SAM4s SPS-2000 Series

SAM2000
Reference Manual

SAM2000 Reference Manual V1.13

All specifications are subject to change without notice. ©2013 CRS, Inc.

CRS, Inc.
Limited Warranty and Disclaimers of Warranty

This manual has been developed by CRS, Inc. It is intended for the use of its customers and service personnel and should be read in its entirety before attempting to install, use or program the product(s).

Nothing contained in this manual shall be deemed to be, and this manual does not constitute, a warranty of, or representation with respect to, the product or any of the products to which this manual applies. This manual is subject to change without notice and CRS, Inc. has no obligation to provide any updates or corrections to this manual. Further, CRS, Inc. also reserves the right, without prior notice, to make changes in equipment design or components as it deems appropriate. No representation is made that this manual is complete or accurate in all respects and CRS, Inc. shall not be liable for any errors or omissions contained in this manual. In no event shall CRS, Inc. be liable for any incidental or consequential damages relating to or arising out of the use of this manual. This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied or reproduced without prior written consent of CRS, Inc.

NOTICE

IF ANY WARRANTY IS EXTENDED TO YOU WITH REGARD TO THE PRODUCT(S) TO WHICH THIS MANUAL APPLIES, IT IS A WARRANTY FROM THE ENTITY OR INDIVIDUAL FROM WHOM YOU DIRECTLY PURCHASED THE PRODUCT(S).

SUBJECT TO THE FOREGOING, UNLESS YOU ARE A DIRECT END USER CUSTOMER OF CRS, INC., CRS, INC. DOES NOT EXTEND TO YOU ANY EXPRESS WARRANTY OR ANY IMPLIED WARRANTY AND EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR USE, OR FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS IN CONNECTION WITH THE PRODUCT(S) OR ANY SOFTWARE, DRIVERS, OR PROGRAMMING PRODUCT, WHETHER EMBEDDED IN PRODUCT(S) OR PROVIDED AS A SEPARATE PROGRAM, OR USED IN CONJUNCTION WITH THIS/THESE PRODUCT(S). CRS, INC. SPECIFICALLY DOES NOT WARRANT THAT THE OPERATION OF ANY DRIVERS, SOFTWARE, OR PROGRAMMING PRODUCTS LICENSED HEREUNDER, WHETHER EMBEDDED IN PRODUCTS OR PROVIDED AS SEPARATE PROGRAMS, SHALL BE UNINTERRUPTED OR ERROR FREE OR THAT FUNCTIONS CONTAINED IN SUCH DRIVERS, SOFTWARE OR PROGRAMMING PRODUCTS SHALL OPERATE IN COMBINATION(S) WHICH MAY BE SELECTED FOR USE BY YOU OR OTHERWISE MEET YOUR REQUIREMENTS.

CRS, Inc. is not responsible for any damages or loss, either direct, indirect, special, incidental or consequential, which you may experience as a result of your purchase or use of the product(s). Your sole remedy in the event that you encounter any difficulties with the product(s) is against the entity or individual from whom you purchased the product(s).

Revision 2.0 - April 1, 2005

Contents

Introduction 5

Overview 5
- Polling Features 5
- Program Maintenance Features 5
- Inventory Features 5
- Inventory Reports 6
- Requirements 6

RS-232C Interface Specifications 8
Installing 8
SPS-2000 Required Settings 9
- S-Mode System Options 9
- Define Port Parameters 10

Starting 11
Navigating 12
- Mouse and Keyboard 12
- Viewing Menus and Selecting Menu Items 12
- Drop-Down List Boxes 14
- Check Boxes 14
- Option Buttons 14
- Scrolling 14

Stores 15

Overview 15
Creating a New Store 16
Edit a Store 19
Selecting the Default Store 19
Deleting a Store 20
Track Inventory Selection 20

Edit ECR Data 21

Overview 21

PLU/Inventory Maintenance 23

PLU and Status Groups 23
- PLU Data 25
- Inventory 26
- Barcode 27
- Inventory History 30
- Copy PLU 31
- Status Groups 32

Edit PLU File by Grid 33
PLU Price Fast Edits 34
Vendors Maintenance 35
Add Inventory 36
- Add Inventory by Item 36
- Add Inventory by Shelf 40

Add Inventory by Vendor 41
Add PLU Sales 43
Repair Inventory Files 44
Update Inventory from Old Poll File 45
PLU Stock (not part of inventory) Min PLU Stock (not part of inventory) 46

Communications **47**

Polling 48
Send Programs to ECR (Download) 49
Receive Programs from ECR (Upload) 50
Polling Setup File 51
List of Reports Available by Polling 52

Print **53**

Daily Poll File 54
Create Comma Delimited File 55
PLU File Only 56
PLU Sales Analysis (v.1.23.0 or later only) 57
Log File 61
Inventory Report 62
PLU Range 63
Consolidated Store Report 64
Not Found PLU File 65
Min Level Inventory Report 66
Inventory Type Report 67
Cost Report 68
Minimum Inventory by Vendor 69
Physical Inventory By Vendor 71
Physical Inventory by Shelf 72
PLUs by Group (Financial) 73
PLUS by Group (Program Info) 74
PLU Sales With Percentage 74
Changed PLU Report 76

Remove **77**

Old Poll Files 77
Log Files (Upload, Download, Poll) 78

Utilities **79**

Overview 79
Display Memory Allocation 80
Copy a Store 81
Copy PLU and Status Group Files 82
Pause Between Stores In Polling 83
Calculate Number of PLUs 83
Set Auto-Polling 84
After Polling 85
Set Number of Attempts in Polling 87
Backup Poll Data Files 87
Delete Inventory History 88
Reset Inventory to History 89
Physical Inventory Comparison Partial Physical Inventory Comparison 90
Inventory Comparison Procedure 91

Manually Adjust Inventory 92
Convert Polled File to Comma Delimited 93
Import Register PLU File 94
Copy PLU Price Levels 96
Reset Purchase History To Qty Fields 97

Appendices **99**

Structure of Stores 99
File Definitions 100
Structure of Polling Files 101
PLU Structure 103
Troubleshooting Common Problems 104
    Hardware 104
    Software 104
Cabling Diagrams 106
    Cable Pinouts 107
Inventory File Management 108
Inventory Products with Multiple Units of Measure 110
    Master PLU Setup 111
    Child PLU Setup 112
    Child PLU Setup 112
    How the Inventory Works 113
Export Delivery File 114

Manual Revision Record **116**

Introduction

Overview

SAM2000 is an easy-to-use package that provides both polling and inventory control for *SAM4s SPS-2000* users.

Polling Features

- Connect directly, via telephone modems, or though IP Internet connection.
- Poll reports from the station, save, display or print them at the PC.
- Poll all stores, or individual stores.
- Poll unattended at predetermined times. Define reports for six different polling sessions and poll up to six times per day.
- *SAM2000* converts polled reports to ASCII files, ready to be used by other PC applications.

Program Maintenance Features

- Upload program files from the station to the PC.
- Download program files to the station from the PC.
- PLU Program screen provides information organized with tabs and uses check boxes to select individual PLU options.
- The Copy PLU function can be used to minimize setup time by copying the attributes of one PLU to another PLU or range of PLUs.

Inventory Features

- Inventory Maintenance function allows stock addition, transfers in/out and promo/waste tracking.
- Vendor Information Maintenance records basic vendor data.
- In addition to ECR data for each PLU, *SAM2000* provides the following fields for each PLU:
  - A 30-character *Full Description* field is provided to supplement the 20-character PLU descriptor that is used at the SPS-2000.

- The *Vendor Product ID#* is a 14-character alphanumeric field. You can locate specific items by PLU Number Lookup, Vendor Product ID# or PLU Descriptor Lookup.
- *Units Of Measure* can be indicated with 4-character lot and piece descriptors. Where large inventory units, such as cases of soft drinks, are broken down and sold in smaller units, such as 6-packs or cans, small unit sales can be set to deduct from the master inventory unit.
- At the *Minimum Inventory Level,* you can indicate the quantity where at item should appear on the *Minimum Inventory Level Report.*
- Using the *Shelf Location* field will facilitate physical inventory procedure. You can print inventory worksheets sorted by shelf location.
- *Primary* and *Secondary Vendors fields* allow you to maintain vendor contact information for each inventory item.

- Track inventory when multi-unit packages of food or beverage items are broken down and sold in different units of measure. For example, stock cases, then breakdown to sell 12-packs, 6-packs and single units. This feature allows retailers to maintain the inventory under the largest purchased unit – the "master" PLU, while pieces of the master unit sold under different barcode numbers are also subtracted from the "master" inventory in the appropriate quantities.
- Calculates *margin of profit percentage*, *quantity on hand, average unit cost* and *total cost on hand.*
- Prints barcode labels.
- Records *purchase history* and *sales history* for each item.

Inventory Reports

- The *Minimum Inventory Level Report* lists PLUs where the inventory on hand level is less than the minimum inventory level.
- The *Cost Report* extends the value of current inventory and calculates the profit margin percentage based upon the current selling price.
- The *Physical Inventory By Shelf* report provides a worksheet for a physical inventory, organized by shelf number, PLU # or Shelf Descriptor and provides the expected inventory level.
- *Sales History Reports* and *Purchase History Reports* can be printed by date range.

Requirements

To use this utility, you must have:

- Pentium 100 or faster CPU.
- 32 MB RAM.
- 150 MB minimum hard disk space available.
- Dedicated serial port (RS-232C).
- CD ROM drive.

- VGA or SVGA display.
- Windows XP or above operating system.
- Screen resolution of 800 x 600 pixels.
- Internet connection for IP polling or remote dial-up connection by phone modem (requires modem for both PC and ECR sites). US Robotics™ V.92 56K External Modems are recommended.

RS-232C Interface Specifications

Communications Specifications

Asynchronous Operation

Communication Mode	Half Duplex
Baud Rate	Selectable up to 57,600
Signal Level	RS-232C
Character Bits	8
Parity Bits	None
Stop Bits	1
Error Detection	Data sum check

Installing

Notes: SAM Polling software requires a USB software key to be installed on the PC running the software to access all of the polling and programming features.
(Older Parallel-LPT software keys require a parallel port on the PC, this key will not work through a USB/Parallel converter).

Software can be installed on a PC without the key, but it can be used only for program saving/loading without the software key.

The direct connection from the ECR to your PC requires a serial port on the PC. See "Cabling Diagrams" on page 106 for more information on cables and connections.

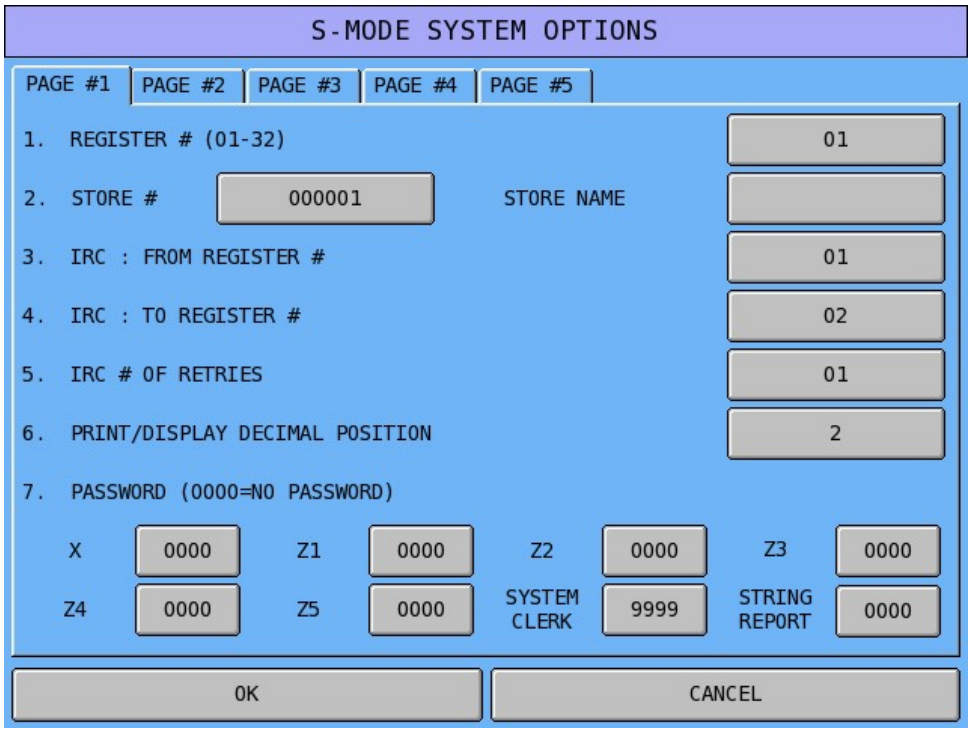
1. Download the *SAM2000* Polling Software from the Dealer area on the CRS web site at: http://crs-usa.com/DEALER/deal2000.asp
2. Double click the **Setup.exe** - The Welcome dialog displays.
3. Click **Next**. The Installation Drive dialog displays.
4. Click **Next**. The Ready to Install dialog displays.
5. The *SAM2000* will load – when complete, the installation Success dialog displays.
6. Click **Finish**.
7. Next, the Sentinel Run-time Environment Installer loads the driver for the software key.
8. When the driver installation is complete, the Sentinel Run-time Environment dialog displays.
9. Click **OK.** Your installation is complete.

SPS-2000 Required Settings

To run the software, you must make the following settings:

S-Mode System Options

1. Select SYSTEM OPTIONS from the S-MODE MENU.

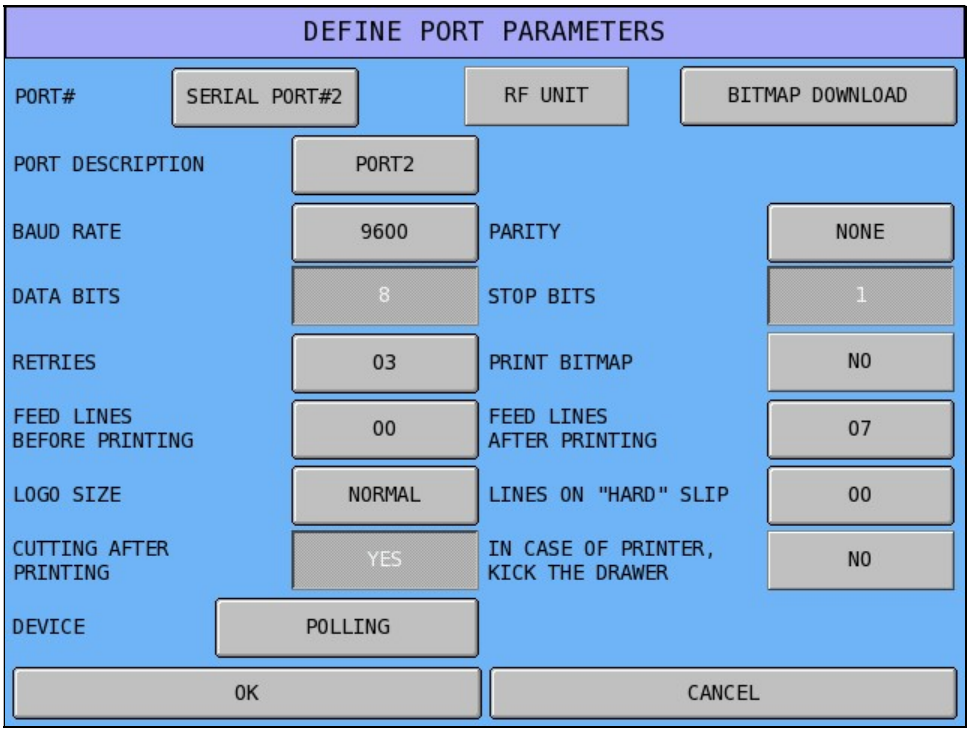


2. Set options 1-4 with the appropriate values, note that the store # must match the store number set in *SAM2000* store settings.
3. Touch **OK** to exit.

Define Port Parameters

Use the Serial Port Device Selections program to assign ‘Polling” status to the appropriate serial port.

1. Select DEFINE PORT from the S-MODE MENU.

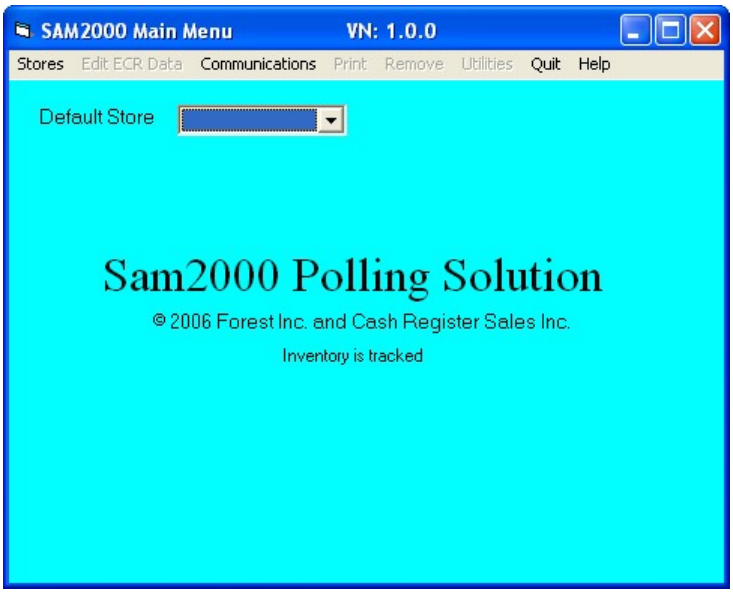


2. Touch the port currently selected at the PORT # field to select the port you wish to view or edit.
3. Touch the device currently selected at the DEVICE field to select POLLING.
4. Verify that the BAUD rate matches the *SAM2000* store setting (the highest recommended setting is 57,600; 115,200 BAUD is available but not recommended), that parity is set to ‘NONE’, data bits is set to ‘8’ and stop bits is set to ‘1’
5. Touch **OK** to save settings and return to the S-MODE MENU.

Starting

Note: The software key must be installed on the USB port for *SAM2000* to access all of the features of *SAM2000*. Without the software key installed, only program save/load operations can be accessed.

1. Click the **Start** button, click **Programs**, click ***SAM2000*** and then click ***SAM2000*.exe**.
2. The *SAM2000* main screen displays.



YOU MUST DO THIS FIRST!

Before you can attempt communications or editing, you must create at least one store. Refer to "Creating a New Store" on page 16.

After creating a store, you must Receive (Upload) information from the ECR. Refer to "Receive Programs from ECR (Upload)" on page 50.

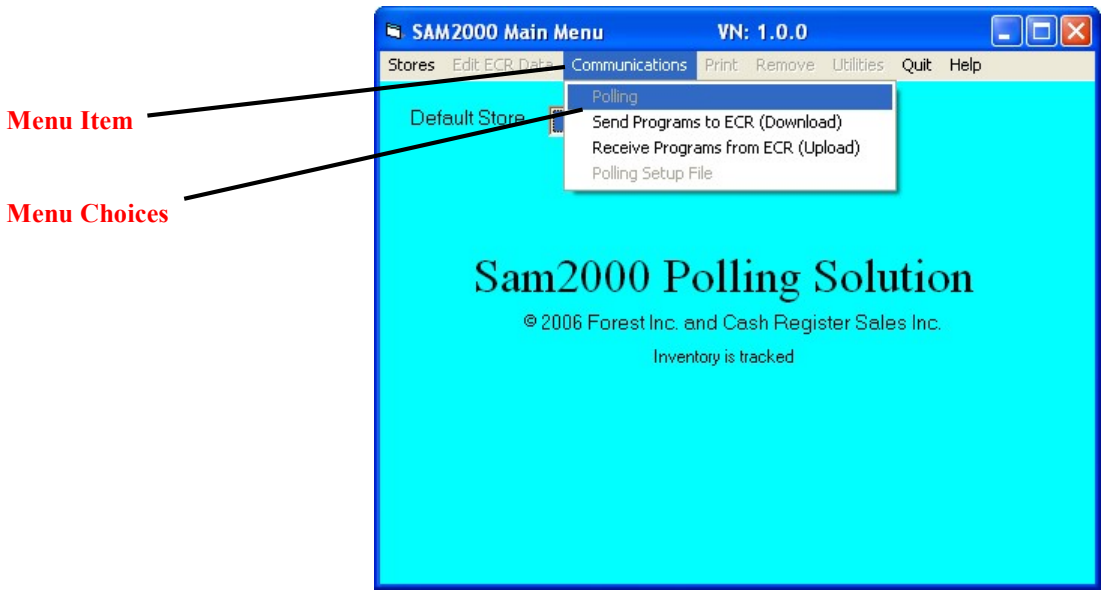
Navigating

Mouse and Keyboard

You can choose a menu, menu item, or a command by clicking on it with your mouse. (As an alternative to using your mouse, you can navigate by typing the shortcut keys on the keyboard.)

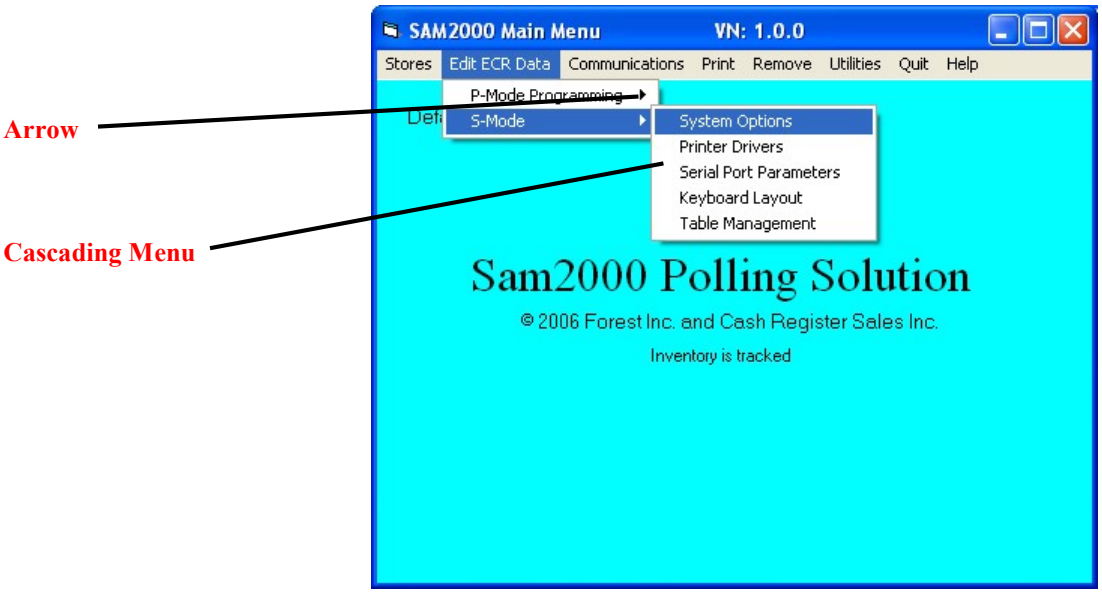
Viewing Menus and Selecting Menu Items

1. Point at a menu item with your mouse, or type the shortcut key to display menu choices.
2. Point at your choice on the menu and click the left mouse button, or type the shortcut key to select an item from the menu.



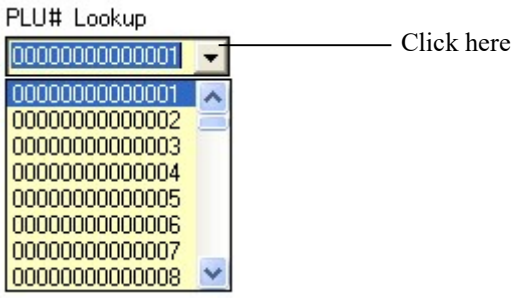
Cascading Menus

1. The arrow indicates additional choices cascade from the first menu.
2. Move the mouse pointer in the direction of the arrow to display additional choices.



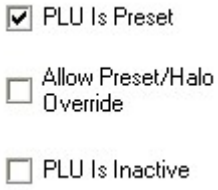
Drop-Down List Boxes

- Click on the arrow in the box to open the drop-down list box and display a list of choices. Click on an item to select it. (If all the choices are not in view, scroll bars are provided.)



Check Boxes

- Click on a check box to make a selection. Click the check box again to deselect the item

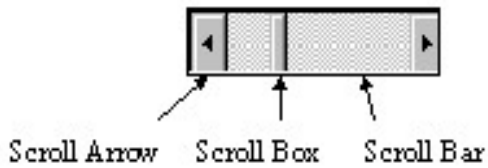


Option Buttons

- Click on one of the option buttons (also called radio buttons) to make a selection. Your previous selection pops up when a new selection is made.

Scrolling

- Move the scroll box to select the item you wish to work with. Drag the scroll box or click the scroll arrows to find your selection.

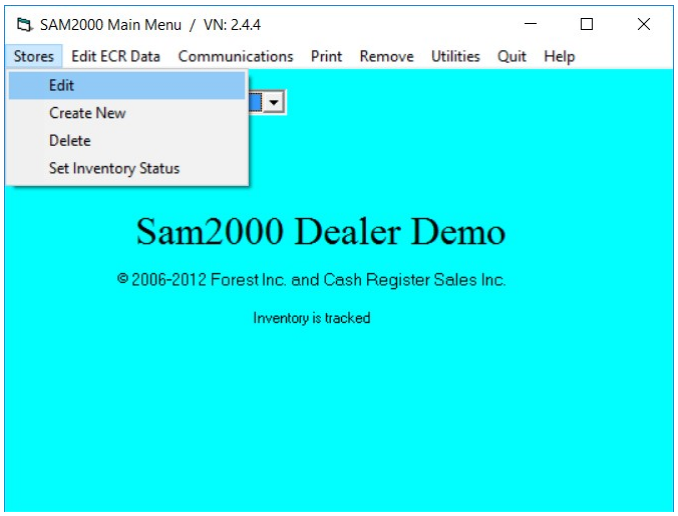


Stores

Overview

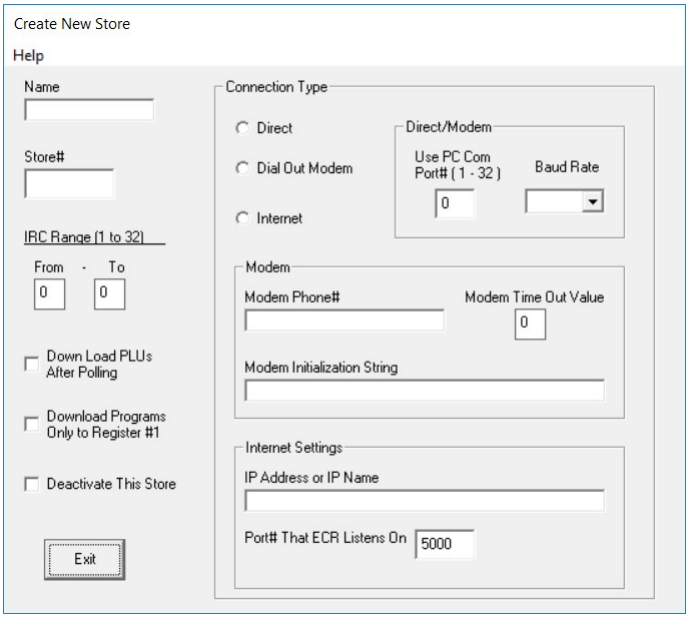
Choose **Stores** to Edit, Create New or Delete stores from ***SAM2000***. A store must be created before any communications or editing can take place. From the Stores menu, you can edit stores, add new stores or delete stores as necessary. This is also where the inventory status for stores is set.

NOTE: The Track Inventory Selection control is also located on the Stores menu. This option controls whether PLUs can be uploaded from the ECR. If you are using the inventory management feature of ***SAM2000***, you must manage inventory at the PC and PLUs should be uploaded only at the time of installation.



Creating a New Store

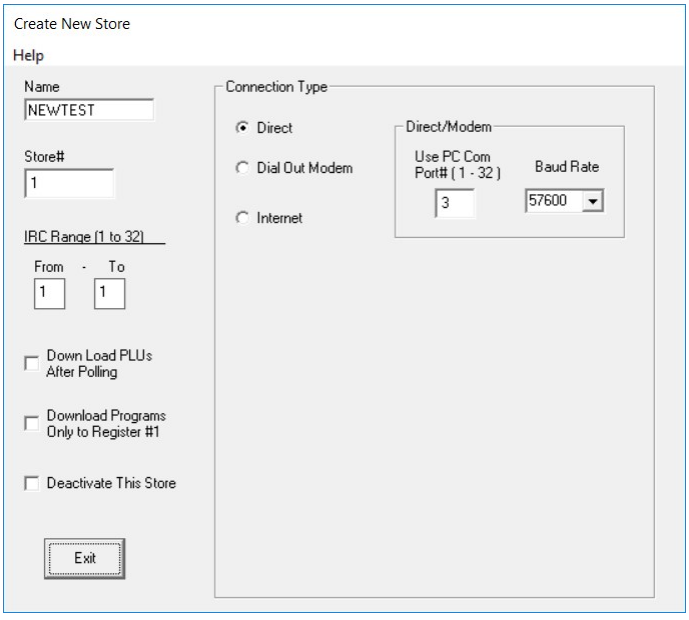
1. Choose **Create New** from the *Store* menu to create a store. You can create up to 255 stores. The *Create New Store* dialog displays.



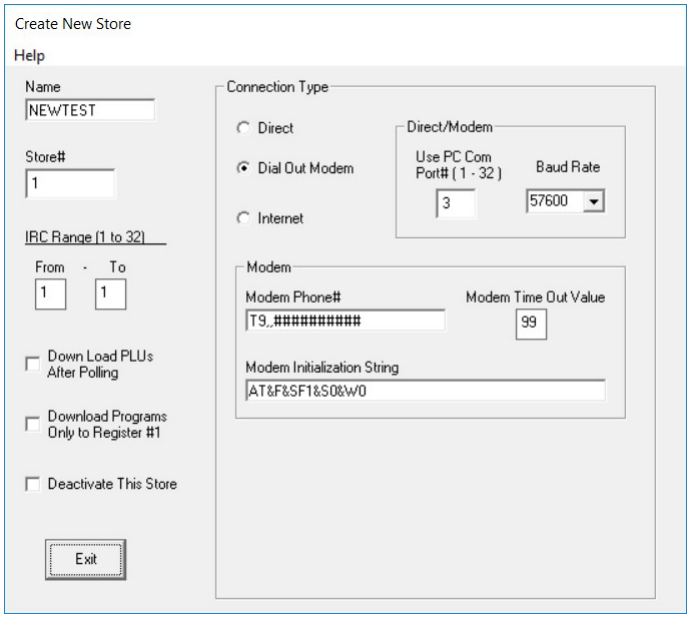
2. Select your connection type: **Direct**, **Dial Out Modem**, or **Internet**. The New Store dialog will display with the fields appropriate to the connection type you have selected:

Note: The options differ depending upon the connection type selected.

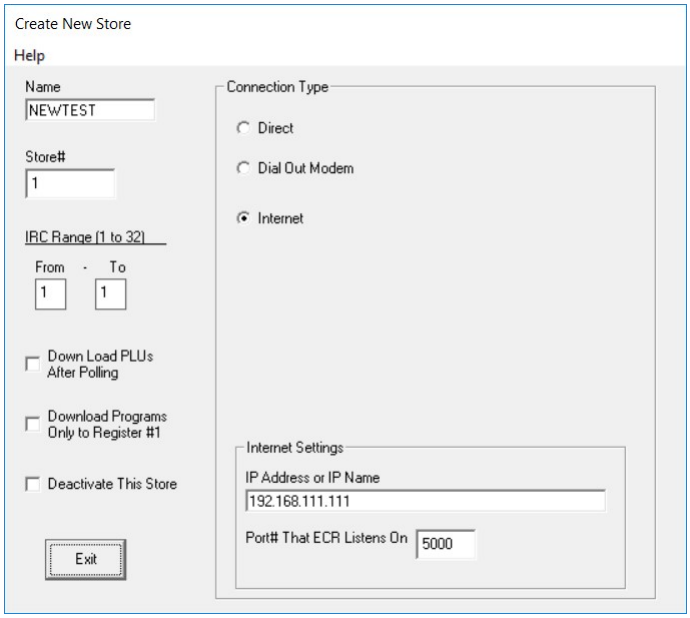
Direct Connection Options



Dial Out Modem Connection Options



Internet Connection Options



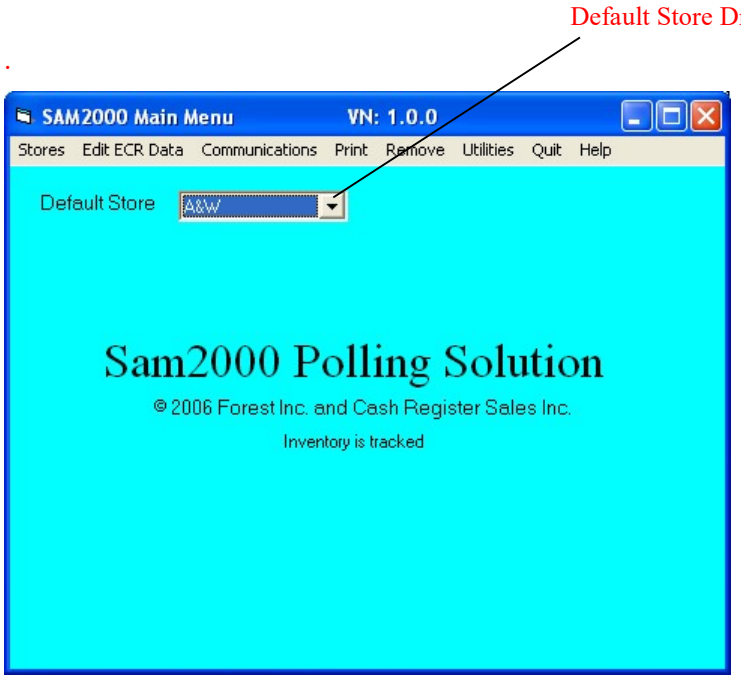
3. Complete the *Create New Store* dialog using the reference information in the table below.

Field Name	Required/ Optional	Description/Instructions
Name	Display Only	The store name displays.
Store#	**R**	Enter the four-digit number that is the same number that you used when you programmed the store# at the register. If store numbers do not match, you will not be able to communicate with the register.
From/To IRC Range	**R**	Enter the IRC range of registers from 1-16. If the register is standalone, use *from* **1** *to* **1**.
Connection Type	**R**	Choose *Direct*, *Dial Out Modem*, or *Internet*
Modem Phone#	**O**	Enter the Phone number preceded by the letter **T** or **P** only if you intend to communicate with the register by modem. The **T** is for TONE and the **P** is for PULSE. If you communicate direct, leave this field blank.
Modem Time Out Value	**R**	Unless otherwise indicated, the default value of 99 will be entered automatically when the store is created.
Modem Initial String	**O**	Ignore this field unless attempting to use a modem other than the recommended US Robotics modem. (This field is to allow you to enter any initialization required for your modem for polling or communications. Do not add the command prefix "AT" in this string. Do not put into this string any E, Q or V values. The software automatically handles these values.)
IP Address or IP Name	**O**	If connection is Internet, enter IP address or IP name.
Port# That ECR Listens On	**O**	If connection is Internet, enter the port the router listens on. (Default is 5000)
Use PC COM Port# (1-32)	**R**	Enter the PC serial port (COM1- COM32) that you are using for communications.
BAUD Rate	**R**	Select the data transmission rate that matches the BAUD setting in the "Define Serial Port Parameters" S-Mode program at the SPS-2000.
Download PLUs After Polling	**O**	Enter Y if you wish to download changed PLUs in a polling session. When the session is finished polling, the program will download any changed PLUs.
Deactivate This Store	**O**	Select the *Deactivate This Store* check box if you wish the store to be inactive.
Download Programs Only to Register #1	**O**	If checked, program downloads will communicate only to the SPS-2000 in an IRC configuration that is connecting to *SAM2000*. If not checked, programs will be downloaded to all SPS-2000's in an IRC network.

4. Click **Exit** to save store information.

Selecting the Default Store

* Click the **Default Store** drop-down list box to select the working store. When you have created at least one store, the list box will display all stores created. The working store will display in the **Default Store** field. All editing and programming will pertain to the selected working store.



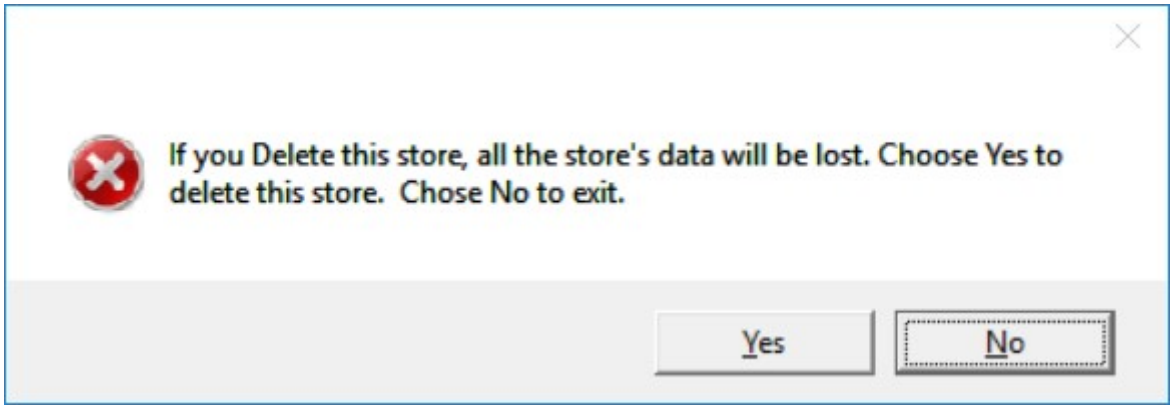
Edit a Store

Editing a store is similar to creating a new store, the same screens are displayed.

1. Select the store you wish to edit from the main screen *Default Store* drop-down list.
2. Choose **Edit** from the *Store*s menu to edit a store. The *Edit Store Information* dialog displays with the fields appropriate to the connection type selected.
3. Complete the *Edit Store Information* dialog in the same manner as described in creating a new store on the preceding pages.
4. Click **Exit** to save the edited store information.

Deleting a Store

1. Choose **Delete** from the *Stores* menu to delete the working store from your hard drive. A warning dialog displays.

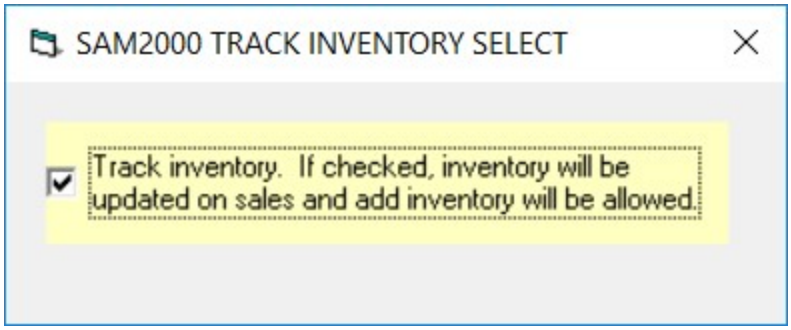


2. Click **Yes** to delete the store.

Caution: This function will erase everything that pertains to this store. Use extreme caution with this function. Information that is deleted cannot be recovered.

Set Inventory Status

1. Choose **Set Inventory Status** from the *Stores* menu. The Track Inventory check box is selected in the default configuration.



☑ Keep the Track Inventory check box selected if you are using the inventory management feature of ***SAM2000*** for this store. With the box selected, the Add Inventory function of ***SAM2000*** is activated and PLU inventory will be updated when a Z1 PLU report is polled. With the box selected the PLU file cannot be uploaded from the ECR to the PC.

☐ De-select the Track Inventory check box if you want to turn off the inventory management feature for this store.

Edit ECR Data

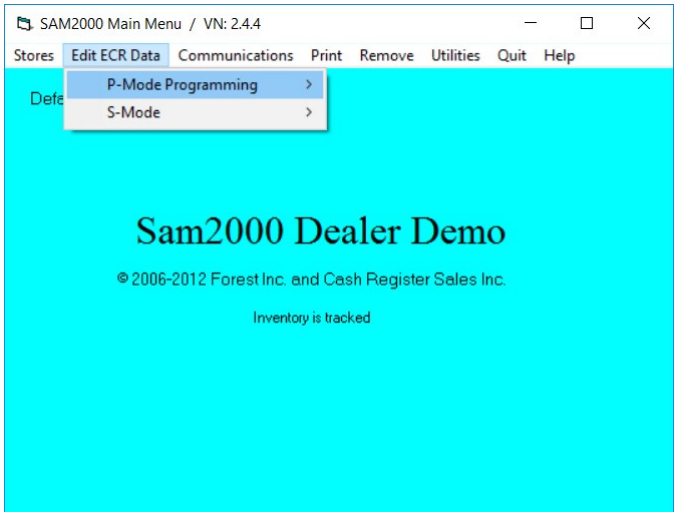
Overview

Before you can edit the store programs, you must first upload all programs from the ECR to the *SAM2000*. See Receive Programs from ECR (Upload) procedure on page 50 for details.

SPS-2000 programs can be edited at *SAM2000* and then downloaded to the ECR.

Choose **P-Mode Programming** or **S-Mode** from the *Edit ECR Data* menu and then select a specific item to modify that part of an existing SAM4s SPS-2000 program. Remember that the options in this program allow you to edit the same program options that you set on a standalone *SPS-2000* through the register's keyboard. SAM4s **SPS-2000** programming options are not detailed in this manual. Follow the instructions on the screen, or refer to the *SAM4s SPS-2000 Program Reference Manual* for a complete description of your program options.

Note: If you wish to create a program for a new store from an existing store, you can use the "Copy a Store" function (see page 81) and then edit the copied program to suit your needs.

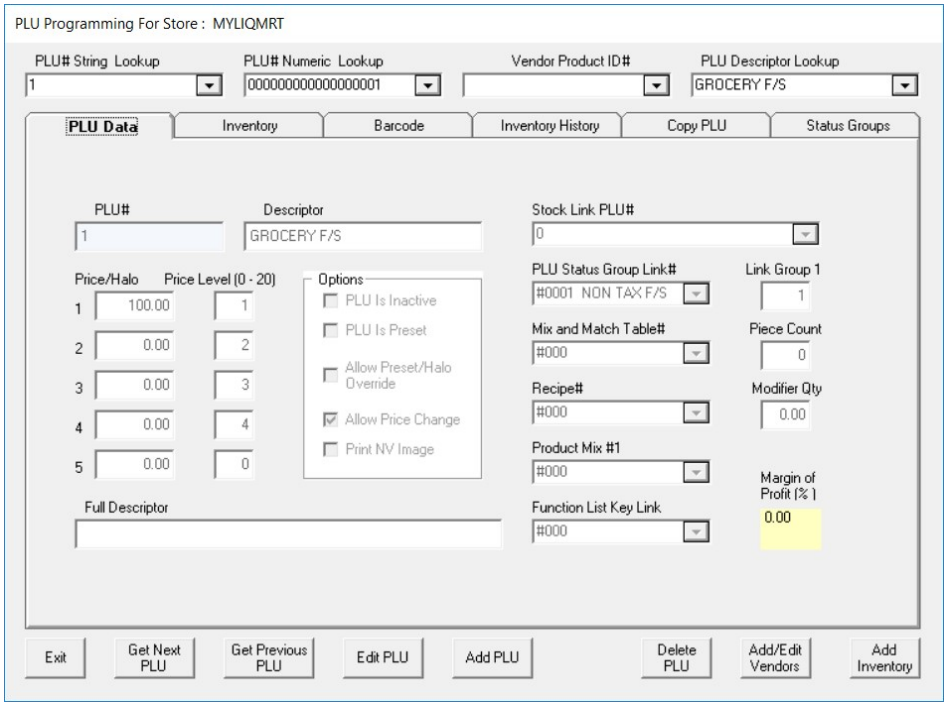


PLU/Inventory Maintenance

PLU and Status Groups

This is where the PLU data file is created and maintained. From this screen, we can access the PLU Data, Inventory vendor assignments, create barcodes, view the inventory purchase and sales history, copy a PLU and edit the PLU status groups.

1. Choose **P-Mode Programming**, **PLU** and then **PLU and Status Groups** from the *Edit ECR Data* menu. The *PLU Programming* window displays:

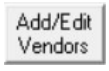


2. Select the PLU you wish to edit from the *PLU String Lookup*, *PLU Number Lookup*, *Vendor Product ID#*, or *PLU Descriptor Lookup* drop-down list boxes.

3. Choose one of the six tabs that organize PLU information and related functions:

Tab	Function
PLU Data	Contains PLU settings for the SPS-2000, plus *UOM* (unit of measure) and *Full Description* fields.
Inventory	Contains *Quantity on Hand*, *Ave Unit Cost*, *Total Cost On Hand*, *Vendor Product ID#*, *Min Level*, *Shelf Location*, *Primary Vendor* and *Secondary Vendor* fields.
Barcode	Allows printing of barcodes in a variety of formats.
Inventory History	Records history of sales and purchases for each item. Allows reporting of sales and purchase history by date range.
Copy PLU	Copy the attributes of the selected PLU to another PLU or range of PLUs.
Status Groups	Allows editing of PLU Status Group options.

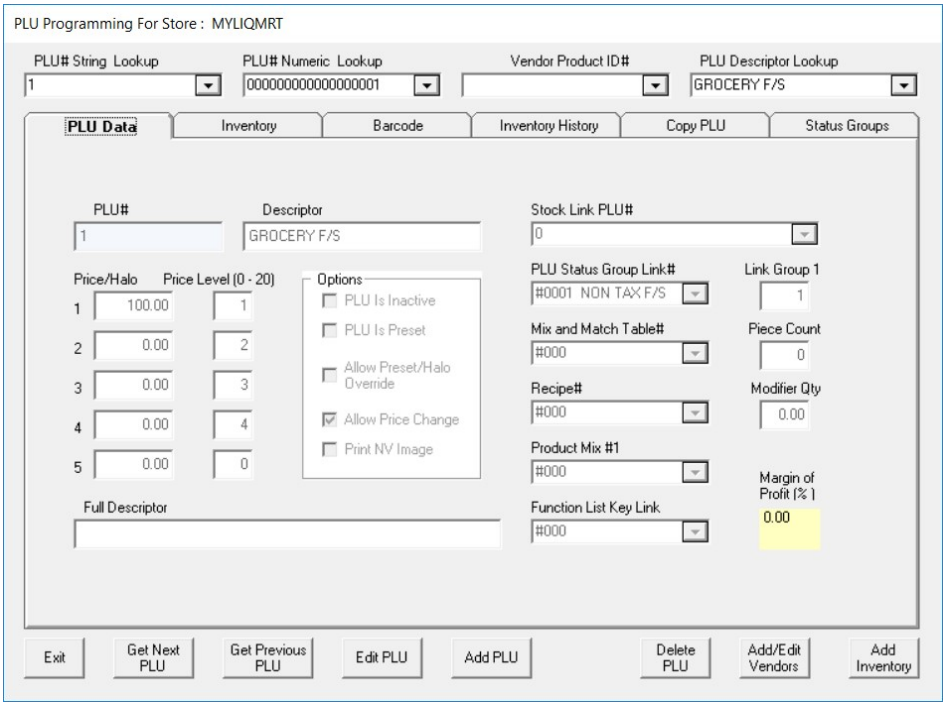
4. Use the command buttons at the bottom of the window to edit, add, delete, maintain the vendor file, or exit the window.

Button	Function
	Click **Exit** to close the PLU Programming window and save changes. If fields are open for editing, click **Exit** once to close editing; click a second time to exit.
	Click **Get Next PLU** to view the next sequential PLU.
	Click **Get Previous PLU** to view the previous sequential PLU.
	Click **Edit PLU** to open PLU Data and Inventory fields for editing.
	Click **Add PLU** to open a new PLU Programming record with fields empty and ready for entries.
	Click **Delete PLU** to delete the PLU record currently displayed. A confirmation dialog box will display. **Note**: To delete a PLU, all totals (Z1, Z2, and Z3 if used) for that PLU must first be cleared. PLUs will not be deleted at the station unless there is no station activity and deleted PLUs are downloaded.
	Click **Add/Edit Vendors** to open the vendor file maintenance dialog box.
	Click **Add Inventory** to open the inventory file maintenance dialog box.

PLU Data

The PLU Data tab contains the options available for each PLU that are available at the SPS-2000. Edits made here can be downloaded to the terminal. Refer to the *SPS-2000 Program Manual*.

Note: For double-wide characters hold down the **Ctrl** key, type **W**, then type the character you wish to program. (Descriptor field only)



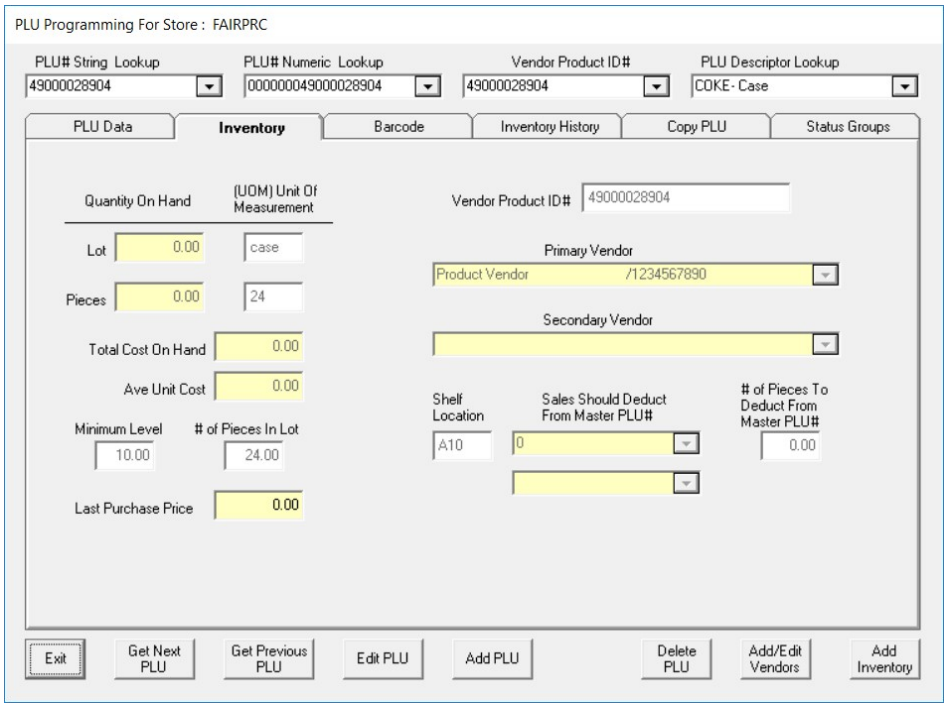
In addition to ECR PLU data, two additional fields are shown on this window:

Field	Description
Margin of Profit (%)	Calculated from Average unit cost and the selling price.
Descriptor	20 Characters
Full Description	30 characters

Inventory

The inventory tab displays the expected quantity on hand for items which inventory has been added to. You can also edit PLU's on this tab to add or change the primary and secondary vendor information or add vendors to the vendor list.

You can also edit PLU's here for the Parent / Child feature. See appendix for detailed information on programming the Parent (Master PLU) / Child feature.



Field	Description
Quantity On Hand	The expected quantity on hand is maintained in both Lot and Pieces. "Lot" refers to the purchase unit that may be broken down into pieces for individual sale. For example, cases of soft drink cans may be sold in case units, as well as sold individually. (Display only field.)
(UOM) Unit Of Measurement	Enter 4-Character Descriptors for the "Lot" and "Piece" (i.e. "case" and "can".) (Display only fields.)
Ave Unit Cost	Average from historical purchase * purchase price. (Display only field.)
Total Cost On Hand	QTY On Hand * Ave Unit Cost. (Display only field.)
Vendor Product ID#	14 character alphanumeric
Min Level	6 digits numeric (including decimal)
# of Pieces In Lot	Enter the number of pieces (5-digit numeric entry including decimal) in the lot (i.e. 24 cans in a case.)

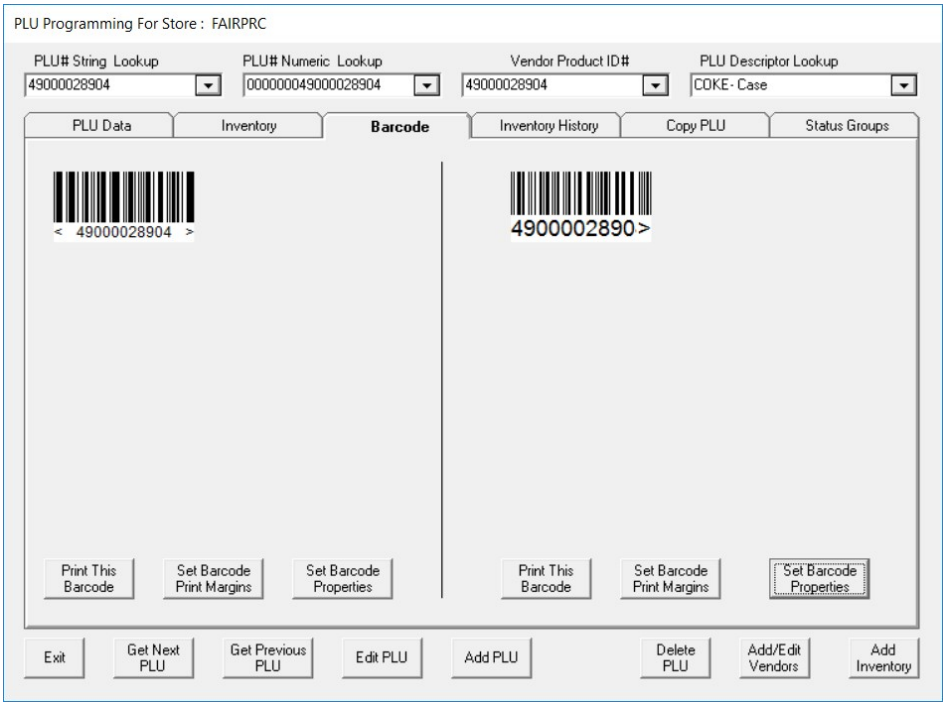
Field	Description
Shelf Location	3 character alphanumeric
Primary Vendor	Select from drop-down list
Secondary Vendor	Select from drop-down list
Sales Should Deduct From Master PLU #	Enter the number of the "Master" PLU where inventory records are kept**.** Only use this field when using the Master/Child feature and set only on the Child PLU.
# Of Pieces To Deduct From Master PLU #	Enter the number of pieces (cans) that should be deducted with the sale of each unit (5-digit numeric entry including decimal)

Barcode

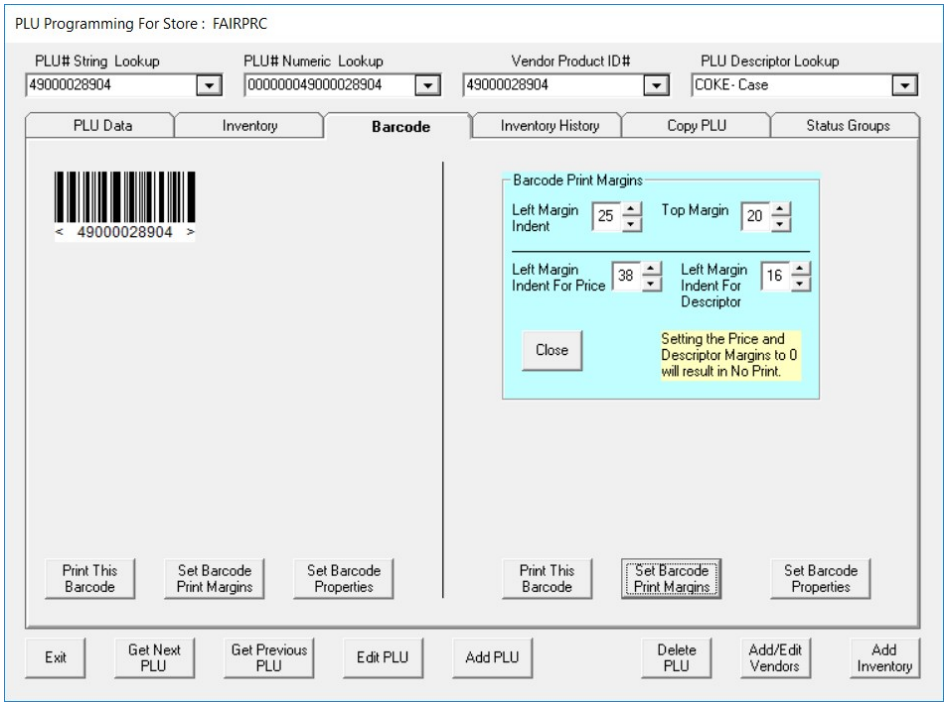
You can print barcodes from the Barcode tab to your default printer. The label will print to the label size selected in printer settings. For best results use a label printer such as the *Samsung SRP-770* label printer (contact your CRS representative or the CRS Parts & Peripherals Division for more information.)

Note: The settings displayed on the following screen shots represent the recommended initial settings for the SRP-770 printer loaded with 1 ¼" x 2 ¼" labels, suitable for shelf or item labeling.

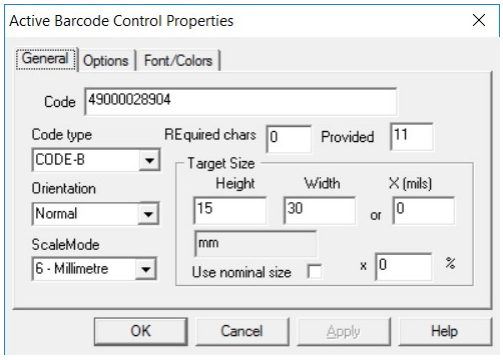
1. Select the **Barcode** tab from the PLU programming screen. The screen displays a view of the barcode with the current barcode property settings.



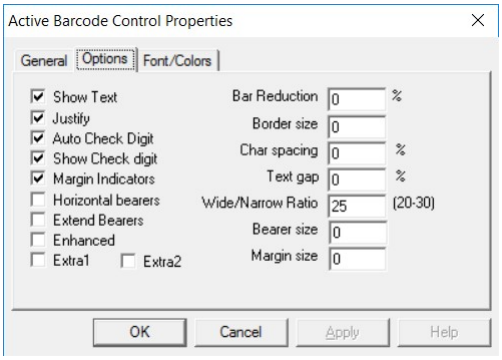
2. Click the **Set Barcode Print Margins** button.



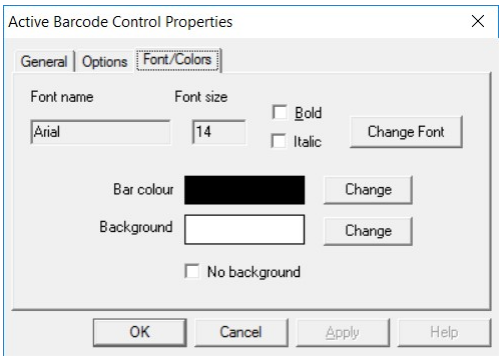
3. Set the margins as indicated for the SPR-770 printer loaded with 1 ¼" x 2 ¼" labels. Adjust settings as necessary for other label/printer combinations.
4. Click the **Set Barcode Properties** button. The **Active Barcode Control Properties** dialog box displays with the **General** tab selected.
5. Select the *Code type* and set the properties as indicated for the SPR-770 printer loaded with 1 ¼" x 2 ¼" labels. Adjust settings as necessary for other label/printer combinations.



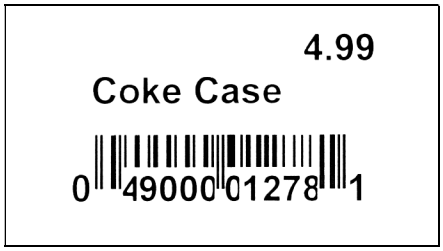
6. Click the **Options** tab and set the properties as indicated.



7. Click the **Font/Colors** tab. Click the Change Font button and select the font size and style for the print of the bar code number.

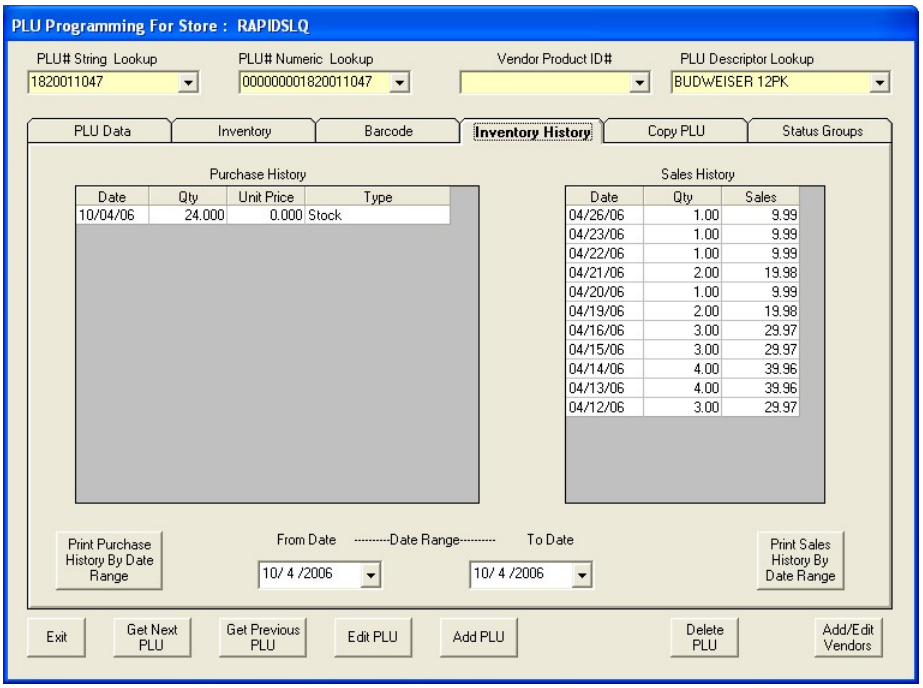


8. Click **OK** to accept the settings and view the bar code as specified.
9. Click the Print this Barcode button. The print sample below was generated by a Samsung SRP-770 label printer on a 1 ¼" x 2 ¼" label.



Inventory History

When you utilize the inventory feature in the Sam2000, you can view and/or print purchase and sales history for each item from the Inventory History tab.

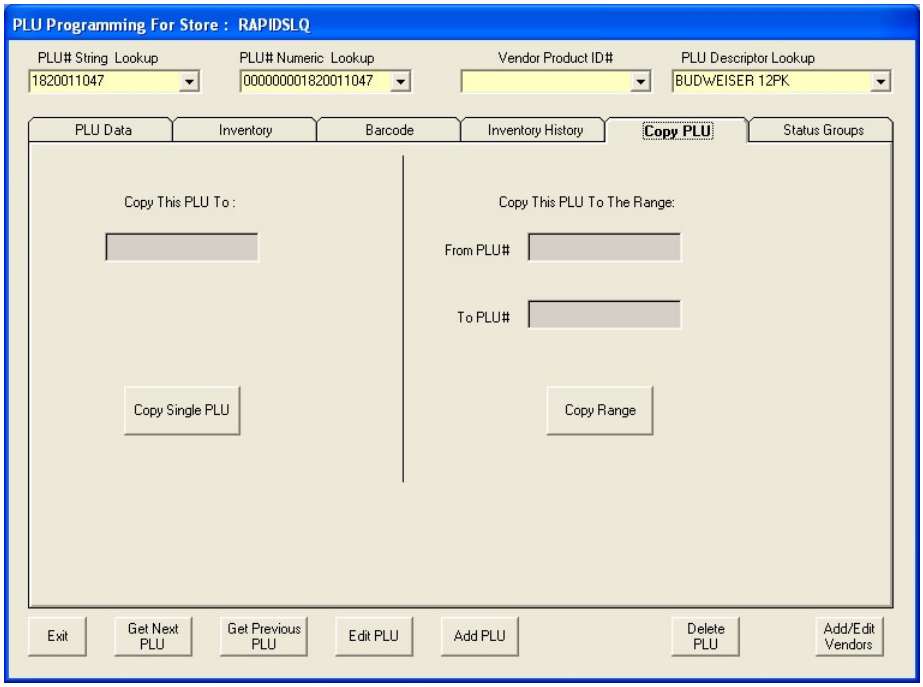


NOTE: If the operator clears some of the poll files, sales history will also be cleared.

Field	Description
Purchase History	Grid of historical stock entries from add inventory function.
Sales History	Grid of historical sales from polled Z1 PLU reports.
From Date	Choose *From Date* from the drop-down list box.
To Date	Choose *To Date* from the drop-down list box.

Copy PLU

You can copy the attributes of one PLU to another PLU, or to a range of PLUs using the Copy tab. This function will assist you in setting a large number of PLUs with similar option settings.

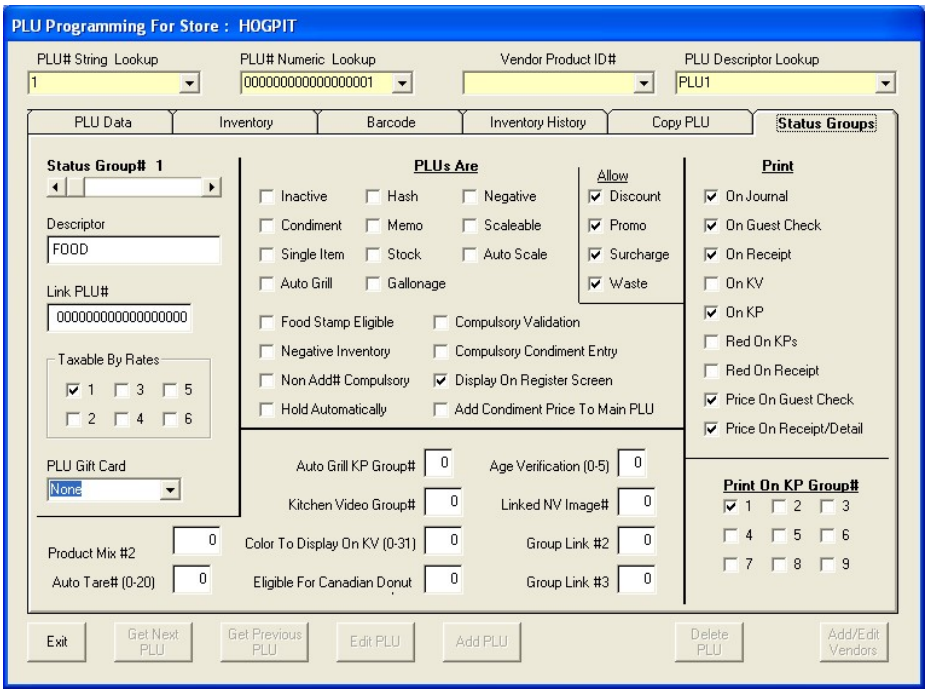


Field	Description
Copy This PLU To	Enter the number of the PLU you want displayed PLUs attributes copied to.
From PLU#	Enter the beginning number of the range of PLUs you want the displayed PLUs attributes copied to.
To PLU#	Enter the ending number of the range of PLUs you want the displayed PLUs attributes copied to.

Status Groups

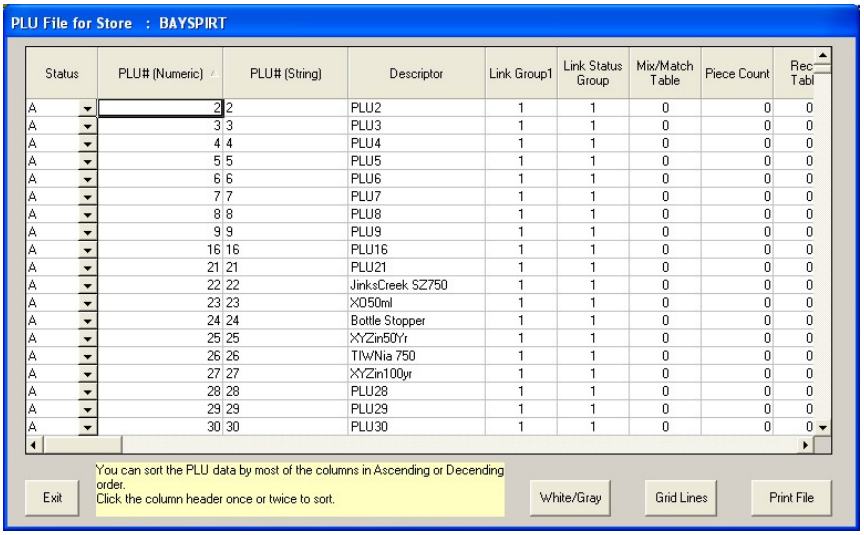
The Status Groups tab contains the options available for each PLU Status Group. Edits made here can be downloaded to the terminal. Refer to the *SPS-2000 Program Manual*.

Note: For double-wide characters hold down the **Ctrl** key, type **W**, then type the character you wish to program. (Descriptor field only)



Edit PLU File by Grid

- Choose **P-Mode Programming**, **PLU** and then **Edit PLU File by Grid** from the *Edit ECR Data* menu. The *Edit PLU File by Grid* window displays:



The *Edit PLU File by Grid* window provides a spreadsheet view of the PLU file. From this view, you can quickly change PLU attributes, by directly editing or copying/pasting values. Note the horizontal scroll bar allows viewing of all PLU related fields, including fields maintained in the register (i.e. prices) and fields maintained in the *SAM2000* application (i.e. costs and vendors). The vertical scroll bar allows you to view all PLUs in the file.

The Status column provides indication of the PLU status in *SAM2000*, where:

A - indicates *active*
C - indicates *changed*
D - indicates *deleted*.

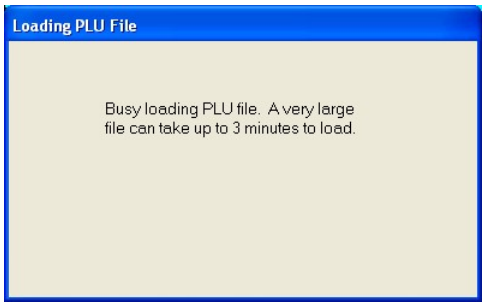
By status, you can choose to download to the SPS-2000 active, changed or deleted PLUs.

Edit PLU File by Grid Functions

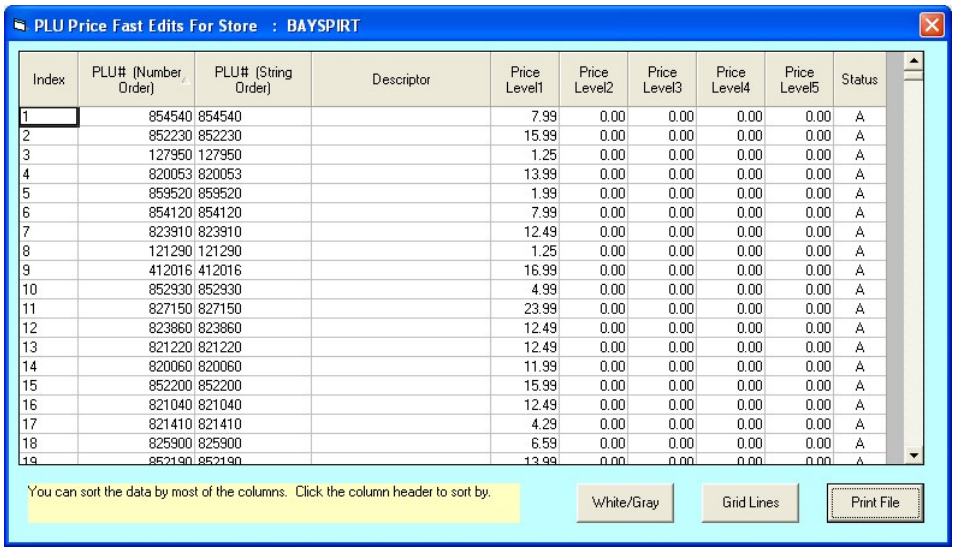
Button	Function
Sort By PLU# (String)	Click **Sort By PLU# (String)** to sort first by the left-most PLU digit, i.e. 1, 10, 2,
Sort By PLU# (Numeric)	Click **Sort By PLU# (Numeric)** for standard numeric sorting, i.e. 1, 2, 10, 20.
Sort By Descriptor	Click **Sort By Descriptor** to view PLUs in alphabetical order by descriptor.
White/Gray	Click **White/Gray** to view PLU column headers in white or gray.
Grid Lines	Click **Grid Lines** to view/print with or without grid lines.
Print File	Click **Print File** to print the file at the default printer.

PLU Price Fast Edits

- Choose **P-Mode Programming**, **PLU** and then **PLU Price Fast Edits** from the *Edit ECR Data* menu. The Loading PLU file message displays.



- After loading, the *PLU Price Fast Edits* window displays:

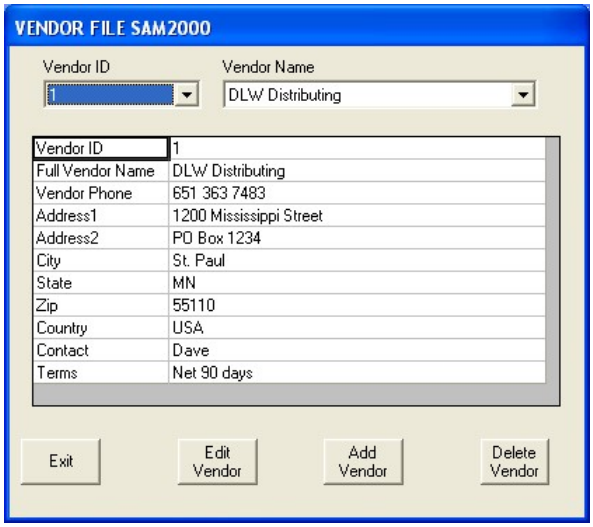


The *PLU Price Fast Edits* window provides a PLU view similar to the *Edit PLU File by Grid* window, except that only price fields are displayed and can be edited. When a price is changed here, the *stat* is changed from *A* to *C*.

Sorting (ascending/descending order), viewing and printing functions are the same as he *Edit PLU File by Grid* window.

Vendors Maintenance

1. Maintain the vendor file by choosing **P-Mode Programming**, **PLU** and then **Vendors** from the *Edit ECR Data* menu. You can also access vendor maintenance by clicking **Add/Edit Vendors** on the PLU Maintenance window.



2. To edit an existing vendor file, select the **Vendor ID#** or **Vendor Name** from the drop-down list box. Click **Edit Vendor** to open fields for entry.
3. Click **Add Vendor** to open a blank record for entries. Double click the vendor ID field to enter you own vendor ID-up to 10 alpha numeric characters.
4. Click **Delete Vendor** to delete the current vendor. At the confirmation dialog click **Yes** to complete the deletion.
5. Click **Exit** to save changes.

Inventory

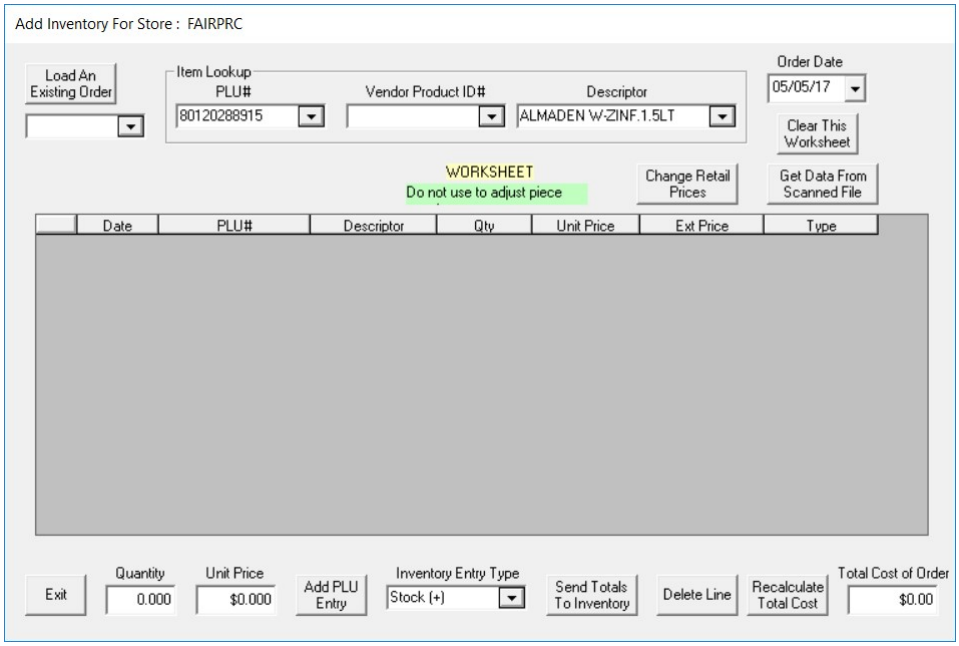
This tab has options to adjust Inventory levels by item, by shelf, or by vendor and an option to Add PLU sales. Information entered here is used to maintain the inventory feature in the Sam2000.

By Item, By shelf and *By vendor* inventory adjustment functions allow orders to be entered, printed and suspended. Suspended orders can be recalled, adjusted if necessary and sent into inventory when the product is received.

Items entered using a portable data terminal (using a device such as the AML LDX10™, Metrologic™ Scan Pal™ or Optimus8™ handheld data collectors) can be uploaded to your PC and accessed from the *By item* inventory adjustment window.

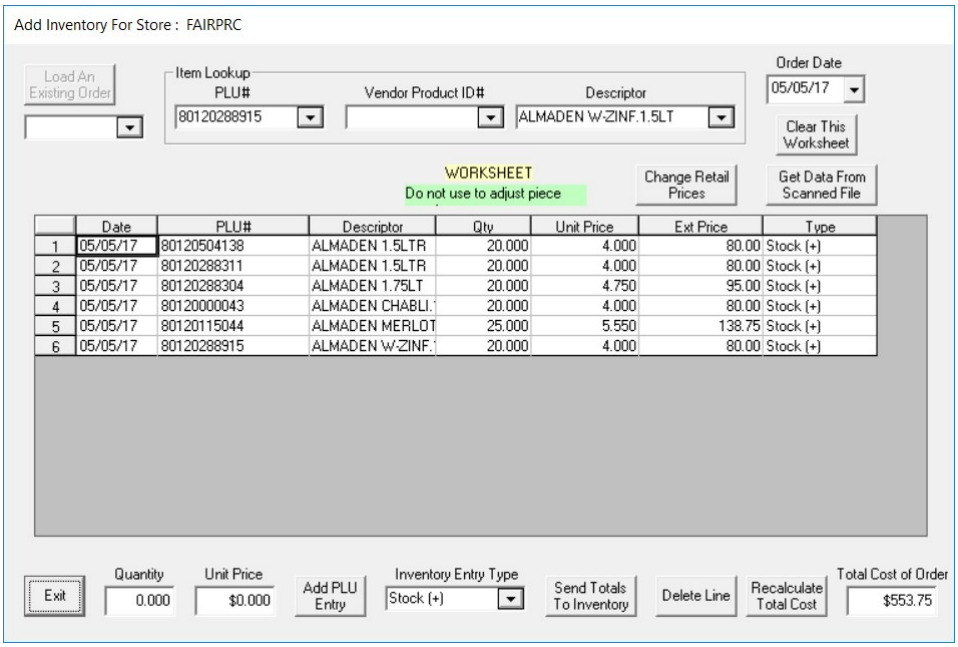
Add Inventory by Item

1. Choose **P-Mode Programming**, **PLU**, **Add Inventory**, and then **Add By Item** from the *Edit ECR Data* menu. The Add Inventory dialog for the selected store displays:



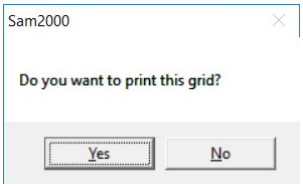
2. Select the PLU you wish to adjust from the *PLU Number Lookup*, *Vendor Product ID#*, or *PLU Descriptor Lookup* drop-down list boxes.
3. Select the *Date Stock Received* from the drop-down list.
4. Click the Inventory Entry Type drop-down list box. Select *Stock (+)*, *Transfer In (+)*, *Transfer Out (-)*, *Promo (-)*, *Waste (-) or Adjust (-)*.

5. Enter the *Quantity* and *Unit Price* for the inventory adjustment. Click **Add PLU Entry**.

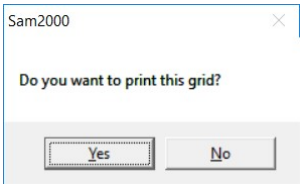


6. Repeat from step #3 to add inventory for additional PLUs. Review the list of PLU additions. If you wish to add these items to inventory at this time, click the **Send Totals to Inventory** button.

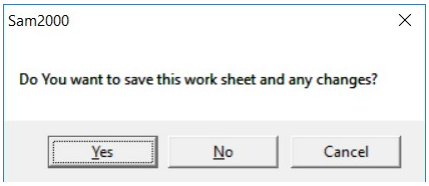
7. The confirmation dialog screen displays. It is recommended to print the grid to keep as a reference of the inventory adjustments.



8. If you wish to suspend the order without adding to inventory at this time, click **Exit**. You will be provided the opportunity to print the inventory additions.



9. Then you will be asked if you wish to save additions or changes.



10. The suspended order will be saved using the date and a sequential order number.

To Change Retail Prices

You can change retail prices without going to the PLU and Status Groups programming screen. Here, you can adjust prices when you are adding inventory; this greatly speeds up the price change operation.

- Select an item by clicking anywhere on the item and selecting the **Change Retail Prices** button. The change prices window displays:

Enter the new prices. Close the window by pressing the ✕ in the upper right corner. The new prices entered here will be reflected on the PLU in the PLU programming screen. When inventory additions/price changes are complete, you can send totals to inventory or press exit and you will be prompted to save the order. Even if you choose to save the order the new price changes will be sent to the PLUs.

To Delete a Line

- Select a line and click **Delete Line**. Inventory adjustments are not updated until the window is exited.

Recalculate Extended Price

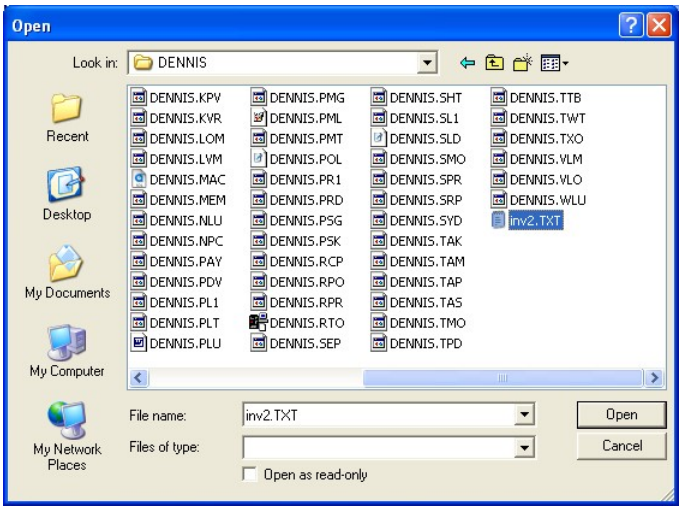
- If item quantities/unit prices are adjusted on the screen, click Recalculate Extended Price to recalculate the extended price.

To Recall a Suspended Order

- Use the drop-down list box under the **Load Existing Order** button to select a suspended order. Orders are saved by date and sequential number. Select the order you wish to recall and click the **Load Existing Order** button.

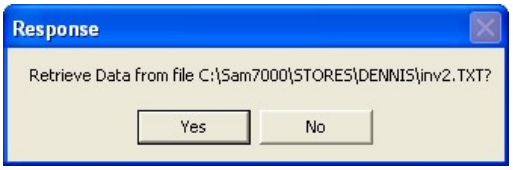
Add Inventory from a Portable Data Terminal File

1. Click the **Get Data From Scanned File** command button.

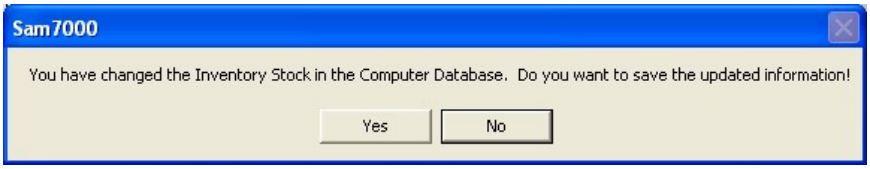


2. From the Open dialog, locate the folder and file where you located the inventory record text file. Click **Open**.

3. The Response Dialog displays. Click **Yes**.



4. The message displays "You have changed the Inventory Stock in the Computer Database. Do you want to save the updated information?".



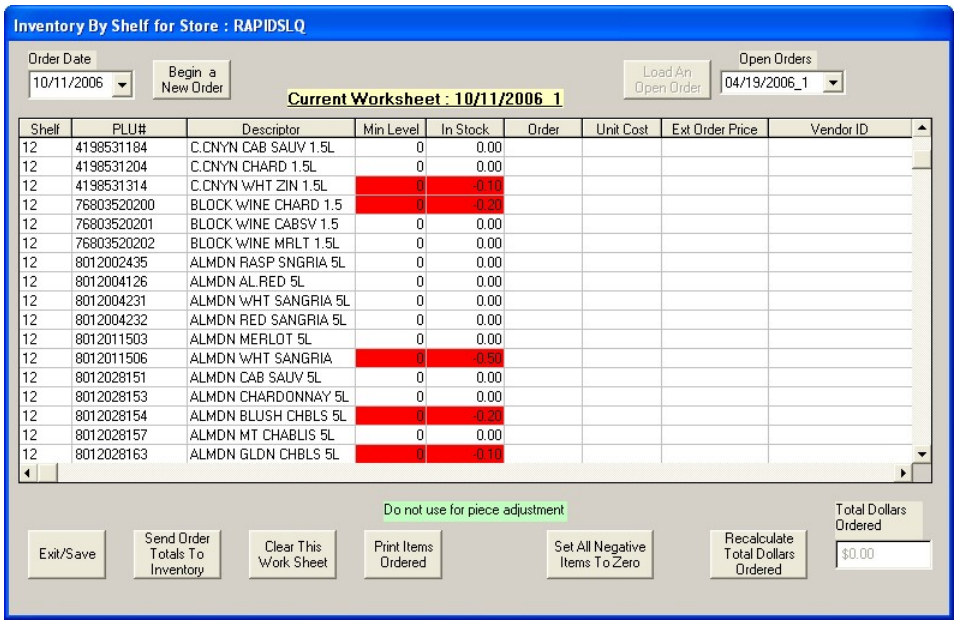
5. Click **Yes**. Your inventory records will be updated with the inventory additions you entered with the portable data terminal.

Add Inventory by Shelf

1. Choose **P-Mode Programming**, **PLU**, **Add Inventory**, and then **Add By Shelf** from the *Edit ECR Data* menu. An empty *Inventory By Shelf* window displays.
2. If an order date is not entered, today's date will default. Enter or select an *Order Date* if you wish to create an order to be placed on a different date.
3. Click **Begin a New Order**.

   The window will be loaded with a list of all PLUs sorted first by Shelf number, and secondarily by PLU#. Use the scroll bar at the right to view the entire list and find the shelf number where you wish to edit PLUs.

   Note that where PLU stock is less than the minimum inventory level, the fields are highlighted red for easy identification.



4. Add stock or stock orders by clicking in the appropriate field in the Order column. Enter cost in the Unit Cost field. Enter prices or decimal quantities using the decimal key. If you wish to enter waste, enter inventory with a negative sign (-).
5. Continue to enter stock/orders for as many PLUs as required. If necessary, you can click **Clear This Work Sheet** to exit without saving changes.
6. *If you wish to enter the order to inventory immediately*:
   Click **Send Order Totals To Inventory**.

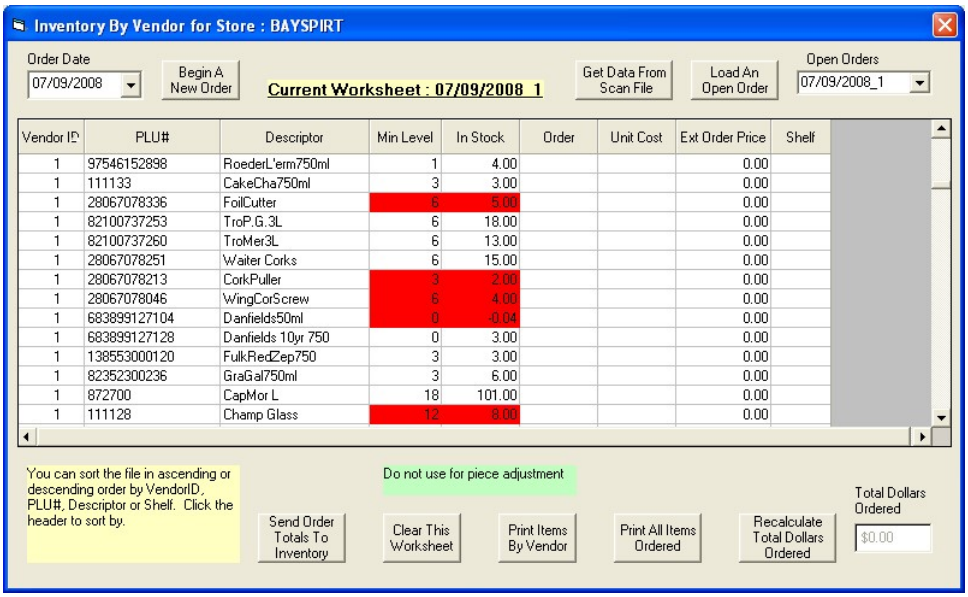
   If you are placing an order and wish to send orders to inventory at a later time:
   Click **Exit/Save**. The suspended order will be saved by date and by consecutive number. If required, click **Print Out Items Ordered** to print a hard copy of the order.

Add Inventory by Vendor

1. Choose **P-Mode Programming**, **PLU**, **Add Inventory**, and then **Add By Vendor** from the *Edit ECR Data* menu. An empty *Inventory By Vendor* window displays.
2. If an order date is not entered, today's date will default. Enter or select an *Order Date* if you wish to create an order to be placed on a different date.
3. Click **Begin a New Order**.

   The window will be loaded with a list of all PLUs sorted first by Vendor, and secondarily by PLU#. Use the scroll bar at the right to view the entire list and find the shelf number where you wish to edit PLUs.

   Note that where PLU stock is less than the minimum inventory level, the fields are highlighted red for easy identification.



4. At version 1.14.0 you can click the header to sort by Vendor ID, PLU# or Descriptor. This is useful if you have only a few vendors with many items. Sorting by descriptor may make it easier to find a specific.
5. Add stock or stock orders by clicking in the appropriate field in the Order column. Enter cost in the Unit Cost field. Enter price or decimal quantities using the decimal key. If you wish to enter waste, enter inventory with a negative sign (-).
6. Continue to enter stock/orders for as many PLUs as required. If necessary, you can click **Clear This Work Sheet** to exit without saving changes.
7. If required click **Print Out All Items Ordered** to print a hard copy of the complete order, or click **Print Items By Vendor** to print separate orders for each vendor.
8. *If you wish to enter the order to inventory immediately*:
   Click **Send Order Totals To Inventory**.

   If you are placing an order and wish to send orders to inventory at a later time:
   Click **Exit/Save**. The suspended order will be saved by date and by consecutive number for order placed that date.

Loading an Open Order

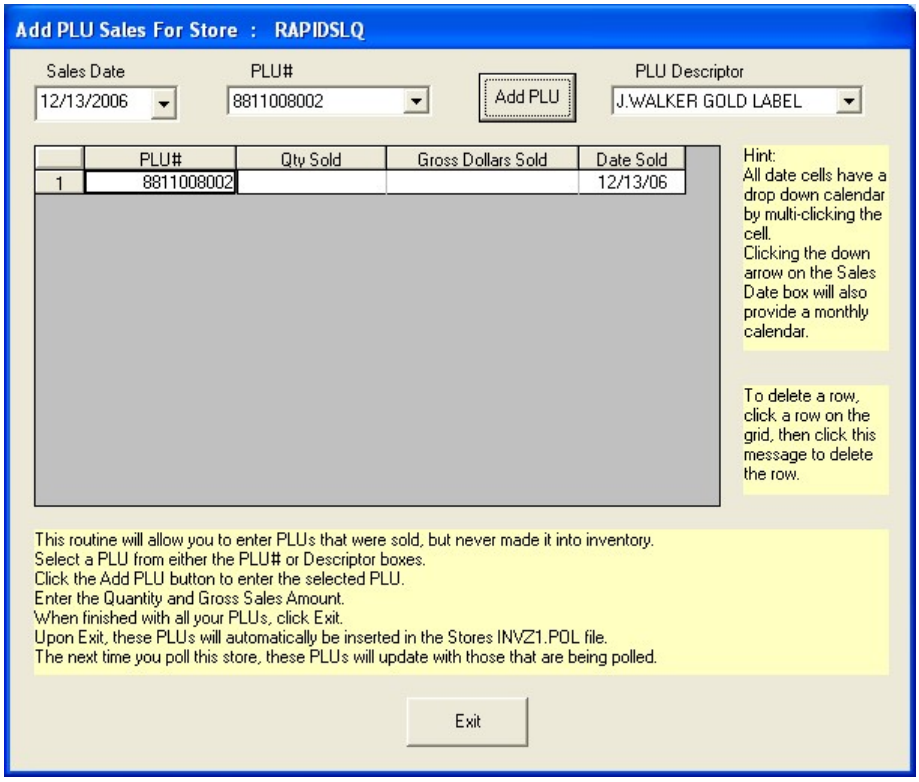
Suspended orders by shelf or by vendor can be recalled for editing or received and added to inventory.

1. Choose **Inventory**, then **Add Inventory**, and then **By Shelf** or **By Vendor** from the *Edit ECR Data* menu.
2. Select the order date/consecutive number from the *Open Orders* drop-down list box.
3. Click **Load An Open Order**. The suspended order displays.
4. Edit previous entries or add additional inventory as necessary.
5. If the order is received, Click **Send Order Totals To Inventory.**
6. Click **Exit/Save**. The suspended order will be saved by date and by consecutive number for order placed that date. If required, click the appropriate button to print a hard copy of the order.

Add PLU Sales

This routine allows you to manually add PLU sales to a polling file. Use this routine in any situation where sales took place and items left store inventory, but were not properly registered at the ECR. For example, if products were sold at wholesale prices and recorded at the ECR into an open department, then inventory could be updated manually here so that inventory levels remained accurate.

1. Choose **P-Mode Programming**, **PLU**, **Add Inventory**, and then **Add PLU Sales** from the *Edit ECR Data* menu. An empty *Add PLU Sales* window displays.
2. Select a PLU form the PLU# list box, and then click Add PLU to display the line where quantity sold and the gross sales amount can be entered.



3. Enter the quantity and sales amount.
4. Continue to add sales as necessary. Refer to detailed instruction on the window.
5. Click **Exit** to insert sales entered to the INVZ1.POL file.

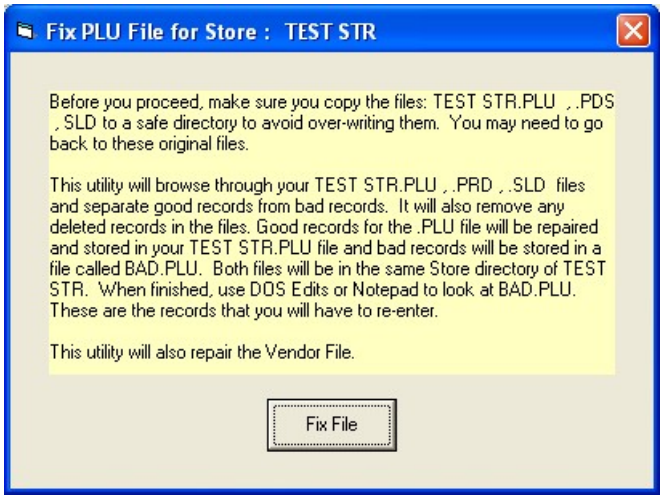
Repair Inventory Files

Database records can be corrupted or damaged by system crashes or other difficulties. This utility will browse through your *.PLU, *.PRD, *.SLD files and separate good records from bad records. It will also remove any deleted records in the files. Good records for the *.PLU file will be repaired and saved. Bad records will be stored in a file called BAD.PLU. Both files will be located in the store's folder under 2000\Stores. When finished use DOS Editor or Notepad to look at BAD.PLU. These are the records that you will have to re-enter.

Before you proceed, copy the *.PLU, *.PDS, and *.SLD files to a safe folder to avoid over-writing them. You may need to go back to these original files.

This utility will also repair the Vendor file.

1. Choose **PLU Programming**, then **PLU**, and then **Repair Inventory Files** from the *Edit ECR Data* menu. The Fix PLU dialog displays.

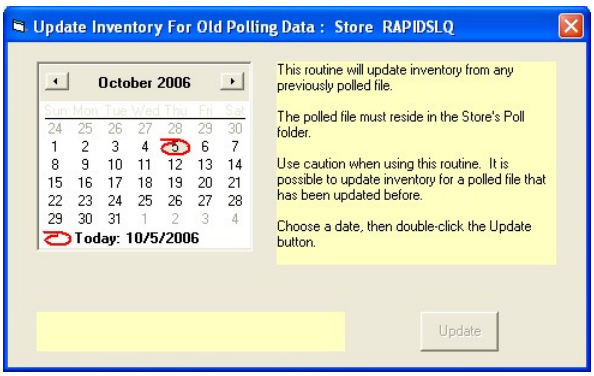


2. Read the screen carefully. If you want to save the current information, make sure to copy the specified files to a different folder before running the Fix File routine.
3. Click **Fix File**. When complete press **Exit** to go back to main screen. You can view the BAD.PLU file in WordPad to check for corrupt data.

Update Inventory from Old Poll File

Use this utility to update inventory if for any reason the ECR polls successfully but inventory is not successfully updated. Use caution if you choose to use this routine. It is possible to update inventory for a polled file that has already updated inventory.

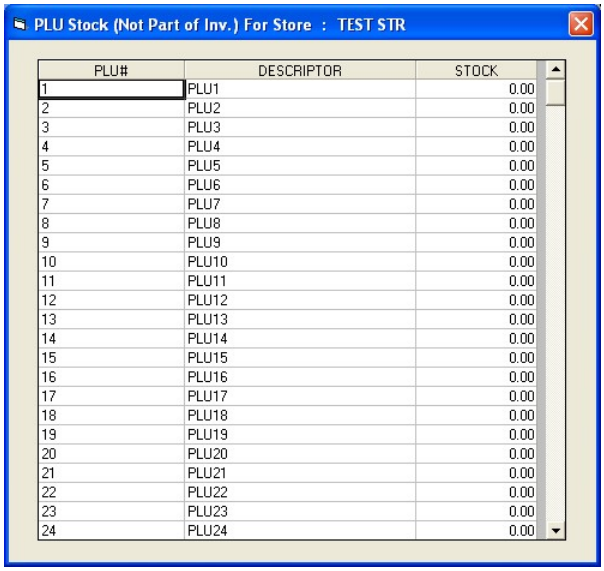
1. Select **P-Mode Programming**, then **PLU**, and then **Update Inv From Old Poll** File from the **Edit ECR Data** menu.



2. Select a date, and then double-click the **Update** button.

PLU Stock (not part of inventory)
Min PLU Stock (not part of inventory)

These functions are not part of the Inventory feature in the *SAM2000* software. They are used to adjust stock counts on items when stock is being tracked at the ECR.

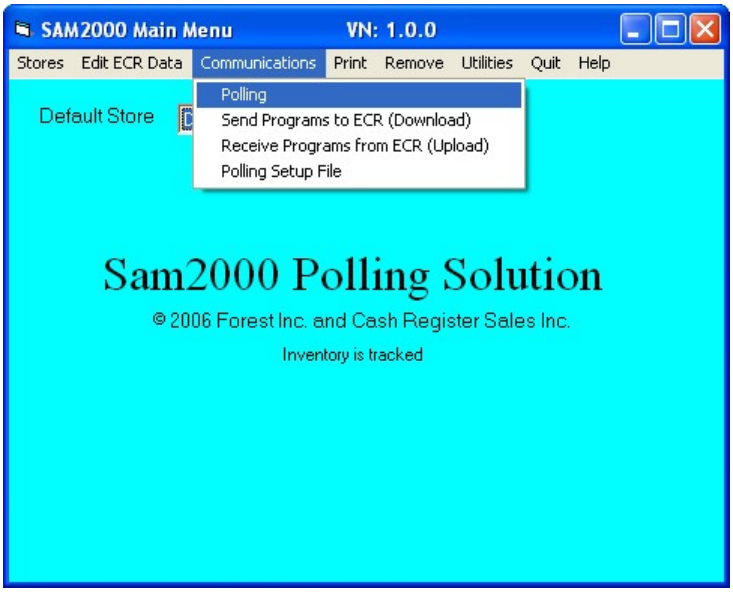


PLU#	DESCRIPTOR	STOCK
1	PLU1	0.00
2	PLU2	0.00
3	PLU3	0.00
4	PLU4	0.00
5	PLU5	0.00
6	PLU6	0.00
7	PLU7	0.00
8	PLU8	0.00
9	PLU9	0.00
10	PLU10	0.00
11	PLU11	0.00
12	PLU12	0.00
13	PLU13	0.00
14	PLU14	0.00
15	PLU15	0.00
16	PLU16	0.00
17	PLU17	0.00
18	PLU18	0.00
19	PLU19	0.00
20	PLU20	0.00
21	PLU21	0.00
22	PLU22	0.00
23	PLU23	0.00
24	PLU24	0.00

Scroll to the items you wish to add a Stock count to and enter the quantity. These quantities can be downloaded to the ECR from the Communications tab and selecting PLU Stock

Communications

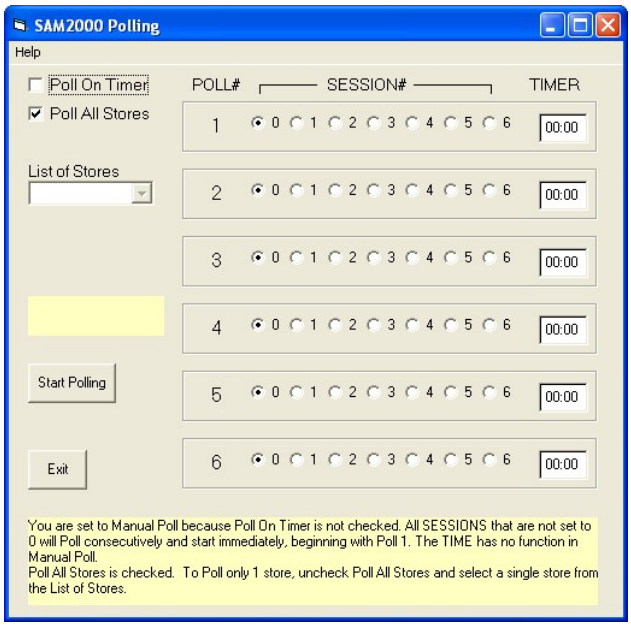
Choose **Communications** from the Main menu to initiate communications with the SAM4s SPS-2000.



Polling

1. Choose **Polling** from the *Communications* menu to connect to the store to poll reports. The *Poll Setup* dialog box will display.

Note: You must go to the Communications Polling Setup File and select reports to poll prior to using the polling feature (see page 51).



2. Complete the fields on the Polling Routine window according to the table below:

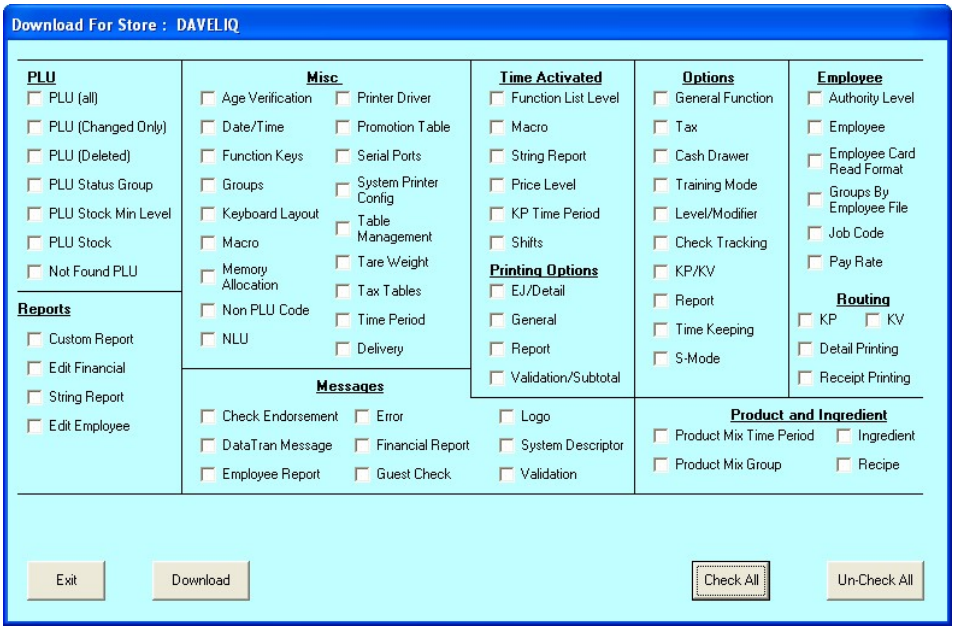
Field Name	Required /Optional	Description/Instructions
Poll On Timer	**O**	Select the Poll On Timer checkbox to start polling in consecutive order beginning with Poll 1 at the defined time. If not selected, polling is manual and will begin immediately.
Poll All Stores	**O**	Select the *Poll All Stores* checkbox to poll all stores. If not selected, enter an individual store to poll in the *List of Stores* field.
List of Stores	**O**	Select an individual store to poll if the *Poll All Stores* check box is not selected.
Session	**R**	Select the polling session, 1 - 6. Polling will proceed in consecutive order by session number.
Timer	**O**	Enter the military time the polling session is to begin.

3. Click the **Start Polling** button to begin polling; click **Exit** to exit the dialog. ***SAM2000*** will poll the reports selected in the polling setup file (see page 51).

Note: Even when the Poll On Timer is selected, you must click the start polling button.

Send Programs to ECR (Download)

1. Choose **Send Programs to ECR (Download)** from the *Communications* menu to send program information from the working store, to the ECR of the working store.

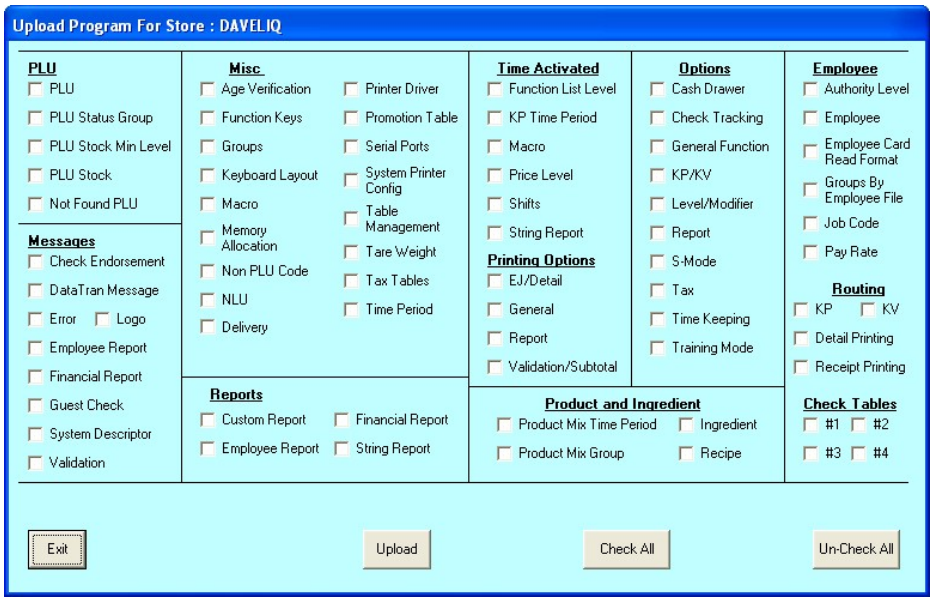


2. From the *DOWNLOAD* dialog box, select the program components you wish to send to the ECR. (Check Select All for all components.) A check mark means the item is selected.

3. Click the **Download** button to initiate the download to the ECR; click **Exit** to exit the window.

Receive Programs from ECR (Upload)

1. Choose **Receive Programs from ECR (Upload)** from the *Communications* menu to receive program information from the ECR for the working store. When you execute this function, any program data that was on the hard disk previously will be overwritten by the new data.



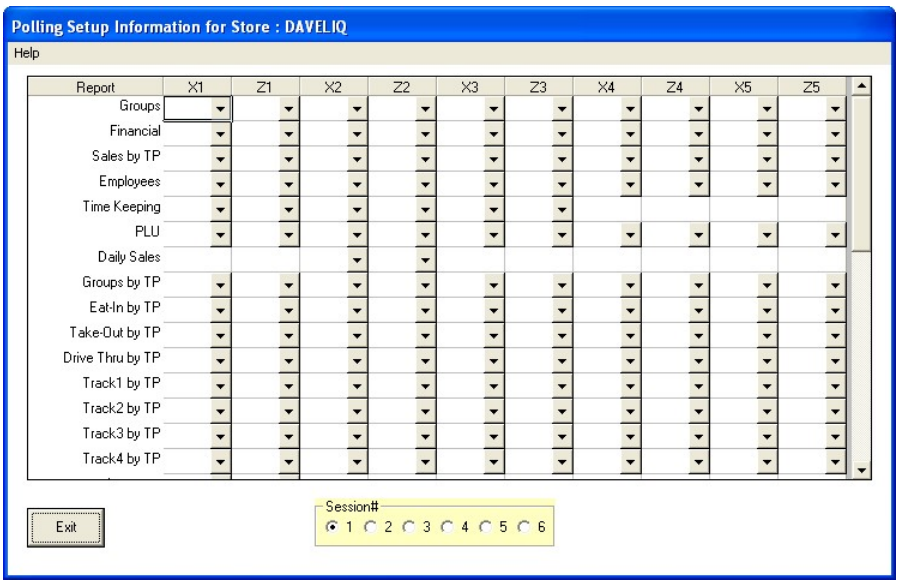
2. From the *UPLOAD* dialog box, select the program components you wish to send to the ECR. (Check Select All for all components.) A check mark means the item is selected.

3. Click the **Upload** button to initiate the download to the ECR; click **Exit** to exit the window.

Polling Setup File

Program settings for the Polling Setup File relate to the sessions in the Communication/Polling area. Settings here determine which reports are polled when polling is started.

1. Choose **Polling Setup File** from the *Communications* menu to define the reports to be taken when polling is initiated. You can set up reports for 6 polling sessions.



2. Click one of the **Session#** options buttons to display the reports for the session.
3. Find the report you wish to run, if necessary use the scroll bar on the right. Then find the type of report (X1, Z2, etc.). When you have located the field for the specific report you wish to edit, open the list box by clicking on the appropriate arrow.

   Select *Print* from the list box if you wish to print the report at the ECR when polling; select the check box under *No Print* if you do not wish to print the report at the ECR when polling. Select the blank position if you wish to remove a report from the session.
4. If necessary, click another one of the **Session#** options buttons to display the reports for the session.
5. Repeat step 3 for each session you are setting up.
6. Click **Exit** to save changes and return to the main menu.

Note: Reports selected must be available at the register. You cannot select reports, i.e. Z2 – Z5, unless memory has been allocated for the report at the ECR.

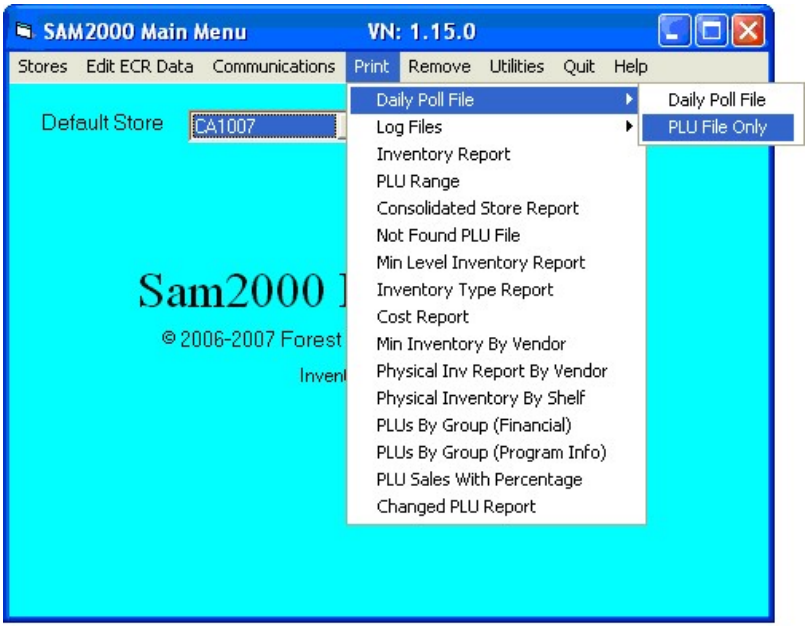
List of Reports Available by Polling

Note: Reports selected must be available at the register. You cannot select reports, i.e. Z2 – Z5, unless memory has been allocated for the report at the ECR.

Report	X1	Z1	X2	Z2	X3	Z3	X4	Z4	X5	Z5
Groups	X	X	X	X	X	X	X	X	X	X
Financial	X	X	X	X	X	X	X	X	X	X
Sales by TP	X	X	X	X	X	X	X	X	X	X
Employees	X	X	X	X	X	X	X	X	X	X
Time Keeping	X	X	X	X	X	X	X	X	X	X
PLU	X	X	X	X	X	X	X	X	X	X
Daily Sales			X	X						
Groups by TP	X	X	X	X	X	X	X	X	X	X
Eat-In by TP	X	X	X	X	X	X	X	X	X	X
Take-Out by TP	X	X	X	X	X	X	X	X	X	X
Drive-Thru by TP	X	X	X	X	X	X	X	X	X	X
Track1 by TP	X	X	X	X	X	X	X	X	X	X
Track2 by TP	X	X	X	X	X	X	X	X	X	X
Track3 by TP	X	X	X	X	X	X	X	X	X	X
Track4 by TP	X	X	X	X	X	X	X	X	X	X
Inventory	X	X								
Product Mix	X	X	X	X						
Day Shift 1	X	X								
Day Shift 2	X	X								
Day Shift 3	X	X								
Day Shift 4	X	X								
PLU Stock	X	X								
Grand Total	X	X								
Mix and Match	X	X								
Groups/ Employee	X	X	X	X	X	X	X	X	X	X
Open Check Track 1	X	X								
Open Check Track 2	X	X								
Open Check Track 3	X	X								
Open Check Track 4	X	X								
Electronic Journal	X	X								

Print

Choose **Print** from the Main menu to access the printing utilities described below.



You cannot edit data on any of the data fields viewed through the Print menu.

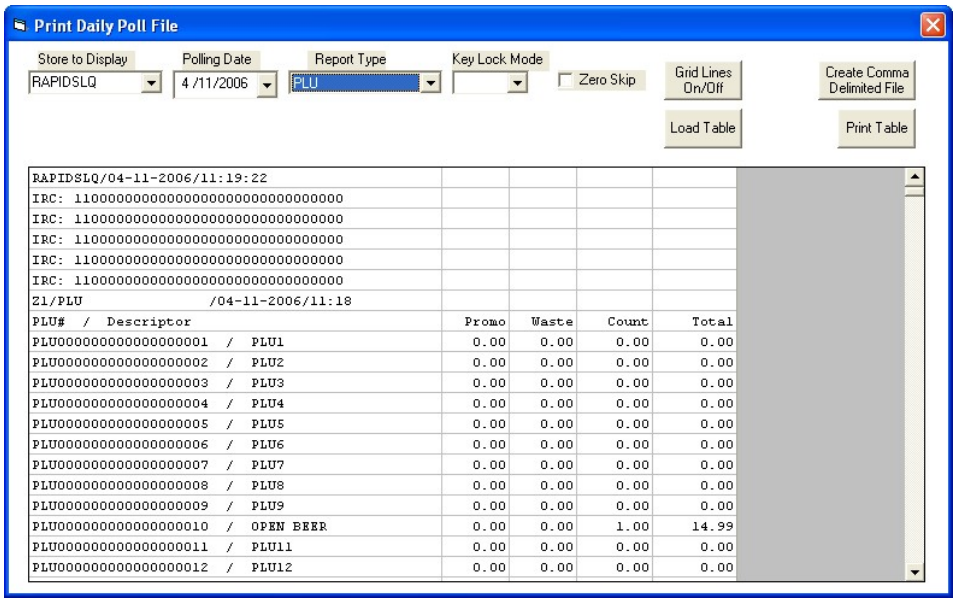
Reports will print at the default printer on your PC.

Daily Poll File

1. Choose **Daily Poll File**, and then **Daily Poll File** from the *Print* menu to print out the poll file of a given day. The *Daily Poll* dialog box displays.
2. Complete the *Daily Poll* dialog box according to the table below:

Field Name	Required /Optional	Description/Instructions
Store to Display	**R**	Select the store you wish to access.
Polling Date	**R**	Select the polling date from the drop-down list box.
Zero Skip	**O**	Select the Zero Skip check box if you wish totals with zero values skipped. **Note**: When zero skip is selected, and Employee and Time Keeping reports printed, all employees will be listed. Only employees with sales data will print data on the report.
Report Type	**O**	Select the report type from the drop-down list box.
Keylock Mode	**O**	Select the mode of the report.

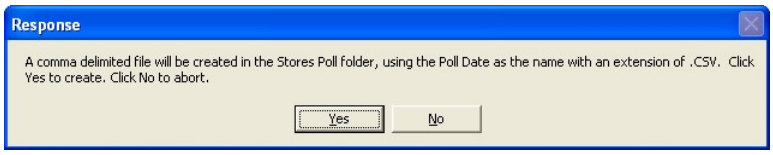
3. Click the **Load Table** button to view the selected report.



4. With the report in view, click the **Print Table** button to print the report.
5. Click **Exit** to return to the main menu.

Create Comma Delimited File

1. Click the **Create Comma Delimited File** button from the Print Daily Poll File window to create a Comma Delimited file for the report you are viewing.
2. A confirmation message displays. Click **Yes** to create the file.



3. A CSV file will be created in the stores POLL folder in the *SAM2000* directory:

   C:*SAM2000*\STORES\<StoreName>\POLL

   The CSV file is a Date stamped file (05162008.CSV) and can be opened in Excel™. See the example CSV file below.

NAMANS /05-16-2008/12:52:53
IRC: 1100000000000000000000000000000000
IRC: 1100000000000000000000000000000000
IRC: 1100000000000000000000000000000000
Z1/PLU /05-16-2008/13:04

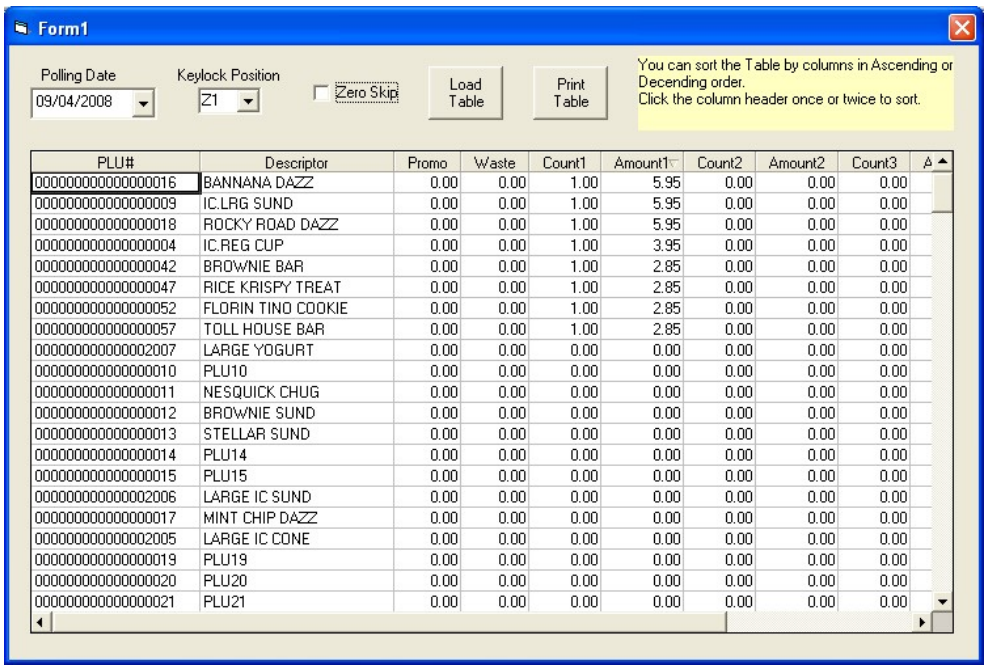
PLU# / De	Promo	Waste	Count1	Amount1	Count2	Amount2
PLU000000	0	0	1	0	0	0
PLU000000	0	0	1	0	0	0
PLU000000	0	0	1	0	0	0
PLU000000	0	0	4	3.64	0	0
PLU000000	0	0	5	4.55	0	0
PLU000000	0	0	5	9.1	0	0
PLU000000	0	0	1	0	0	0
PLU000000	0	0	2	0	0	0
PLU000000	0	0	1	0.45	0	0
PLU000000	0	0	1	0	0	0
PLU000000	0	0	1	8.14	0	0
PLU000000	0	0	1	0	0	0
PLU000000	0	0	1	0	0	0
PLU000000	0	0	1	0	0	0
PLU000000	0	0	1	0	0	0
PLU000000	0	0	2	2.82	0	0
PLU000000	0	0	2	3.18	0	0
PLU000000	0	0	10	17.7	0	0
PLU000000	0	0	9	64.35	0	0
PLU000000	0	0	4	28.92	0	0
PLU000000	0	0	1	7.23	0	0
PLU000000	0	0	1	6.82	0	0
PLU000000	0	0	1	0.91	0	0
PLU000000	0	0	1	0	0	0
PLU000000	0	0	1	0	0	0
TOTALS	0	0	59	157.81	0	0

REPORT END
SESSION END

PLU File Only

Note: Beginning at version 1.23.0 the *PLU File Only* feature was enhanced to provide more useful information for customers and was renamed *PLU Sales Analysis*. Information about *PLU Sales Analysis* follows this section.

1. Choose **Daily Poll File**, and then **PLU File Only** from the *Print* menu to print out the PLU poll file of a given day. The *Daily Poll* dialog box displays.



PLU#	Descriptor	Promo	Waste	Count1	Amount1	Count2	Amount2	Count3	A
0000000000000000016	BANNANA DAZZ	0.00	0.00	1.00	5.95	0.00	0.00	0.00	
0000000000000000009	IC.LRG SUND	0.00	0.00	1.00	5.95	0.00	0.00	0.00	
0000000000000000018	ROCKY ROAD DAZZ	0.00	0.00	1.00	5.95	0.00	0.00	0.00	
0000000000000000004	IC.REG CUP	0.00	0.00	1.00	3.95	0.00	0.00	0.00	
0000000000000000042	BROWNIE BAR	0.00	0.00	1.00	2.85	0.00	0.00	0.00	
0000000000000000047	RICE KRISPY TREAT	0.00	0.00	1.00	2.85	0.00	0.00	0.00	
0000000000000000052	FLORIN TINO COOKIE	0.00	0.00	1.00	2.85	0.00	0.00	0.00	
0000000000000000057	TOLL HOUSE BAR	0.00	0.00	1.00	2.85	0.00	0.00	0.00	
0000000000000002007	LARGE YOGURT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000010	PLU10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000011	NESQUICK CHUG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000012	BROWNIE SUND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000013	STELLAR SUND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000014	PLU14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000015	PLU15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000002006	LARGE IC SUND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000017	MINT CHIP DAZZ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000002005	LARGE IC CONE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000019	PLU19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000020	PLU20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0000000000000000021	PLU21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

3. Select the date and keylock position for the report you wish to view/print.
4. Click the **Load Table** button to view the selected report.
5. Click on a column to sort. Click again to change sorting least to greatest or greatest to least.
6. With the report in view, click the **Print Table** button to print the report.
7. Click **Exit** to return to the main menu.

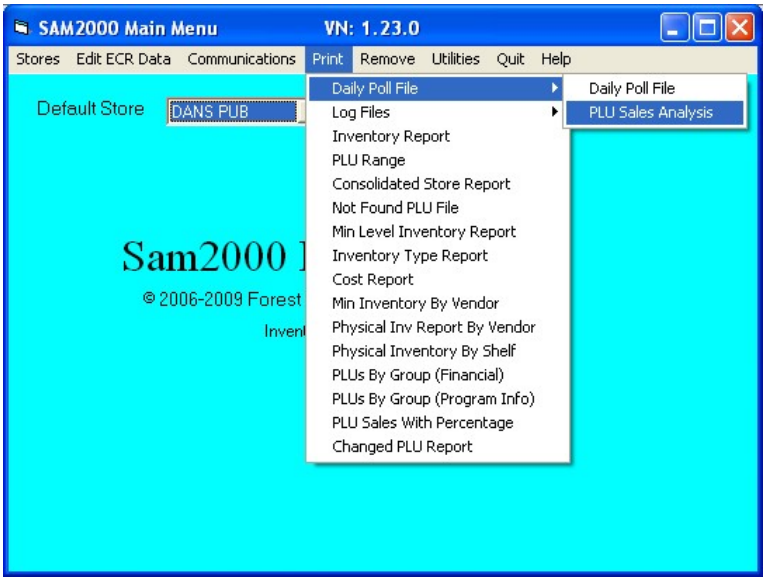
PLU Sales Analysis (requires v.1.23.0 or later)

The PLU File Only feature was enhanced to provide more useful information for customers and was renamed PLU Sales Analysis. The enhanced feature allows you to view the PLU file for a specific store and to sort the column information as previously allowed but also allows you to select a date range so that you can see how PLUs are selling over a week, month, or quarter, etc.

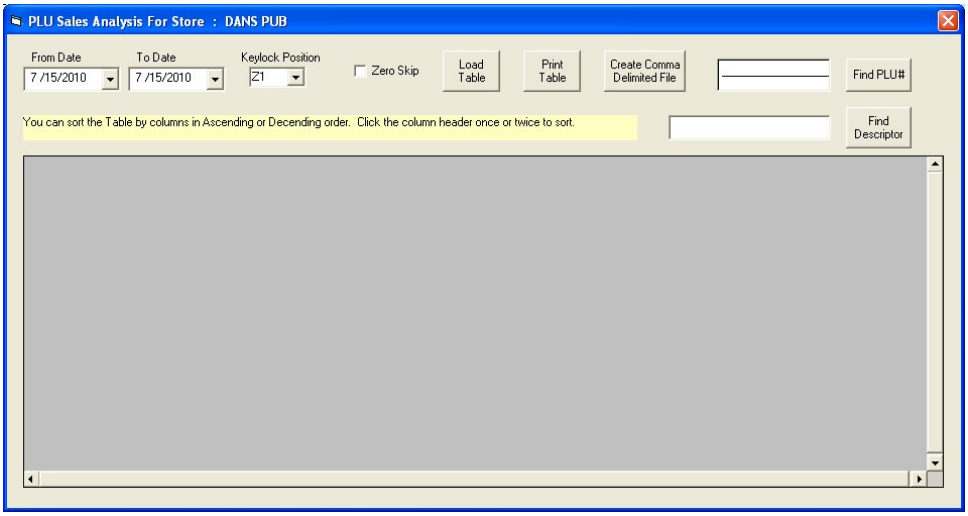
The check box option to Zero Skip or not is added– previously you would only see the items with actual counts on the report.

Also new to this feature is the ability to convert the file to a CSV file and to find a specific PLU either by PLU # or by PLU Descriptor.

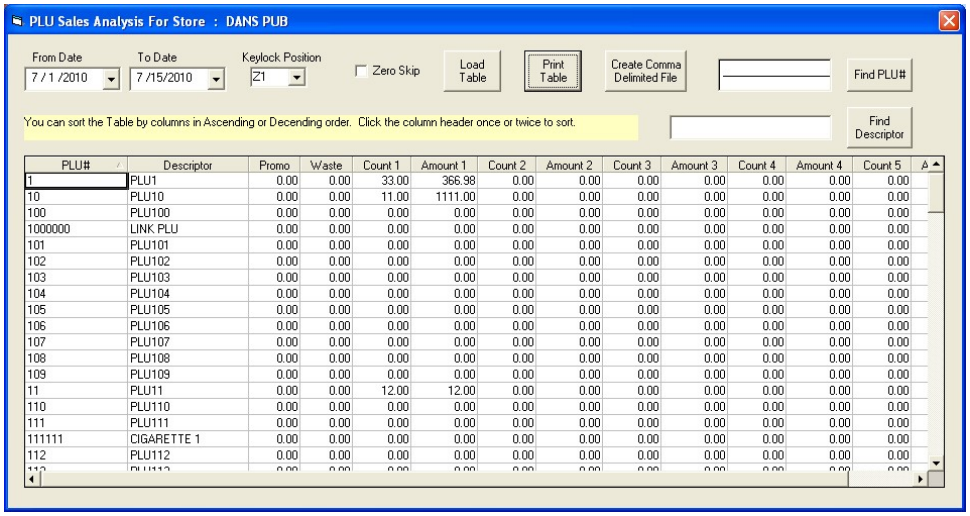
1. Choose **Daily Poll File**, and then **PLU Sales Analysis** from the *Print* menu to print out the PLU poll file of a given day. The *Daily Poll* dialog box displays.



2. An empty *PLU Sales Analysis screen* displays.

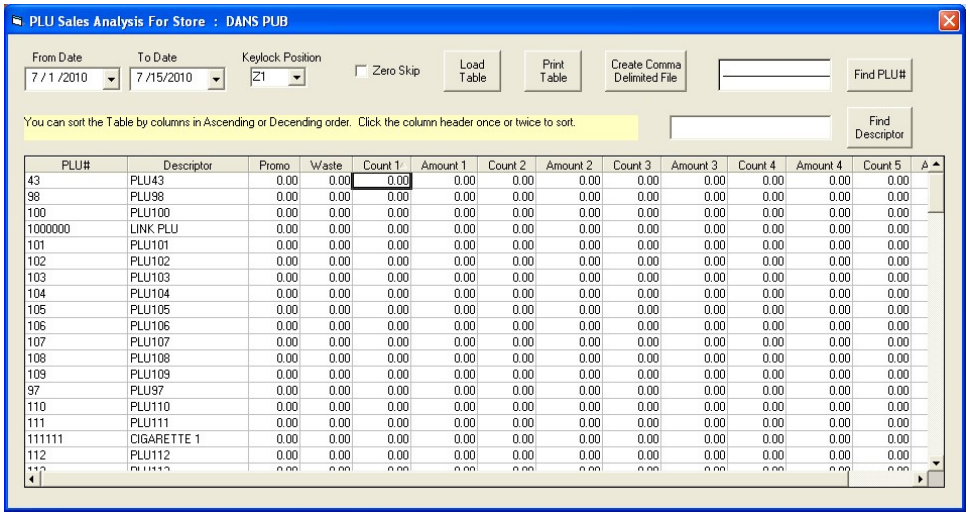


3. Load the Table for the desired date range. Note the column for Count1.



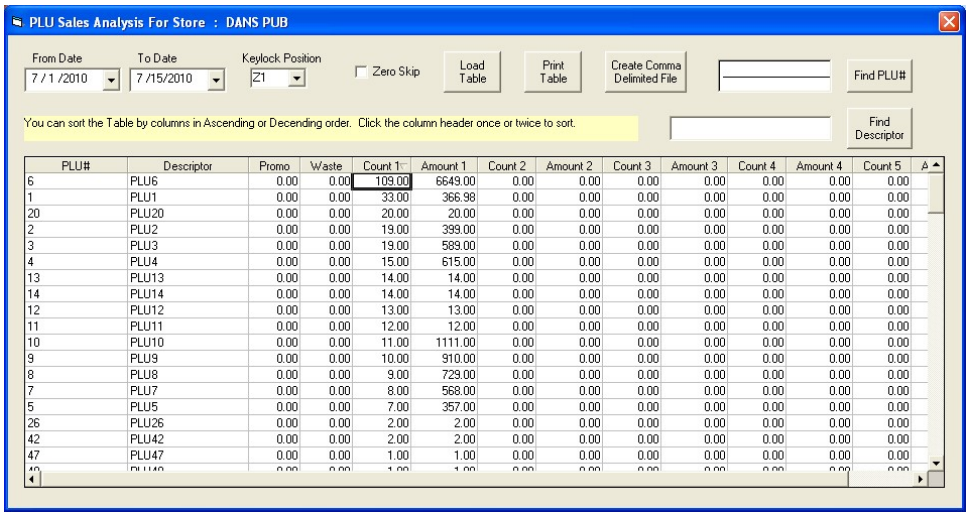
PLU#	Descriptor	Promo	Waste	Count 1	Amount 1	Count 2	Amount 2	Count 3	Amount 3	Count 4	Amount 4	Count 5	A
1	PLU1	0.00	0.00	33.00	366.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	PLU10	0.00	0.00	11.00	1111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100	PLU100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000000	LINK PLU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
101	PLU101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
102	PLU102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
103	PLU103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
104	PLU104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
105	PLU105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
106	PLU106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
107	PLU107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
108	PLU108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
109	PLU109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	PLU11	0.00	0.00	12.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
110	PLU110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
111	PLU111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
111111	CIGARETTE 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
112	PLU112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

4. Click the column header for Count1 and it is sorted lowest to highest.



PLU#	Descriptor	Promo	Waste	Count 1	Amount 1	Count 2	Amount 2	Count 3	Amount 3	Count 4	Amount 4	Count 5	A
43	PLU43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
98	PLU98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100	PLU100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000000	LINK PLU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
101	PLU101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
102	PLU102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
103	PLU103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
104	PLU104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
105	PLU105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
106	PLU106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
107	PLU107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
108	PLU108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
109	PLU109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
97	PLU97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
110	PLU110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
111	PLU111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
111111	CIGARETTE 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
112	PLU112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

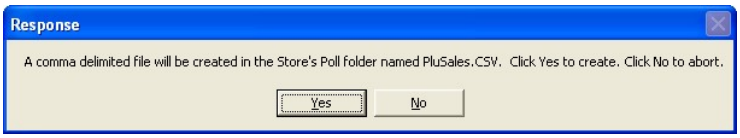
5. Click the column header for Count1 again and is sorted highest to lowest.



PLU#	Descriptor	Promo	Waste	Count 1	Amount 1	Count 2	Amount 2	Count 3	Amount 3	Count 4	Amount 4	Count 5	A
6	PLU6	0.00	0.00	109.00	6649.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	PLU1	0.00	0.00	33.00	366.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	PLU20	0.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	PLU2	0.00	0.00	19.00	399.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	PLU3	0.00	0.00	19.00	589.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	PLU4	0.00	0.00	15.00	615.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	PLU13	0.00	0.00	14.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	PLU14	0.00	0.00	14.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	PLU12	0.00	0.00	13.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	PLU11	0.00	0.00	12.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	PLU10	0.00	0.00	11.00	1111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	PLU9	0.00	0.00	10.00	910.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	PLU8	0.00	0.00	9.00	729.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	PLU7	0.00	0.00	8.00	568.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	PLU5	0.00	0.00	7.00	357.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	PLU26	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
42	PLU42	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
47	PLU47	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

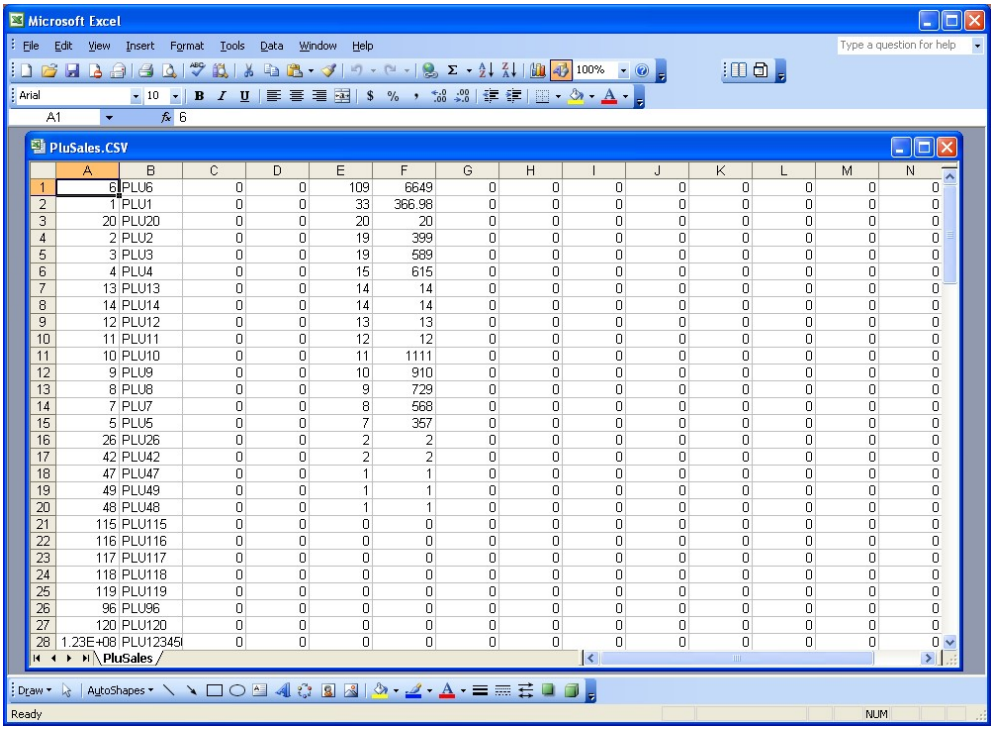
To View as CSV

6. Click the button; **Create Comma Delimited File**.



7. Click **Yes** to confirm.

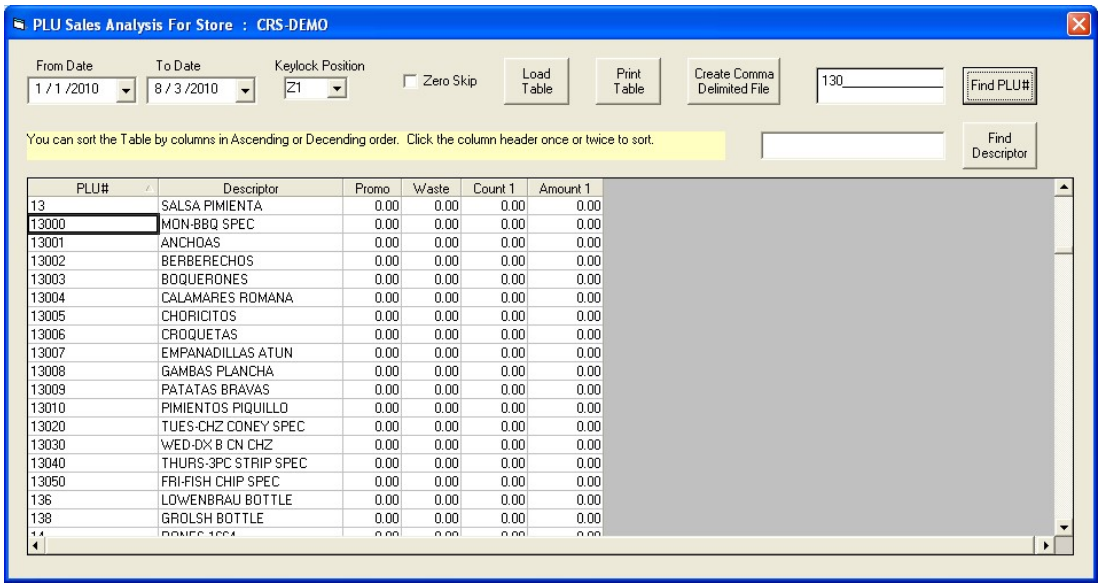
8. Go to: C:*SAM2000*\STORES\DANS PUB\POLL\PluSales.CSV. Here you will see the PLUSales.CSV file as it was displayed on the PLU Sales Analysis screen when the CSV file was created.



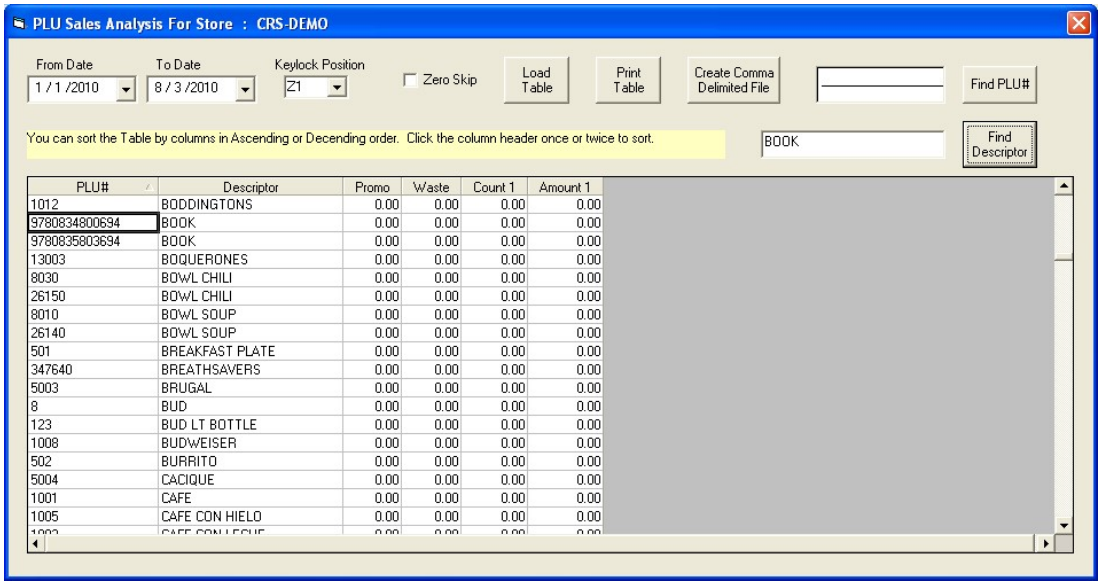
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	6	PLU6	0	0	109	6649	0	0	0	0	0	0	0	0
2	1	PLU1	0	0	33	366.98	0	0	0	0	0	0	0	0
3	20	PLU20	0	0	20	20	0	0	0	0	0	0	0	0
4	2	PLU2	0	0	19	399	0	0	0	0	0	0	0	0
5	3	PLU3	0	0	19	589	0	0	0	0	0	0	0	0
6	4	PLU4	0	0	15	615	0	0	0	0	0	0	0	0
7	13	PLU13	0	0	14	14	0	0	0	0	0	0	0	0
8	14	PLU14	0	0	14	14	0	0	0	0	0	0	0	0
9	12	PLU12	0	0	13	13	0	0	0	0	0	0	0	0
10	11	PLU11	0	0	12	12	0	0	0	0	0	0	0	0
11	10	PLU10	0	0	11	1111	0	0	0	0	0	0	0	0
12	9	PLU9	0	0	10	910	0	0	0	0	0	0	0	0
13	8	PLU8	0	0	9	729	0	0	0	0	0	0	0	0
14	7	PLU7	0	0	8	568	0	0	0	0	0	0	0	0
15	5	PLU5	0	0	7	357	0	0	0	0	0	0	0	0
16	26	PLU26	0	0	2	2	0	0	0	0	0	0	0	0
17	42	PLU42	0	0	2	2	0	0	0	0	0	0	0	0
18	47	PLU47	0	0	1	1	0	0	0	0	0	0	0	0
19	49	PLU49	0	0	1	1	0	0	0	0	0	0	0	0
20	48	PLU48	0	0	1	1	0	0	0	0	0	0	0	0
21	115	PLU115	0	0	0	0	0	0	0	0	0	0	0	0
22	116	PLU116	0	0	0	0	0	0	0	0	0	0	0	0
23	117	PLU117	0	0	0	0	0	0	0	0	0	0	0	0
24	118	PLU118	0	0	0	0	0	0	0	0	0	0	0	0
25	119	PLU119	0	0	0	0	0	0	0	0	0	0	0	0
26	96	PLU96	0	0	0	0	0	0	0	0	0	0	0	0
27	120	PLU120	0	0	0	0	0	0	0	0	0	0	0	0
28	1.23E+08	PLU12345(	0	0	0	0	0	0	0	0	0	0	0	0

To Search Fields

9. To find a PLU by number, enter in the PLU # or a partial PLU # using the beginning numbers for the item you want to find in the report, then press **Find PLU#.**

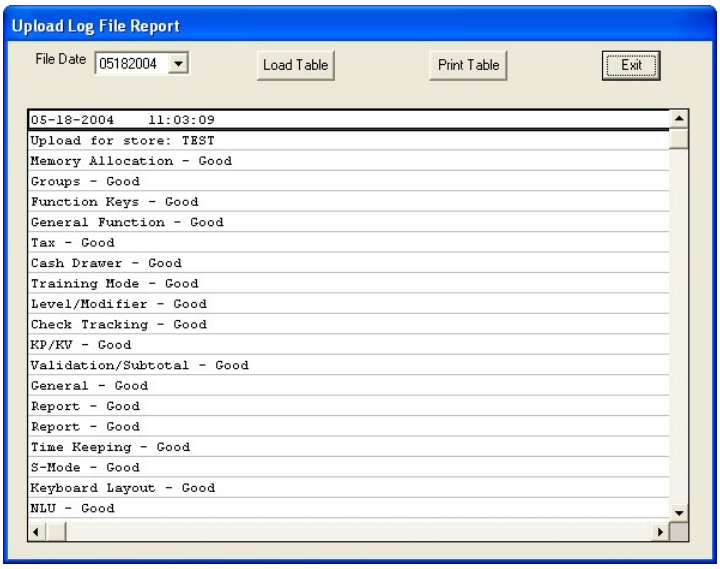


10. To find a PLU by descriptor, Enter the descriptor or a partial descriptor for the item you want to find in the report, and then press **Find Descriptor.**



Log File

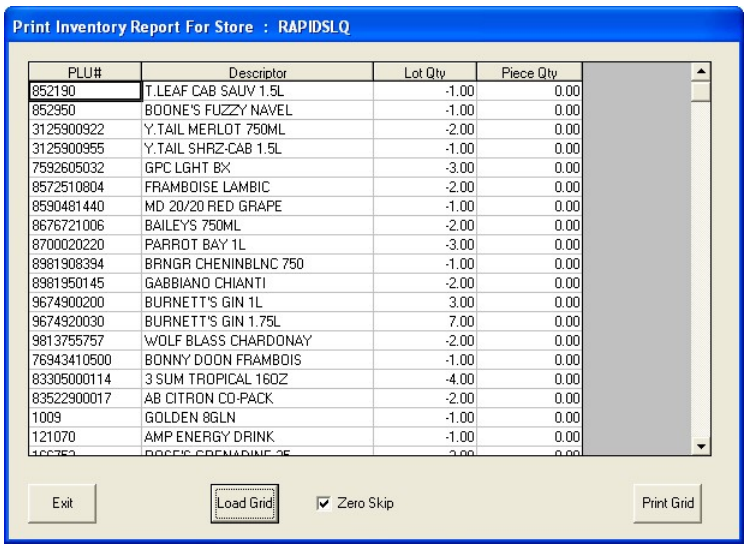
1. For error checking, choose **Log File** from the *Print* menu. Then select **Uploads**, **Downloads** or **Polling** to display the appropriate log file. The *Log File Report* dialog box displays.



2. Select the file date from the drop-down list box.
3. Click the **Load Table** button to view the selected report.
4. With the report in view, click the **Print Table** button to print the report.
5. Click **Exit** to return to the main menu.

Inventory Report

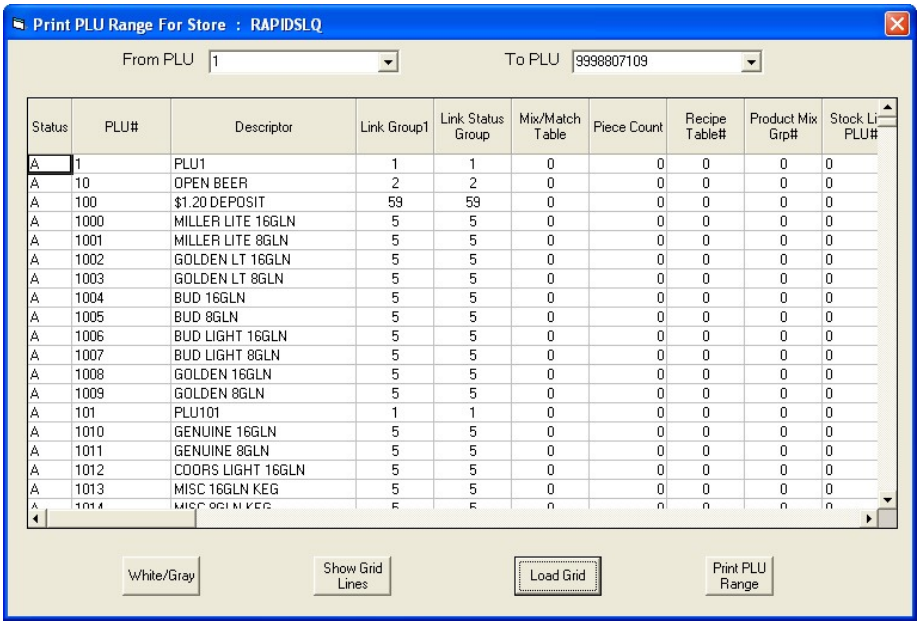
1. Choose **Inventory Report** from the *Print* menu to display and print out the inventory file of the working store. The *Print Inventory Report* dialog box displays.



2. Click the **Load Grid** button to view the file.
3. Click the **Zero Skip** check box to view only items with inventory values.
4. Click the **Print Grid** button to print the file.
5. Click **Exit** to return to the main menu.

PLU Range

1. Choose **PLU Range** from the *Print* menu to display and print out the PLU file of the working store. The *Print PLU Range* dialog box displays.



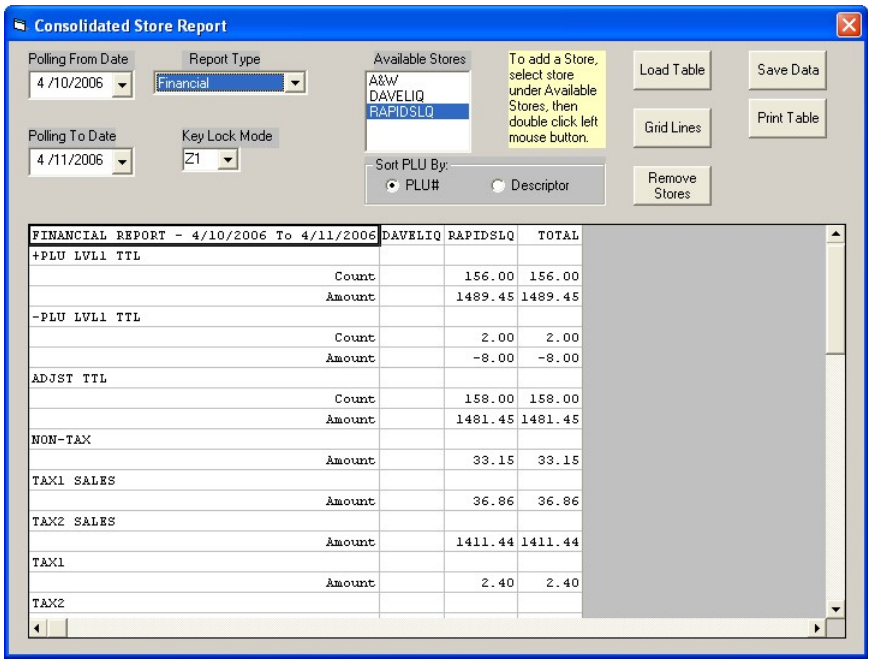
2. Indicate the range of PLUs you with to display and print by entering values into the From PLU and To PLU boxes. (The screen defaults to display values from the first to the last PLUs in the file.) Click the **Load Grid** button to view requested PLUs.
3. Click the **Print PLU Range** button to print the file.
4. Close the window to return to the main menu.

Note: This report is sorted in PLU # string order, not in PLU # numeric order.

Consolidated Store Report

This program consolidates store reports for multiple stores. This program can be used to consolidate a range of dates, i.e. April1 to April 30.

1. Choose **Consolidated Store Report** from the *Print* menu to display and print out the consolidated financial, PLU and group reports for all stores. The *Consolidated Store Report* dialog box displays.



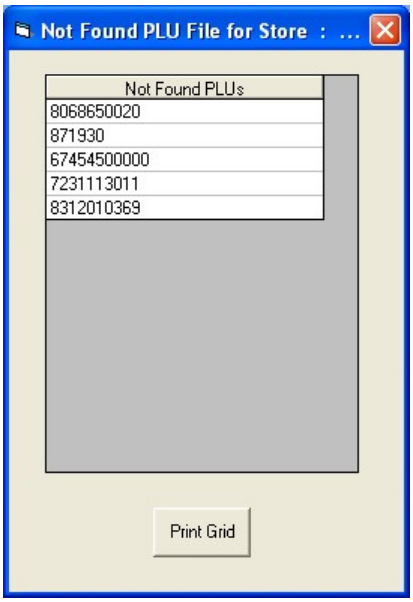
FINANCIAL REPORT - 4/10/2006 To 4/11/2006	DAVELIQ	RAPIDSLQ	TOTAL
+PLU LVL1 TTL			
Count		156.00	156.00
Amount		1489.45	1489.45
-PLU LVL1 TTL			
Count		2.00	2.00
Amount		-8.00	-8.00
ADJST TTL			
Count		158.00	158.00
Amount		1481.45	1481.45
NON-TAX			
Amount		33.15	33.15
TAX1 SALES			
Amount		36.86	36.86
TAX2 SALES			
Amount		1411.44	1411.44
TAX1			
Amount		2.40	2.40
TAX2			

2. Refer to the table below to make report selections.
3. Click **Load Table** to load the consolidated store report.
4. Click **Grid Lines** to toggle between displaying grid lines on the table and not.
5. Click **Save Data** to save the report.
6. Click **Print Table** to print the consolidated store report.
7. Close the window to return to the main menu.

Field Name	Required /Optional	Description/Instructions
Poling From Date/Polling To Date	**R**	Use calendar to select the date range.
Report Type	**R**	SELECT: Financial, PLU, Groups, Sales by TP, Employees
Keylock Mode	**R**	X1, X2, X3 Z1, Z2, Z3
Available Stores	**O**	Select stores to consolidate by double clicking the store.
Sort PLU BY	**R**	Choose PLU# or Descriptor

Not Found PLU File

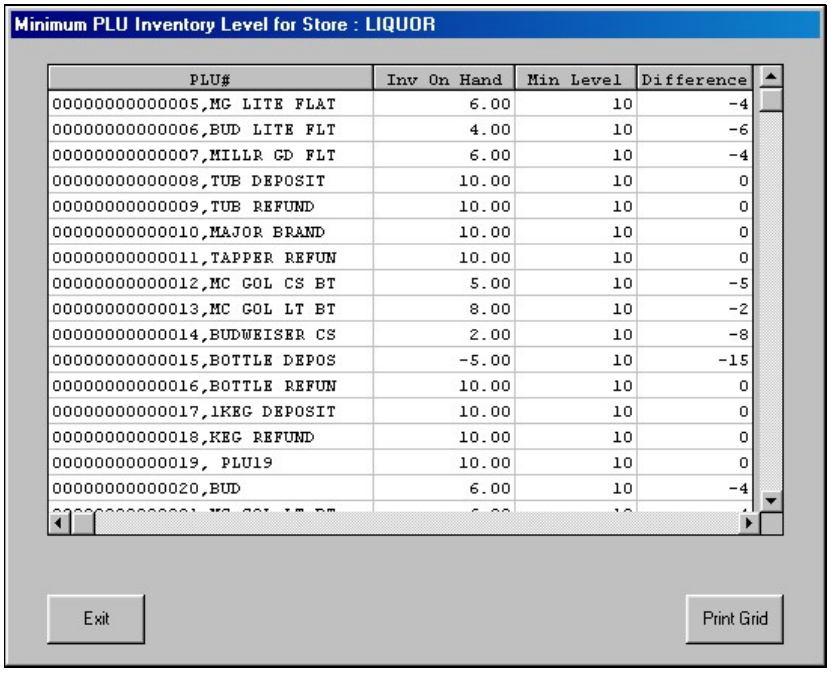
1. Choose **Not Found PLU File** from the *Print* menu to display and print a list of PLUs that have been collected in the SPS-2000 not found PLU file and polled. Items are entered in the file when a PLU is entered (or scanned) and the item is not in the PLU file. The *Not Found PLU File* dialog box displays.



2. Click the **Print File** button to print the file.
3. Close the window to return to the main menu.

Min Level Inventory Report

1. Choose **Min Level Inventory Report** from the *Print* menu to display or print out the Inventory on hand, minimum level and difference for each inventory item.

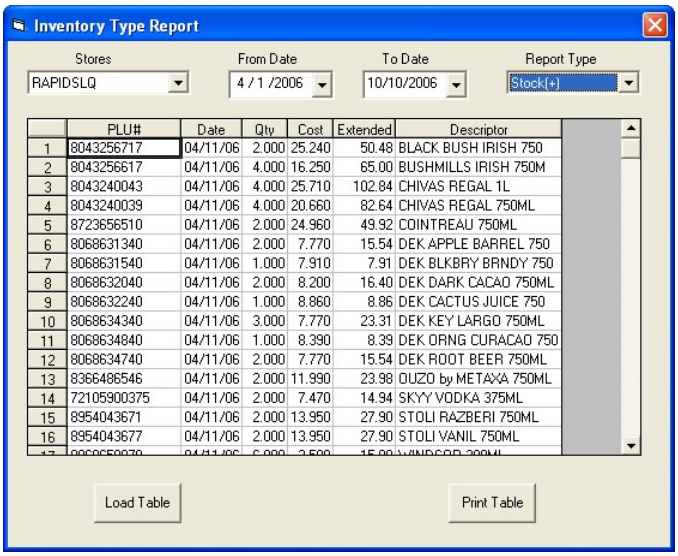


2. Click **Print Grid** to print the report.
3. Close the window to return to the main menu.

Field	Description
PLU#	PLU number and descriptor.
Inv On Hand	Historical Purchases minus Historical Sales
Min Level	The minimum level set on the Edit ECR Data/Inventory/PLU/Inventory tab.
Difference	Inventory On Hand minus Minimum Level

Inventory Type Report

1. Choose **Inventory Type Report** from the *Print* menu to display or print a list of inventory adjustments by the type of inventory adjustments (i.e. Stock(+), Transfer In(+), Transfer Out(-), Promo(-) or Waste(-)) for a selected Date Range.

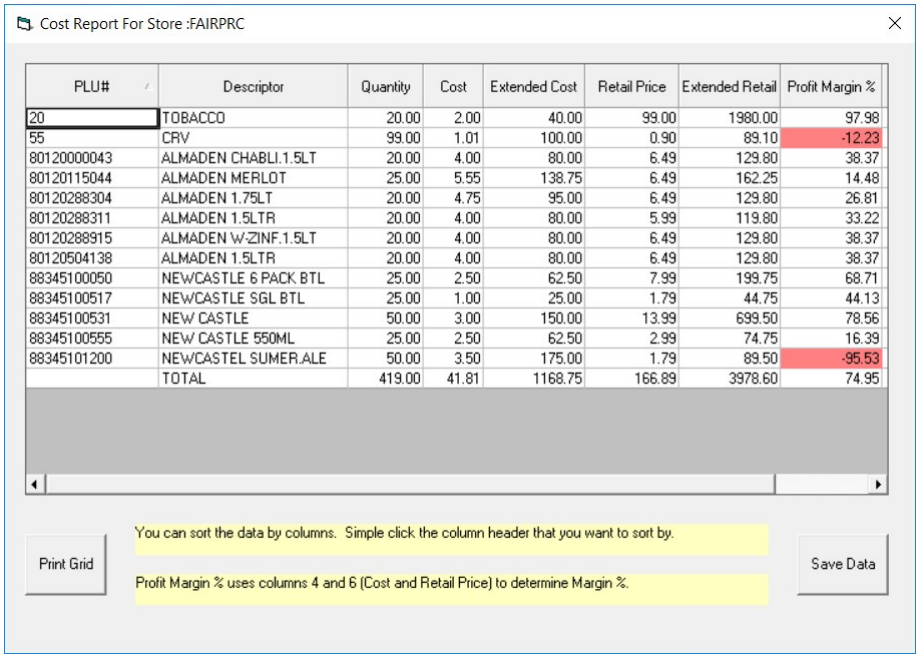


	PLU#	Date	Qty	Cost	Extended	Descriptor
1	8043256717	04/11/06	2.000	25.240	50.48	BLACK BUSH IRISH 750
2	8043256617	04/11/06	4.000	16.250	65.00	BUSHMILLS IRISH 750M
3	8043240043	04/11/06	4.000	25.710	102.84	CHIVAS REGAL 1L
4	8043240039	04/11/06	4.000	20.660	82.64	CHIVAS REGAL 750ML
5	8723656510	04/11/06	2.000	24.960	49.92	COINTREAU 750ML
6	8068631340	04/11/06	2.000	7.770	15.54	DEK APPLE BARREL 750
7	8068631540	04/11/06	1.000	7.910	7.91	DEK BLKBRY BRNDY 750
8	8068632040	04/11/06	2.000	8.200	16.40	DEK DARK CACAO 750ML
9	8068632240	04/11/06	1.000	8.860	8.86	DEK CACTUS JUICE 750
10	8068634340	04/11/06	3.000	7.770	23.31	DEK KEY LARGO 750ML
11	8068634840	04/11/06	1.000	8.390	8.39	DEK ORNG CURACAO 750
12	8068634740	04/11/06	2.000	7.770	15.54	DEK ROOT BEER 750ML
13	8366486546	04/11/06	2.000	11.990	23.98	OUZO by METAXA 750ML
14	72105900375	04/11/06	2.000	7.470	14.94	SKYY VODKA 375ML
15	8954043671	04/11/06	2.000	13.950	27.90	STOLI RAZBERI 750ML
16	8954043677	04/11/06	2.000	13.950	27.90	STOLI VANIL 750ML

2. Select the store from the **Stores** drop-down list box.
3. Select the **From Date** and **To Date** for the report.
4. Select the Report Type.
5. Click **Load Table** to view the report.
6. Click **Print Table** to print the report.
7. Close the window to return to the main menu.

Cost Report

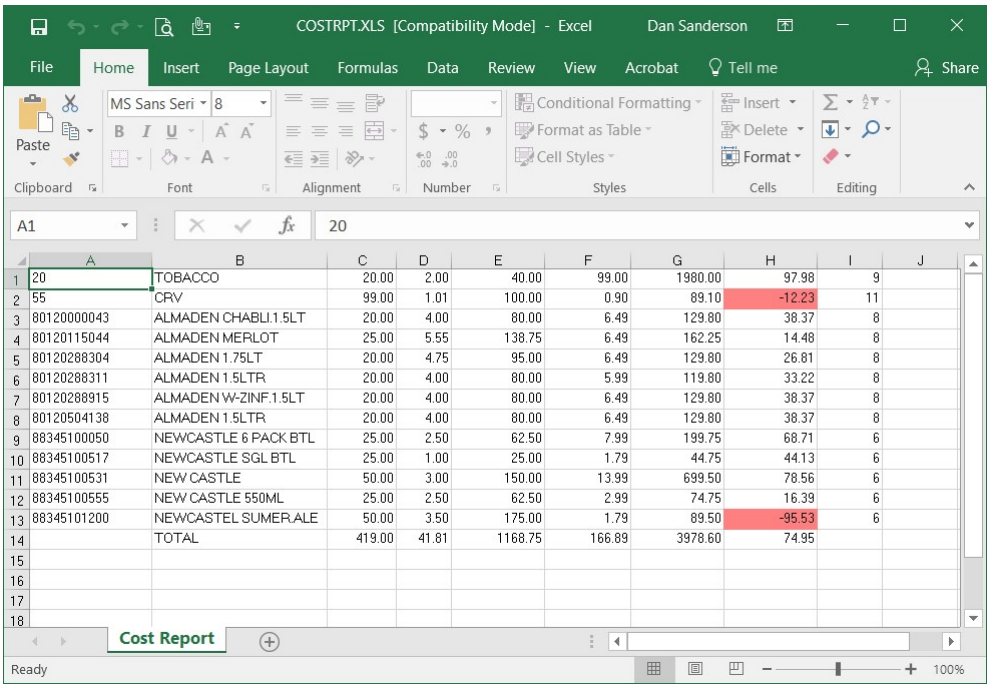
1. Choose **Cost Report** from the *Print* menu to report the value of current inventory and calculate the profit margin percentage based upon the current selling price.



2. Select any of the headers to sort the list from *lowest to highest* or *highest to lowest*.
3. Click **Print Grid** to print the report.
4. Click **Save Data** to save the cost report data as a COSTRPT.XLS file. The report will save to C:*SAM2000*\STORES\STORENAME\COSTRPT.XLS.
5. Close the window to return to the main menu.

Field	Description	
PLU#	PLU code number	
Descriptor	PLU Descriptor	
Quantity	Historical Purchases minus Historical Sales	
Cost	Average Cost from Historical Purchases	
Extended Cost	Quantity * Cost	
Retail Price	PLU Price	
Extended Retail	Quantity * Retail Price	
Profit Margin	(Retail Price – Cost) / Retail Price	Red cells indicate a negative profit margin.
Group#	Main Link Group assignment for the PLU	

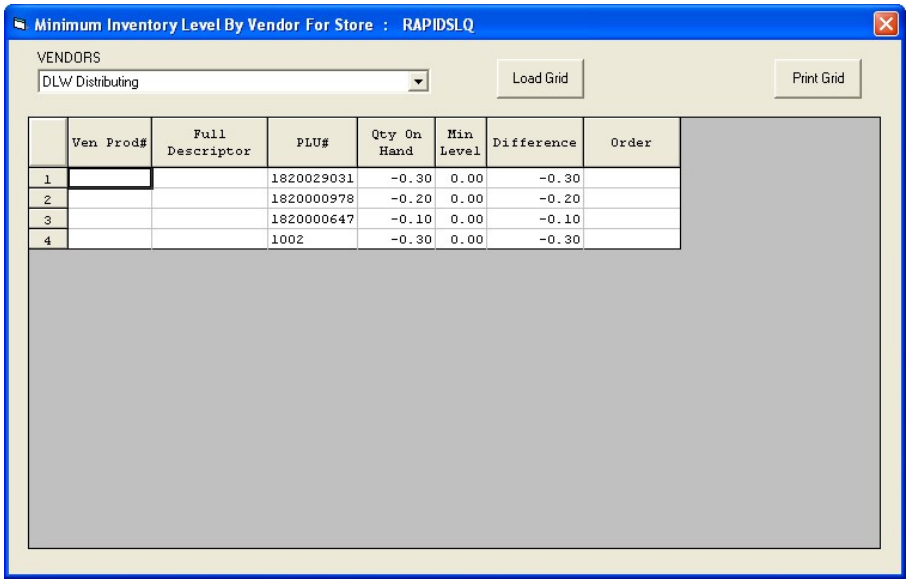
Sample Cost Report saved as an XLS file



	A	B	C	D	E	F	G	H	I	J
1	20	TOBACCO	20.00	2.00	40.00	99.00	1980.00	97.98	9	
2	55	CRV	99.00	1.01	100.00	0.90	89.10	-12.23	11	
3	80120000043	ALMADEN CHABLI.1.5LT	20.00	4.00	80.00	6.49	129.80	38.37	8	
4	80120115044	ALMADEN MERLOT	25.00	5.55	138.75	6.49	162.25	14.48	8	
5	80120288304	ALMADEN 1.75LT	20.00	4.75	95.00	6.49	129.80	26.81	8	
6	80120288311	ALMADEN 1.5LTR	20.00	4.00	80.00	5.99	119.80	33.22	8	
7	80120288915	ALMADEN W-ZINF.1.5LT	20.00	4.00	80.00	6.49	129.80	38.37	8	
8	80120504138	ALMADEN 1.5LTR	20.00	4.00	80.00	6.49	129.80	38.37	8	
9	88345100050	NEWCASTLE 6 PACK BTL	25.00	2.50	62.50	7.99	199.75	68.71	6	
10	88345100517	NEWCASTLE SGL BTL	25.00	1.00	25.00	1.79	44.75	44.13	6	
11	88345100531	NEW CASTLE	50.00	3.00	150.00	13.99	699.50	78.56	6	
12	88345100555	NEW CASTLE 550ML	25.00	2.50	62.50	2.99	74.75	16.39	6	
13	88345101200	NEWCASTEL SUMER ALE	50.00	3.50	175.00	1.79	89.50	-95.53	6	
14		TOTAL	419.00	41.81	1168.75	166.89	3978.60	74.95		
15										
16										
17										
18										

Minimum Inventory by Vendor

1. Choose **Min Inventory By Vendor** from the *Print* menu to view inventory items where the quantity on hand is less than the minimum level for a specific vendor.

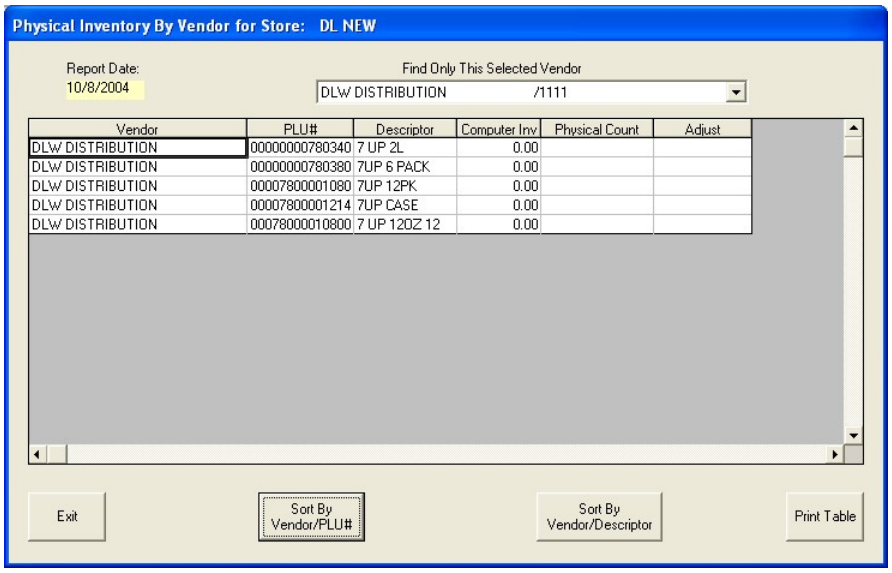


2. Select the vendor you wish to view from the **VENDORS** drop down list box.
3. Click **Load Grid** to view the report.
4. Click **Print Grid** to print the report.
5. Close the window return to the main menu.

Field	Description
Vendor Prod#	Vendor Product ID# set on the Edit ECR Data/Inventory/PLU/Inventory tab.
Descriptor	PLU Full Descriptor set on the Edit ECR Data/Inventory/PLU/PLU Data tab.
PLU#	PLU Number
Qty on Hand	Historical Purchases minus Historical Sales
Min Level	The minimum level set on the Edit ECR Data/Inventory/PLU/Inventory tab.
Differ	Inventory On Hand minus Minimum Level
Order	Column provided to manually enter quantities to order

Physical Inventory By Vendor

1. Choose **Physical Inventory By Vendor** from the *Print* menu to view inventory items by Vendor, organized by PLU# and/or Descriptor. The report indicates the expected inventory level and provides and worksheet for entering a physical inventory.

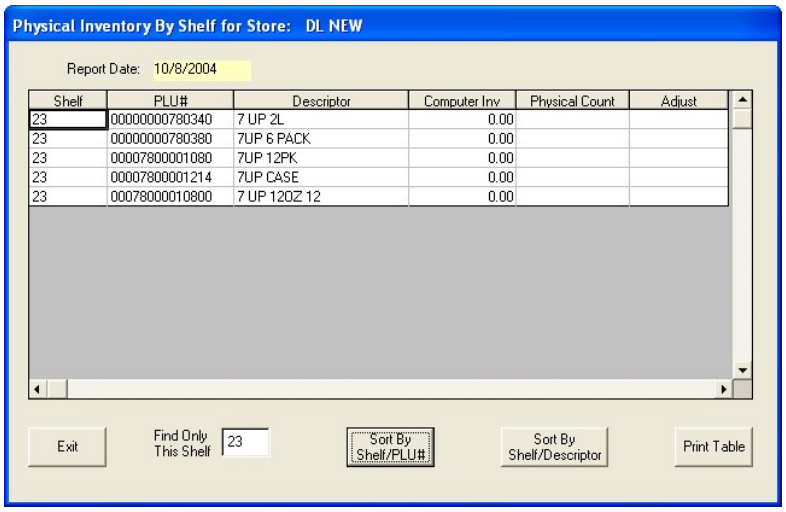


2. Select the vendor from the **Find Only This Selected Vendor** drop down list box.
3. Chose a sorting method by clicking the **Sort By Vendor/PLU#** or **Sort By Vendor/Descriptor** button.
4. Click **Print Table** to print the report.
5. Close the window to return to the main menu.

Field	Description
Vendor	Vendor selected.
Computer Inv	Historical Purchases minus Historical Sales
Physical Count	Column provided to manually enter physical inventory count
Adjustment	Column provided to manually enter the adjustment (Computer Inv – Physical Count)

Physical Inventory by Shelf

1. Choose **Physical Inventory By Shelf** from the *Print* menu to report inventory items organized by Shelf and PLU# or by Shelf and Descriptor. The report indicates the expected inventory level and provides and worksheet for entering a physical inventory.

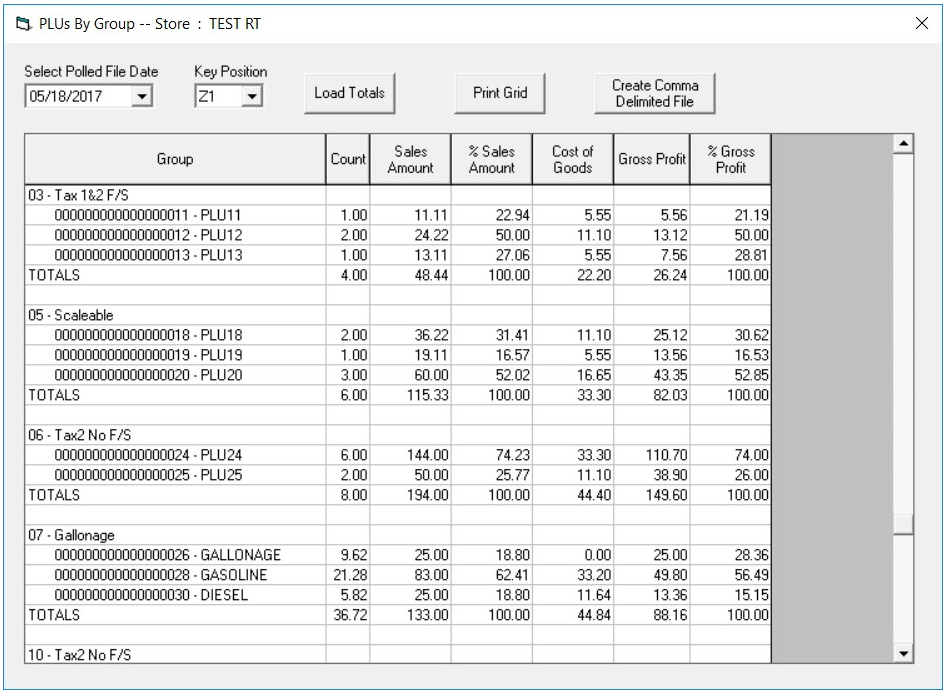


2. If you wish to view/print for only a specific shelf, enter the shelf in the **Find Only This Shelf** field.
3. Chose a sorting method by clicking the **Sort By Shelf/PLU#** or **Sort By Shelf/Descriptor** button.
4. Click **Print Grid** to print the report.
5. lose the window to return to the main menu.

Field	Description
Shelf	Shelf location set on the Edit ECR Data/Inventory/PLU/Inventory tab.
Computer Inv	Historical Purchases minus Historical Sales
Physical Count	Column provided to manually enter physical inventory count
Adjustment	Column provided to manually enter the adjustment (Computer Inv – Physical Count)

PLUs by Group (Financial)

1. Choose **PLUs by Group (Financial)** to view a sales summary by reporting group.
2. Select the polled file date and report type from the drop-down list boxes. Click **Load Totals** to display the report.



Group	Count	Sales Amount	% Sales Amount	Cost of Goods	Gross Profit	% Gross Profit
03 - Tax 1&2 F/S						
000000000000000011 - PLU11	1.00	11.11	22.94	5.55	5.56	21.19
000000000000000012 - PLU12	2.00	24.22	50.00	11.10	13.12	50.00
000000000000000013 - PLU13	1.00	13.11	27.06	5.55	7.56	28.81
TOTALS	4.00	48.44	100.00	22.20	26.24	100.00
05 - Scaleable						
000000000000000018 - PLU18	2.00	36.22	31.41	11.10	25.12	30.62
000000000000000019 - PLU19	1.00	19.11	16.57	5.55	13.56	16.53
000000000000000020 - PLU20	3.00	60.00	52.02	16.65	43.35	52.85
TOTALS	6.00	115.33	100.00	33.30	82.03	100.00
06 - Tax2 No F/S						
000000000000000024 - PLU24	6.00	144.00	74.23	33.30	110.70	74.00
000000000000000025 - PLU25	2.00	50.00	25.77	11.10	38.90	26.00
TOTALS	8.00	194.00	100.00	44.40	149.60	100.00
07 - Gallonage						
000000000000000026 - GALLONAGE	9.62	25.00	18.80	0.00	25.00	28.36
000000000000000028 - GASOLINE	21.28	83.00	62.41	33.20	49.80	56.49
000000000000000030 - DIESEL	5.82	25.00	18.80	11.64	13.36	15.15
TOTALS	36.72	133.00	100.00	44.84	88.16	100.00
10 - Tax2 No F/S						

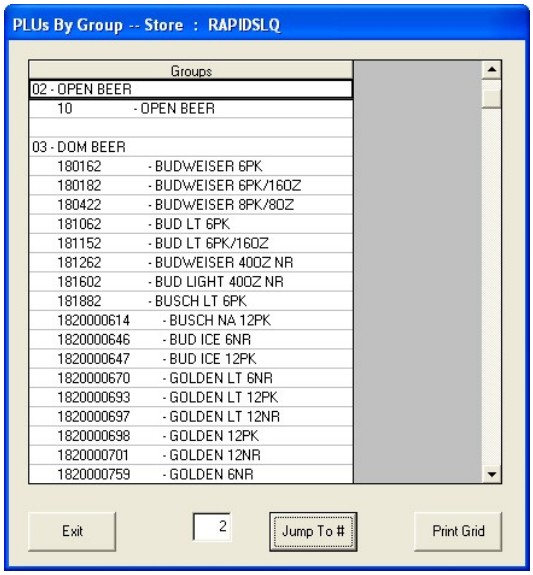
3. Use scroll bars to review the report and/or click **Print Grid** to print.

Field	Description
Group	Group number – Group name and PLU's associated with the group.
Count	Quantity of the PLU sold.
Sales Amount	Amount of sales per the count for the specific PLU.
% Sales Amount	The percentage of the total sales for the specific group this PLU represents.
Cost of Goods	The cost of the PLU as derived from the inventory entered for this item.
Gross Profit	The Gross Profit is the *Sales Amount – Cost of Goods*.
% Gross Profit	$\frac{\text{Gross Profit}}{\text{TOTAL Gross Profit}}$

PLUS by Group (Program Info)

The program is useful for identifying mis-programmed PLUs.

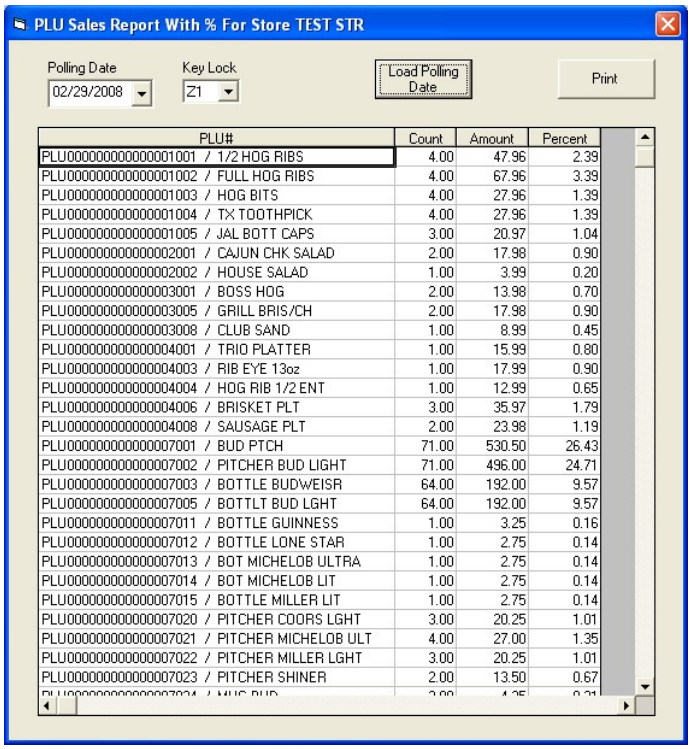
1. Choose **PLUs by Group (Financial)** to view a sales summary by reporting group.



2. Enter a Group # and click **Jump To #** to view a specific group.

PLU Sales With Percentage

- Choose **PLU Sales With Percentage** to Displays the PLU report with Count, Amount, and Percentage of sales. Click the Print button will send this report to your default printer.

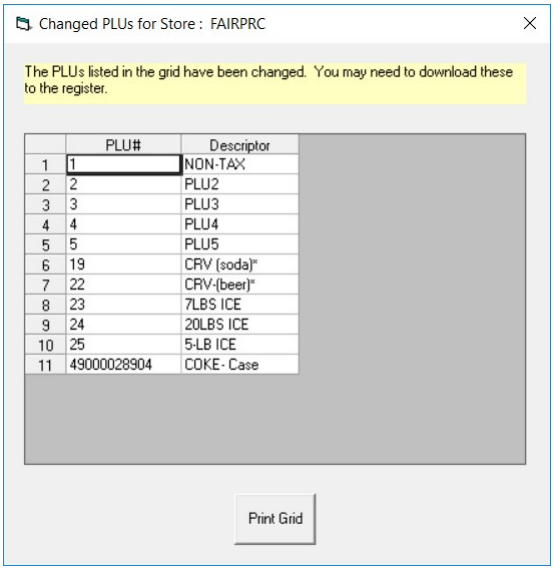


PLU#	Count	Amount	Percent
PLU0000000000000001001 / 1/2 HOG RIBS	4.00	47.96	2.39
PLU0000000000000001002 / FULL HOG RIBS	4.00	67.96	3.39
PLU0000000000000001003 / HOG BITS	4.00	27.96	1.39
PLU0000000000000001004 / TX TOOTHPICK	4.00	27.96	1.39
PLU0000000000000001005 / JAL BOTT CAPS	3.00	20.97	1.04
PLU0000000000000002001 / CAJUN CHK SALAD	2.00	17.98	0.90
PLU0000000000000002002 / HOUSE SALAD	1.00	3.99	0.20
PLU0000000000000003001 / BOSS HOG	2.00	13.98	0.70
PLU0000000000000003005 / GRILL BRIS/CH	2.00	17.98	0.90
PLU0000000000000003008 / CLUB SAND	1.00	8.99	0.45
PLU0000000000000004001 / TRIO PLATTER	1.00	15.99	0.80
PLU0000000000000004003 / RIB EYE 13oz	1.00	17.99	0.90
PLU0000000000000004004 / HOG RIB 1/2 ENT	1.00	12.99	0.65
PLU0000000000000004006 / BRISKET PLT	3.00	35.97	1.79
PLU0000000000000004008 / SAUSAGE PLT	2.00	23.98	1.19
PLU0000000000000007001 / BUD PTCH	71.00	530.50	26.43
PLU0000000000000007002 / PITCHER BUD LIGHT	71.00	496.00	24.71
PLU0000000000000007003 / BOTTLE BUDWEISR	64.00	192.00	9.57
PLU0000000000000007005 / BOTTLT BUD LGHT	64.00	192.00	9.57
PLU0000000000000007011 / BOTTLE GUINNESS	1.00	3.25	0.16
PLU0000000000000007012 / BOTTLE LONE STAR	1.00	2.75	0.14
PLU0000000000000007013 / BOT MICHELOB ULTRA	1.00	2.75	0.14
PLU0000000000000007014 / BOT MICHELOB LIT	1.00	2.75	0.14
PLU0000000000000007015 / BOTTLE MILLER LIT	1.00	2.75	0.14
PLU0000000000000007020 / PITCHER COORS LGHT	3.00	20.25	1.01
PLU0000000000000007021 / PITCHER MICHELOB ULT	4.00	27.00	1.35
PLU0000000000000007022 / PITCHER MILLER LGHT	3.00	20.25	1.01
PLU0000000000000007023 / PITCHER SHINER	2.00	13.50	0.67

Changed PLU Report

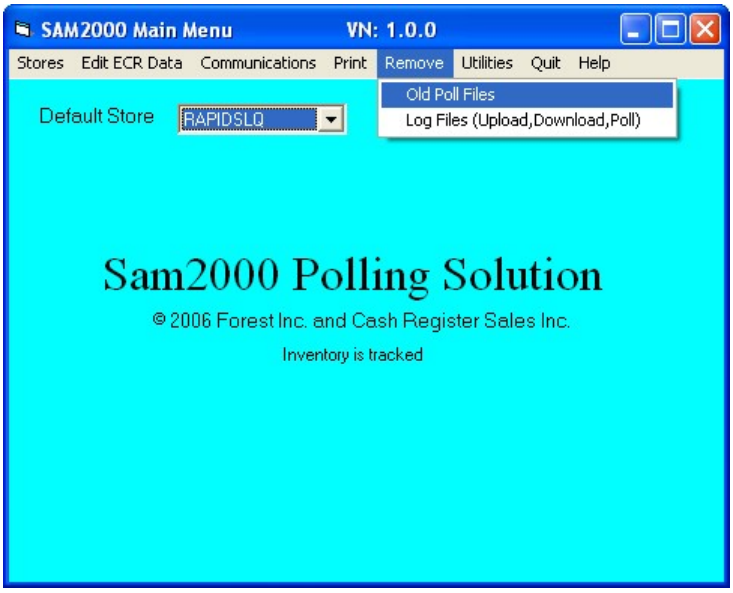
This report lists PLU's that have been changed in some manner. This may be useful for users who forget if they made PLU changes or who may be uncertain as to which PLU's they have modified.

- Choose **Changed PLU Report**.



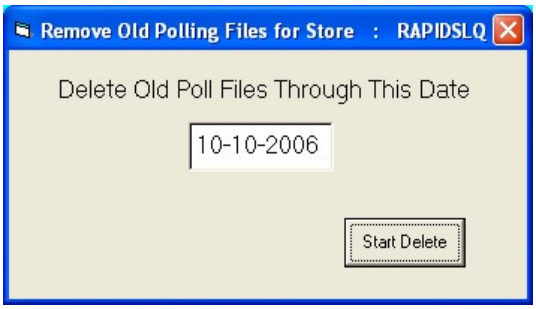
Remove

Choose **Remove** from the Main menu to access the utilities described below.



Old Poll Files

1. Choose **Old Poll Files** from the *Utilities* menu to delete unwanted poll files. The *Remove Old Polling Files* dialog box displays.



2. Enter the date through which you want old poll files deleted. Click **Start Delete**. The message "FINISHED" will display when completed.
3. Close the window to return to the main menu.

Log Files (Upload, Download, Poll)

1. Choose **Log Files (Upload, Download, Poll)** from the *Utilities* menu to delete unwanted log files. The *Remove Old Log Files* dialog box will display.

2. Enter the date through which you want old poll log files deleted. Click **Start Delete**. The message "FINISHED" will display when completed.
3. Close the window to return to the main menu.

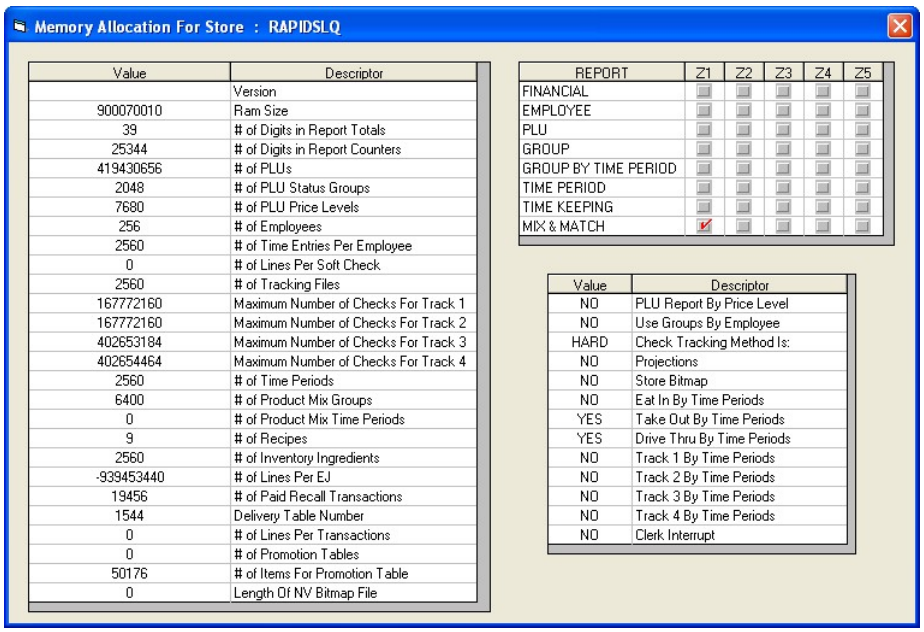
Utilities

Overview

Choose **Utilities** from the Main menu to access the utilities described below.

Display Memory Allocation

1. Choose **Display Memory Allocation** from the *Utilities* menu to display the memory allocation of the store's ECR.



Value	Descriptor
	Version
900070010	Ram Size
39	# of Digits in Report Totals
25344	# of Digits in Report Counters
419430656	# of PLUs
2048	# of PLU Status Groups
7680	# of PLU Price Levels
256	# of Employees
2560	# of Time Entries Per Employee
0	# of Lines Per Soft Check
2560	# of Tracking Files
167772160	Maximum Number of Checks For Track 1
167772160	Maximum Number of Checks For Track 2
402653184	Maximum Number of Checks For Track 3
402654464	Maximum Number of Checks For Track 4
2560	# of Time Periods
6400	# of Product Mix Groups
0	# of Product Mix Time Periods
9	# of Recipes
2560	# of Inventory Ingredients
-939453440	# of Lines Per EJ
19456	# of Paid Recall Transactions
1544	Delivery Table Number
0	# of Lines Per Transactions
0	# of Promotion Tables
50176	# of Items For Promotion Table
0	Length Of NV Bitmap File

REPORT	Z1	Z2	Z3	Z4	Z5
FINANCIAL	☐	☐	☐	☐	☐
EMPLOYEE	☐	☐	☐	☐	☐
PLU	☐	☐	☐	☐	☐
GROUP	☐	☐	☐	☐	☐
GROUP BY TIME PERIOD	☐	☐	☐	☐	☐
TIME PERIOD	☐	☐	☐	☐	☐
TIME KEEPING	☐	☐	☐	☐	☐
MIX & MATCH	☑	☐	☐	☐	☐

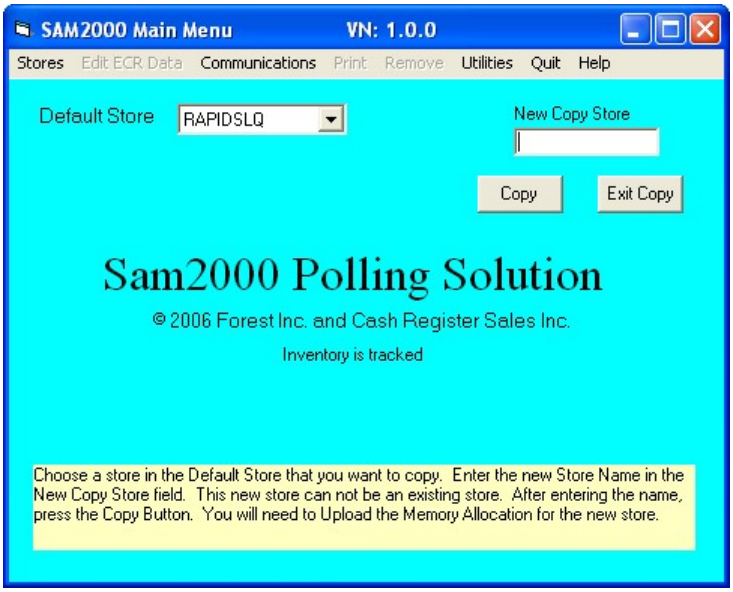
Value	Descriptor
NO	PLU Report By Price Level
NO	Use Groups By Employee
HARD	Check Tracking Method Is:
NO	Projections
NO	Store Bitmap
NO	Eat In By Time Periods
YES	Take Out By Time Periods
YES	Drive Thru By Time Periods
NO	Track 1 By Time Periods
NO	Track 2 By Time Periods
NO	Track 3 By Time Periods
NO	Track 4 By Time Periods
NO	Clerk Interrupt

2. Close the window to return to the main menu.

Copy a Store

Use the Copy a Store function to create a new store with the identical attributes of an existing store.

1. Choose **Copy a Store** from the *Utilities* menu.

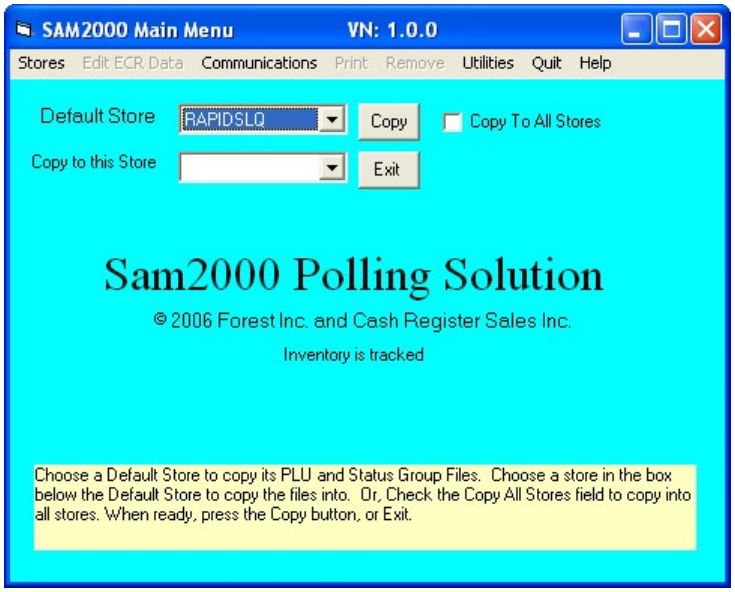


2. Select the store that you wish to copy from by clicking the Default Store field drop-down list box.
3. Enter the name of the store you wish to create in the *New Copy Store* field. Note that you cannot copy a store to an existing store.
4. Click the **Copy** button to create new store will identical attributes as the default store.

Copy PLU and Status Group Files

Use the Copy PLU and Status Group Files function to copy PLU and Status Group files to an individual store or all stores.

1. Choose **Copy a PLU File** from the *Utilities* menu.

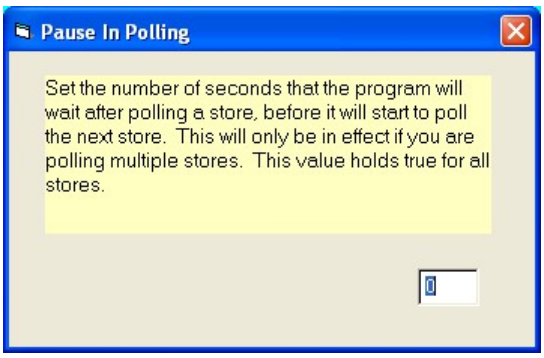


2. Select the store that you wish to copy the PLU file from by clicking the Default Store field drop-down list box.
3. Select the name of the store you wish the PLU file copied to in the *Copy PLU File to this Store* field, or click the *Copy To All Stores* check box.
4. Click the **Copy** button to copy the PLU file to the selected store or all stores.
5. Click the **Exit** button to return to the main menu.

Pause Between Stores In Polling

Here you can set the number of seconds that the program will wait after polling one store before it will start to poll the next store. This will only be in effect if you are polling multiple stores. This value holds true for all stores.

1. Choose **Pause Between Stores In Poll** from the *Utilities* menu. The *Pause In Polling* dialog box displays.

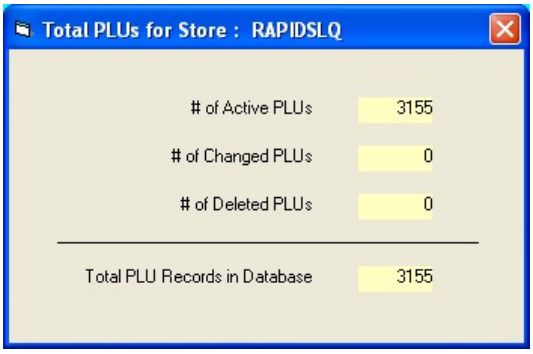


2. Enter the number of seconds you wish to pause in the field provided.
3. Close the window to save changes and return to the main menu.

Calculate Number of PLUs

You can view the total number of PLUs in the database. The number of changed and deleted PLUs are tracked.

1. Choose **Calculate Number of PLUs** from the *Utilities* menu. The *Total PLUs* dialog box for the selected store displays.

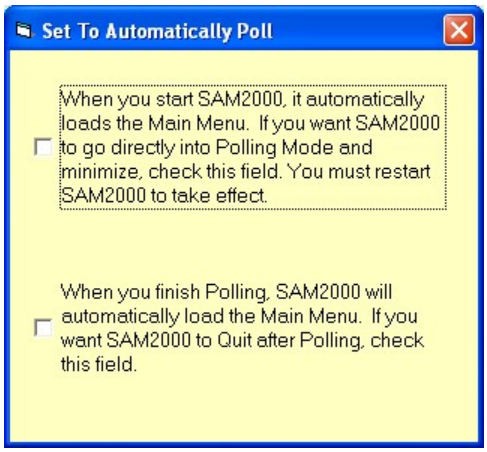


2. Close the window to return to the main menu.

Set Auto-Polling

You can set *SAM2000* to automatically go into polling mode when the program is started. You can also set *SAM2000* to automatically close when polling is completed.

1. Choose **Set to Automatically Poll** from the *Utilities* menu. The *Set to Automatically Poll* dialog box displays.



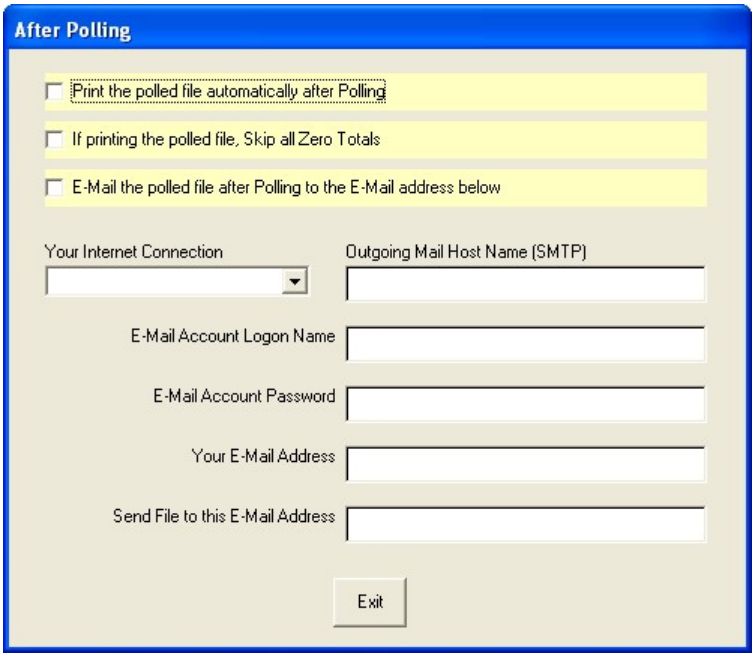
2. Select the first check box if you wish to automatically poll when *SAM2000* is executed. Select the second check box if you wish to close *SAM2000* automatically when polling is completed.
3. Close the window to return to the main menu.
4. Close *SAM2000* and then restart it for changes to take effect.

Note: If you have selected these options and later decide that you no longer want *SAM2000* to automatically poll, or if you need to edit programs, you can turn off (uncheck) these options by selecting Start from you Windows desktop, then selecting *SAM2000* and then AUTOPOLL.exe. The Set to Automatically Poll dialog box displays to allow you to uncheck auto-polling options.

After Polling

You can program *SAM2000* to send your polled files to the printer immediately after polling, or have the polled files sent automatically by e-mail to a pre-selected e-mail address. Choose **After Polling** from the *Utilities* menu. The *After Polling* dialog box for the selected store displays.

Note: Not all ISP's are compatible with the After Poll feature of *SAM2000*. For example, AOL is not compatible with After Polling; AT&T and Road Runner have been tested.



Fill these fields only if the "E-mail the Polled file after Polling to the E-Mail Address below" check box is selected.

2. Click on the check boxes to select Printing or E-mailing the polled file after polling.
3. Select an option form the Your Internet Connection drop down list ONLY IF YOU ARE USING A DIAL-UP CONNECTION.
4. Type in your Outgoing Mail Host Name (SMTP) in the appropriate location. See "Determining the SMTP" on the next page. If you have trouble locating the host name, please contact your e-mail provider. The host names vary greatly depending on the provider.
5. Type in your E-mail Account Logon Name.
6. Type in your E-mail Account Password.
7. Type in your E-mail Address.
8. Type in the address you wish to send the polled reports to in the text box labeled Send File to this E-mail Address.
9. Click on Exit to return to the main menu and save your changes.
10. Start Polling. After polling is completed, the polled file will be emailed to the selected address in the After Polling area.

Determining the SMTP

SMTP is short for Simple Mail Transfer Protocol. If your computer is on a Network see your System Administrator for the SMTP.

The SMTP can be found various ways depending on which Internet Provider and what operating system is used.

Note: The ISP must support SMTP or Sam After Polling will not work!
The ISP must accept Microsoft Outlook or Microsoft Outlook Express or the option in *SAM2000* After Polling will not work.

Example #1: If you are using Win 98 and Outlook Express the SMTP can be found by following the steps below:

1. From the PC desktop click **Start** and then **Programs**.
2. Click on **Outlook Express**.
3. Click on **Tools**.
4. Click on **Accounts**.
5. Click on **Mail**. (The Internet Providers name will appear if it is active.)
6. Click on **Properties**. The incoming and outgoing SMTP's will be displayed. Log the Out Going SMTP characters exactly as they appear. Enter this set of characters exactly as they appear in the "Outgoing Mail Host Name" field.

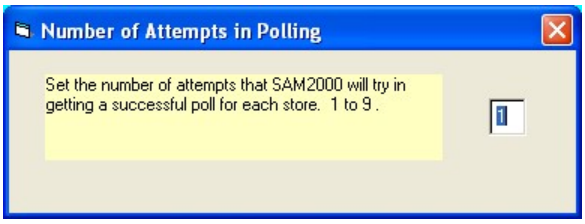
Example #2: If you are using Windows XP, the SMTP can be found by following the steps below:

1. From the PC desktop click **Start** and then **Programs**.
2. Select the Internet Provider Program i.e. **AT&T Connection Services**, then **Customer Care**, and then **System Information**.
3. Click **Account Information** to display the SMTP. Enter this set of characters exactly as they appear in the "Outgoing Mail Host Name" field.

Set Number of Attempts in Polling

You can set the number of attempts that *SAM2000* will attempt to complete a successful poll for each store.

1. Choose **Set Number of Attempts in Polling** from the *Utilities* menu. The dialog box for the selected store displays.

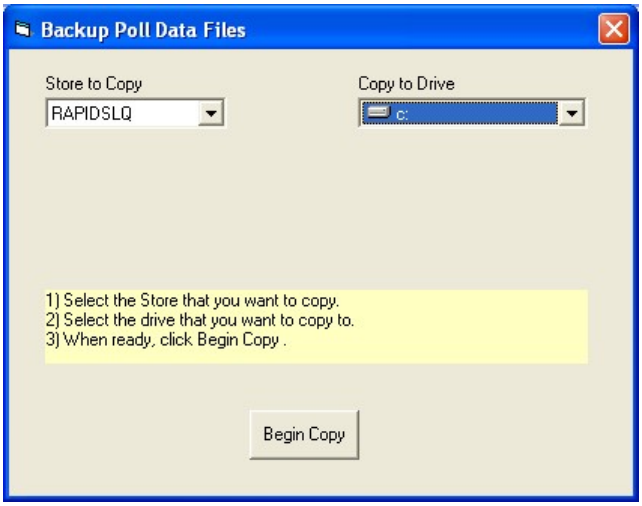


2. Enter a value of 1 to 9. Close the window to return to the main menu.

Backup Poll Data Files

This utility allows you to back up poll files to another drive.

1. Choose **Backup Poll Data Files** from the *Utilities* menu. The dialog box for the selected store displays.



2. Select a store to copy and a copy to drive from the appropriate list boxes. Click **Begin Copy**.
3. The dialog will notify you when the copy is complete. Close the window to return to the main menu.

Delete Inventory History

You can delete inventory history for past years.

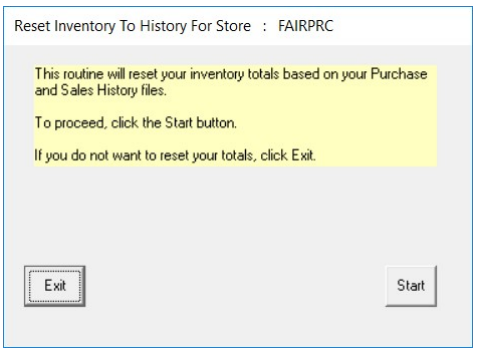
1. Choose **Delete Inventory History** from the *Utilities* menu. The dialog box for the selected store displays.

2. Enter the year you wish history deleted in the Delete Inventory History field.
3. Click **Start Delete**. The dialog box will display Finished when the deletion is complete.
4. Close the window to return to the main menu.

Reset Inventory to History

If for any reason item inventory records are inaccurate or corrupted, you have the option of automatically recalculating and adjusting inventory levels. This routine will calculate purchase history minus sales history and reset the inventory level to the result. This is done for all inventory items at the same time.

1. Choose **Reset Inventory to History** from the *Utilities* menu.



2. Click **Start** to reset inventory totals according to your Purchase and Sales History, or click **Exit** to abort the routine.

Physical Inventory Comparison
Partial Physical Inventory Comparison

These utilities will compare the inventory quantity of the PLU file with that of an external file. The external file can be one that was created by a hand scanner that was used to take a physical inventory count. This file could also be created by an accounting program that has the capabilities to export an ASCII text file.

The Partial Inventory Comparison compares only PLUs where the external file contains data. The Physical Inventory Comparison compares all PLUs.

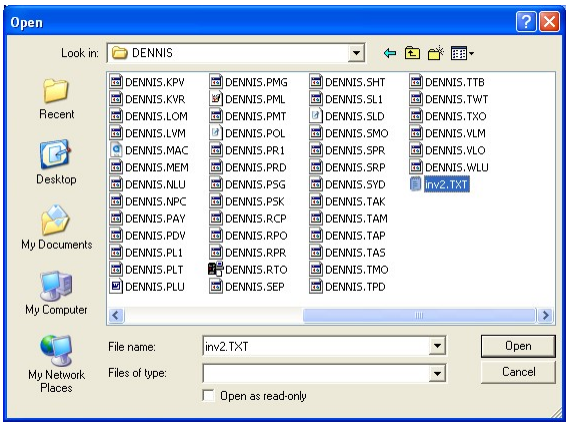
Requirements

In order to compare files, the external file must have the following characteristics:

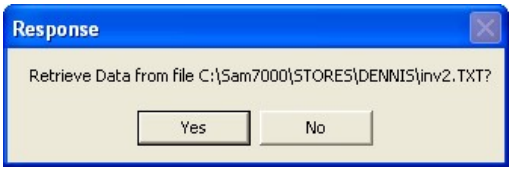
- The name of the file must be COLLECT.DAT
- The file COLLECT.DAT must be in the same directory of the Store name. If you collect data for the store KFC, then the file COLLECT.DAT must be in the path *SAM2000*\STORES\KFC\COLLECT.DAT .
- The file must be a comma delimited ASCII text file.
- A PLU must be on its own line.
- Every Line must end with a carriage return and line feed.
- The first field of the line must be the PLU number, followed by a comma.
- The second field of the line must be the quantity.
- You can have additional fields on the line, however, the comparison program only uses the first 2 fields.

Inventory Comparison Procedure

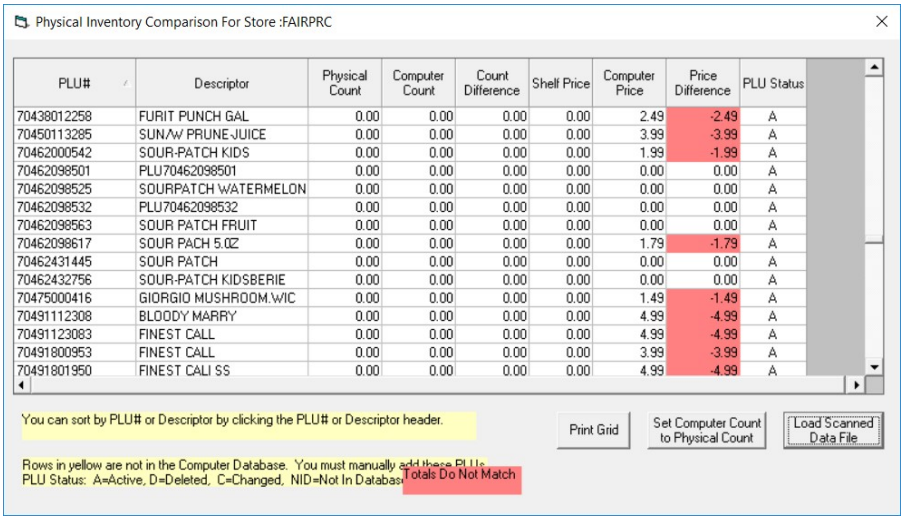
1. Choose *Partial Physical Inventory Comparison* or *Physical Inventory Comparison* from the Utilities menu.
2. Click the **Load Scanned Data File** command button.



3. From the Open dialog, locate the folder and file where you located the inventory record text file. Click **Open**.
4. The Response Dialog displays. Click **Yes**.



5. Click **Yes**. The scanned information will now display.



6. When you choose **"Set Computer Count to Physical Count"**, you will have an "Adjust" row in the Inventory History, Purchase History updating your inventory to the new physical inventory counts you entered into the portable data terminal.

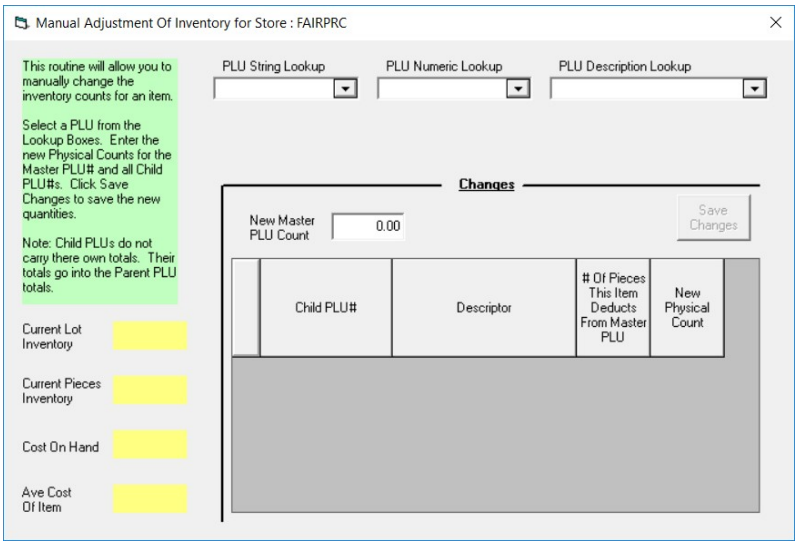
Price corrections must be made manually in the PLU file or on the product in the store, whichever is correct.

7. Click the **Print Grid Button** to print the spreadsheet to your default printer.

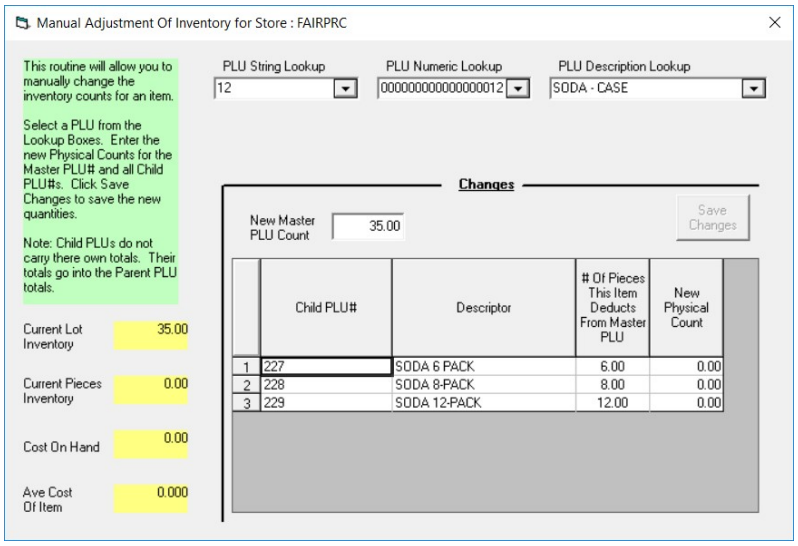
Manually Adjust Inventory

You can manually change inventory counts for an item. This routine will update Total Cost on Hand and Average Unit Cost on the PLU/Inventory screen as well.

1. Choose **Manually Adjust Inventory** from the Utilities menu.

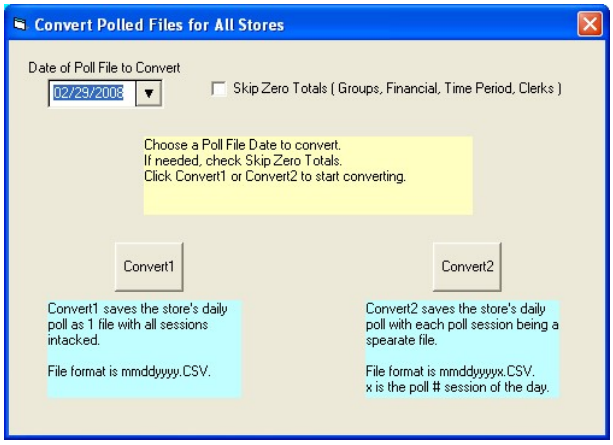


2. Follow the instructions in the green box on the screen.
3. Enter quantity for the master PLU in the **New Master PLU Count** box.
4. Enter quantity for child PLU's in the **New Physical Count** box.
5. Press **Save Changes** to send new counts to Inventory.



Convert Polled File to Comma Delimited

1. Choose **Convert Polled File to Comma Delimited** from the Utilities menu.



2. Click **Convert1** to save the poll file as one report – if you poll multiple reports multiple times a day all the reports will append to the same report file. When you run the **Convert1** all the reports will be in one date stamped CSV file (03032008.CSV).

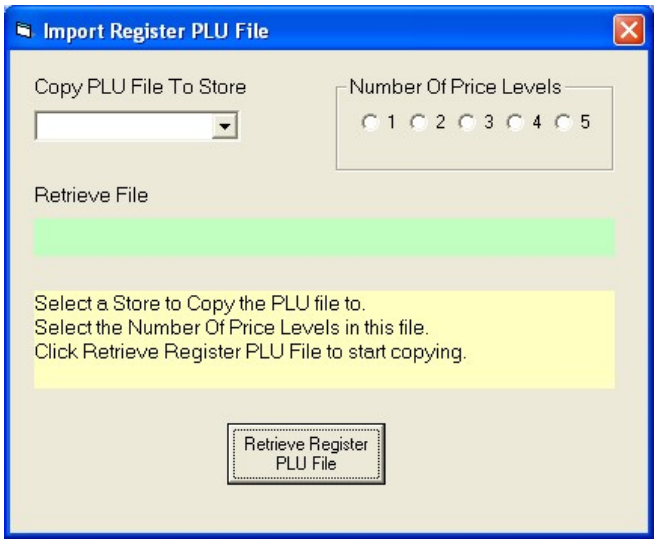
   Click **Convert2** to save report files individually - if you poll multiple reports multiple times a day all the reports will append to the same report file. When you run the Convert2 a date stamped CSV file will be created for each time that you had polled that day. (030320081**,** 030320082**,** 030320083**)**

Import Register PLU File

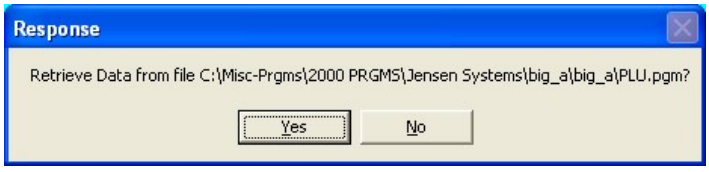
If you have backed up a program from an SPS-2000 to a SD card, you can import the PLU program information into *SAM2000* using the import feature. This is a big benefit for especially large PLU files that can take a lot of time to upload from the ECR.

Note: You need to know the number of price levels of the store file you want to copy.

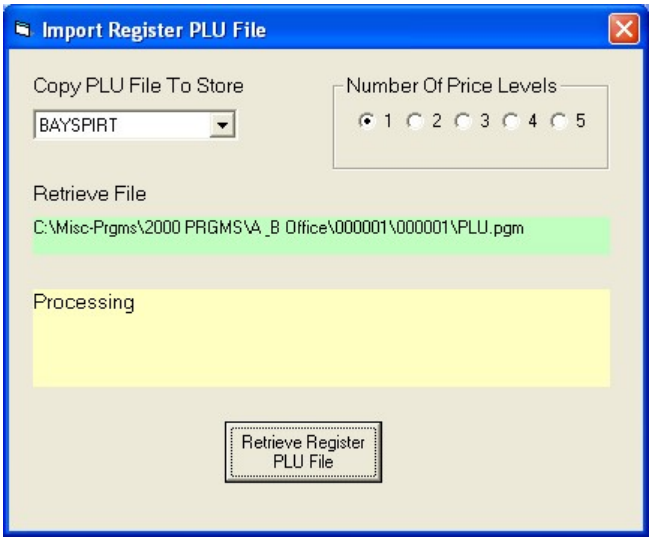
1. Insert the SD card containing program information into the SD reader on the PC running *SAM2000*.
2. Open *SAM2000* and select the store you want to import the PLU file to.
3. Choose **Import Register PLU File** from the Utilities menu. The dialog shown below displays:



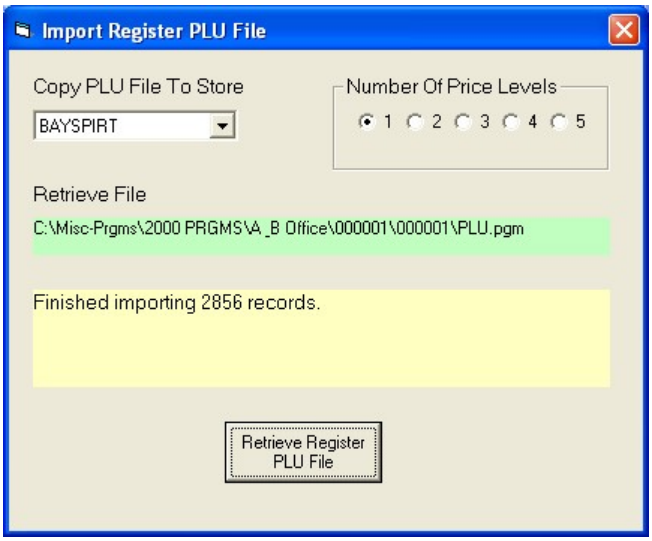
4. Select the Store you wish to copy the PLU file to by selecting the correct store from the drop-down box.
5. Select the number of PLU price levels
6. Click the **Retrieve Register PLU File** command button.
7. Browse to the location of the PLU.PGM file that you want to import. The Response dialog displays.



8. Click **Yes**. If the selections made all match you will see the following Processing message:



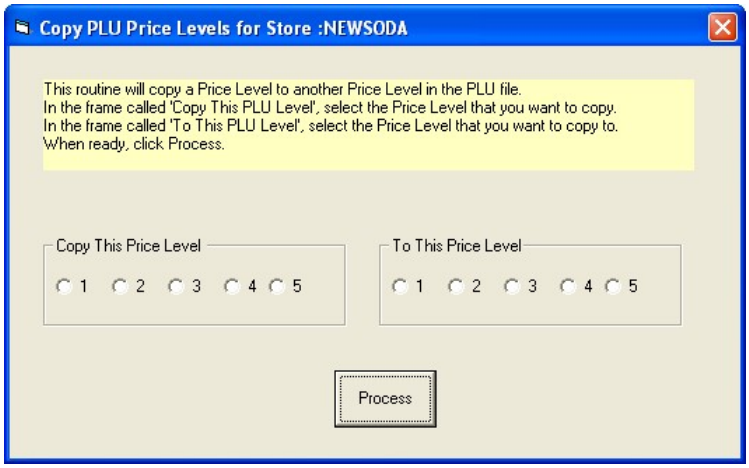
9. When complete, the dialog reports the process is finished.



Copy PLU Price Levels

Beginning at version v1.16.2, you can copy PLU prices from any of the five price levels to any of the levels.

1. Choose **COPY PLU Price Levels** from the *Utilities* menu. The dialog box for the selected store displays.



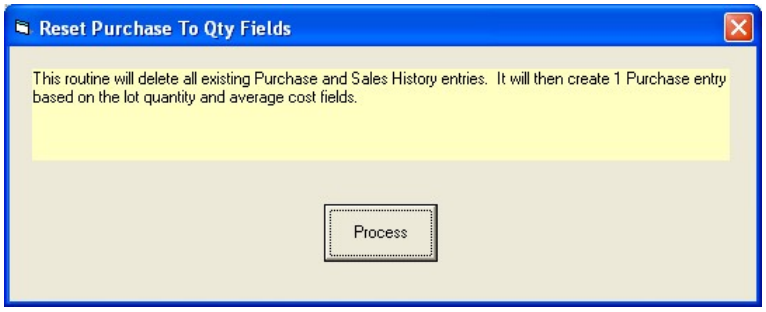
2. Select copy options and click **Process** to copy the prices. The screen sill display "Finished" when complete.

Reset Purchase History To Qty Fields

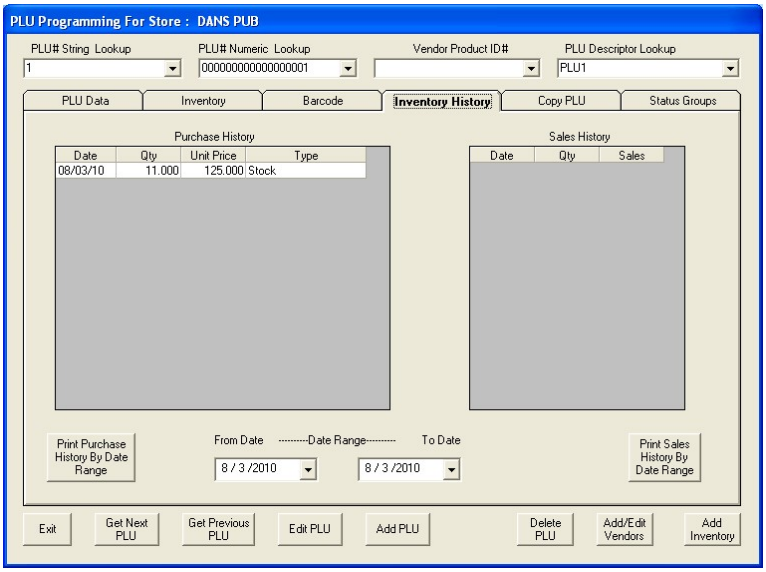
This utility is available at version v1.22.0 and later versions of *SAM2000*. Use this utility to reset inventory levels for all PLUs to expected levels based upon inventory purchase and sales records in the system. This procedure would only be used if inventory records are incorrect/corrupt and you wish to "start over" for the entire PLU file, rather than adjust PLU inventory records individually.

If you use this feature, ALL previous Purchase and Sales History will be lost for all PLUs. You will not be able to recover this data later.

1. Choose **Reset Purchase History To Qty Fields** from the *Utilities* menu. The dialog box displays:



2. Click **Process**. When complete, the dialog will display "Finished".
3. After the Reset Inventory to QTY Fields feature is ran, all previous purchase and sales history are replaced with a single entry in the Purchase History grid (as shown below). Only PLUs in the database that had a QUANTITY ON HAND amount on the PLU will show in the purchase history.



Appendices

Structure of Stores

When you create a new store, you are creating a new sub-directory under the directory *SAM2000* for the store. If you create a store named **BIGBOYS**, the following will be created:

1. A directory named: `\SAM2000\STORES\BIGBOYS`
   This directory holds all the programming files for this store.
2. A directory named: `\SAM2000\BIGBOYS\STORES\POLL`
   This directory holds all the daily polling files for this store.

File Definitions

Category	Extension
Authority level	ALP
Age verification	AVC
Cash drawer options	CDO
Check endorsement message	CEM
Custom report	CSR
Check table file 1	CT1
Check table file 2	CT2
Check table file 3	CT3
Check table file 4	CT4
Tracking file	CTO
Detail printer routing	DPR
DataTran message	DTM
Employee card read format	ECR
Edit employee report	EER
Edit financial report	EFR
EJ & detail printing options	EJD
Employee report messages	EPR
Employee	EPY
Error messages	ERR
Timekeeping	ETK
Financial report messages	FIM
Function keys	FKY
Groups by employee	GBE
Guest check message	GCM
General function	GNO
General printing	GPO
Groups	GRU
Setup information	INF
Ingredient	ING
Jobcode	JCD
Keyboard layout	KLP
KP routing	KPR
KP time period	KPT
KP/KV options	KPV
KV routing	KVR
Logo message	LOM
Level/modifier	LVM
Macro	MAC
Memory allocation	MEM
Not found PLU	NFP
NLU	NLU
Non-PLU programming	NPC
Payrate	PAY
Printer driver	PDV
PLU index	PL1
Temporary PLU file used in upload and download configuration (not an edit file)	PLT
PLU	PLU
Product mix groups	PMG
PLU min level	PML
Product mix time	PMT
Polling setup	POL
Index key file for inventory purchase records	PR1
Inventory purchase records	PRD
PLU status group	PSG
PLU stock	PSK
Recipe	RCP
Report printing	RPO
Receipt printer routing	RPR
Report printing	RTO
Serial port parameters	SEP
Shift time	SHT
Inventory files	SL1
Inventory files	SLD
Inventory files	SMC
S-mode system options	SMO
System printer configuration	SPR
String report	SRP
System descriptors	SYD
Time activated keyboard level	TAK
Time activated macros	TAM
Time activated price level	TAP
Time activated string report	TAS
Table layout	TBL
Training mode	TMO
Time period	TPD
Tax tables	TTB
Tare weight	TWT
Tax options	TXO
Validation message	VLM
Validation/subtotal print	VLO

Structure of Polling Files

When you poll, the session will always create a poll file with the date as the name of the file. For example, if you poll on 09-23-2004, for store **BIGBOYS**, the session will create a file on the hard disk named ***SAM2000*\BIGBOYS\POLL\09231996.POL**. If you poll this store a second time on the same day, it will append the data to the end of the existing file.

The structure of the poll file is as follows:

- All data is **ASCII**.
- A polling session for a store is everything that is done from the moment the PC calls the store, up to the hang-up with the store.
- The first line saved to disk of any polling session is:

  ```
  BIGBOYS/09-23-2004/20:12:39
  ```

- The first three characters on the line is ASCII character decimal 16, a right arrow. This designates that this is the start of the polling session. The name of the store follows, a forward slash, the date, a forward slash, and the time in hours, minutes and seconds.
- The last line of the entire session will be saved as:

  ```
  SESSION END
  ```

- The last three characters of the line is ASCII character decimal 17, a left arrow. This designates that this is the end of the polling session.
- If you do not define any elements in your polling session, you would have a polled file that would look something like this:

  ```
  BIGBOYS/09-23-2004/20:12:39
  SESSION END
  ```

- When you define your polling session by choosing elements in the store's session data, the polled data will be save below line 1:

  ```
  BIGBOYS/09-23-2004/20:12:39
  ```

  and the last line:

  ```
  SESSION END
  ```

- The time and date on the first line of the session is the time and date that the session started. The second line in the file is the element that was polled. The line ends with a time and date stamp. This stamp is the date the ECR was actually pre-polled. This stamp can be different than the header stamp (line 1). If the software finished pre-poll and the session ended abruptly, then next time that you poll (possibly a day later) you will read the data sitting in the pre-poll area.

- The last line saved for every element is:

  ```
  REPORT END
  ```

  This line ends with 2 left arrow characters.

- All data for the given element will appear between the 2 lines with 2 arrows. Data lines do not start with any arrows.

- The Clerk report will use a single arrow to designate the data pertaining to the clerk. A clerk report can have up to 99 clerks, so we have to be able to distinguish from clerk from another. See the example that follows.

Let's say our session consisted of the two elements: X1/Groups and X1/CLERK. Your file *SAM2000*\BIGBOYS\POLL\09232004.POL should look like this:

```
BIGBOYS/09-23-1996/20:12:59
X1/GROUPS     /09-23-2004/20:13
COUNT      TOTAL
Group  1            0.00           0.00
Group  2            0.00           0.00
Group  3            0.00           0.00
Group  4            0.00           0.00
Group  5            0.00           0.00
Group  6            0.00           0.00
Group  7            0.00           0.00
Group  8            0.00           0.00
...              ...              ...
Group 98            0.00           0.00
Group 99            0.00           0.00
REPORT END
X1/CLERK      /09-23-2004/20:14
COUNT      TOTAL
CLERK 1
CUST#/NETSALE         1           14.31
NONTAX                3           14.31
TAX SALES 1           0            0.00
TAX SALES 2           0            0.00
TAX SALES 3           0            0.00

LINK GROUP 20      0.00            0.00             0
CLERK END
CLERK 2
CUST#/NETSALE         1           14.31
NONTAX                3           14.31
TAX SALES 1           0            0.00
TAX SALES 2           0            0.00
TAX SALES 3           0            0.00

LINK GROUP 20      0.00            0.00             0
CLERK END
REPORT END
SESSION END
```

PLU Structure

SAM2000 PLU STRUCTURE			
<storename>.PLU			
FIELD	START	LENGTH	TYPE
Status	1	1	A (ACD)
PLU#	2	18	N
Descriptor	20	20	A
Link Group 1	40	2	N
Link Status Group	42	4	N
Mix & Match Table	46	4	N
Piece Count	50	4	N
Recipe Table#	54	4	N
Product Mix Group#	58	4	N
Stock Link Plu#	62	18	N
Modifier Qty	80	4	N/2
Function List Link	84	4	N
Inactive	88	1	CHECK
Preset	89	1	CHECK
Allow Price Override	90	1	CHECK
Allow Price Change	91	1	CHECK
Print NV Image	92	1	CHECK
Price/Halo 1	93	8	N/2
Price Level 1	101	2	N
Price/Halo 2	103	8	N/2
Price Level 2	111	2	N
Price/Halo 3	113	8	N/2
Price Level 3	121	2	N
Price/Halo 4	123	8	N/2
Price Level 4	131	2	N
Price/Halo 5	133	8	N/2
Price Level 5	141	2	N
Min Level Count	143	6	N/2
Inv On Hand (lot)	149	8	N/2
Inv Cost on Hand	157	9	N/2
Inv On Hand (Piece)	166	8	N/2
Pieces In Lot	174	5	N/2
QTY To Deduct	179	5	N/2
Master PLU#	184	18	N
Vendor Prod ID #	202	18	A
Full Description	220	30	A
UOM (Lot)	250	4	A
UOM (Piece)	254	4	A
Primary Vendor #	258	10	A
Secondary Vendor#	268	10	A
Shelf Location	278	3	A
future	281	22	space
CR/LF	303	2	
Total Record Length		304	

Troubleshooting Common Problems

Hardware

Refer to "Cabling Diagrams" on page 106 to verify that you direct or modem connection cable is configured properly.

Note: US Robotics Sportster™ Modems are recommended for remote connections (for both PC and ECR sites).

Software

SAM4s *SPS-2000 Programming*

1. Set S-Mode options.
    a) Choose S-Mode System Options. Verify that Store # is set to the same number as set in store data in *SAM2000*.
    b) Choose S-Mode Define Port. Verify that the device "POLLING" is assigned for the port that is used for communications. Verify that the BAUD rate is the same as set in store data in *SAM2000*. Verify that no parity, 8 character bits, 1 stop bit are selected.

Computer Software

1. Install *SAM2000*.
    a) Verify that the hardware key is in place. Software can be installed on a PC without the key, but it can be used for program save/load only.
2. Create a new store by selecting **Create New** from the *Stores* menu. See "Creating a New Store" on page 16.
    a) Verify that the store number In the *Store#* field, is the same as the store number that is programmed on the S-Mode System Option screen.
    b) **Only enter a phone number** here if you are using a modem to poll data.
    c) If your PC is using any *Microsoft Windows ™* operating systems or any software application that has a communications-port configured, (for example a modem, mouse or other device) you may have to check on these settings to make sure there is not a conflict on the same communications port.
    d) Enter information in the *Modem Initial String* field only if you have a modem that needs to be properly configured to communicate.

Starting Operations

YOU MUST DO THIS FIRST!

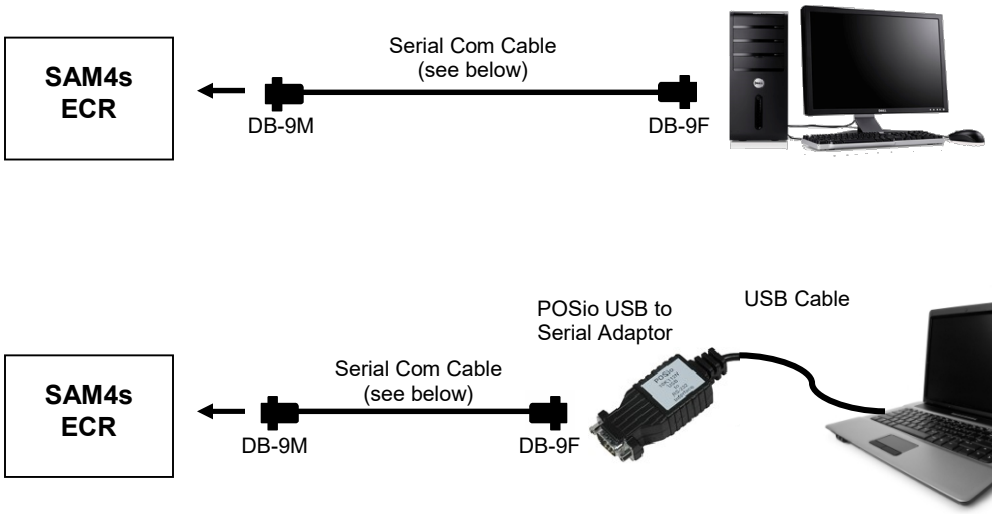
Before you can attempt communications or editing, you must create at least one store. Refer to "Creating a New Store" on page 16.

After creating a store, you must Receive (Upload) information from the ECR. Refer to "Receive Programs from ECR (Upload)" on page 50.

1. Start by uploading the memory allocations, do this by going into communications and entering receive data or upload; check for all program data.
2. If memory allocation is successful, then communication settings are correct. You can now check all and upload all programs.
3. If the above works, then you are ready to program either from the *SAM2000* software or from the register.

Cabling Diagrams

Typical SAM ECR to PC Connections



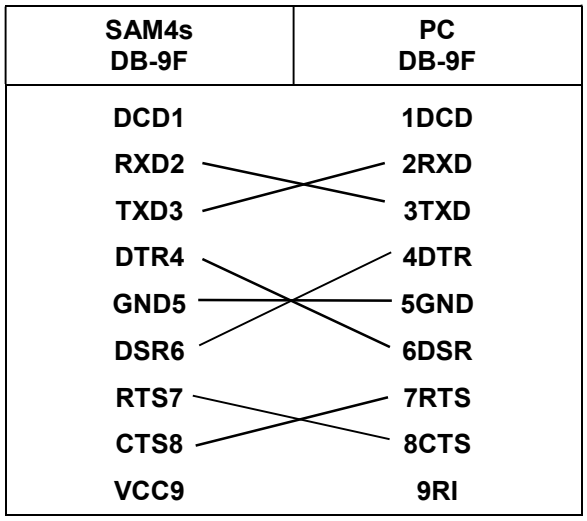
Note: If you are connecting the ECR to a PC or Laptop that has no serial port, you must use a USB to Serial adaptor as shown above. CRS offers a USB to Serial adaptor from *POSio* that has been tested and is known to work with SAM polling software products (CRS item #250119).

Cable Pinouts

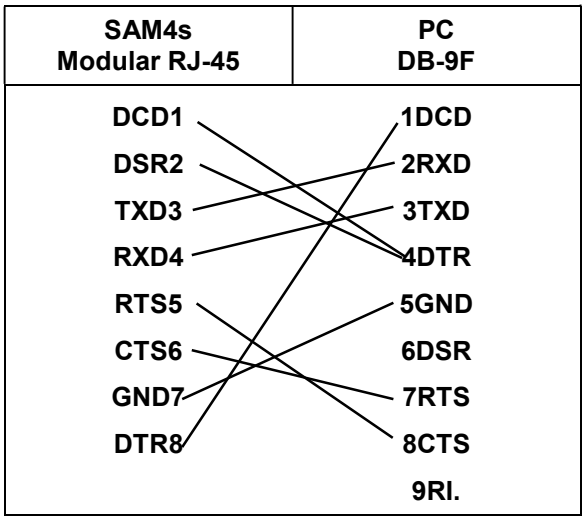
You can configure cables yourself with the diagram provided here, or you can order the appropriate cables from CRS Parts at 1-800-333-4949.

Direct Connection

Part # 522120

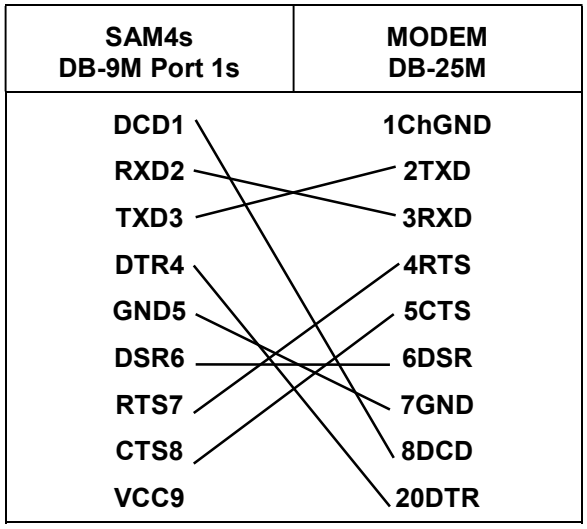


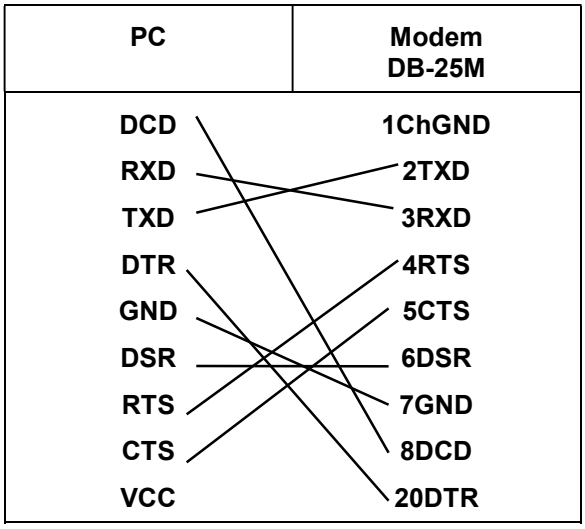
Part # 522124



Modem Connection

Part # 522034





Inventory File Management

If *SAM2000* is tracking inventory, it will create a file called INVZ1.POL, when polling PLUs.

This file is created in the Store Name folder.

***SAM2000*\Stores\Mystore\INVZ1.POL**

This file is a text file that consists of all PLUs that were polled. Each PLU will have its own line that is structured as follows:

(YYMMDD) (PLU# - 14 characters) (Quantity Sold – 11 characters) (Dollars – 11 characters).

Each line is 42 characters long.

Positions

1 to 6	Date. No "/" separation. First 2 characters is the year.
7 to 20	PLU# (filled with leading zeros)
21 to 31	Quantity amount, with decimal and 2 places right of decimal.
32 to 42	Dollar amount, with decimal and 2 places right of decimal.

Each line has a carriage return and line feed appended to the end.

When *SAM2000* is finished polling a store, if the INVZ1.POL file exists, *SAM2000* will do the following:

1. Open the INVZ1.POL file
2. Read each PLU line
3. Lookup the PLU in the PLU database
4. Enter the totals into the Sales history file
5. Deduct the totals from inventory.

If everything goes perfect, this routine will work 100%. However, problems can pop-up. Data in this file can become corrupt. PLU lines could have garbage characters in them or the lines could be shorter or longer than the 42-character length. When *SAM2000* reads a PLU line from the INVZ1.POL file, it must be a 42-character line in order to update. If the line is not 42 characters, then *SAM2000* saves this PLU line in a file call BADINVZ1.POL. This file is also located in the Store Name folder.

If a BADINVZ1.POL file is created, a red message box will appear in the Polling Screen after polling. If the user clicks this red message box, a screen will appear that shows any store(s) file path for the BADINVZ1.POL file.

Example: If you were polling 2 stores, and both had a bad PLU in INVZ1.POL

You would see 2 entries:

SAM2000\Stores\Mystore1\BADINVZ1.POL

SAM2000\Stores\Mystore2\BADINVZ1.POL

Click the Print button to print this file message out. After printing, delete this message. If you don't delete this message, every time you go into polling, you will see the red message alert.

Next step is to Exit *SAM2000*. From your desktop, click on My Computer and browse until you find the above files. Open each file, one at a time, using Notepad. You may want to print this file through Notepad. When you are finished viewing this file, delete it. Otherwise this file will continue to trigger the red message alert. Also, if you don't delete this file, these bad PLUs will stay in this file and any new bad PLUs will just append to the end of this file. This will result in having to examine the same PLUs over and over.

You will need to analyze the data in this file. You might be able to make sense of the PLU entries. You will then be able to re-enter those sales.

If the line is more than 42 characters in length

Look at each line. If you see a line that is more than 42 characters in length, you probably have 2 PLUs combined together. The best way to look at this line is to start at the end of the line. Work towards the left, and see if a PLU number looks familiar. Also, see if you can spot the date field. Use the file structure above to help you. Remember that the date field starts with the year. If the date was Feb 3, 2006 (02/03/06), then the date field would be 060203. Once you determined the date and PLU, you should be able to find the quantity and dollar amount. Again, refer to the PLU structure above. Write this entry down on paper. Cross out the good PLU data and see if you can determine the balance of the line. Chances are the first PLU didn't complete all its information. You might have enough characters to look at to determine the date and PLU number. Write down whatever you can find from this line. When finished, go into *SAM2000* and Print Daily Poll file. You should be able to see this PLU under Polled PLUs. Now, write down your quantity and dollars.

If the line is less than 42 characters in length

Chances are you won't have a line that is less than 42 characters in length. If you had such a line, you would not have a carriage return and line feed at the end of this line. Therefore, the next PLU would have to start at the end of this short line. This would result in a line that is greater than 42 characters. However, if by chance you had a short line, start at the beginning and analyze it the same way you would analyze the long line.

Enter The Bad PLUs Into Inventory

In *SAM2000*, Main Menu, Select Edits, PLU, Inventory, Add PLU Sales.

This routine will allow you to enter the bad PLUs that you were able to correct. Upon exit, these entered PLUs will go into the Store's INVZ1.POL file. The next time you poll, these PLUs will be updated to inventory along with the new PLUs that were sold.

Why does the INVZ1.POL file have bad data?

Probably 98% of the time, bad data is a result of voltage fluctuation at the PC or cash register. Poor voltage, such as spikes or brown outs, really causes problems with the memory of the electronic device. The other 2% of the time is usually a hard drive or ram that is failing in the PC. You could also have ram failure in the register. You can minimize these problems or most likely eliminate them by using a good power protection device for your PC and cash register. Talk to your cash register or computer dealer about good power protection devices.

Inventory Products with Multiple Units of Measure

SAM Inventory users can now easily track inventory when multi-unit packages of food or beverage items are broken down and sold in different units of measure. This feature allows retailers to maintain the inventory under the largest purchased unit – the "master" PLU, while pieces of the master unit sold under different barcode numbers are also subtracted from the "master" inventory in the appropriate quantities.

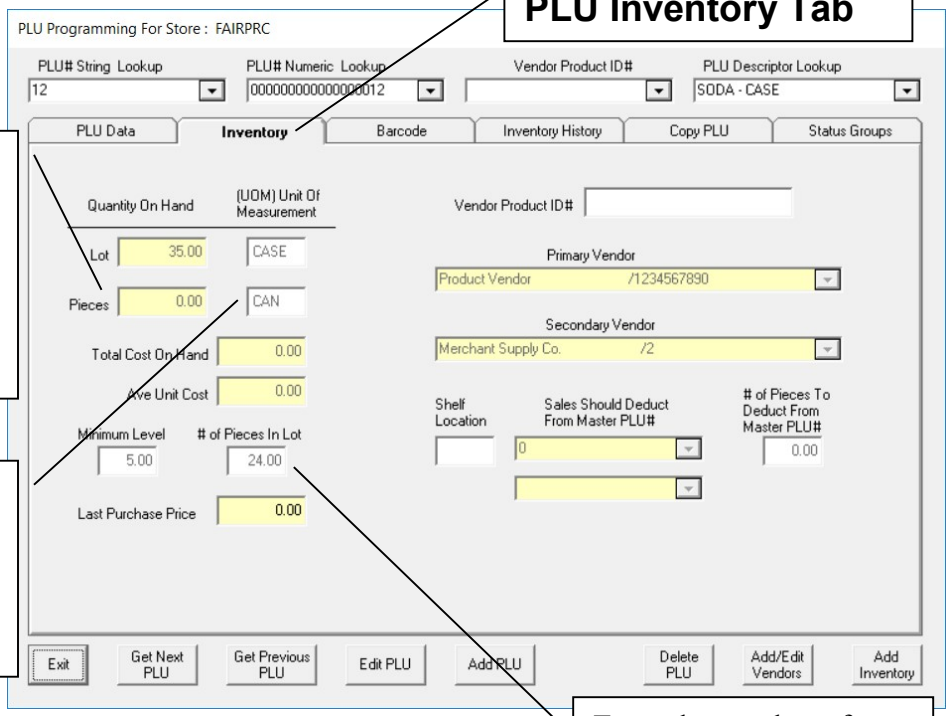
Summary

For example, a retailer may purchase only cases of 24 twelve-ounce Coke cans, then re-package 12-packs, and also offer single cans for sale. The "master" item in this example is the case, consisting of 24 pieces. The "child" items, 12-packs and single cans have unique barcodes and report the number of pieces used to the "master" item, where consolidated inventory records are maintained.

The table below summarizes the critical information to be programmed:

Item	Barcode #	# of Pieces in Lot	Deduct from Master PLU #	# of Pieces to Deduct
Coke Case	4900001278	24		
Coke 12-Pack	991234		4900001278	12
Coke Can	496340		4900001278	1

Master PLU Setup

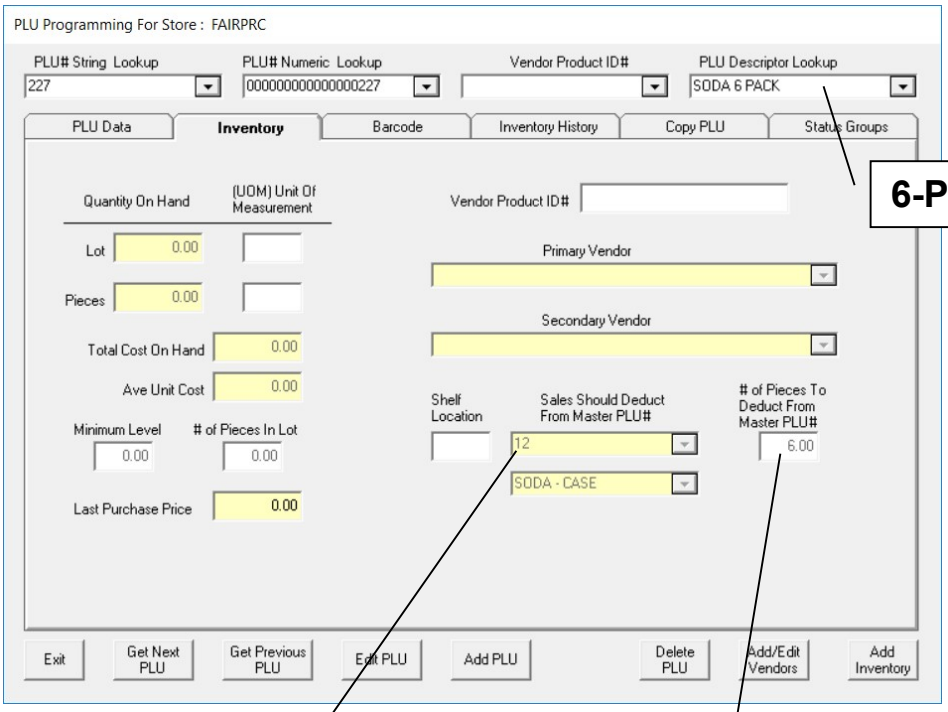


The Master PLU keeps accurate inventory by lot and piece for product sold under master, as well as child PLUs.

Enter 4-Character Descriptors for the "Lot" and "Pieces", in this example "CASE" and "CAN"

Enter the number of pieces (cans) in the lot (case).

Child PLU Setup



6-Pack Inventory

Enter the number of the "Master" PLU where inventory records are kept.

Enter the number of pieces (cans) that should be deducted with the sale of each unit

How the Inventory Works

A retailer buys 100 cases of Coke. In the Sam Inventory software, the manager will enter the 100 cases of Coke received into the master PLU for Coke cases. Select **Edit ECR Data** from the task bar. Select **Inventory/Add Inventory** and chose if adding by item/vendor/ or shelf.

Select the PLU # for the master PLU Coke case from the drop-down box, enter the quantity and the unit price information. Click the **Add PLU Entry** button and then click the **Send Totals to Inventory** button. PLU # 4900001278 now shows 100 units on hand when you view the PLU record.

The manager opens 2 cases of Coke and puts the 48 cans into the cooler for individual sale. He also takes 10 cases and splits them into 2 parts for sale as 12-Packs. He now has 20 12-Packs, 48 single cans of Coke, his total inventory is still 100 cases, some of the cases are just broken down.

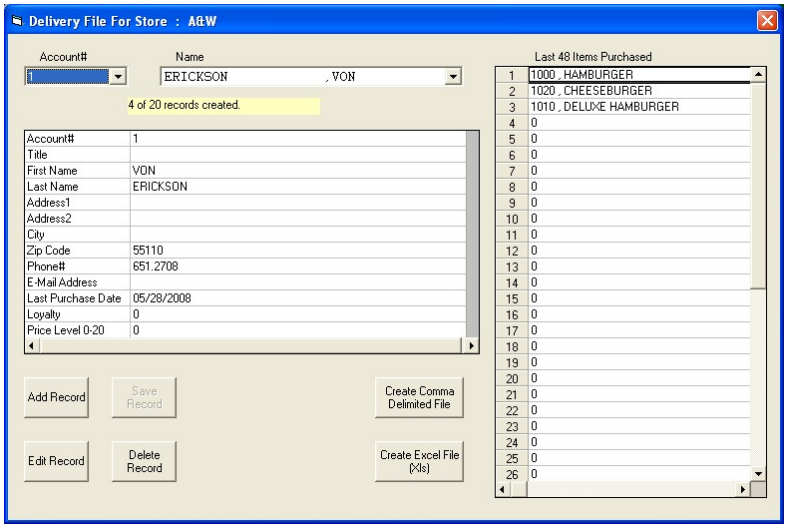
Throughout the day the retailer sells 19 full cases of Coke, 11 - 12-Packs, and 28 single cans of Coke. At the end of the day the manager polls a Z1 PLU report at the inventory software. When finished Polling, he looks at the master PLU# (4900001278) for Coke case in the Inventory software. The inventory shows he has 74 cases and 8 cans of Coke, if you do the math you will find this is correct.

It is important that the inventory for the master PLU file is maintained. If you have a child PLU assigned to a master PLU that is no longer in the PLU file, the sales totals will deduct from that child PLU. No inventory is added to the child PLU so the inventory on the child PLU will always be negative.

All PLU adjustments, editing and additions are done through the Sam Inventory software, no PLU maintenance should be done at the register. Once the base PLU file is created at the register and uploaded to the software all subsequent additions, deletions, and maintenance is done from the software.

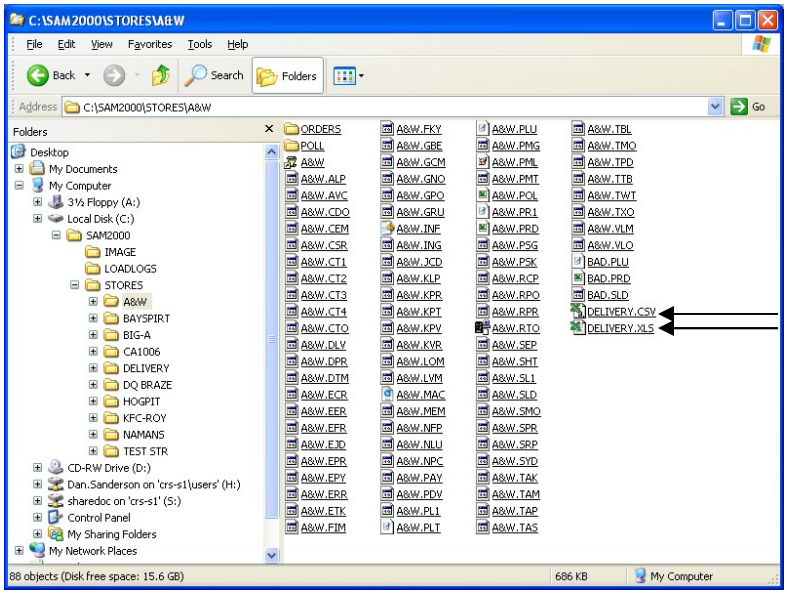
Export Delivery File

1. Choose Delivery File from the Edit ECR Data/P-Mode Programming menu. The Delivery file for the selected store displays:

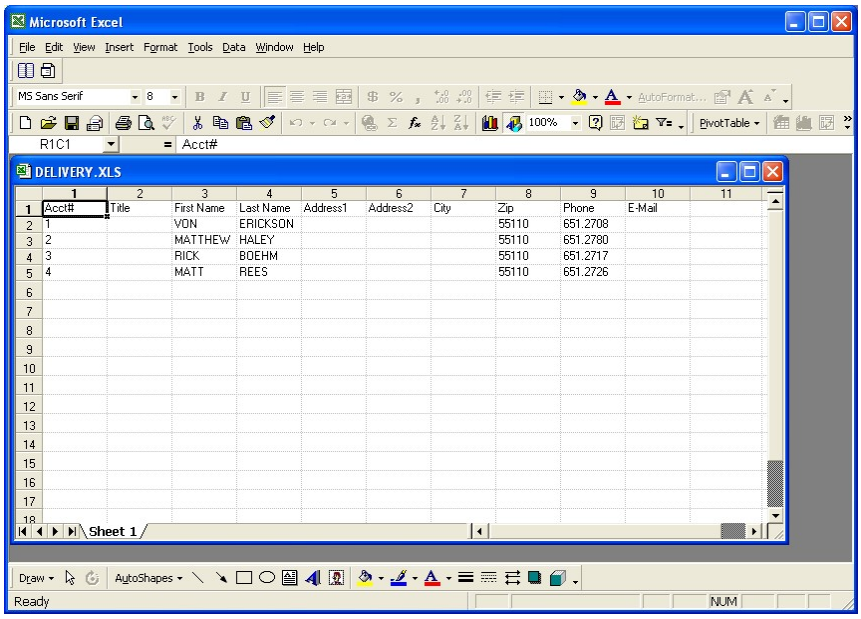


2. The delivery accounts, record fields and purchase information are displayed. Records can be added/edited as they would be at the SPS-2000 register.

3. If you wish to access the delivery records with another program for marketing/mailing purposes, you can export the file to a comma delimited file or Excel file by choosing the appropriate command button. The files are created and placed in the store root folder.



4. The delivery file will appear in Excel as the sample below, ready for use by Microsoft Office™ mail merge or other applications.



Acct#	Title	First Name	Last Name	Address1	Address2	City	Zip	Phone	E-Mail
1		VON	ERICKSON				55110	651.2708	
2		MATTHEW	HALEY				55110	651.2780	
3		RICK	BOEHM				55110	651.2717	
4		MATT	REES				55110	651.2726	

Manual Revision Record

Edition	Date published	Revision contents
V1.0	4/29/2006	
V1.1	5/28/2008	Updated to reflect software version 1.12.0
V1.2	7/14/2008	Updated to reflect software version 1.14.0
V1.3	9/15/2008	Updated to reflect software version 1.15.0
V1.4	10/2/2008	Updated to reflect software version 1.15.1 (Reset Inventory to History, pg. 83)
V1.5	12/15/2008	Updated to reflect Copy PLU Price Level (Utility menu) for any price level v1.16.2
V1.6	4/9/2009	Added list of reports available by polling
V1.7	11/13/2009	Software Installation and Connection information updated
V1.8	10/12/2010	Print/Daily Poll File/PLU File Only updated and renamed Print/Daily Poll File/PLU Sales Analysis. Added Utilities/Reset Purchase History to QTY Fields.
V1.9	1/24/2012	Update After Polling instructions
V1.10	3/28/2013	Requires Windows XP or later operating system.
V1.11	10/23/2013	Added Inventory Adjustment type “Adjust” from the Add Inventory by Item screen to allow a (-) stock adjustment. Added POSio USB to Serial Converter information.
V1.12	5/5/2017	Updated Cost Report
V1.13	5/18/2017	Updated Cost Report information, Parent/Child and various other programming areas.