



## LAB TALK 2000 OPENING SCREEN

Shown above is the default opening screen of Lab-Talk. When started, the program will always open to this screen.

After installation and prior to using Lab-Talk for the first time you must open and completely fill out the **REGISTRATION** form. After registration is complete return to the opening screen.



## REGISTRATION SCREEN

All pertinent fields on the **REGISTRATION** form must be filled. If you do not know your Waters Lab account number please contact the lab for that information. The password will be of your choosing and must be lower case – 8 characters or less. The type of service and extraction method (Mehlich I or Mehlich III) field is critical to the correct performance of the program. The primary user's email address must be provided in order to receive email notifications when lab results are posted on the internet ready for download.

Accurate information on the **REGISTRATION** form is extremely important. This form provides the data needed by Lab-Talk for proper and correct performance of its many functions.



## MAIN MENU SCREEN

The **MAIN MENU** allows for navigation of the Lab Talk 2000 program. All printing, viewing and manipulation of sample results is accomplished from this screen.

Upon receipt of an email notification advising that lab results are posted and ready for download, click the **FTP File Download** button. You will see the following screen....



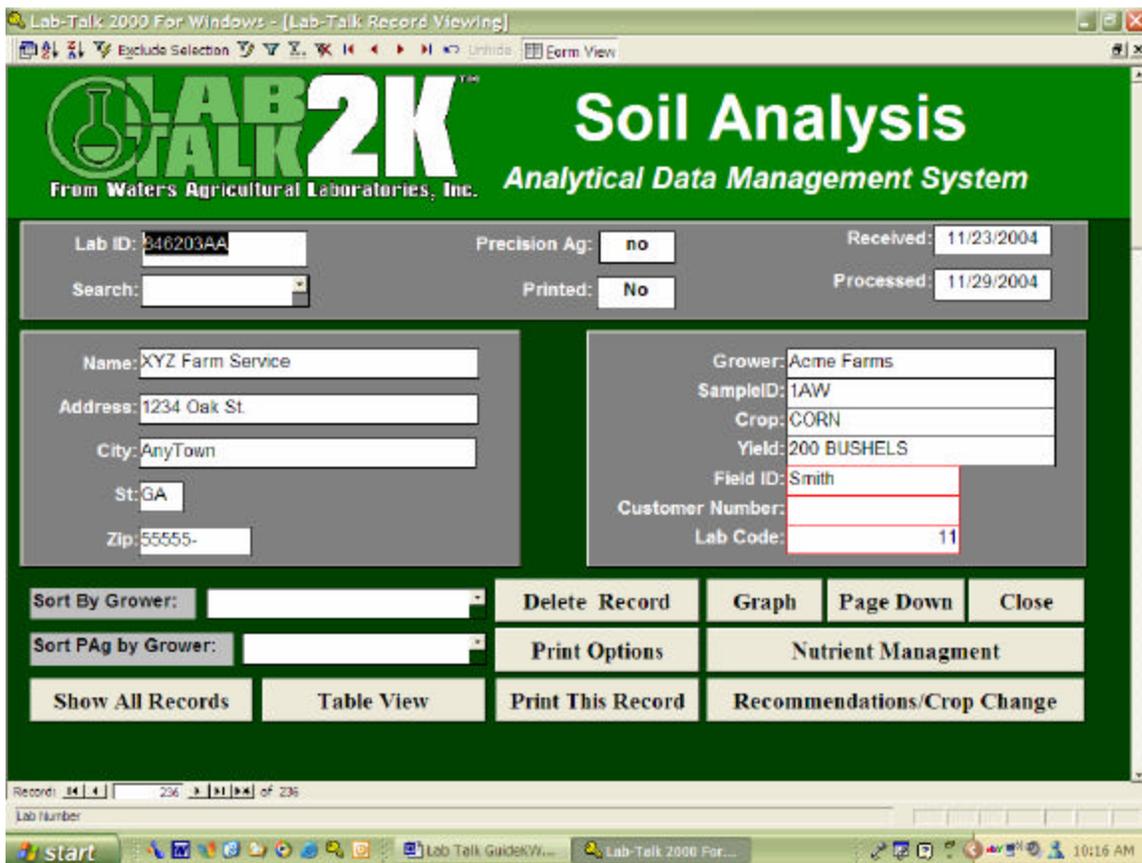
## FTP FILE DOWNLOAD SCREEN

This screen allows for the download of your lab results. A working internet connection is required for proper completion of file download. This procedure is facilitated by following the steps in numerical order. To begin, connect to the server by choosing the **Connect** button (Step 1). When you are connected, you will see **Status: Current Directory is "password & account #"** in the bottom left corner of the screen.

Next (Step 2), choose the sample type for download (*i.e.* soil). The **Available File** box shows a list of all currently available result files for that type. The dropdown box (Step 3) allows for the selection of a specific file for download.

Choose a file (Step 3) and depress the **Get This File** (Step 4) button. Lab-Talk will automatically download lab results into your system and remove that file from the FTP server. This prevents a duplicate download at a later time. A Lab-Talk message box will advise as to the number of records imported into your system. Disconnect from the FTP server (Step 5).

To access your samples close the FTP form and return to the **MAIN MENU**. Choose the form that corresponds to the type of samples downloaded (*i.e.* Soil). The soil form is opened.



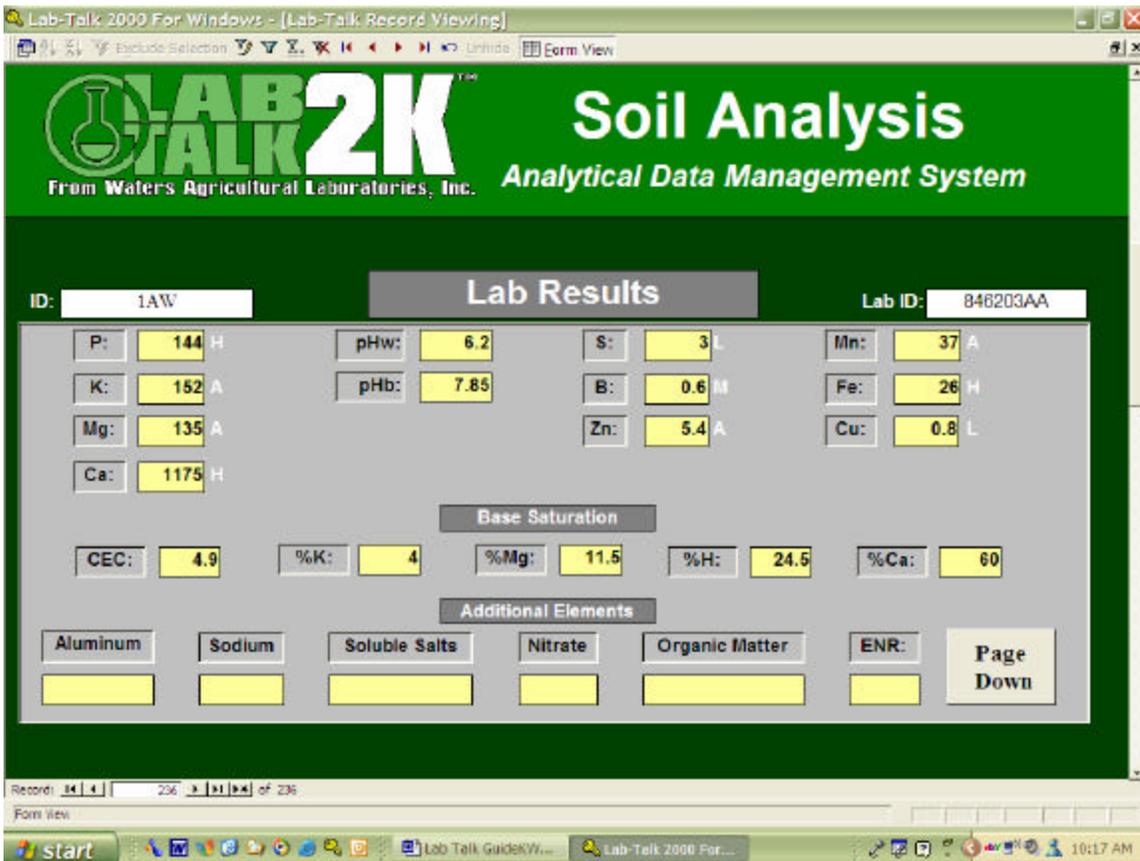
### SOIL ANALYSIS SCREEN – MAIN SCREEN

Each soil sample has four (4) screen pages of data that will print onto a one page report similar to the pre-printed form normally received via mail. You can quickly navigate all records with the arrow keys at the bottom of the screen or you can sort by grower using the dropdown boxes. In addition, you can search all records by providing search criteria in the dropdown search box on the top left hand side of the screen.

Our goal is to facilitate your navigation of records in Lab-Talk and provide you with ways to customize your viewing preferences.

This first page of the soil sample analysis displays the pertinent information specific to that sample.

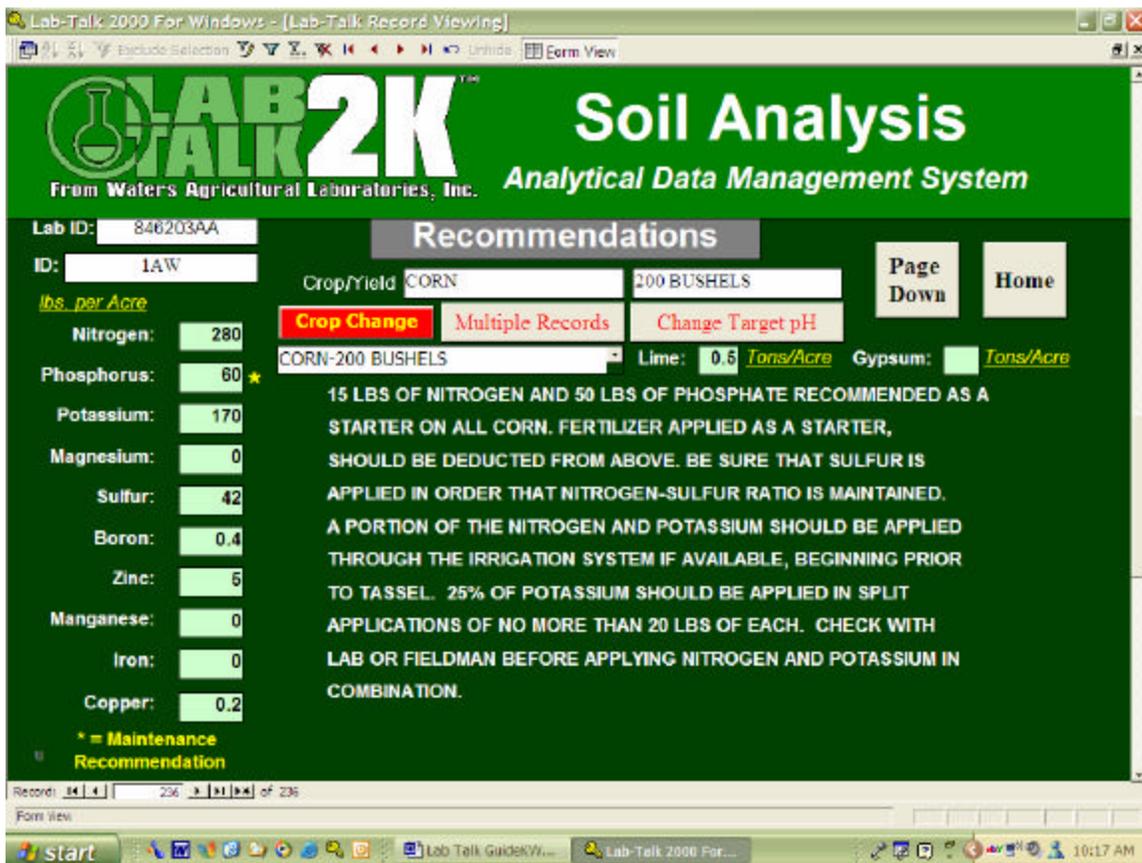
Page down to the next part of this screen.



### SOIL ANALYSIS SCREEN – LAB RESULTS

This screen displays the actual lab results in lbs/acre for the specific sample.

Page down for the next screen for this sample.



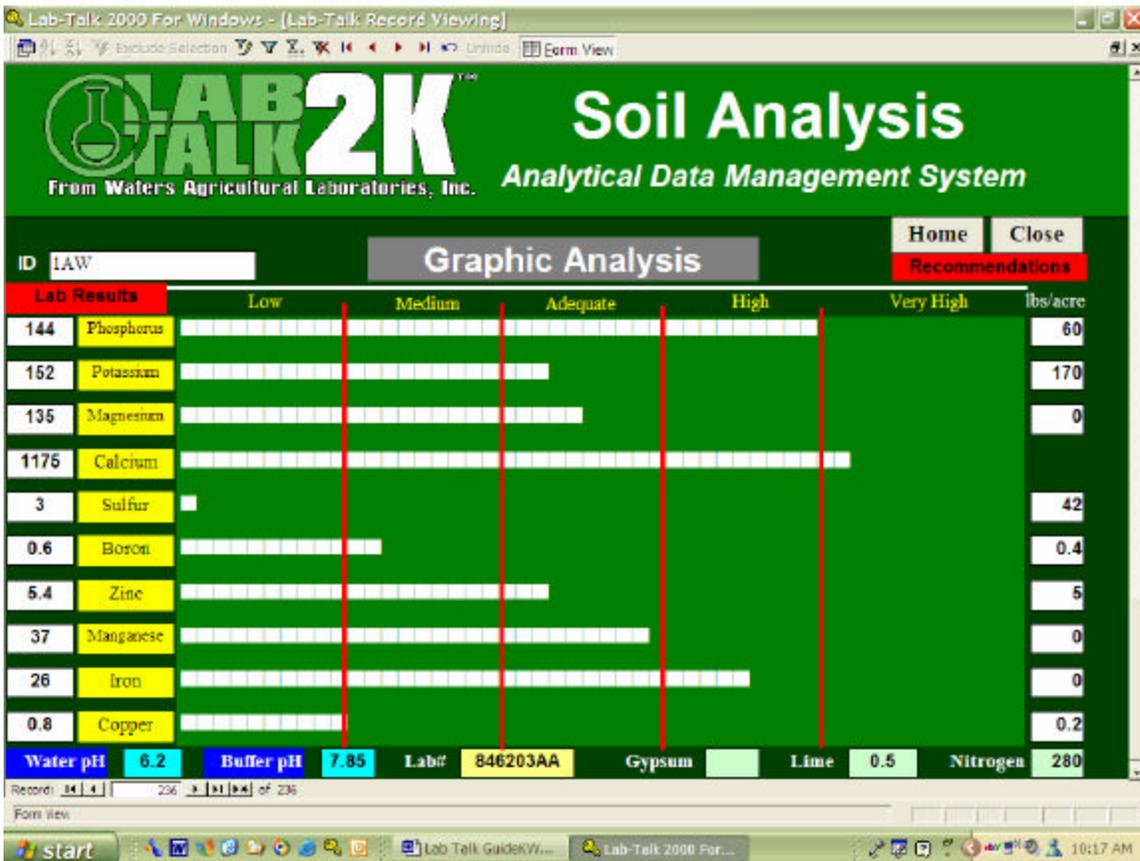
## SOIL ANALYSIS SCREEN – RECOMMENDATIONS

This screen displays fertility recommendations and related comments for the field specific to the desired **Crop** and **Yield** requested.

This screen also allows for changes in the crop/yield or **Target pH** should modifications to the planned crop be necessary.

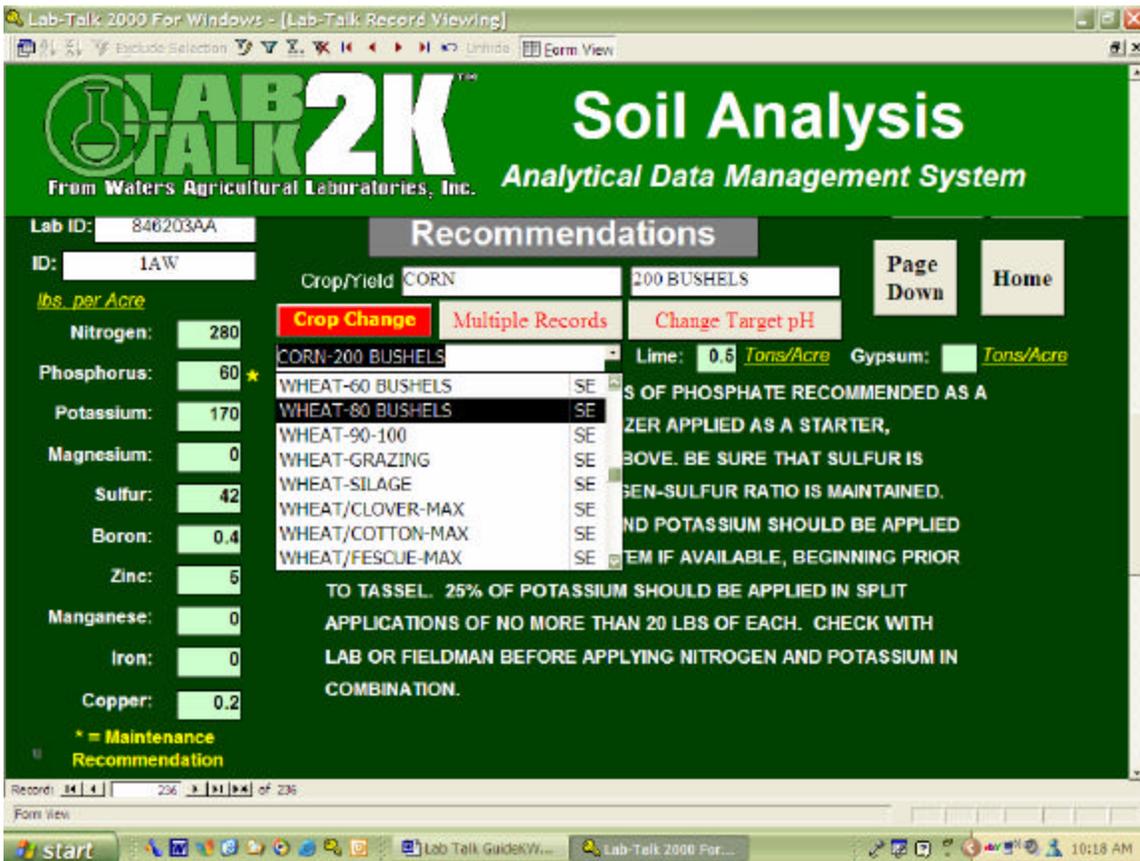
Instructions on how to modify the samples with these changes are included later in this guide.

Page down for the next screen for this sample.



### SOIL SAMPLE ANALYSIS REPORT – GRAPH

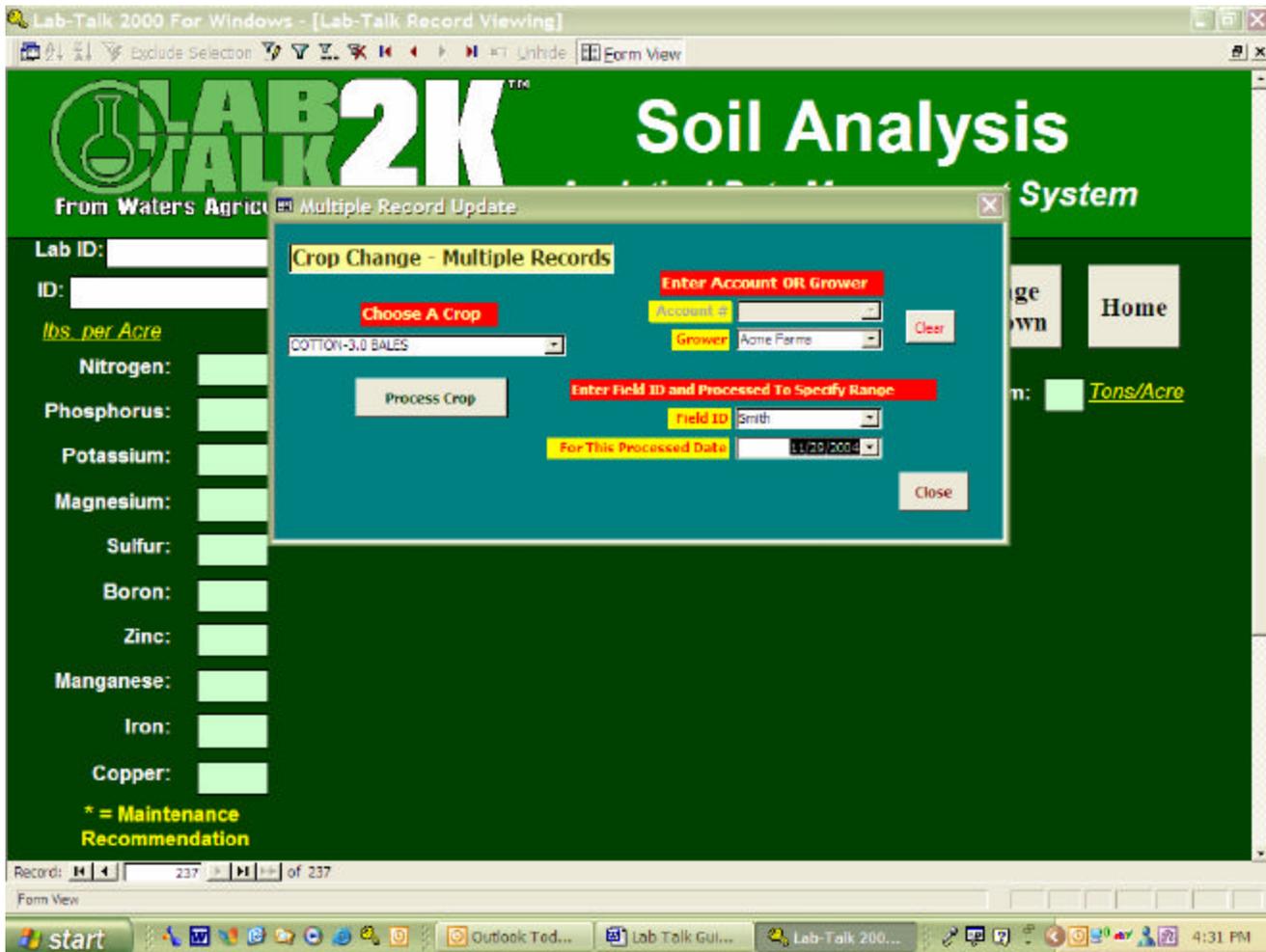
This final screen of the sample analysis shows a quick view of your lab results to the left side for each element. (again, it is listed in lbs/acre) The graph is a visual representation of element levels as reported by the lab analysis with fertility recommendations to its immediate right. The reported pH levels and recommendations for Gypsum, Lime and Nitrogen are displayed at the bottom of the screen.



### STEPS TO MODIFY A CROP AND YIELD

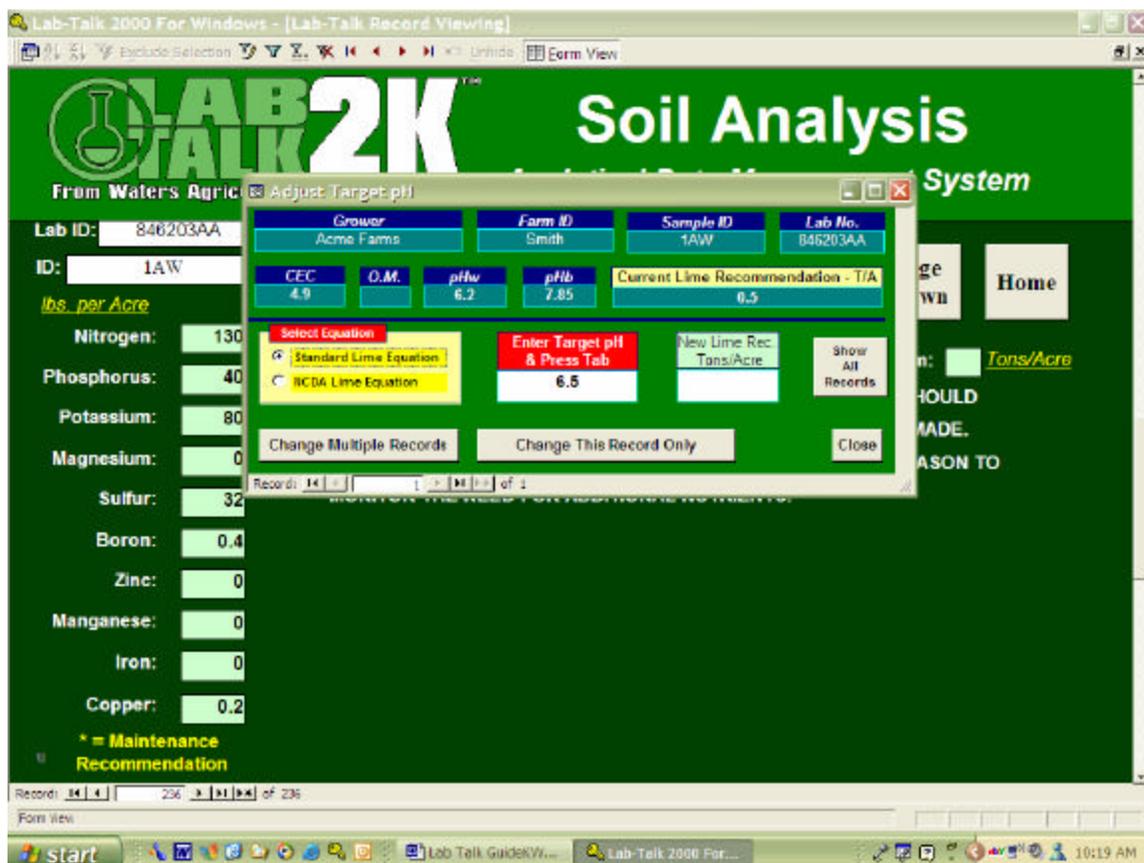
The recommendation screen makes it easy to do a quick change of the planned CROP and YIELD. This procedure will instantly adjust the original recommendations to reflect the modified choice for crop and yield. Simply choose a crop from the drop-down box and the crop, yield, recommendations and comments are adjusted for **this sample only**.





### Multiple Record Crop Change

A multiple record crop change is accomplished by choosing the criteria in the dropdown boxes and pressing the "Process Crop" button. The crop, yield, recommendations and comments are adjusted for **this range of samples**.



## STEPS TO MODIFY TARGET pH

The recommendation screen will also allow you to change the **Target pH** for the specific sample. (**Target pH** defaults to 6.5 unless manually entered) Adjusting the **Target pH** will modify the Lime Recommendations for this sample or for a range of samples.

\*\*\*PLEASE NOTE: Recommendations provided by **Waters Agricultural Laboratories, Inc.** are derived from years of compiled proprietary research **and** research as developed by several major Universities.

**LAB TALK 2K**  
Analytical Data Management System

Lab ID: 1122334 Precision Ag:  Precip:  Received: 11/15/2002  
 Search: \_\_\_\_\_ Processed: 11/25/2002

Name:  Your Company Name Here  
 Address:  Your Company Address Here  
 City:  Your City  
 St:  State  
 Zip:  Zip

Grower:  Your Grower  
 Researcher:  RS  
 Crop:  POTATOES  
 Yield:  20.000000  
 Field ID:  10  
 Customer Number:   
 Lab Code:  10

Sort By Grower: \_\_\_\_\_ Delet: Record Graph Page Down Close  
 Sort Pkg by Grower: \_\_\_\_\_ Print Options Nutrient Management  
 Show All Records Table View Print This Record Recommendations Crop Change

Lab ID:	Printed:	Prec:	Sample ID:	Customer Number:	Received:	Processed:	Grower:	Field ID:	pHw:	pHb:
21941568	No	no	MILES GROWERS		11/13/2002	11/15/2002	CASTLE BRDS		5.9	7.85
21941688	No	no	MILES HILL		11/13/2002	11/15/2002	CASTLE BRDS		5.9	7.80
21941768	No	no	HAYRIGHT		11/13/2002	11/15/2002	CASTLE BRDS		6.5	7.75
71944568	No	yes	1		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	6.7	7.75
71944688	No	yes	2		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	6.4	7.85
71944768	No	yes	3		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	5.6	7.95
71944868	No	yes	4		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	5.7	7.80
71944968	No	yes	5		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	6.3	7.80
71945068	No	yes	6		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	6.2	7.95
71945168	No	yes	7		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	6.2	7.95
71945268	No	yes	8		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	5.5	7.90
71945368	No	yes	9		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	6.5	7.65
71945468	No	yes	10		11/13/2002	11/15/2002	KEVIN TRUNNEL	19	5.8	7.95
71945568	No	yes	1		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	6.7	7.80
71945668	No	yes	2		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	7.1	7.85
71945768	No	yes	3		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	6.9	7.80
71945868	No	yes	4		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	6.6	7.75
71945968	No	yes	5		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	6.7	7.75
71946068	No	yes	6		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	6.6	7.70
71946168	No	yes	7		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	5.9	7.80
71946268	No	yes	8		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	5.5	7.90
71946368	No	yes	9		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	5.5	7.80
71946468	No	yes	10		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	6.0	7.70
71946568	No	yes	11		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	6.0	7.75
71946668	No	yes	12		11/13/2002	11/15/2002	KEVIN TRUNNEL	20	6.6	7.75
71946768	No	yes	1		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	5.7	7.80
71946868	No	yes	2		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	6.2	7.85
71946968	No	yes	3		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	6.0	7.85
71947068	No	yes	4		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	7.4	7.85
71947168	No	yes	5		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	7.4	7.80
71947268	No	yes	6		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	5.8	7.80
71947368	No	yes	7		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	7.0	7.80
71947468	No	yes	8		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	6.1	7.85
71947568	No	yes	9		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	6.2	7.70
71947668	No	yes	10		11/13/2002	11/15/2002	KEVIN TRUNNEL	6A	5.8	7.85
71948868	No	yes	1		11/13/2002	11/15/2002	KEVIN TRUNNEL	6B	7.3	7.85

### SOIL RESULTS - TABLE VIEW

A fast and easy way to view every detail of your soil results, the **Table View** can be very helpful. Click on the **Table View** button, filter and sort using the toolbar buttons provided, return to **Form View** and work **ONLY** with your filtered or sorted records. Use the **Show All Records** button to remove the sort or filter.



## LAB-TALK PRINTING

All Lab-Talk print procedures are controlled from the **LAB-TALK OUTPUT** screen. Choose the print tab that corresponds to the type of report desired. Follow the screen directions to choose the criteria for the records needed to print the report. Depress the PROCESS button to begin printing. You may view or review records by using the command buttons on the right side of screen.

The Lab-Talk Output screen provides for printing of any and all data in the system. Reports for Soil, Plant, Nematode and Petiole are readily printed from the corresponding tab. Turf specific reports are available on the **TURF** tab with fertility recommendations reported in lbs./Square Foot.

The **STATISTICS** tab allows for printing of several custom reports to include Sample Averaging, Soil Test Summary and Sample Comparison reports

Lab-Talk 2000 For Windows - [Lab-Talk Output - Universal]

Nematode Reports   
 Petiole   
 Daily Print   
 Nutrient Mgmt  
 Soil Reports   
 Plant Reports   
 Statistics   
 Turf Soil Reports   
 Precision Ag Exp   
 Precision Ag Reports   
 Misc

**Make Selection For Output Then Enter Criteria**

**Statistics Options**

- Sample Averaging/Material Report
- Turf Sample Averaging Report
- Soil Test Summary Report
- Sample Comparison Form

*Press PROCESS to run reports with the chosen criteria*    **Process**

Account #:    
**Grower**: North Course   
**Field ID**: Front-Fairways  
**Processed**: 2/4/1999 To 2/4/1999   
**Crop**:   
**Clear**    Precision Ag Samples?  All

**LAB TALK 2K™**  
You May Enter Values Manually Or Choose Values From The Drop-Down List.

**Lab-Talk Reports Exports**  
**Close**  
Soil Records  
Plant Records  
Petiole Records  
Nematode Records

Form view

start    Lab Talk GuideKW...    Lab-Talk 2000 For...    10:45 AM

Lab-Talk 2000 For Windows - [Sample Averaging]

**Results**

<b>P</b>	<b>K</b>	<b>Mg</b>	<b>Ca</b>
93.33	88	123.3	947.1
<b>S</b>	<b>B</b>	<b>Zn</b>	<b>Mn</b>
			4.333
<b>Fe</b>	<b>Cu</b>	<b>Soil pH</b>	<b>Buffer pH</b>
34.33		5.9	7.77

**CEC** 4.85556    **Al**     **Na**     **Soluble Salts**     **Nitrate N**     **OM**

**Sample Averages**

Reported In lbs./Acre

Start Over  
ReCalculate  
Averages Report  
Material Report  
Close

**Recommendations**

<b>N</b>	<b>P</b>	<b>K</b>	<b>Mg</b>
175	41	162	10
<b>S</b>	<b>B</b>	<b>Zn</b>	<b>Mn</b>
			11
<b>Fe</b>	<b>Cu</b>	<b>Urea Tons/A</b>	<b>Gypsum Tons/A</b>
		0.857	

**Additional Results Average**

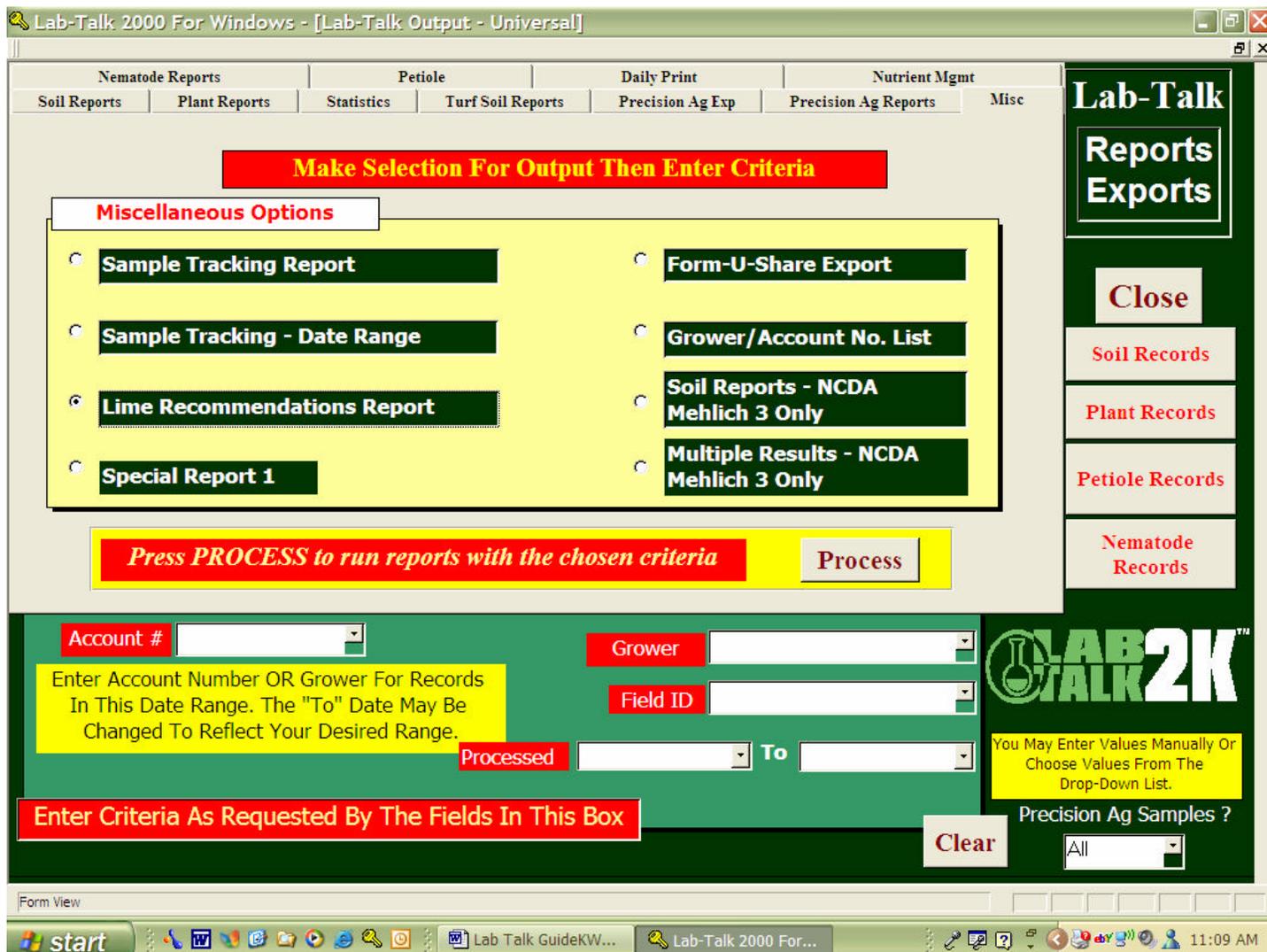
**Select All**    Check the "CHOOSE" field to select records. Use the Recalculate and Start Over buttons to update averages.

Choose	Lab #	Company	Date	Grower	Acct#	Field ID	Sample ID	Crop
<input checked="" type="checkbox"/>	353838B	Heavenly Pines CC	2/4/1998	North Course		Front-Fairways	F-1	GOLF FAIRWAYS
<input checked="" type="checkbox"/>	353848B	Heavenly Pines CC	2/4/1998	North Course		Front-Fairways	F-2	GOLF FAIRWAYS
<input checked="" type="checkbox"/>	353858B	Heavenly Pines CC	2/4/1998	North Course		Front-Fairways	F-3	GOLF FAIRWAYS
<input checked="" type="checkbox"/>	353868B	Heavenly Pines CC	2/4/1998	North Course		Front-Fairways	F-4	GOLF FAIRWAYS
<input checked="" type="checkbox"/>	353878B	Heavenly Pines CC	2/4/1998	North Course		Front-Fairways	F-5	GOLF FAIRWAYS
<input checked="" type="checkbox"/>	353888B	Heavenly Pines CC	2/4/1998	North Course		Front-Fairways	F-6	GOLF FAIRWAYS
<input checked="" type="checkbox"/>	353898B	Heavenly Pines CC	2/4/1998	North Course		Front-Fairways	F-7	GOLF FAIRWAYS
<input checked="" type="checkbox"/>	353908B	Heavenly Pines CC	2/4/1998	North Course		Front-Fairways	F-8	GOLF FAIRWAYS
<input checked="" type="checkbox"/>	353918B	Heavenly Pines CC	2/4/1998	North Course		Front-Fairways	F-9	GOLF FAIRWAYS

Record: 14 of 9

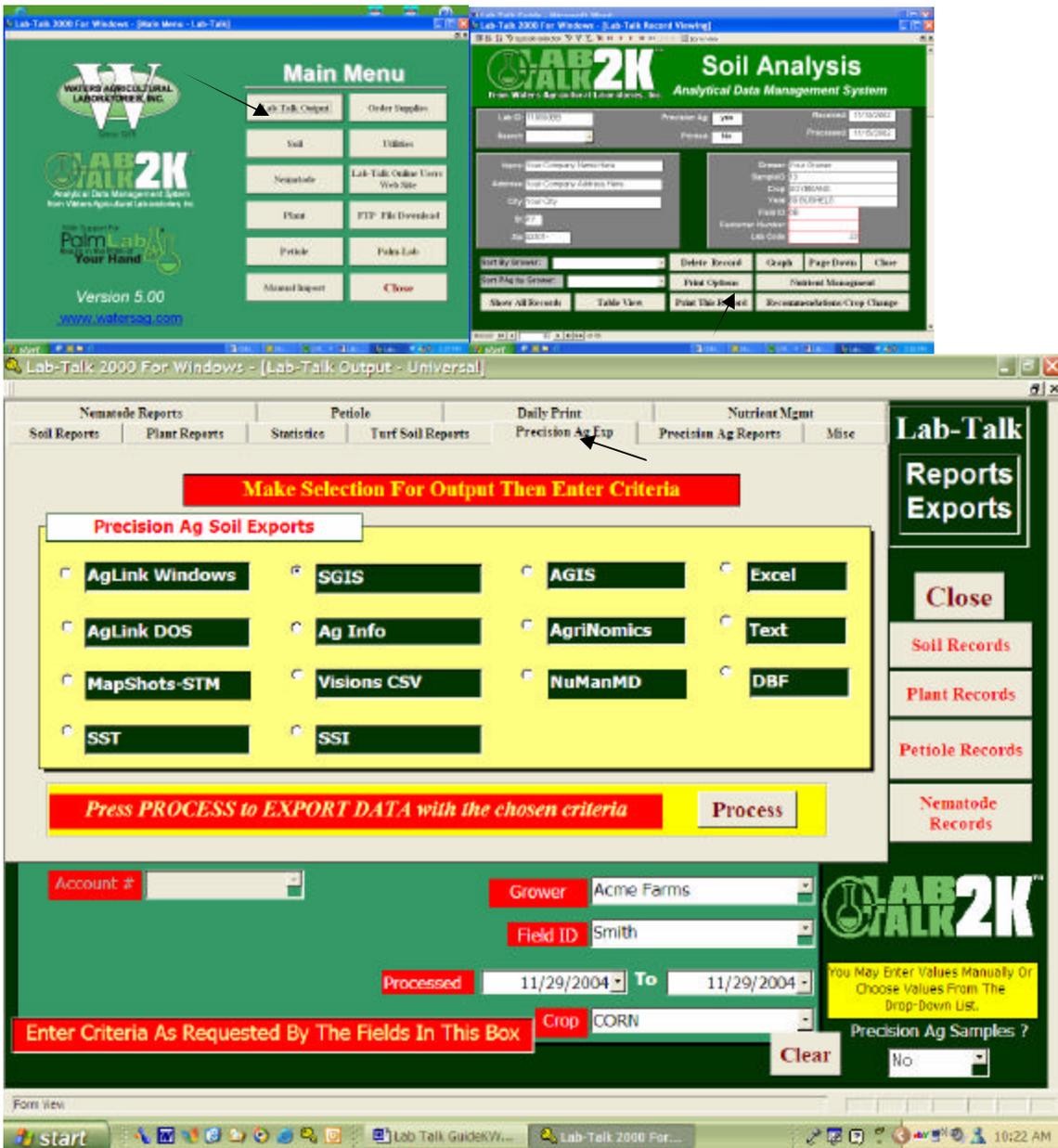
Form view

start    Lab Talk GuideKW...    Lab-Talk 2000 For...    10:41 AM



The MISCELLANEOUS tab provides print procedures for several more custom reports to include **LIME RECOMMENDATION** and **SAMPLE TRACKING**.

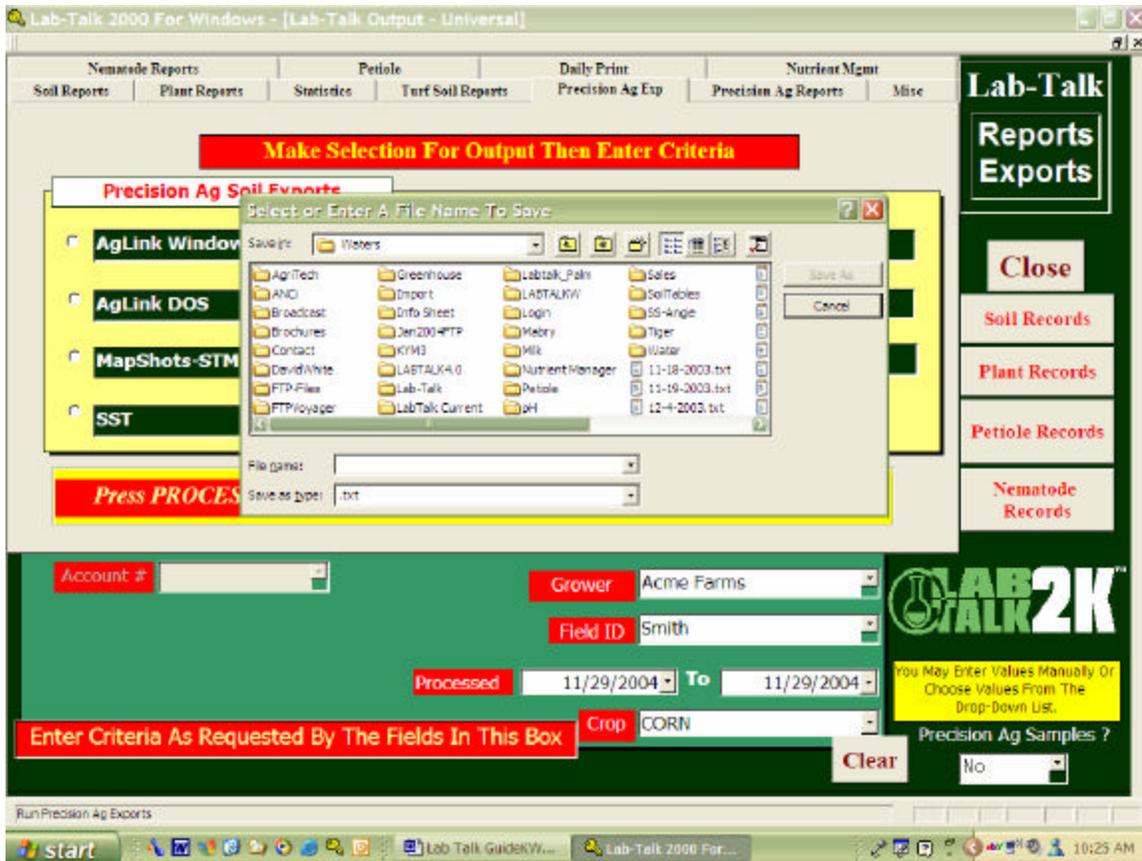
Use the dropdown box labeled **PRECISION AG SAMPLES ?** to show or hide criteria data based on type of sample  
(Precision Ag = **NO**, Precision Ag = **YES** or **ALL**).



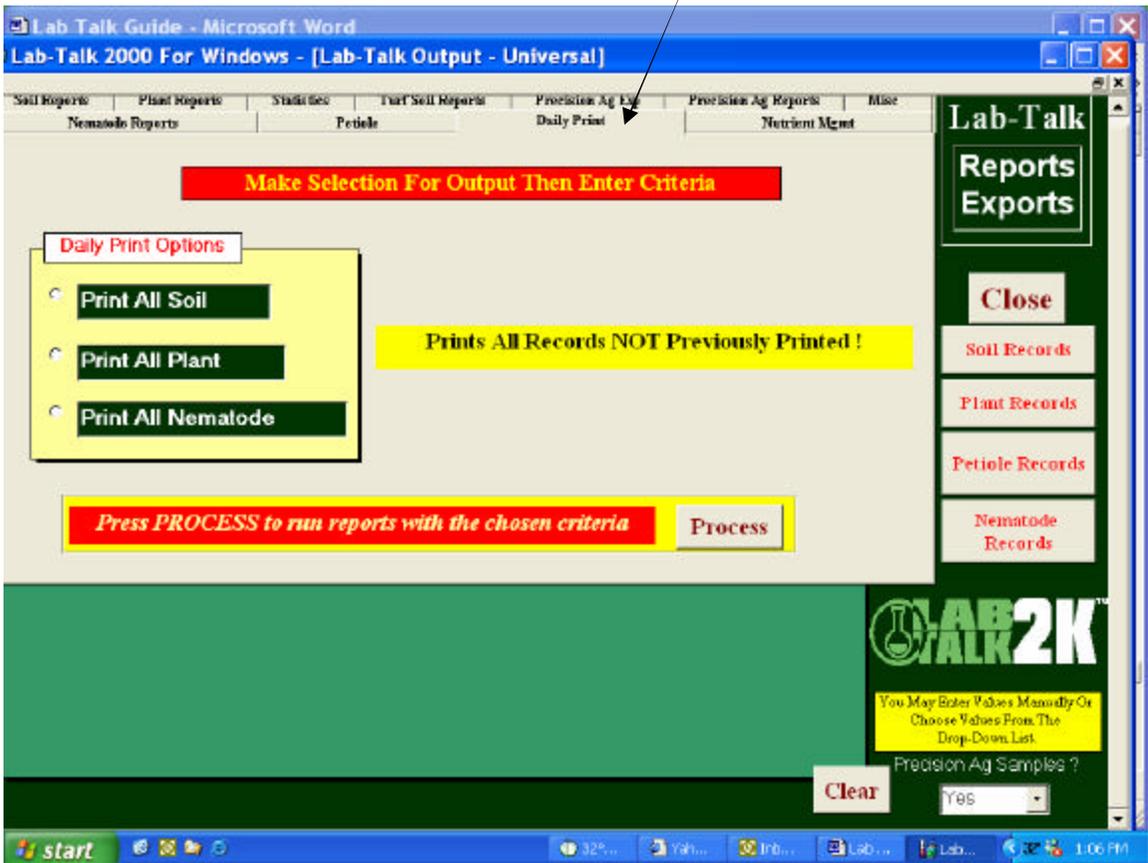
### PRECISION AG EXPORTING (Export files for mapping)

This screen is accessed by choosing the **LAB TALK OUTPUT** button on the main menu or on the **PRINT OPTIONS** on the soil sample analysis report. Choose the **PRECISION AG EXPORT** tab.

Choose the mapping package into which samples will be imported. Choose the specific range of samples by using the dropdown boxes and use the Process button to complete the file creation.



Choose a destination folder and file name for the export file you are about to create. Choose **SAVE AS** to complete the export. Your file will be created in the folder chosen with the name chosen and with the appropriate file extension for import into the mapping package desired.



### PRINT NEW RESULTS ONLY

For printing of daily received lab results use the **DAILY PRINT** tab on the print options screen. This will enable you to print individual sample reports that have not previously been printed. *i.e.:* Following receipt of your email notification, follow the previous instructions for downloading your results. Use this print procedure to send all sample reports received in that download to your printer.