as it is bound with a blue cover.</p>

Table A-1: Post-PWG Process Model Terms and Descriptions

A.2 Function Hierarchy Diagram

Function Hierarchy Diagram



Figure A-1 Function Hierarchy Diagram

A.3 Functional Specification

Maintain No. w/ Lesion and No. Examined Search

Definition: Search for No. W/ Lesion and No. Examined by organ type and morphology.

Data Rules:

- 1) In order to be accessed by the function a study must be a Chronic or Prechronic.
- 2) If a study is a Chronic study it must be in one of the following phases in order to be accessed by the function:

- a) Two Year Studies Scheduled for Peer Review (Chemtrack Ref: 13).
 - b) Post Peer Review Technical Reports in Progress (Chemtrack Ref: 14).
 - c) Galley or Camera Copy Technical Reports in Progress (Chemtrack Ref: 15).
 - d) Printed Long Term Technical Reports and Short Term Toxicity Study Reports (Chemtrack Ref 16).
 - e) Prechronic Studies for Which Toxicity Technical Reports were not Prepared (this reference number is used to include the transgenic studies which are considered Chronic even though they are Prechronic – all other studies with Ref: 20 will be excluded using the test type codes) (Chemtrack Ref: 20).
- 3) If a study is a Prechronic study it must be in one of the following phases in order to be accessed by the function:
- a) Post Peer Review Technical Reports in Progress (Chemtrack Ref: 14).
 - b) Galley or Camera Copy Technical Reports in Progress (Chemtrack Ref: 15).
 - c) Printed Long Term Technical Reports and Short Term Toxicity Study Reports (Chemtrack Ref: 16).
 - d) Prechronic Studies for Which Toxicity Technical Reports were not Prepared (Chemtrack Ref: 20).
- 4) Selections are Tissue (Organ) and one or all morphologies of either neoplastic or nonneoplastic types or morphology with one or all organs with optional selections of species and gender.

Table A-2 references the field definitions of the Lesion and Tissue Counts search fields.

FIELD	FIELD DEFINITION & BUSINESS RULES
Test Type	The type by which a test may be classified. Examples are sub-chronic and chronic. User must choose test type.
Topography	An anatomic topography site on an animal. The structure is hierarchical, each type having a parent except for the top (system). User may choose topography.
Morphology	A morphology for a pathology observation. User may choose a morphology.
Morphology Type	Neoplastic or Nonneoplastic morphology type User may choose one morphology type
Species	Species of the animal User may choose one species
Sex	Gender (M, F) User may choose one sex, result of query
Chemical	Chemical or compound name Result of query
Strain	Strain of the species Result of query
Test ID	A 7 digit numeric key identifying an experiment utilizing a particular test compound and a selected animal species and strain Result of query
Facility	A facility with an associated test. Result of query.
Treatment Group	A group defined by the same dose level, dose route, and preparation of test. Result of query.
Lesion Count	The summary of lesions (morphology types) for every tissue type for all possible neoplastic and nonneoplastic morphologies by dose group and gender. Result of query.
Tissue Count	The summary of tissues or organs observed for every tissue type by dose group and gender. Result of query.

Table A-2: Lesion and Tissue Counts Search Field Definitions

A.4 Maintain Clinical Observation Search

Definition: Search for Clinical Observations at Removal Date / Animal Counts.

Data Rules:

- 1) In order to be accessed by the function a study must be a Chronic or Prechronic.
- 2) If a study is a Chronic study it must be in one of the following phases in order to be accessed by the function:
 - a) Two Year Studies Scheduled for Peer Review (Chemtrack Ref: 13).
 - b) Post Peer Review Technical Reports in Progress (Chemtrack Ref: 14).
 - c) Galley or Camera Copy Technical Reports in Progress (Chemtrack Ref: 15).
 - d) Printed Long Term Technical Reports and Short Term Toxicity Study Reports (Chemtrack Ref 16).
 - e) Prechronic Studies for Which Toxicity Technical Reports were not Prepared (this reference number is used to include the transgenic studies which are considered Chronic even though they are Prechronic – all other studies with Ref: 20 will be excluded using the test type codes) (Chemtrack Ref: 20).
- 3) If a study is a Prechronic study it must be in one of the following phases in order to be accessed by the function:
 - a) Short-Term Studies Completed: In Review for Further Evaluation (Chemtrack Ref: 6).
 - b) Short-Term Exposure Studies Scheduled for Peer Review (Chemtrack Ref: 12).
 - c) Post Peer Review Technical Reports in Progress (Chemtrack Ref: 14).
 - d) Galley or Camera Copy Technical Reports in Progress (Chemtrack Ref: 15).

- e) Printed Long Term Technical Reports and Short Term Toxicity Study Reports (Chemtrack Ref: 16).
- f) Prechronic Studies for Which Toxicity Technical Reports were not Prepared (Chemtrack Ref: 20).

Table A-3 references the Clinical Observations search fields.

FIELD	FIELD DEFINITION & BUSINESS RULES
Test Type	The type by which a test may be classified. Examples are Prechronic and chronic. User must choose test type.
Clinical Observation Code	A code for a Clinical Observation Group. User must choose clinical observation code. Clinical Observations must be taken at removal date only.
Species	Species of the animal. User may choose one species.
Sex	Gender (M, F) User may choose one sex. Result of query.
Chemical	Chemical or compound name. Result of query.
Strain	Strain of the species. Result of query.
Test ID	A 7 digit numeric key identifying an experiment utilizing a particular test compound and a selected animal species and strain. Result of query.
Facility	A facility with an associated test and lab code legend report. Result of query.
Treatment Group	A group defined by the same dose level, dose route, and preparation of test. Result of query
Clinical Observations at Removal	Totals by clinical observation type made at removal date by dose group and gender. Result of query.

Table A-3: Clinical Observation Search Fields and Definitions

Animal Totals	Total animals per study by dose group and gender. Result of query.
---------------	---

Table A-3: Clinical Observation Search Fields and Definitions

A.5 Reports Functional Specification

Maintain Lesion and Tissue Counts Search Results Report

Definition: Search for Lesion / Tissue Counts by organ type and morphology report.

Data Rules:

- 1) This report can be viewed after a query for lesion / tissue counts.
- 2) The report can be printed.

Table A-7 references the field definitions of the Lesion and Tissue Counts Search Results fields.

FIELD	FIELD DEFINITION & BUSINESS RULES
Chemical	Chemical or compound name. Result of query.
Species	Species of the animal. Result of query.
Strain	Strain of the species. Result of query.
Test ID	A 7 digit numeric key identifying an experiment utilizing a particular test compound and a selected animal species and strain. Result of query.
Facility	A facility with an associated test. Two letter abbreviation. Result of query.

Table A-4: Lesion and Tissue Counts Search Results Fields and Definitions

Topography	An anatomic topography site on an animal. The structure is hierarchical, each type having a parent except for the top (system). Result of query for "All Organs and 1 Morphology".
Morphology	A morphology for a pathology observation. Result of query for "All Morphologies for One Organ".
Test Type	The type by which a test may be classified. Examples are Prechronic and chronic. Result of query for "All Morphologies for One Organ" or for "All Organs and 1 Morphology".
Treatment Group	A group defined by the same dose level, dose route, and preparation of test. Result of query.
Sex	Gender (M, F) Result of query
Lesion Count	The summary of lesions (morphology types) for every tissue type for all possible neoplastic and nonneoplastic morphologies by dose group and gender. Result of query.
Tissue Count	The summary of tissues or organs observed for every tissue type by dose group and gender. Result of query.

Table A-4: Lesion and Tissue Counts Search Results Fields and Definitions

A.6 Maintain Clinical Observation Search Report

Definition: Search for Clinical Observations at Removal Date / Animal Counts.

Data Rules:

- 1) This report can be viewed after a query for clinical observations/ animal totals.
- 2) The report can be printed.

Table A-5 references the field definitions of the Clinical Observations Search Report fields.

FIELD	FIELD DEFINITION & BUSINESS RULES
Chemical	Chemical or compound name. Result of query.
Species	Species of the animal. User may choose one species.
Strain	Strain of the species. Result of query.
Test ID	A 7 digit numeric key identifying an experiment utilizing a particular test compound and a selected animal species and strain. Result of query.
Facility	A facility with an associated test and lab code legend report. Result of query.
Treatment Group	A group defined by the same dose level, dose route, and preparation of test. Result of query.
Sex	Gender (M, F) User may choose one sex. Result of query.
Clinical Observations at Removal	Totals by clinical observation type made at removal date by dose group and gender. Result of query.
Animal Totals	Total animals by dose group and gender. Result of query.

Table A-5: Clinical Observation Search Report Fields and Definitions



Sentinel animals are included in the results where they have data for the study. For example, if a Sentinel treatment group has NO clinical observations on a search, then that Sentinel treatment group will not be displayed. If however, a sentinel treatment group has a clinical observation of any kind, then that group will display in a search. So if you were searching Ruffled Fur, and a Sentinel Treatment group has a clin obs of lethargic, it would still display in the Ruffled Fur search but with a 0/Count display.

A.7 Lab Code Legend Report

Report Description: The Lab Code Legend reports the definition of the two character lab codes that are included in the headers of the various blocks of data returned from the queries.

Data Rules:

- 1) This report can be viewed after a query for lesion / tissue counts or after a query for clinical observations/ animal totals.
- 2) The report can be printed.

Table A-6 references the field definitions of the Lab Code Legend Report fields.

FIELD	FIELD DEFINITION & BUSINESS RULES
Lab Code	The two character Lab code for the facility that conducted the test. Result of query.
Lab Name	The definition of the lab code which is the full name of facility. Result of query.

Table A-6: Lab Code Legend Report Field Definitions

A.8 Animal Totals Report

Report Description: The Animal Totals report contains the total number of animals and studies by treatment role (control or treated), sex, and species in the Post-PWG studies.

Data Rules:

- 1) This report can be viewed after a query for No. w/ lesion and No. examined. Two reports are created by the query: Chronic and Prechronic study types.
- 2) The reports can be printed.

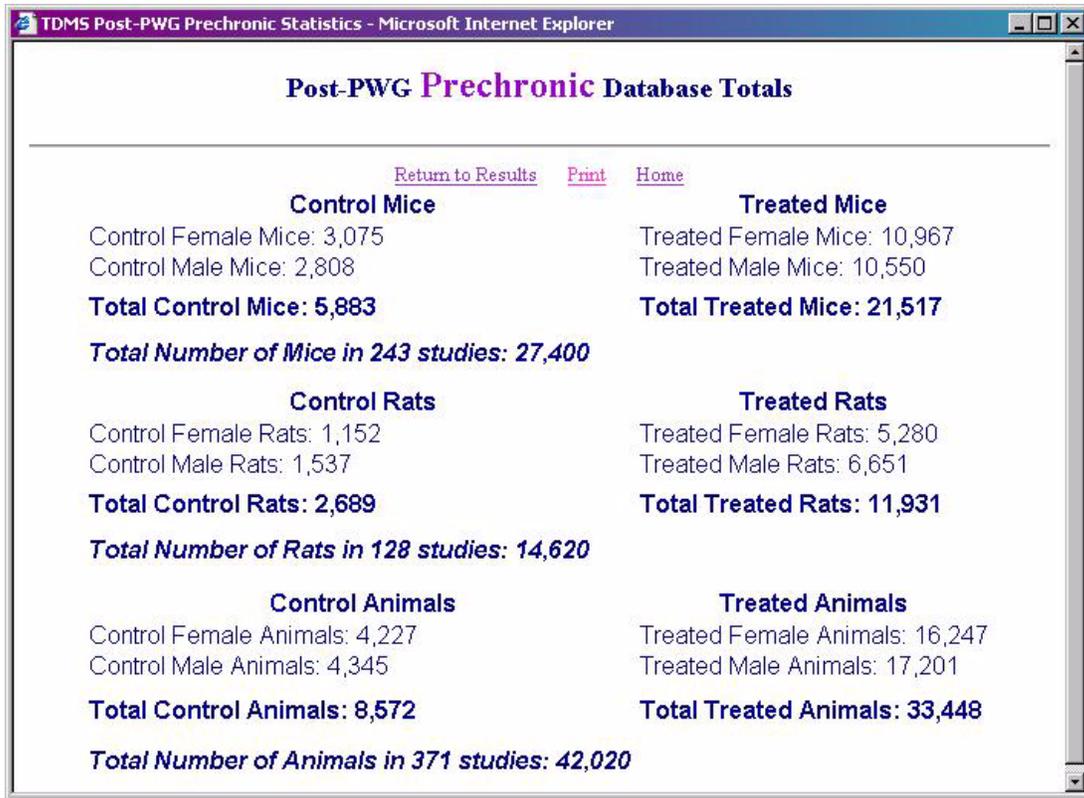


Figure A-2 Animal Totals Report Example using Prechronic

Table A-7 references the Animal Totals Report Heading definitions.

HEADINGS	HEADING DEFINITION
Title	Post-PWG Chronic or Prechronic database totals.
Control Mice	Totals by female control groups. Totals by male control groups.
Total Control Mice	Total control mice.
Treated Mice	Totals by female treated groups. Totals by male treated groups.
Total Treated Mice	Total number of treated mice.
Mice Studies	Total number of studies.
Total Number of Mice	Total number of mice.
Control Rats	Totals by female control groups. Totals by male control groups.
Total Control Rats	Total control rats.
Treated Rats	Totals by female treated groups. Totals by male treated groups.
Total Treated Rats	Total number of treated rats.

Table A-7: Animal Totals Report Field Definitions

HEADINGS	HEADING DEFINITION
Rat Studies	Total number of studies.
Total Number of Rats	Total number of rats.
Control Animals	Total control female animals. Total control male animals.
Total Control Animals	Total control animals.
Treated Animals	Total treated female animals. Total treated male animals.
Total Treated Animals	Total treated animals.
Total Number of Studies	Total of number of studies in both species and group types.
Total Number of Animals	Total of number of animals in both species and group types.

Table A-7: Animal Totals Report Field Definitions

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[//magenta.niehs.nih.gov/cftdms/Postpwg/open.cfm](http://magenta.niehs.nih.gov/cftdms/Postpwg/open.cfm) 11

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