Easy Model Railroad Inventory Manual

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Table of Contents

Foreword 0

Part I Welcome 6

Part II Getting Started 6

Part III General Program Hints 7

1 Main Menu Bar 8
Outlook Style Menu 9
2 The First Time 10
3 Your Information 13
4 Preferences 13
5 Button Definitions 15
6 Lookup Files 17
7 Custom Views 18
8 Sorting Selected Column 18
9 Hide or Unhide Columns 19
10 Date Shortcuts 21

Part IV Cross Reference 22

Part V Query Designer 28

Part VI View Designer 32

Part VII Spreadsheet 35

1 Other than Excel 40

Part VIII Report Options 40

1 Report Designer 42
2 Report Examples 51
Freight w/pictures 52
Freight Insurance w/pictures 52
NMRA Valuation Sheet 53
Show List Report 54

Part IX Import Options 54

1 Equipment 59
Freight, Passenger & Non-revenue 60
Locomotives 62
Set Equipment Values 63
Consignee/Locations 64

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2 Library 64
3 Structures 64
4 Electronics 65

Part X Export Options 65

Part XI Rolling Stock 69

1 Freight Cars 70
2 Locomotives 73
3 Related Files 76
AAR Type 76
Default AAR Types 78
Coupler 83
Manufacturer 83
Railroad 84
Default Road Names 85
Status 90
Truck 90
4 Photographs 91

Part XII Maintenance History 92

1 View/Print 96
2 Additional Use 98

Part XIII Operations 98

1 Consignee/Destinations 99
Batch Assign Cars 106
2 Shipper 110
3 Industries and Products 112
All Products 114
4 Car Cards and Waybills 114
Printing Car Cards 115
Printing Waybills 117

Part XIV Running Trains 119

1 Create a Schedule 119
Assign Cars to your Trains 122
Orphaned Assigned Car 124
Assign Locomotives to your Train 124
2 Report Designer 125
3 Print Schedule 125
Time Order 126
Single Page 126
Multiple Pages 127
Print as Graph 128
4 Fast Clock 133

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Stop Watch 134
5 Print a Switch List 135
6 Process Train 136

Part XV Graph Examples 138

1 AAR Distribution 139
2 Freight by Railroad 139
3 Equipment Service 140
4 Locomotive Model 141
5 Locomotive by Railroad 142

Part XVI NMRA Insurance 143

Part XVII Electronics 145

Part XVIII Structures 147

Part XIX Tools and Miscellaneous 149

Part XX Calculation Functions 151

1 Length Wizard 151
2 Speed Wizard 153
3 Weight Wizard 153

Part XXI Library Maintenance 154

1 Resources 155
MARC Function 156
2 Authors 159
3 Publishers 160
4 Dewey Decimal 161
5 Print Spine Labels 163
6 Library Reports 164

Part XXII Project Planning 166

1 Parts 169
2 Reports 170
3 Additional Use 171

Part XXIII Favorites 172

1 Internet Sites 172
2 Your Hard Drive 174

Part XXIV Backup/Restore 180

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1 Backup 181
2 Restore 183
3 Error Codes 184

Part XXV Version History 186

Part XXVI Contact Bob 197

Index 200

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1 Welcome

As I explored the idea of operating my layout in a more prototypical manner, I thought about having destinations: consignees and yards, and eventually the products that would be moved on the railroad. A destination may be a consignee or a yard or maybe off the layout. The purpose of this software is to be able to know where a car is and where it can go.

Although there are many entry fields available of each item, remember only the required fields must be filled out. Leaving out most of the fields that are not required will not effect the operation of the software, however, the more data you can supply the better. This software is designed for anyone (novice to Master Model Railroader) wanting to maintain their valuable model railroad possessions and do operations on their railroad.

Entering Equipment:
The first step is to have an inventory of your equipment, but this is not the first step in entering data into the software. This includes freight cars, passenger cars, Maintenance of Way (MOW) equipment, non-revenue equipment, and locomotives. Entering this information can be a tedious task if done one at a time. To help speed this up we have included import functions for equipment, Association of American Railroads (AAR) codes and descriptions, and the road names also included are import features for structures, electronic equipment and books. An explanation and examples of Excel (XLS) files are pictured in this document as an example of importing your data.

Locations used for Operations:
The INPUTOUTPUT.TXT file, available from the NMRA Operation SIG Internet site, has been imported into this application.

The OPSIGSTH.TXT is a tremendous resource any model railroader will find invaluable in finding the names of industries that existed for your era in the cities and towns you have on your layout. This list will give you not only ideas for what types of industries but their names and the products they received and shipped, plus any byproducts that may result from the manufacturing process.

The operating concept is to coordinate with the Car Card forwarding system. Start with the same terminology and add what is needed to fill out the concept. Using the cards will not be required.

When selecting cars for your train if a car is located at a consignee site it is presumed, the car has been unloaded or loaded and it needs to be picked up and routed to the home road or another destination on the layout.

Once the trains are built, a switch list can be printed. When each train has completed its route a click of a button is all that is required to update all the location fields for each car in the equipment file. At that point, you will be ready for the next operating session.

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2 Getting Started

Getting started on the right track will make using Easy Model Railroad Inventory a pleasant experience. Like all software applications, there is a learning curve. I hope that the learning curve with Easy Model Railroad Inventory will be an easy one to negotiate.

Your Information and Preferences:
You will want to enter your personal information and preferences before starting to use Easy Model Railroad Inventory. This information is used on reports and as defaults when entering new information. Using preferences will make entering your data faster.

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Installed Lookup Files:
Next, you will want to check the AAR type and railroad names files to be sure the AAR codes and report marks you use on your railroad are listed.

There must be an AAR type for each piece of equipment or a model descriptor if it is a locomotive. There is a related lookup file for this information that is maintained by you. This way you may use the standard AAR designators or your own.

Another example is the railroad name file. This information is required when entering a new piece of rolling stock. The default installation will add the Road Name file which contains a large number of entries. We do not claim all railroads are included and it is up to you to check for the railroads you will need for your model railroad. In addition the source for the railroads we have pre loaded was Bruce Chubb's book ". He does not use the ampersand symbol. For example the reporting mark for the Norfolk and Western is NS, not N&W that we all associate with the railroad.

We supply many industries and their related products. These files were created using the data files on the NMRA Operations SIG site.

Data Entry:
The required fields are blue so the user will know which ones must have information. An example is the road number field it must have a number. You can have duplicate numbers because many of us do, but ideally the road numbers will be unique.

Many fields do have lookups but are not required to use Easy Model Railroad Inventory. On the other hand if all or some of this information is entered you will have a much more pleasant experience using Easy Model Railroad Inventory.

Although there are many entry options available of each item, remember only the required fields must be filled out. Leaving out most of the fields that are not required will not effect the operation of the software, however, the more data you can supply the better. This software is designed for anyone (novice to Master Model Railroader) wanting to maintain their valuable model railroad possessions and do operations on their railroad.

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3 General Program Hints

All entry fields in blue are required. Some require data determined by the user. Others need specific data stored in related files. Although there are many entry options available of each item, remember only the required fields must be filled out. Leaving out most of the fields that are not required will not effect the operation of the software, however, the more data you can supply the better. This software is designed for anyone (novice to Master Model Railroader) wanting to do operations on their railroad.

Most entry fields will automatically capitalize correctly, as data is entered. Please set the CAPS LOCK key off. If left on it will interfere with using the auto complete function.

There is an auto complete function associated with many entry fields. This allows you to type only a few letters of previously entered data. This speeds up data entry.

Many of the list boxes allow the user to change the sort, in either ascending or descending order. The column that is the current active sort and search has an arrow pointing either up or down signifies ascending and descending order. To change the sort column or sort order left click on the column header. See column searching and column sorting for more information.

There may be some data columns included in a list box you may not want to see, either temporarily or permanently! You can hide a visible column by holding down the CTRL key and pressing the left

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mouse button while the pointer is on any column header. This opens a menu allowing you to select the column to hide or restore. The program from one session to the next will retains any changes made.

Also see Button Definitions

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3.1 Main Menu Bar

Easy Model Railroad Inventory has multiple ways to access the different parts of the program. One of the most common is the main drop down menu system that has become a MS Window standard. There is also a toolbar with buttons to access the major maintenance functions of the program. Lastly, there is the Outlook style menu giving quick access to the most used functions of the program. These are grouped by

Click File to access:
Print Setup - standard Windows dialog,
Backup/Restore - closes Easy Model Railroad Inventory and open our backup and restore function,
Preferences - set and maintain the default value to help speed data entry,
Your Information - maintain information about you and your railroad,
Calculators - access the Scale Wizard and Speed Wizard,
Initialize Equipment - set values for selected existing equipment records,
Import - import major file values options, including rolling stock, and utility files,
Export - export equipment records to Excel, HTML, and other file formats,
Exit - close Easy Model Railroad Inventory.

Click Edit to access:
Standard Windows cut, copy, and paste functions.

Click Freight to access freight car, passenger car, MOW, and non-revenue functions:
Maintain,
Reports - cascades to multiple report options,
Utility Files - cascades to multiple utility file maintenance options,
Graphs - cascades to multiple graph options,
NMRA Insurance Form,
Spreadsheet Designer, and
Cross Reference.

Click Locomotive to access locomotive equipment functions:
Maintain,
Reports - cascades to multiple report options,
Graphs- cascades to multiple graph options,
NMRA Insurance Form,
Spreadsheet Designer, and
Cross Reference.

Click Operations to access maintenance functions:
Consignee
- Maintain
- View Consignee Cars
- Report Designer

Shipper
Cars Cards and Waybills

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Print Car Cards
Print Waybills
Print Data w/Photos
Industries
Products

Click Destinations to access consignees, and yards on your layout:
Maintenance.

Click Manufacturers to access:
Maintenance.

Click Library to access:
Maintenance,
Report Designer - design your own reports,
Author - maintenance,
Publisher - maintenance,
Reports - cascades to multiple report options,
Spreadsheet Designer and
NMRA Insurance Form,

Click Structures to access:
Maintenance,
Report Designer - design your own reports,
Spreadsheet Designer and
NMRA Insurance Form,

Click Electronics to access:
Maintenance,
Report Designer - design your own reports,
Spreadsheet Designer and
NMRA Insurance Form,

Click Planner to access:
Maintenance,
Parts,
Maintain.

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3.1.1 Outlook Style Menu

When first starting the program, this is the default Outlook style menu. This menu will not be visible if your computers screen resolution is less than 1024 X 768. Clicking any place on the dark blue caption will open that section's option list.

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Default view

This menu does not have all of the selections of the main menu bar located at the top of the window. The selections are what we believe will be accessed the most by the majority of our users. For instance the import option can only be accessed from the menu bar under File. So it is important to explore all the selections of the menu bar and compare them with the selections of the Outlook style menu.

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3.2 The First Time

The first time a few of the windows are opened you will see something similar to the following.

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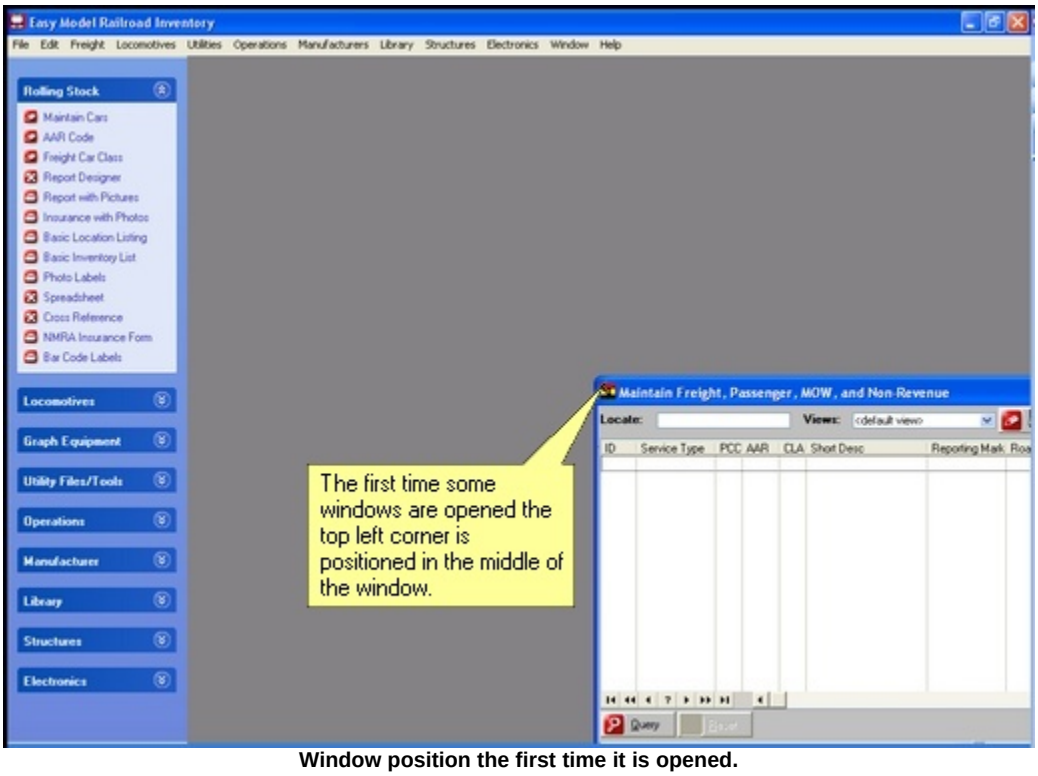

Window position the first time it is opened.

There are 7 windows:
1. Maintain Cars,
2. Maintain Locomotives,
3. Maintain Structures,
4. Maintain Library,
5. Maintain Electronics,
6. Maintain Consignee,
7. Print Waybills, and
8. All of the graph windows.

As you can see the top left corner of the window is in the center of the program window.

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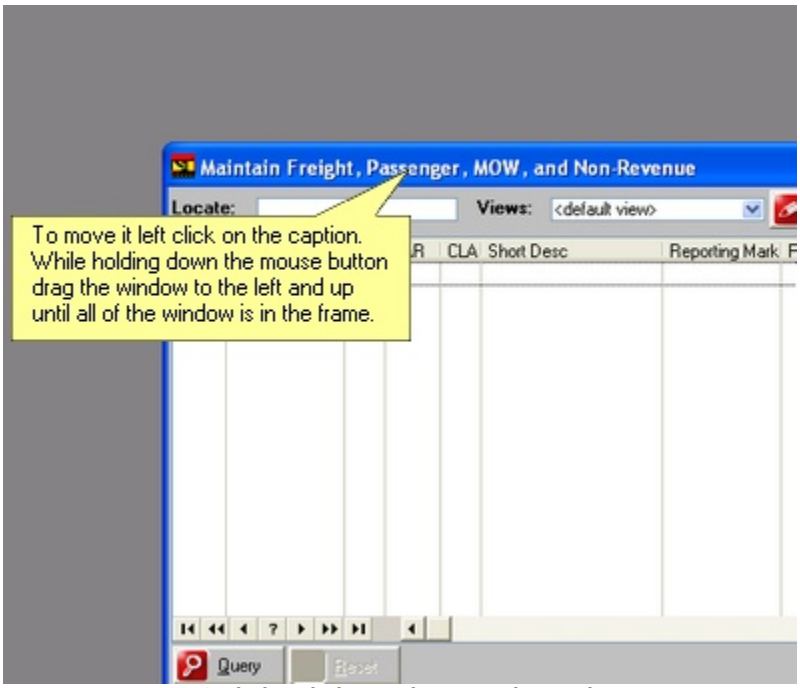
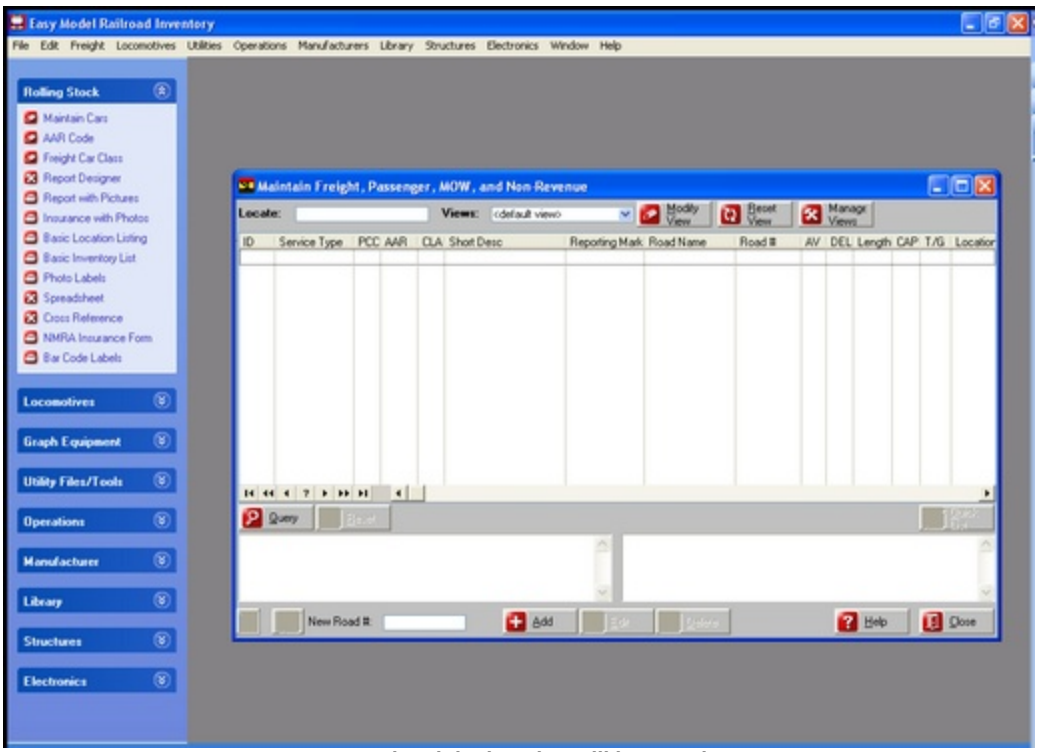


Grab the window at the top and move it

All that needs to be done is to grab the window by the caption and drag it where you want it.



Moved and the location will be saved

When the window is closed Easy Model Railroad Inventory will store the windows current location which will be used the next time the window is opened.

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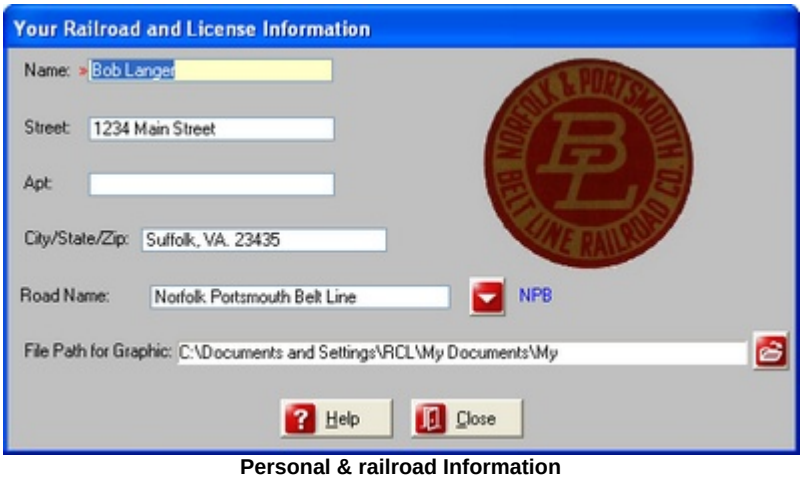
3.3 Your Information

File > Your Information

Enter the basic information about your model railroad. In addition to the railroad name, enter your information as the licensee of Easy Model Railroad Inventory.



Personal & railroad Information

Use the Down arrow to select the initials of your railroad. The Maintain Road Names utility file will open allowing you to lookup or add your railroad. This will be used to enter all of the data pertaining to your rolling stock.

Click the optional file folder button to find and save the path to your railroads herald. The file may be located any place on your computer but we suggest placing the file in the programs directory.

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3.4 Preferences

File > Preferences

Enter the program defaults. These defaults will speed up data entry and can be changed as the need arises. The default fields are divided into sections based on the fields use. The first section is for the generic fields in the equipment file. These fields are:

General Rolling Stock:
1. Reporting Mark,
2. Coupler Type,
3. Status Type,
4. Purchased As,
5. Collectable,
6. Available,
7. Weathered,
8. Condition,
9. Original or Refinished, and
10. Scale.

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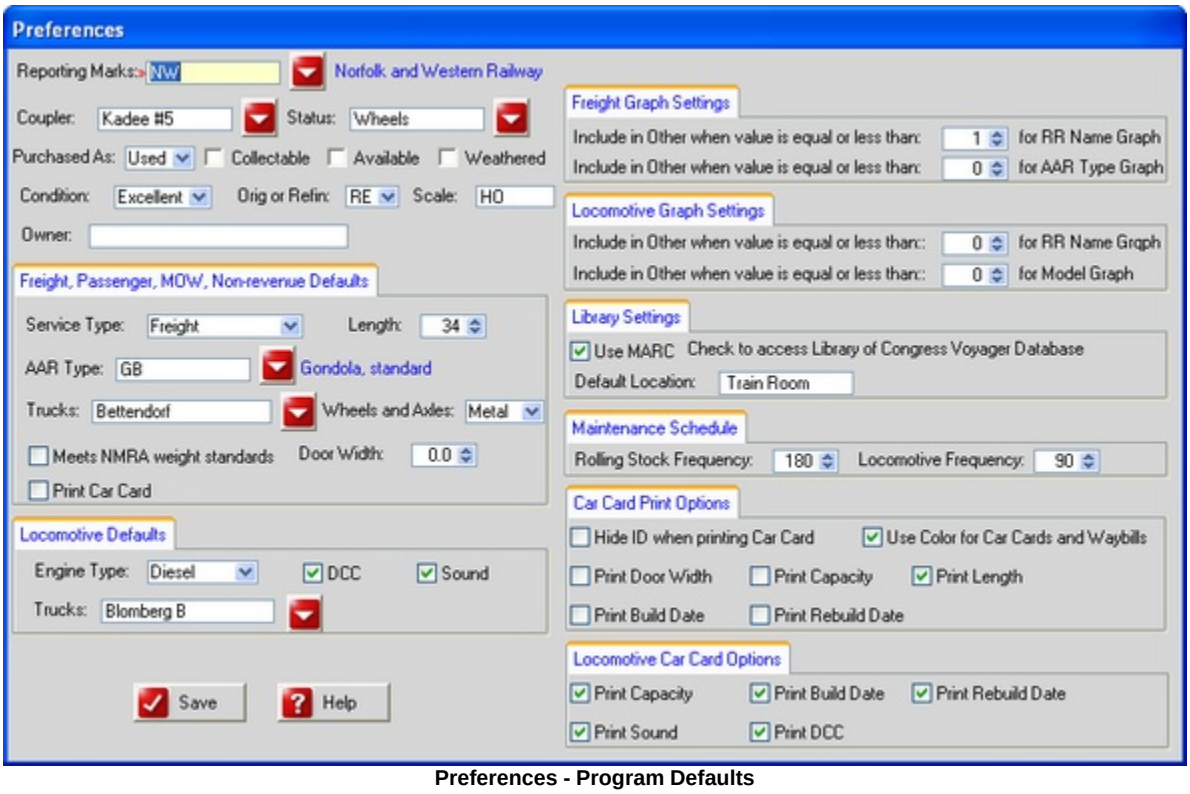

Preferences - Program Defaults

Freight, Passenger, MOW, Non-revenue Defaults Tab:
1. Service Type,
2. Length,
3. AAR Type,
4. Truck Type,
5. Wheels & Axles,
6. Meet NMRA weight standards, and
7. Door Width.

Locomotive Defaults Tab:
1. Engine Type,
2. DCC,
3. Sound, and
4. Truck Type.

Color Code Car Class:
1. Rolling Stock Frequency - the number of days between maintenance check.
2. Locomotive Frequency - the number of days between maintenance check.

Car Card Print Options:
1. Click to Hide ID Number when printing Car Card.
2. Click checkbox to force color to be used when printing car cards and waybills.
3. Print Door Width,
4. Print Capacity,
5. Print Length,
6. Print Build Date, and
7. Print Rebuild Date.

Options 2 through 6 by default will NOT print on the car card starting with version 4.0. These fields in previous versions would have printed regardless of the users desires or even if there was anything to

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print. Starting with version 4.0 the user must elect to have a field print AND there must be a value for the data. There will no longer be a caption followed by a blank.

Many modelers have quite a number of freight, passenger, and to a lesser degree MOW and Non-revenue cars. The graphs used in this program are pie charts. Because pie charts will be very hard to view when there are dozens of road names or AAR types or engines we have added a field called Other. The user sets a value that the program will use to combine all totals that are equal or less then the entered amount.

Freight Graph Settings:
1. Railroad name graph, and
2. AAR type graph.

Locomotive Graph Settings:
1. Railroad name graph, and
2. Locomotive model graph.

Library Settings:
1. User the MARC function to access the Library of Congress Voyager database, and
2. Default location,

Entering values for these fields and functions will make entering new information much quicker. We suggest you divide your rolling stock into groups by road name, and AAR type.

Change the preferences to match this group before you begin entering.

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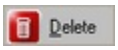
3.5 Button Definitions

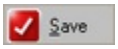
The following are all the buttons used and it's function:

To add a new record click the Add button.

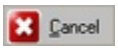
To edit or change the currently selected record click the Edit button.



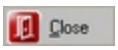
To delete, remove, the currently selected record click the Delete button.



When you have completed entering your data click the Save button.



Click the Cancel button when you do not want to Save the record you have edited.



To exit the currently open window click the Close button.

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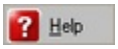
When picking a selection from a look up window click the Select button.



To get context sensitive help click the Help button or press the F1 key.

The Quick List button will print the contents of the list box to a standard report, Excel, RTF, or ASCII file.

Open saved queries Designer.

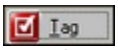
Clear the currently active query to view all records.

Clear the contents of the search box

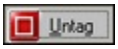
Click the Picture button to view the equipment photograph if it exists.

Click the Print Screen button to duplicate the windows contents, text and image, allowing you to print to the default printer.

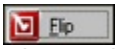
The following are tagging buttons with each icon and function:



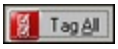
Tag the currently selected record.



Remove the tag of the currently selected record.

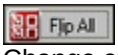


Change the currently selected record from tagged to untagged or untagged to tagged.

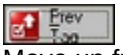


Tag every record. Currently tagged records will remain tagged.

Untag every record. Currently untagged records will remain untagged.



Change every tagged record to untagged and every untagged record to tagged.



Move up from the currently selected record to the next tagged record.

Move down from the currently selected record to the next tagged record.

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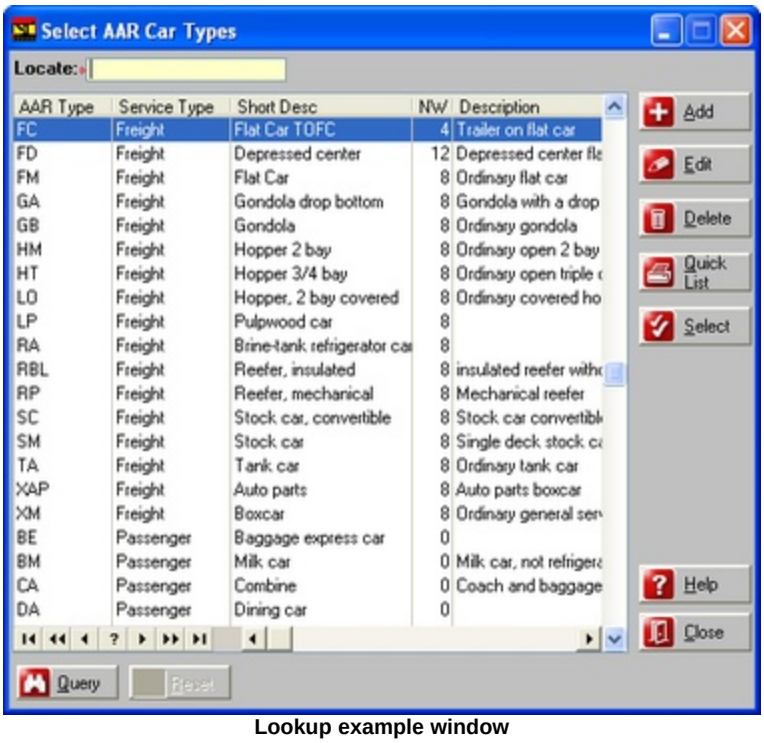
3.6 Lookup Files

There are quite a few lookups needed for Easy Model Railroad Inventory. The following image is an example of one of the lookup screens.



Lookup example window

This window is used to lookup the AAR type when entering a new rolling stock item into the equipment file. Here you may not only Select an existing AAR type but add a new one if needed.

There is another type of lookup used when designing queries. This lookup only consists of one, maybe two, fields.

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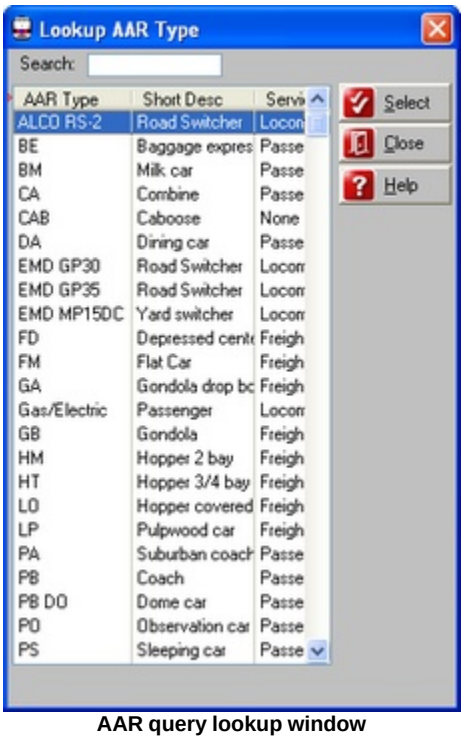

AAR query lookup window

In this lookup, there isn't an option to add a new entry. If you are designing a query, the AAR type will already exist.

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3.7 Custom Views

See: View Designer.

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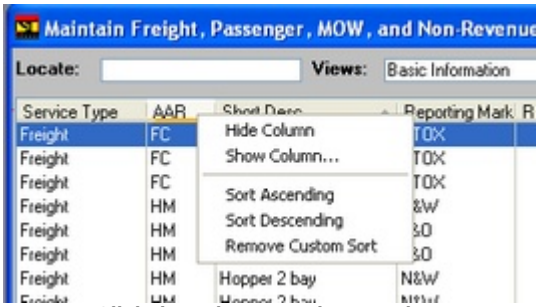
3.8 Sorting Selected Column

Using this function, you are able to change the tables sort. This will override the View Designers default sort if one is active. To select the column and its sort order click the caption of the column header.



Click the column caption to select

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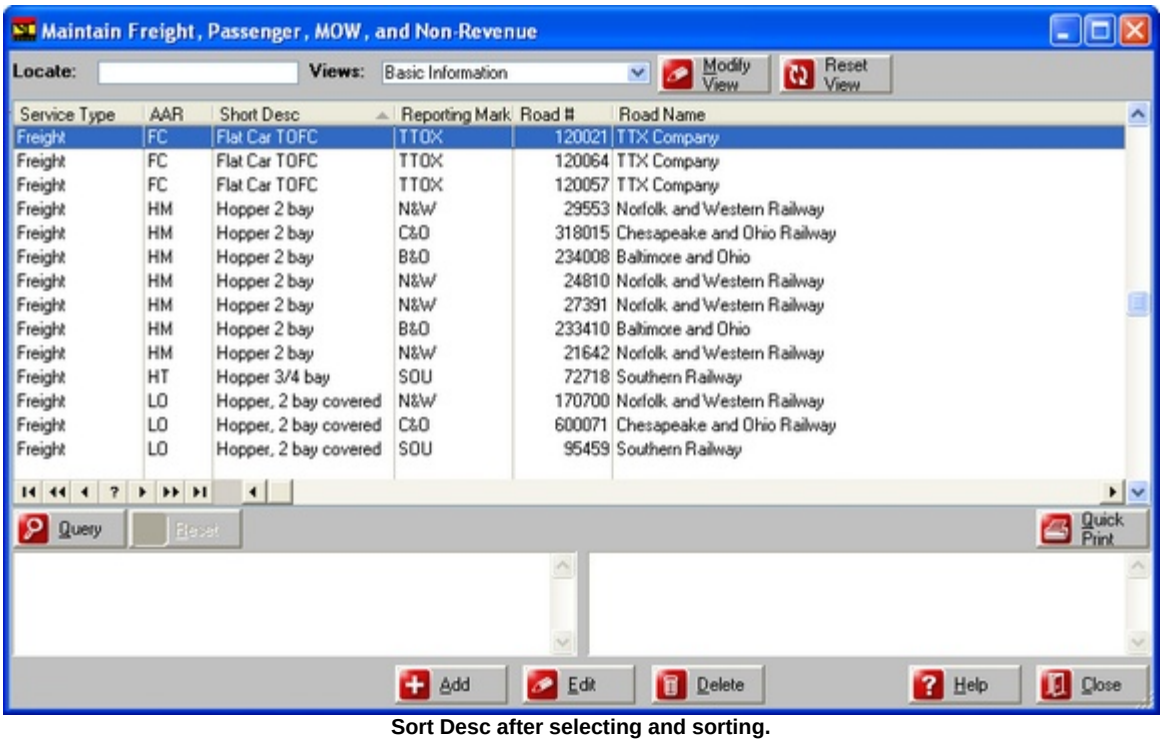
Click on the Short Desc column header to open the option menu. Select Sort Ascending to view the data in A to Z order. Sort Descending will sort Z to A.



Sort Desc after selecting and sorting.

Any active query will not change, only the sort order will change.

See: View Designer, and Hide or Unhide Columns.

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3.9 Hide or Unhide Columns

You can hide a column or unhide it. Click on the column header you wish to hide.

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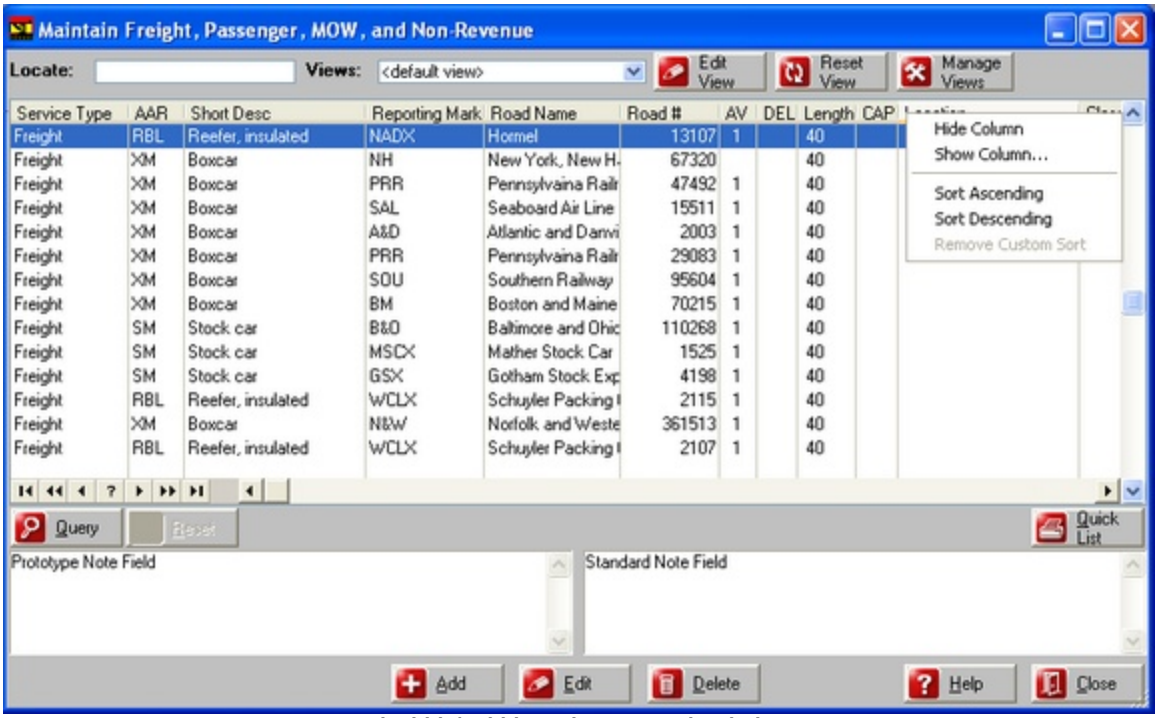
Default Freight, Passenger, MOW, or Non-revenue window

The options will cascade open allowing you to click to hide the column.



The hide/unhide options cascade window

For our example above, we clicked on the Location column and selected hide.

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New default window after hiding the location column

The Location column is now hidden. You can unhide by clicking any of the column headers then select Unhide. If there is a View active, you will see every field not currently included in that view's design.

Also see: Hide and Unhide Columns.

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3.10 Date Shortcuts

All date fields have a calendar look up next to the field. There is a short cut to entering dates, enter the month and day, 0101, and then press enter or the Tab or Enter key and the current year will be filled in automatically.

The first day of the week is Sunday which will effect how some of the following Quicken style shortcuts will function.

With the focus in the date field type:
T = today,
+ = tomorrow - numeric keypad,
- = yesterday numeric keypad,
W = first day of the currently displayed week,
K = last day of the currently displayed week,
M = first day of the currently displayed month,
H = last day of the currently displayed month,
Y = first day of the currently displayed year,
R = last day of the currently displayed year.

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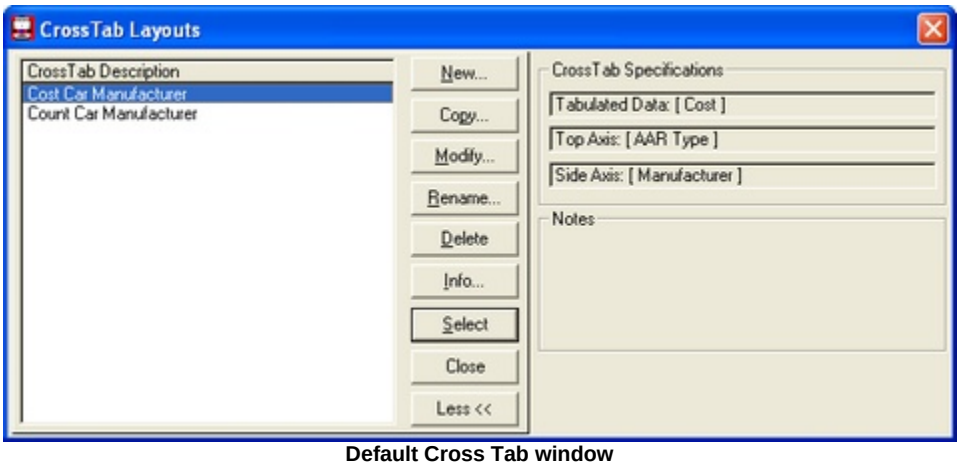
4 Cross Reference

The Cross Reference, Cross Tab, allows the user to select the top axis, and bottom axis of a spreadsheet form and tabulate in one of two ways: sum, average, or count. There are options to sum, average, count, or calculate percent of the total for each column of the top axis and/or the row of the side axis.

Our example will include the AAR type on the top axis, the railroad name on the side axis, to count the totals for the Freight file.



Default Cross Tab window

Click the New button to start a new layout.

Enter a name

Enter a name and click the OK button to start the layout design.

Three elements must be selected. Each is accessed using a drop down control and are in alphabetical order. You will notice that every field, other than memos, are listed and can be used as either the top or side axis.

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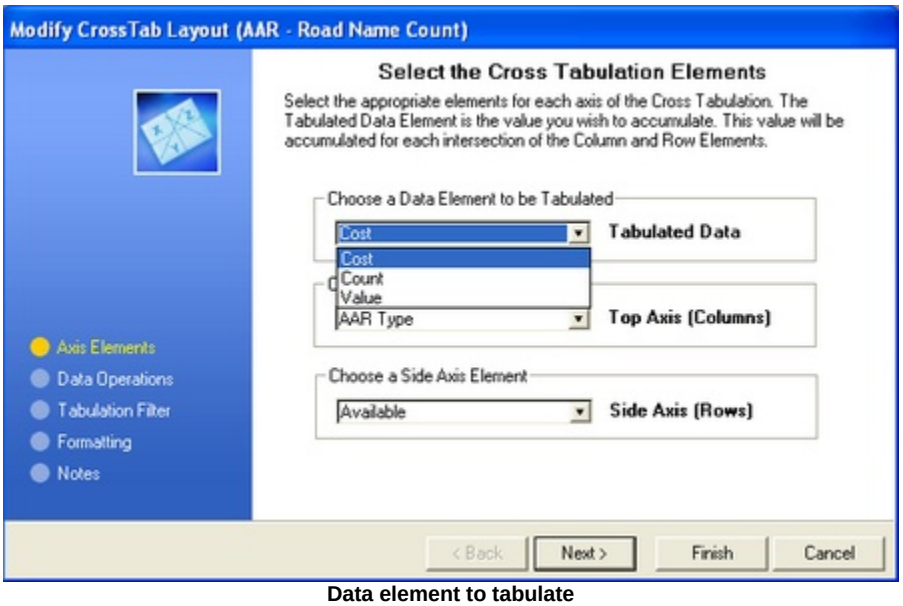
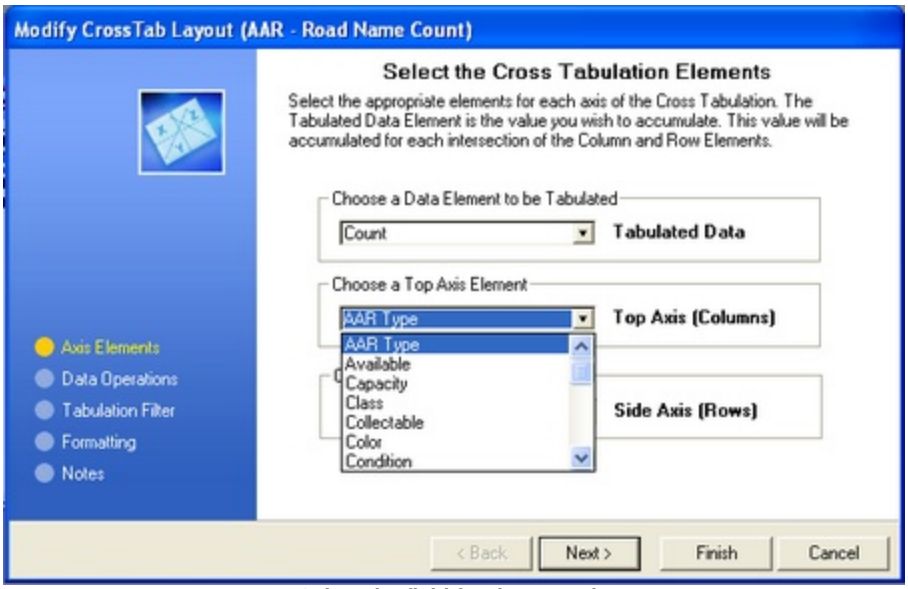


Data element to tabulate

Select Count from the drop down list Data Element to be tabulated. For our example we are going to count the number of AAR types for each Railroad. The only other tabulated fields are cost and value.



Select the field for the top axis

Choose AAR Type as the Top Axis Element.

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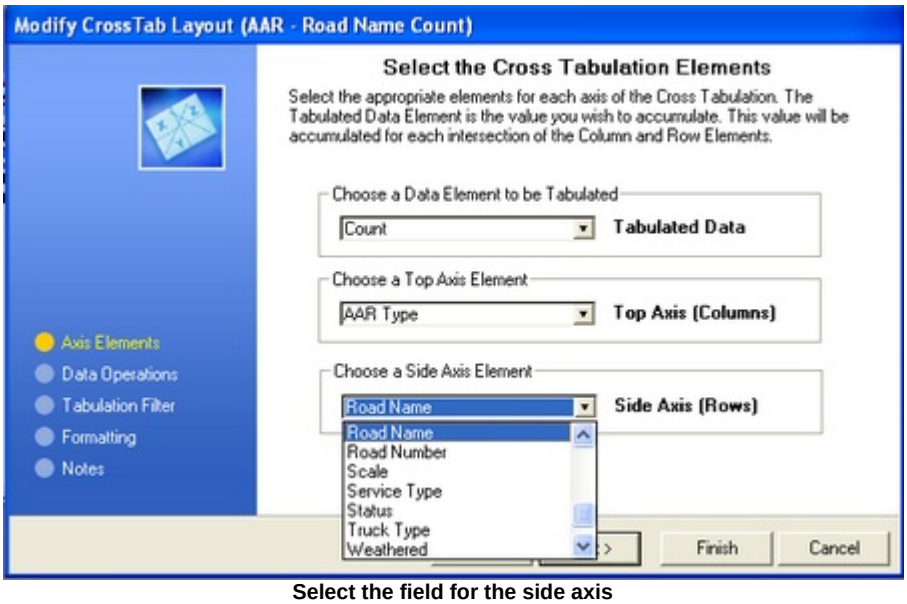
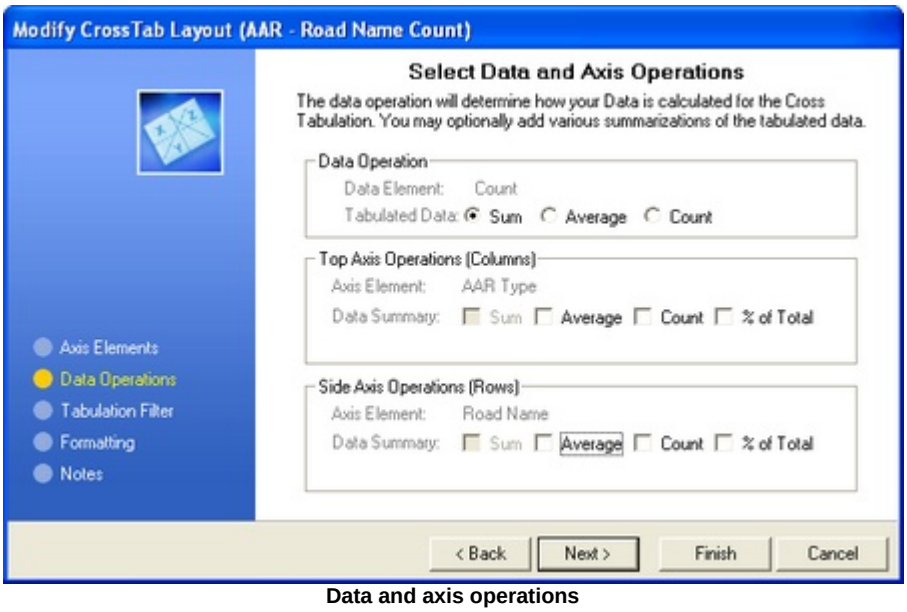


Select the field for the side axis

Lastly select Road Name for the Side Axis Element. There are only 3 elements: Top, Side and the tabulation element. Click Next to proceed.



Data and axis operations

We have already determined the primary data tabulation operation. The Cross Reference feature also allows additional columns to be added: Average and Count. In the case of our example we are counting and do not need the average.

The top axis also has an Average, Count, and percent of Total. If we were using cost or value to tabulate the Sum option would be available. The results would add a column for each select.

The side axis also has an Average, Count, and percent of Total. As with the top axis if we were using cost or value to tabulate the Sum option would be available. The results would add additional rows with the calculated results.

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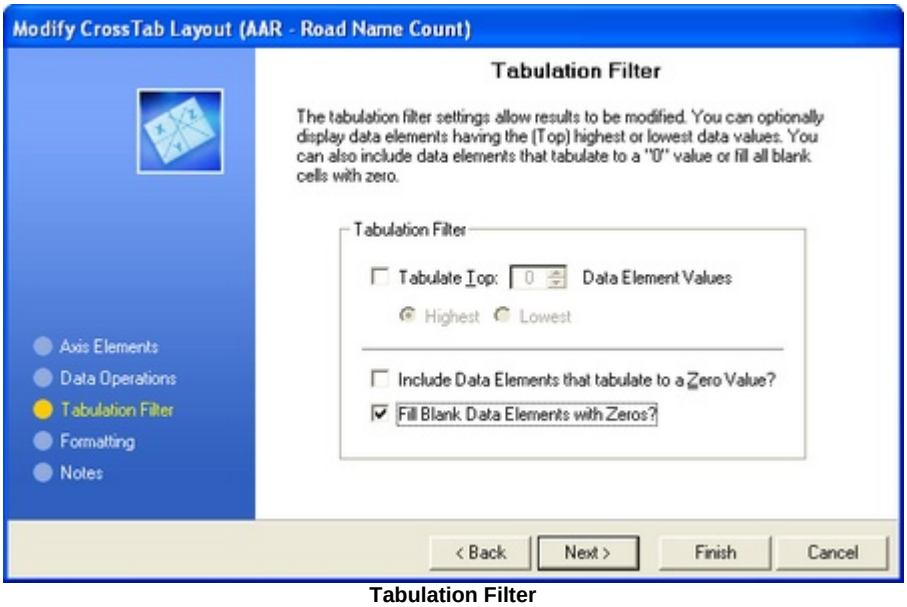
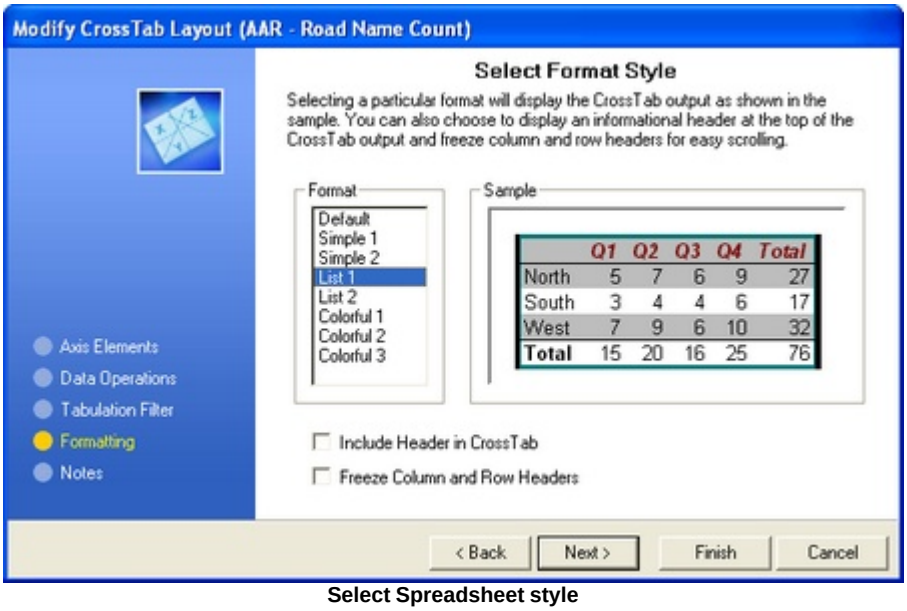
Also, note that the options for the Operation are one or the other. The top and side axis operations are checkbox's and you can select any or none of them. For our example, we are going to accept the defaults and click the Next button to proceed.



Tabulation Filter

The Tabulation Filter adds yet more options. You can tabulate the highest or lowest group by clicking the Tabulate checkbox and entering the number of elements. For example, click the Tabulate and enter five. Leave the default Highest to see the top five rows instead of all rows, in our case Road Names.

We did select the Fill Blank Data Elements with Zeros to make sure every field in our output will have something.



Select Spreadsheet style

Select the format you would like to use for your layout. As you scroll down you will see an example of the output displayed on the Sample tab.

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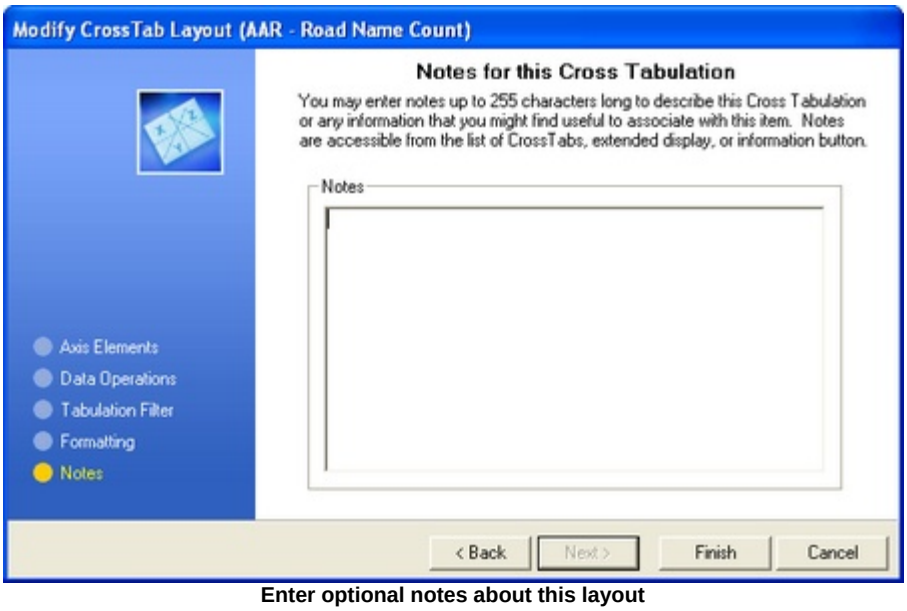
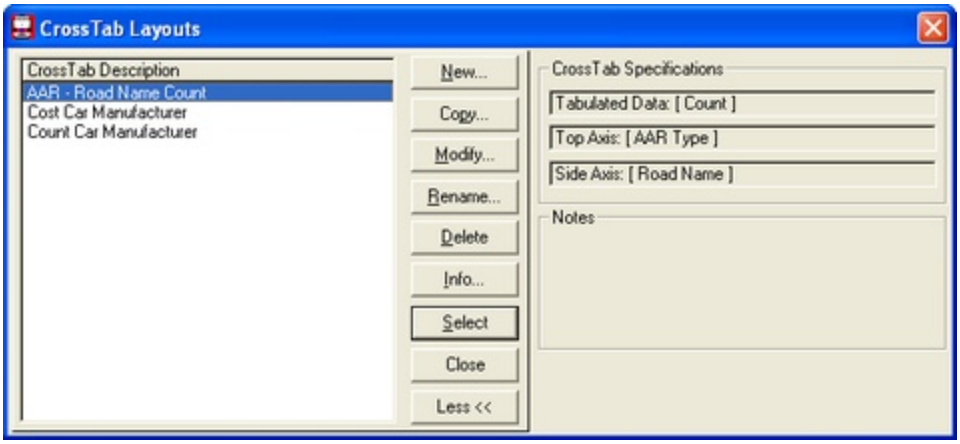


Enter optional notes about this layout

This window can be used to document the spreadsheet you have designed. This is especially useful when the application is going to be used by others. In the case of Easy Model Railroad Inventory, it probably is not that useful.

Click the Finish button to save your new layout.



After saving AAR - Road Name Count

To run your new cross reference layout make sure it is highlighted and click the Select button.

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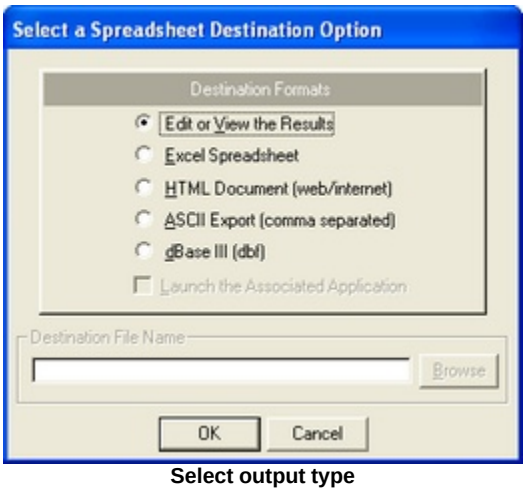

Select output type

The default spreadsheet destination is Excel. However, there are other options including saving directly to an Excel file after entering the file name. Click OK to open Excel and populate with the fields and in the sort order we have selected.

SUMS	FC	FM	HM	HT	LO	NE	RBL	SM	TA	XM	XMD	TOTAL
Akron, Canton and Youngstown Railroad	0	0	0	0	0	0	0	0	0	1	0	1
Atlantic Coast Line	0	0	0	0	0	0	0	0	0	3	0	3
Atlantic and Danville	0	0	0	0	0	0	0	0	0	2	0	2
Baltimore and Ohio	0	0	2	0	0	0	0	1	0	0	0	3
Bangor and Aroostook Railroad	0	0	0	0	0	0	1	0	0	1	0	2
Boston and Maine Railroad	0	0	0	0	0	0	0	0	0	1	0	1
Central of Georgia	0	0	0	0	0	0	0	0	0	1	0	1
Chesapeake and Ohio Railway	0	0	1	0	1	0	0	0	0	1	0	3
DOW Chemical Company	0	0	0	0	0	0	0	0	1	0	0	1
Delaware, Lackawanna and Western Railroad	0	0	0	0	0	0	0	0	0	1	0	1
GATX Leasing Corporation	0	0	0	0	0	0	0	0	3	0	0	3
General Electric Rail Services	0	0	0	0	0	0	0	0	2	0	0	2
Georgia Railroad	0	0	0	0	0	0	0	0	0	1	0	1
Gotham Stock Express	0	0	0	0	0	0	0	1	0	0	0	1
Hormel	0	0	0	0	0	0	1	0	0	0	0	1
Jersey Central Lines	0	0	0	0	0	0	0	0	0	1	0	1
Mather Stock Car	0	0	0	0	0	0	0	1	0	0	0	1
Missouri-Kansas-Texas Railroad	0	0	0	0	0	0	0	0	0	1	0	1
New York, New Haven and Hartford Railroad	0	0	0	0	0	0	0	0	0	5	0	5
Norfolk Navy Yard	0	0	0	0	0	0	0	0	0	1	0	1
Norfolk Western	0	0	0	0	0	0	0	0	0	1	0	1
Norfolk and Western Railway	0	0	4	0	1	3	0	0	0	9	1	18
Northern Pacific Railway	0	0	0	0	0	0	1	0	0	0	0	1
Pennsylvaina Railroad	0	1	0	0	0	0	0	0	0	4	0	5
Richmond, Fredericksburg, and Potomac Railroad	0	0	0	0	0	0	0	0	0	2	0	2
Savannah & Atlanta	0	0	0	0	0	0	0	0	0	1	0	1
Schuyler Packing Company	0	0	0	0	0	0	2	0	0	0	0	2
Seaboard Air Line Railroad	0	0	0	0	0	0	0	0	0	1	0	1
Southern Railway	0	0	0	1	2	0	0	0	0	2	0	5
St. Louis Southwestern Railway	0	0	0	0	0	0	0	0	0	2	0	2
TTX Company	6	0	0	0	0	0	0	0	0	0	0	6
Texaco	0	0	0	0	0	0	0	0	1	0	0	1
Union 76	0	0	0	0	0	0	0	0	1	0	0	1

Page one of Excel print output

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United States Navy	0	0	0	0	0	0	0	0	0	1	0	1
Virginian Railway	0	0	0	0	0	0	0	0	0	2	0	2
TOTAL	6	1	7	1	4	3	5	3	8	45	1	84

Page two of Excel print output

This is the second and last page of the Excel print preview. We accepted all the defaults when printing the Excel file but could have formatted it to print on one page buy changing the top/bottom margins. There are many other features available in Excel to print exactly what you would like to see in the result.

Also see: View Designer, Report Designer, Query Designer, and Spreadsheet Designer.

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5 Query Designer

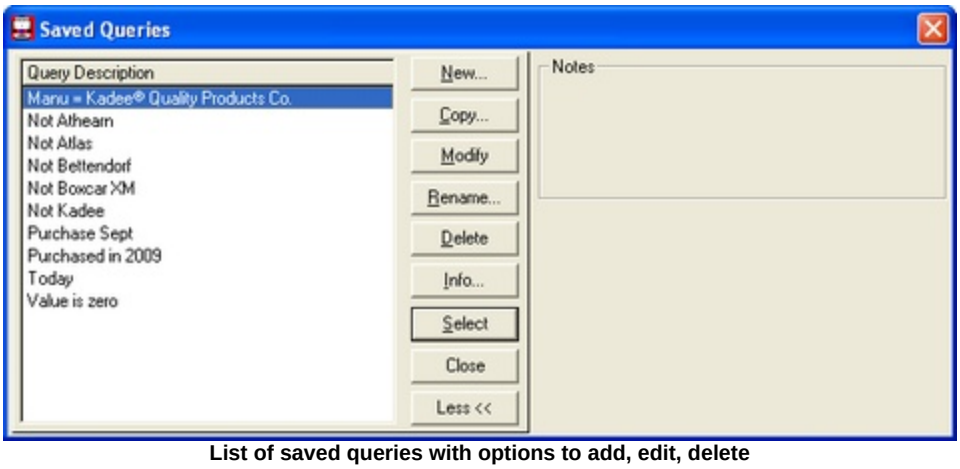
The query designer is used to view specific information based on one or more criteria. By definition, a query is much the same as a question. In the case of database queries, a user is asking their database a question. Computer programs use languages that we, as humans do not ordinarily use in our daily lives. In this case, the Query Designer acts as our interpreter. The Query Designer interpreter allows questions to be asked in a language that both the user and the database will understand.

Each Query may consist of one or more questions, logically connected with an AND or an OR logical operator to complete a valid "computer" question. Query Designer must have three components of information: Field, Operator, and Value. Given these three components, Query Designer will construct a meaningful question.

Easy Model Railroad Inventory uses the Query Wizard on windows and in conjunction with reports. We are going to show how to enter and save a simple query using the data in the Maintain Freight, Passenger, MOW, and Non-revenue window.

First click the Query Button or

. The hot tip will display Query when you hover the mouse pointer over the icon.



List of saved queries with options to add, edit, delete

For our example, we are going to query on the Reporting Mark field. Click the New button to start.

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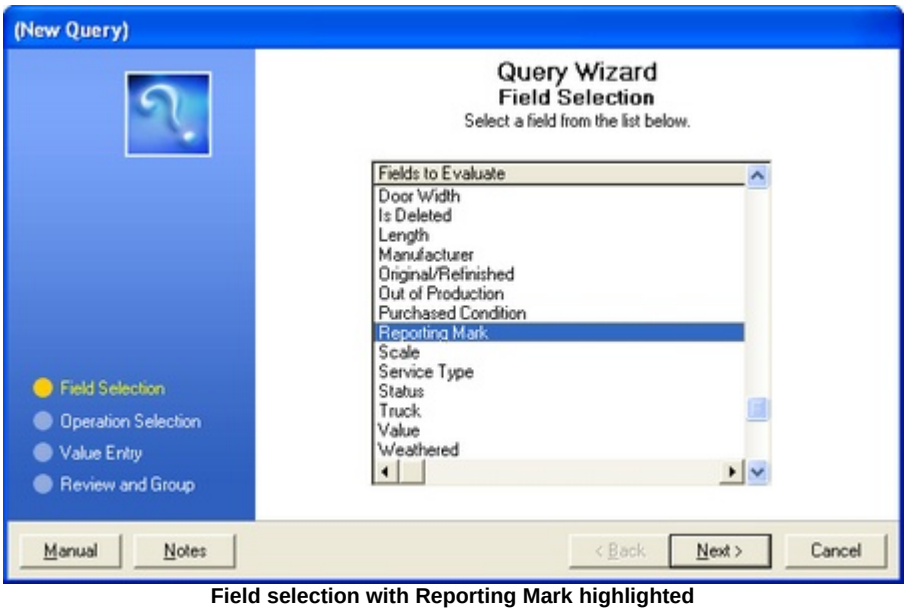
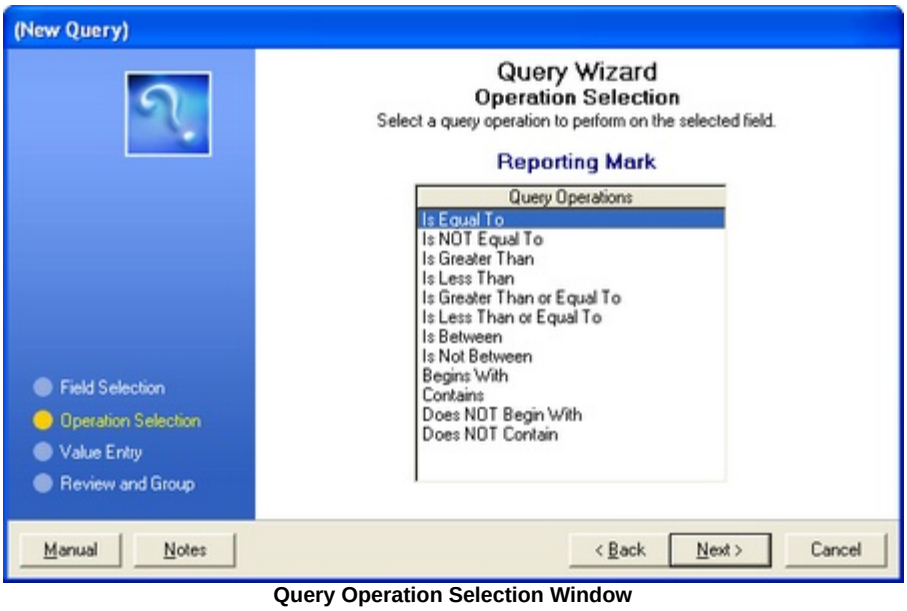


Field selection with Reporting Mark highlighted

Scroll down until the Reporting Mark is found, click on it to highlight and click the Next button.



Query Operation Selection Window

The Operator represents the comparison made between the Field and Value. (Value is entered or selected in the next dialog window.) Due to the nature of the value, operator selections for numbers are limited when compared to those for text. For example, the most common numeric operators are Greater Than, Less Than, or Equal To. The nature of text operators allow for such comparisons as Contains, Does NOT Contain, Begins With, and Does Not Begin With. Date fields have the numeric operators and some additional ones that are only relative to a date field. For example: Day, Month, and Year.

Keep the default Operation Selection, Is Equal To, and click the Next button.

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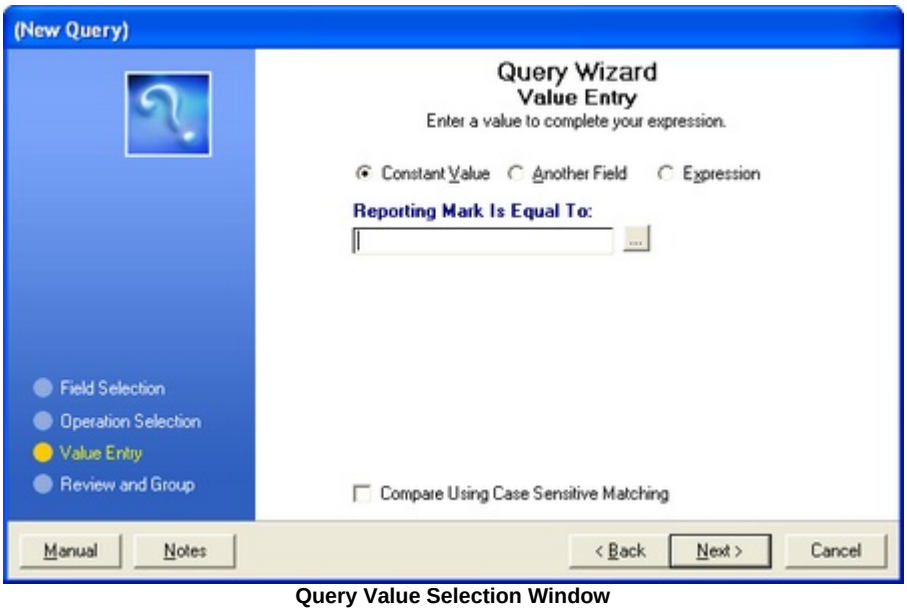
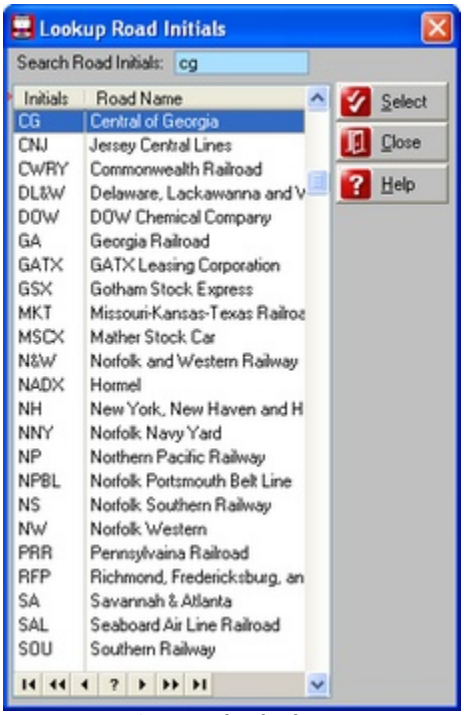


Query Value Selection Window

To complete our simple query we must select a value for comparison. If you know the value, you may also enter it into the entry field using the keyboard. Selecting from a known list will avoid misspelling the value. Click the lookup icon to the right of the entry field.



Query value lookup

Our selection is CG. Click the Next button to finish our query.

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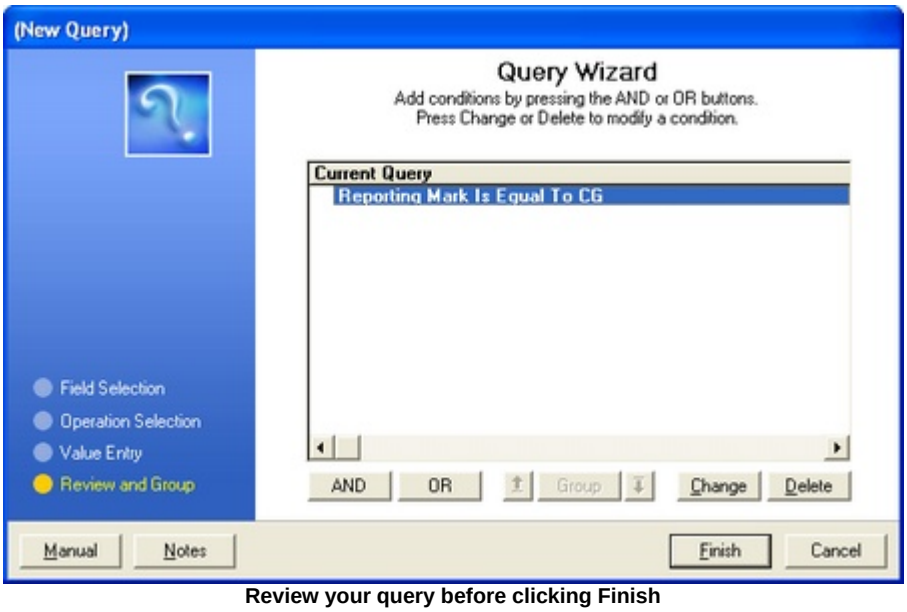
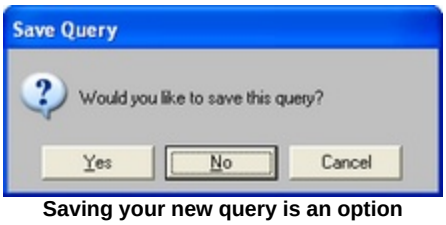


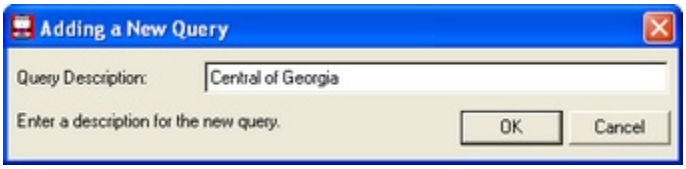
Review your query before clicking Finish

We now have selected or entered the Field, Operator, and Value needed to design our query. We have: Reporting Mark as the Field, Is Equal as the Operator and CG is the Value. Click the Finish button.



Saving your new query is an option

When you select the Yes button, you must enter a name for the query. The naming convention we suggest is to use the query criteria used to design the query. This way there will not be queries with the same name that actually display different results.



Name your new query

When the OK button is clicked, the query will run against all of the records in the file but select only the records that match your criteria.

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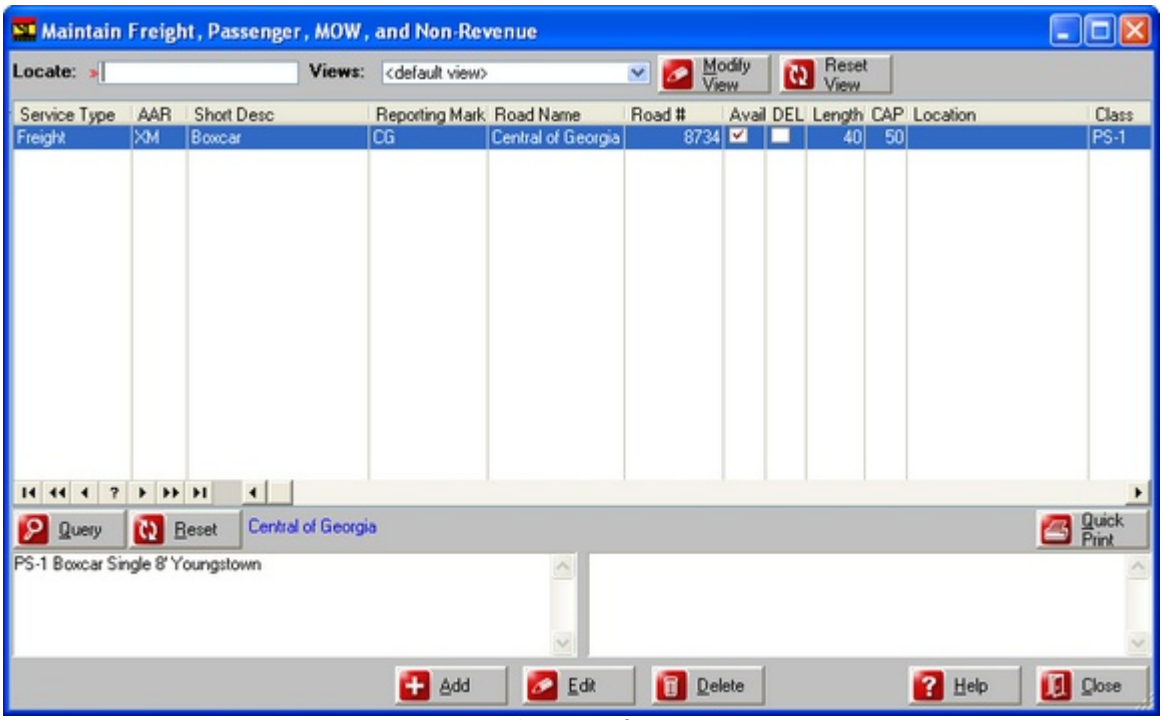

Query results

Notice your query using the name you gave it is displayed just under and to the right of the query Reset button. This query will be 'remembered' by the program and 'activated' the next time the Maintain Freight, Passenger, MOW, and Non-revenue window is opened.

The example we have just shown is simple. You can design and save queries that have more than one condition on more than one field. For example we could add a AND condition to show only records that were added in the year 2007. Being successful in designing queries is a matter of logic and experimentation. If you fail, you will not hurt the database because a query does not change the underlaying file. All a query does is display all records that match your criteria.

Also see:View Designer, Report Designer, Cross Reference, and Spreadsheet Designer.

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6 View Designer

The View Designer was added to allow the user to better organize the Locomotive and Freight, Passenger, MOW, Non-revenue list boxes. There are current as of the release of beta version 4 over 30 fields in each of those files. We feel not all users will be interest in seeing all of the fields all of the time. For example, there are 11 fields needed to print the NMRA Insurance Valuation Sheet. If the user does not intend to insure his/her layout then he/she may not want to see the fields at all. Using the Hide or Unhide Columns they can be removed so they are not visible at all.

In addition, the Quick List function needs the combined length of the columns to be printed not be wider than either 8 1/2 inches or 11 inches depending if the report is portrait or landscape. Quick List has an option to allow the user to select the paper size, margins and orientation before printing either the Locomotive or Freight, Passenger, MOW, Non-revenue list boxes.

On the other hand, these fields may only be of interest occasionally but the user should not have to search for them. An explanation is in order and the following is how to setup an Insurance View for Freight, Passenger, MOW, Non-revenue list boxes. Open the Freight Maintenance window.

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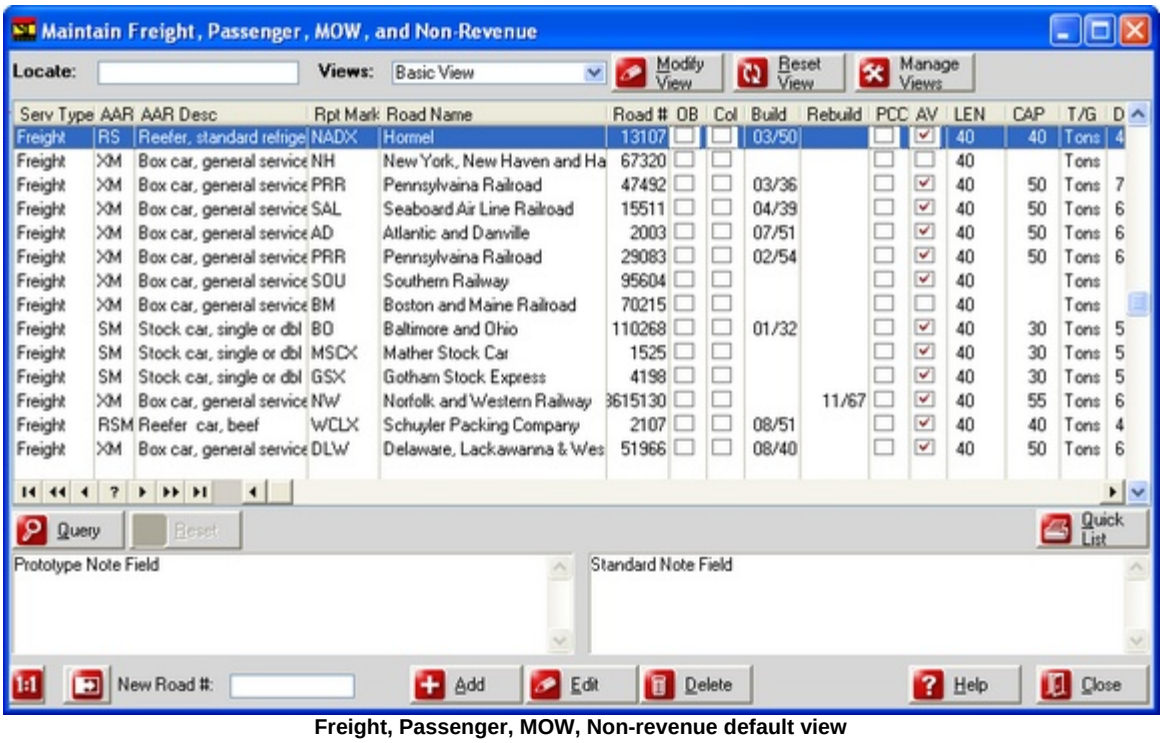
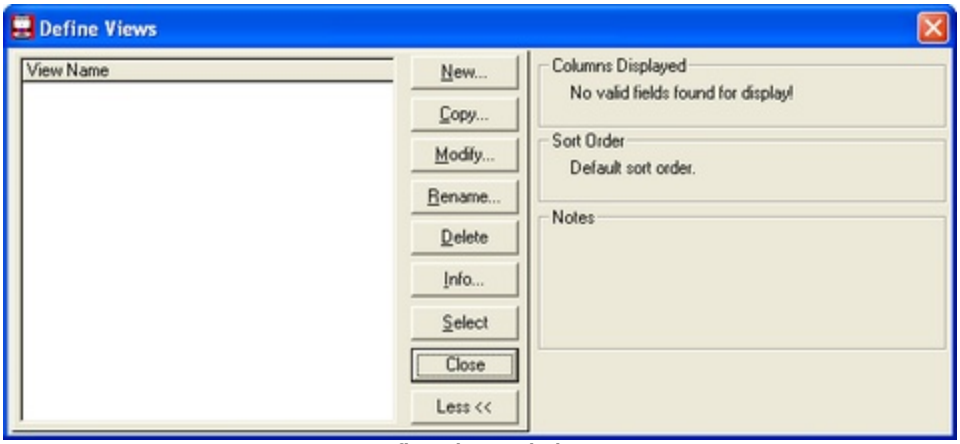


Freight, Passenger, MOW, Non-revenue default view

This is the default view when the window is first opened without a prior active view or query. Click the View button to begin the design for our new Insurance view.



Define Views Window

As you can see this is very much like the designers used by other functions incorporated in Easy Model Railroad Inventory. The Query Designer, Report Designer, Cross Reference, and Spreadsheet Designer work the same way. Click the New button to begin.

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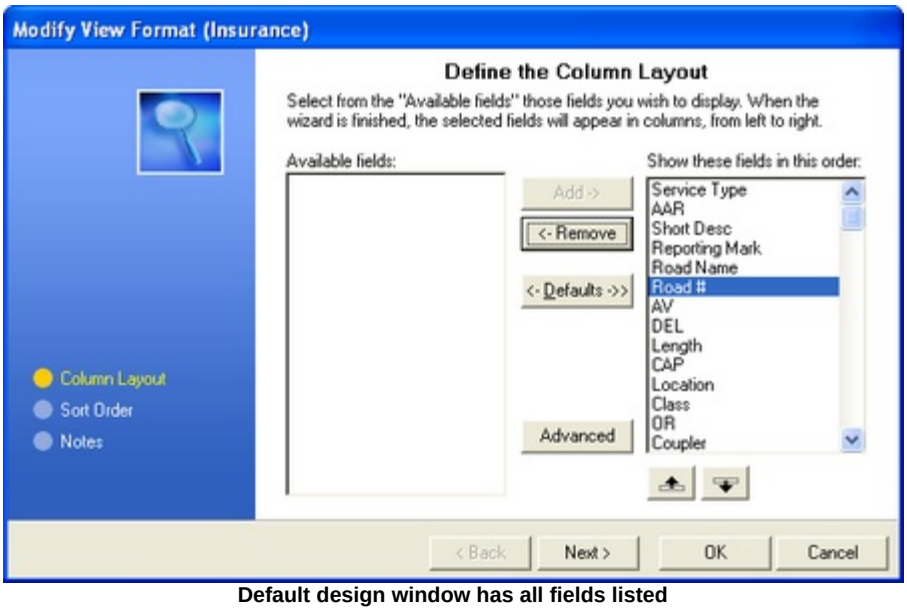
Enter a name and save

Enter a title for our new view. We entered Insurance. Press OK to proceed.



Default design window has all fields listed

The first design window, Define the Column Layout, has all of the fields of the default view in the Show list box on the right. We need to remove the fields we do not want - leaving the ones we do want. Start with Service Type, click to select it, then click the Remove button or drag and drop the field in the list box to the left.

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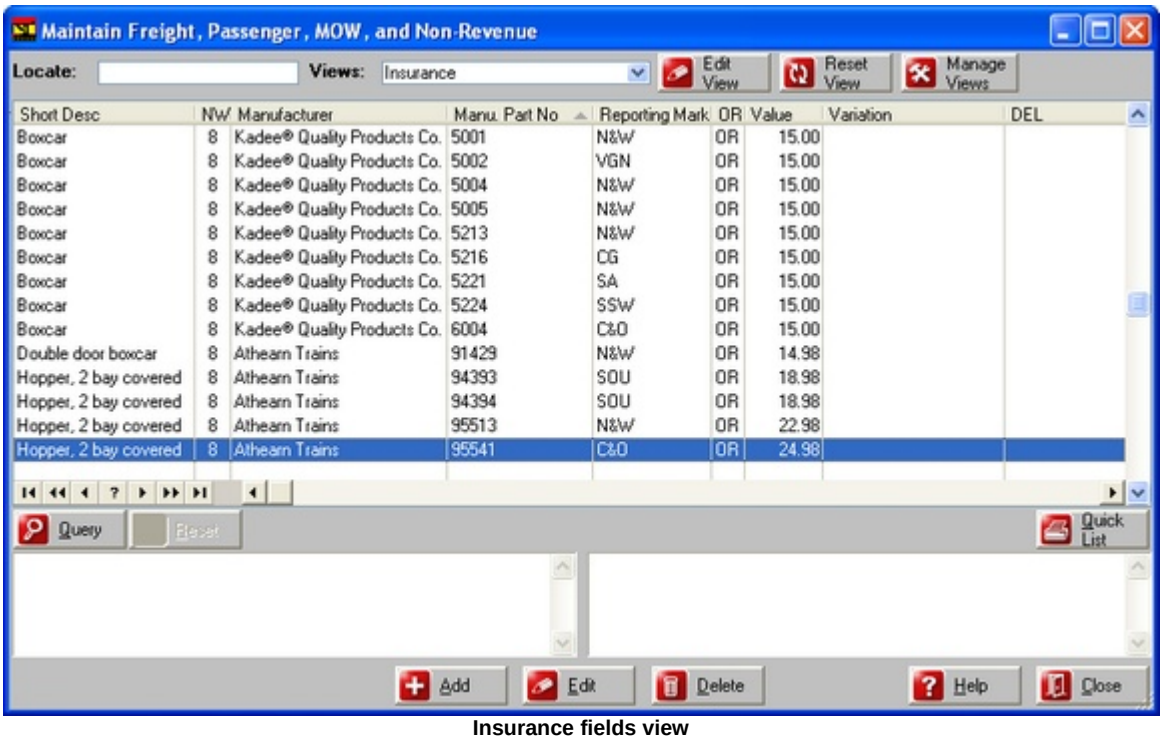

Insurance fields view

Once you have your views designed and saved to change the current view click on the View drop list and select the new view.

Also see: Query Designer, Report Designer, Cross Reference, and Spreadsheet Designer.

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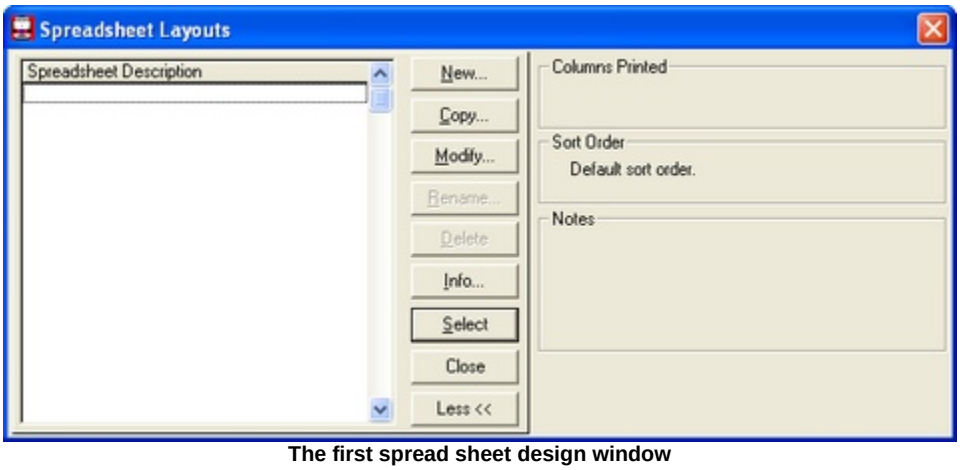
7 Spreadsheet

Many of the files have a spreadsheet option allowing you to select to export to Excel, ASCII delimited, HTML or DBase.



The first spread sheet design window

Click the New button to start the process of designing your new spreadsheet using the Freight... file as the source. Please note you can also copy, modify, and rename the highlighted Spreadsheet Layout.

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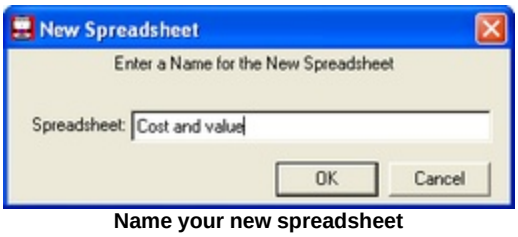
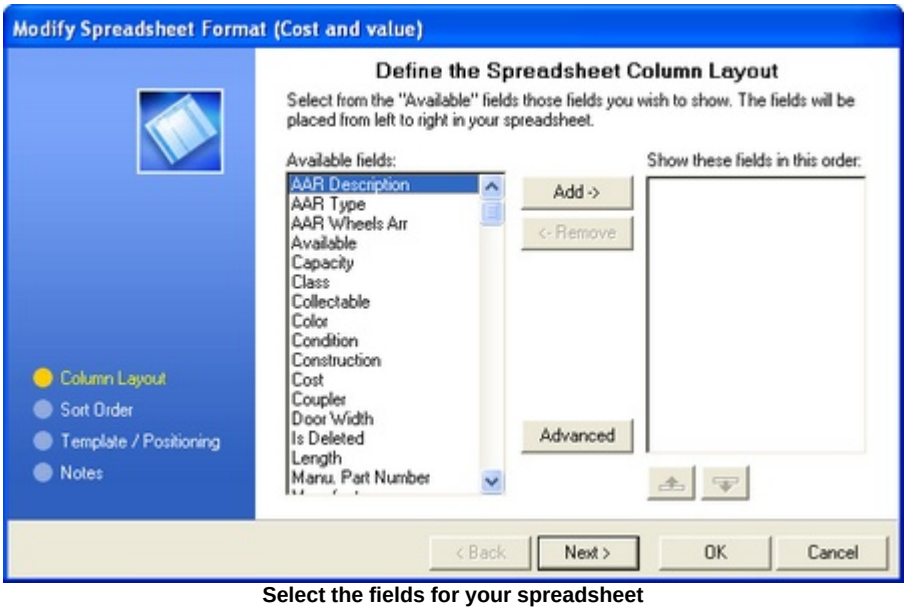
These options can be very handy when you want to design another spreadsheet based on an existing one.



Name your new spreadsheet

First, enter the name of your new spreadsheet and click the OK button to proceed to the next window.



Select the fields for your spreadsheet

The first thing you have to do is select the fields you want in your spreadsheet. Put them in the order you want to columns to be. Use the up and down arrows at the bottom to change the column order.

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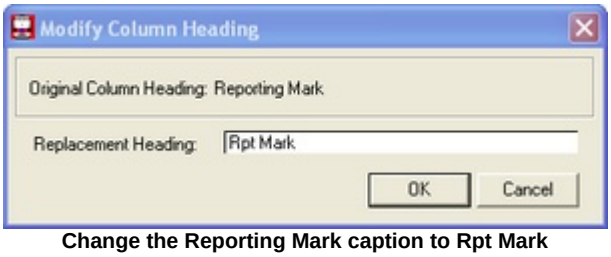
After selecting a few fields

After adding the following fields:
1. Reporting Mark,
2. Road Number,
3. Service Type,
4. Available (1 = Yes and 0 = No),
5. Cost, and
6. Value.

Now we want to change some of our column headings.



Change the Reporting Mark caption to Rpt Mark

We are going to change the Reporting Mark caption to something smaller, Rpt Mark. We have also changed Service Type to Service, and Available to AV. Of course you can also do this when the export has completed and the file in open in Excel or other spreadsheet program.

Click the Next button to proceed.

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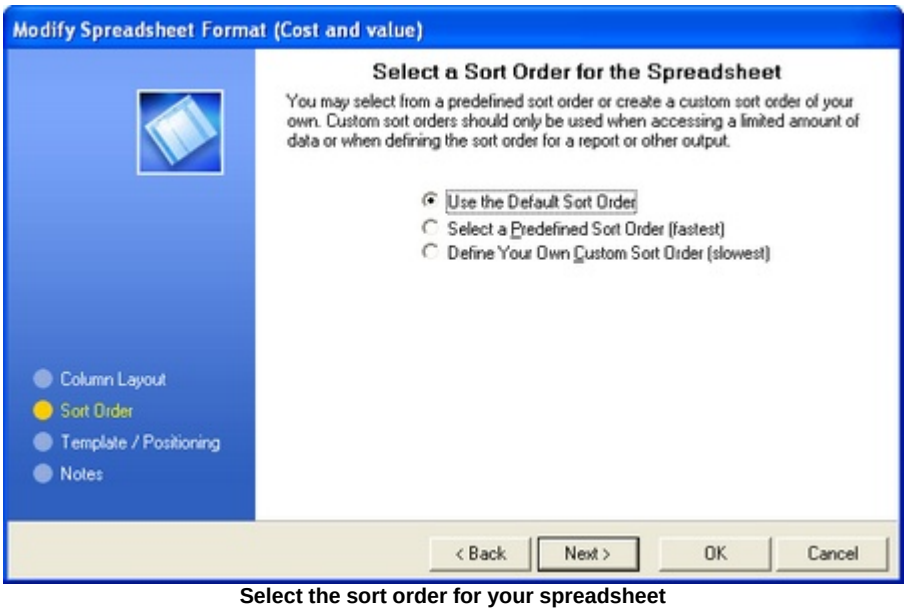
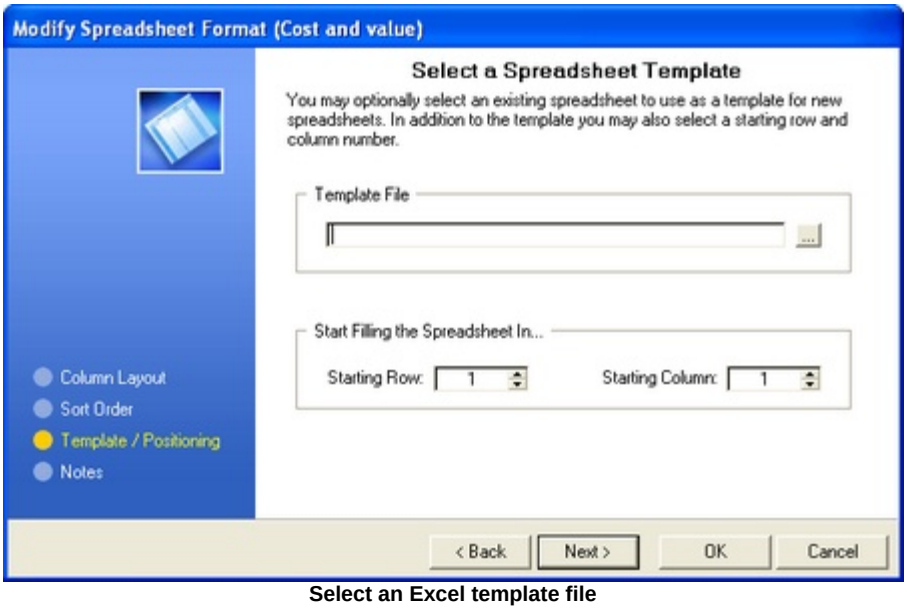


Select the sort order for your spreadsheet

As in the Report Designer, there is the option of selecting a sort order other than the default. Selecting a predefined sort order results in the fastest processing which may be important when there are a large number of records or if your computer is the fastest.

If none of these fit your needs you can design your own sort. For our example we have selected the Predefined Sort Order of Reporting Mark.

Click the Next button to proceed.



Select an Excel template file

I have never used this feature but you are welcomed to explore the possibilities to see if this option will fit your need. As for our example click the Next button to proceed the last screen of the Spreadsheet Designer.

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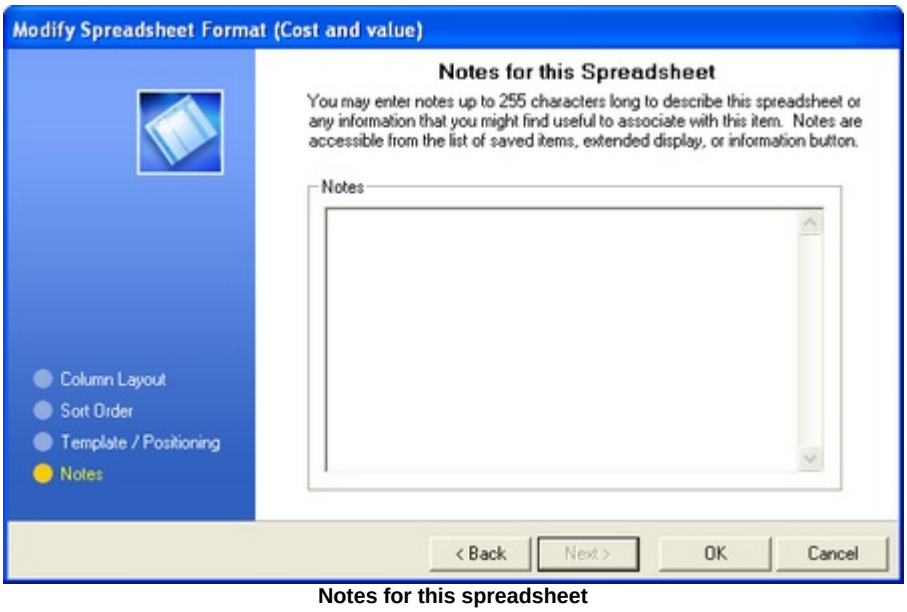
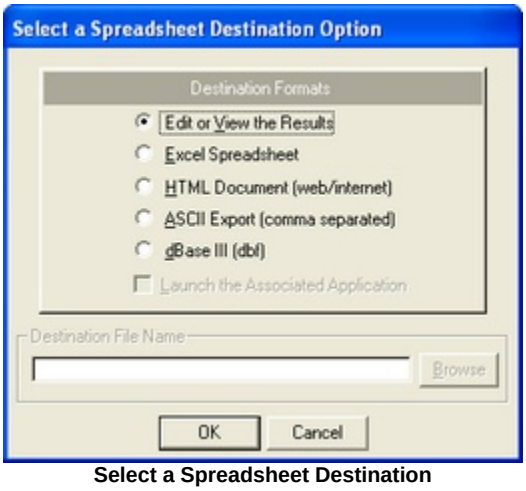


Notes for this spreadsheet

This window can be used to document the spreadsheet you have designed. This is especially useful when the application is going to be used by others. In the case of Easy Model Railroad Inventory, it probably is not that useful.

After clicking OK to close the design windows, click the Select button to start the export process. You will notice that the Query Designer displays but we are not going to use a saved query for this example.



Select a Spreadsheet Destination

The default spreadsheet destination is Excel. However, there are other options including saving directly to an Excel file after entering the file name. Click OK to open Excel and populate with the fields and in the sort order we have selected.

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	A	B	C	D	E	F
1	Rpt Mark	Road #	Service	AV	Cost	Value
2	A&D	2003	Freight	1	0	15
3	A&D	2008	Freight	1	0	15
4	ACL	20479	Freight	1	0	15
5	ACL	20479	Freight	1	0	15
6	ACL	20479	Freight	1	0	15
7	ACY	3247	Freight	1	15	15
8	AESX	8353	Freight	0	7	7
9	AESX	8353	Freight	0	7	7
10	B&O	110268	Freight	1	0	15
11	B&O	234008	Freight	1	0	15
12	B&O	233410	Freight	1	0	15
13	BAR	6734	Freight	1	0	15
14	BAR	5266	Freight	1	15	15
15	BM	70215	Freight	1	0	15
16	C&O	318015	Freight	1	0	15
17	C&O	21142	Freight	1	15	15
18	C&O	600071	Freight	0	24.98	24.98
19	CG	8734	Freight	1	15	15
20	CNJ	3002	Freight	1	0	15
21	DL&W	51966	Freight	1	0	15
22	DOW	X-38370	Freight	0	7	7
23	GA	39518	Freight	1	15	15
24	GATX	30904	Freight	1	0	15

Completed Excel Spreadsheet

Also see:View Designer, Report Designer, Query Designer, and Cross Reference.

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7.1 Other than Excel

I have had some questions about supporting Open Office in Easy Model Railroad Inventory. Most of them via email but I thought I would respond here too for those to timid to ask. To answer a question about Open Office I had to download it and install it on a relatively clean computer. I did so today and did some testing.

Using the Quick List feature you can export to a comma delimited file. The choice is a CSV Document. Enter the file name you want at the bottom of the Quick List window if you want to over ride the default name. Make sure the "Open Created document after" is checked. During my test the file was created, written to and Open Office opened the Import window. From there it was easy.

Under File there is an Export option. One of the options is comma delimited. Select the type, enter the name if the default is not what you want. I would select a comma is the delimiter. The export suggested using quotation marks and I let that alone. A file will be saved in the RCLTRAIN folder. You will have to navigate to the folder, right click, select Open With then Open Office. You will be directed to the Open Office import.

The Spreadsheet selections on the menus and the Outlook style menu will only display a message when Excel is not found.

8 Report Options

There are a number of ways to print reports depending on your needs. For example if I am going to a train show I will use Quick List to print my car roster. This allows me to make sure I do not buy a car

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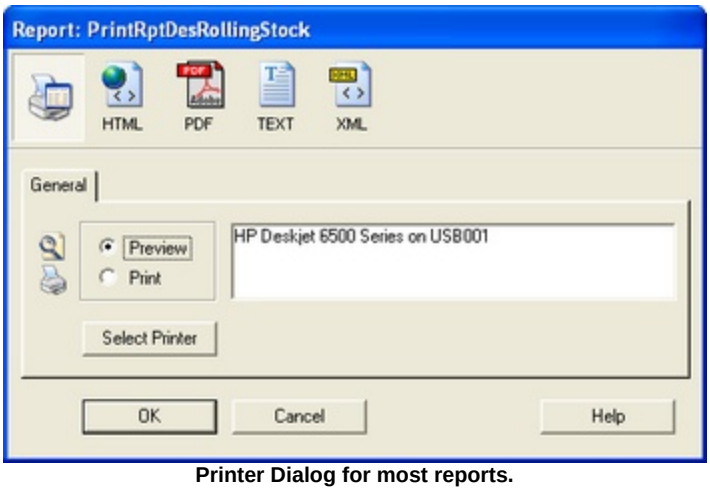
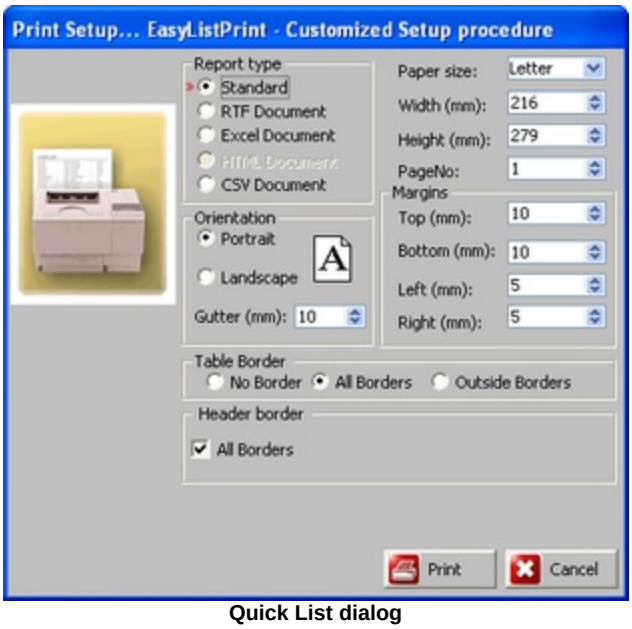
with a number I already own. I might do the same for books. Having a duplicate car is not as bad as having a duplicate book.



Printer Dialog for most reports.

The above print dialog will display for all reports with the exception of those reports generated using the Quick List button. The default will output to the printer. Some reports will have the additional options to print to HTML, a PDF file, a text file or XML file.



Quick List dialog

The Quick List dialog allows the user to select the report type, orientation, paper size, and margins among other attributes to make sure the columns selected fit properly and is easy to read. If you see in the preview that the report does not look the way you want it you can change the view of the list box by removing or adding columns. Changing the page orientation can make a big difference in the final printed report.

See: View Designer.

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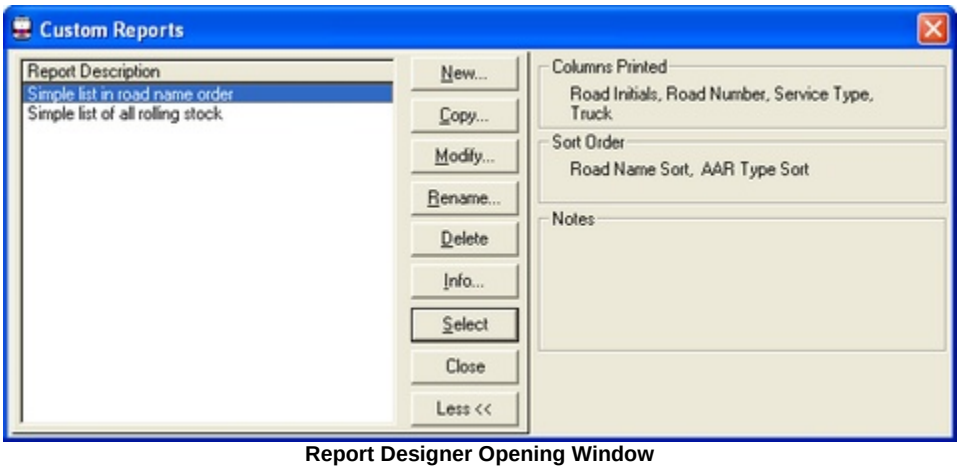
8.1 Report Designer

I have had many requests to add very specific reports. Some of these reports would be useful to most of the users of Easy Model Railroad Inventory but others may not be. To get around the problem of designing and coding so many different reports I have added a Report Designer. Using this tool there are very few, if any, reports that cannot be designed based on your own needs. To add to this the query engine has been added to make sure you get the output you need for every report.

The first window to display when the Report Designer is opened lists all the current reports. On the left is the user defined report name. In the middle the buttons allow tremendous flexibility. You can start a new report. Copy an existing report to another name. Now modify the new report with different fields, by either adding or deleting field name.

On the right each field of the report is displayed as well as the sort order. If the sort order uses multiple fields each is listed in the order of significance. Select the report you want to print by clicking the report title then click the Select button. Click the Close button to cancel printing.



Report Designer Opening Window

Begin a new report by clicking the New button. The first step is to give it a name. Make is as descriptive as you can.

Name your report

Click the OK button to save the name of your new report then start designing.

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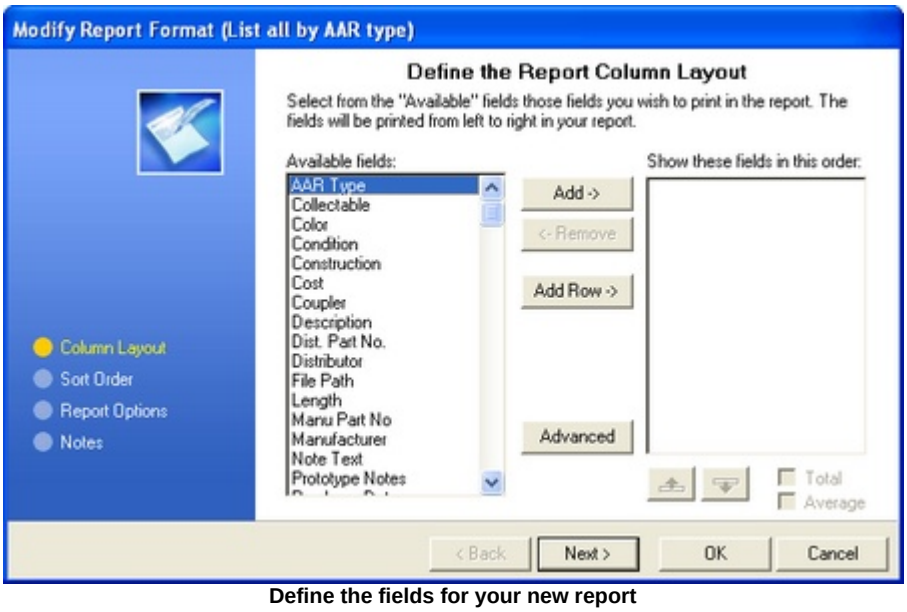
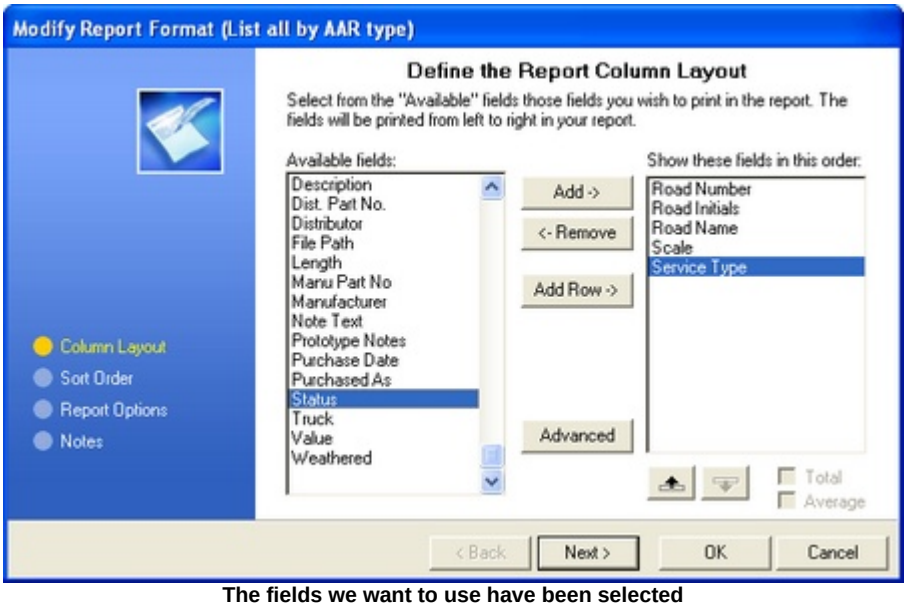


Define the fields for your new report

This window is used to select the fields you want on your report. First find the field you want to select from the Available Fields list. Once it has been found click to highlight then click the Add button. You can also use drag and drop to add to the report definition.

Once the fields are added the order can be changed by using the Up or Down buttons at the bottom of the list box. To remove a field first select it then click the Remove button.



The fields we want to use have been selected

We have selected the following for our example:
1. Road Number,
2. Road Name,
3. Scale, and
4. Service Type.

Click the Next button at the bottom of the window to continue with the next step. You could click the

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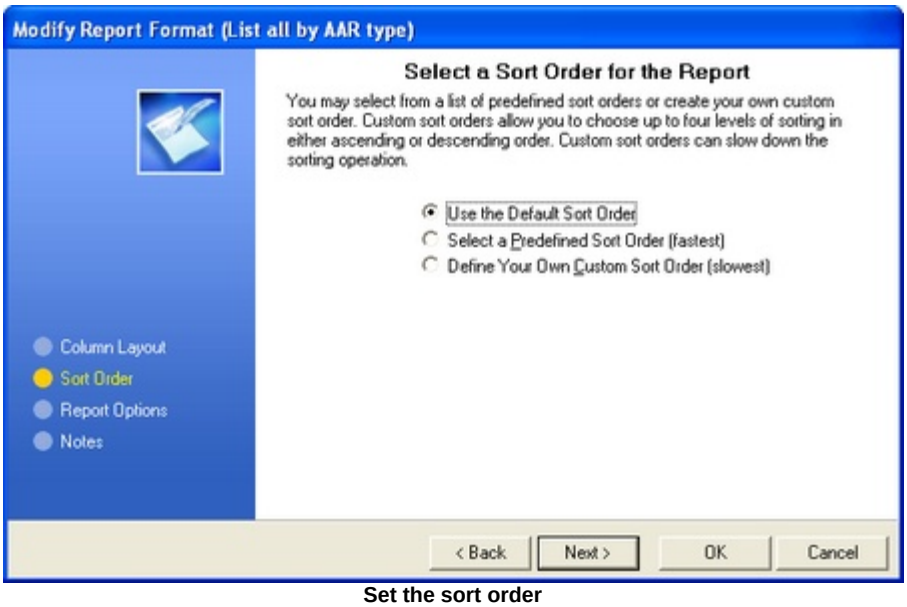
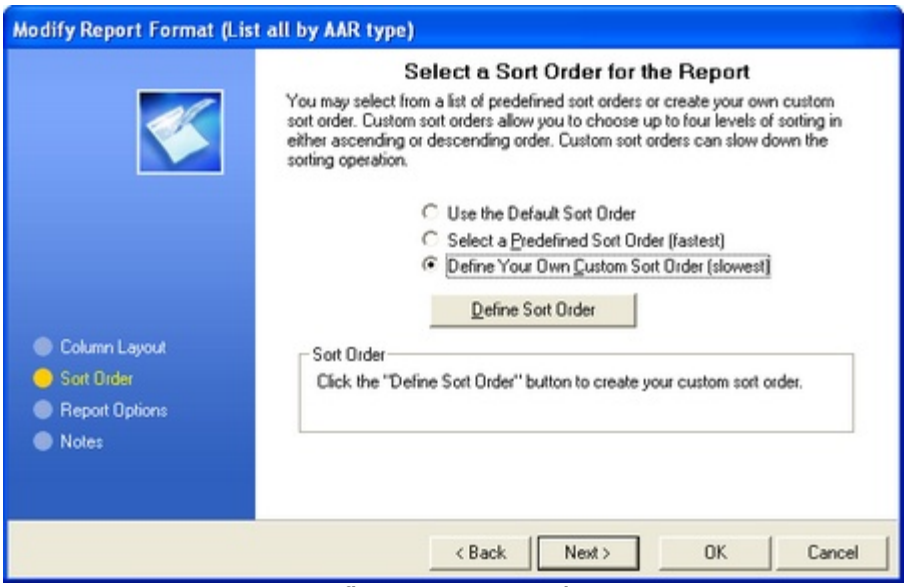
OK button to save and run your report but there are some features that will make our report more useful.



Set the sort order

Here you define the sort order of the report. There are some predefined sorts but you can add your own if the report need it.



Define your own sort order

Highlight the "Define Your Own Custom Sort Order". Yes, it is the slowest but unless you have thousands of records you will not notice a difference. Besides this is what we need to do to get the report formatted so it is of use.

Click the Define Sort Order button to open a new window.

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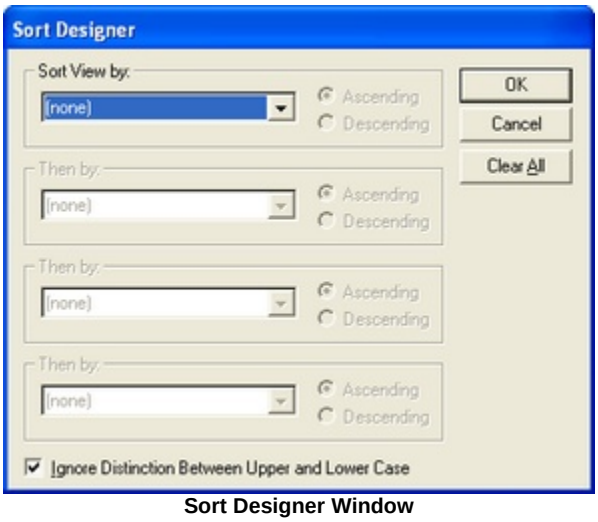
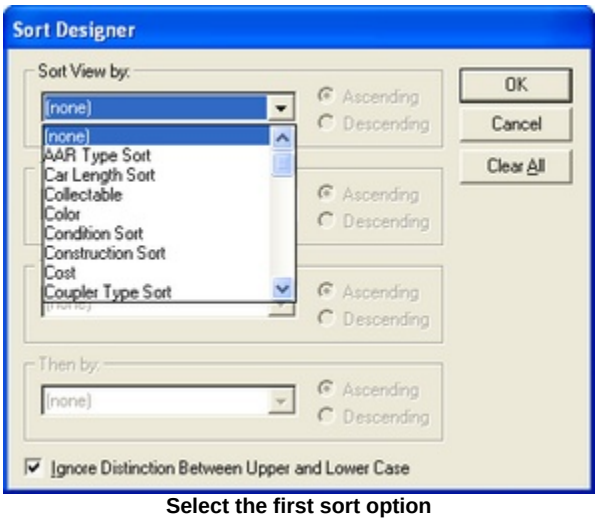


Sort Designer Window

There are four sort options and a number of sort fields for each option. Click the down arrow on the right of the first field.



Select the first sort option

We are going to click the AAR Type Sort option to select it. We are going to leave the sort direction as Ascending. Then we are going to select the Manufacturer Sort in the second sort field.

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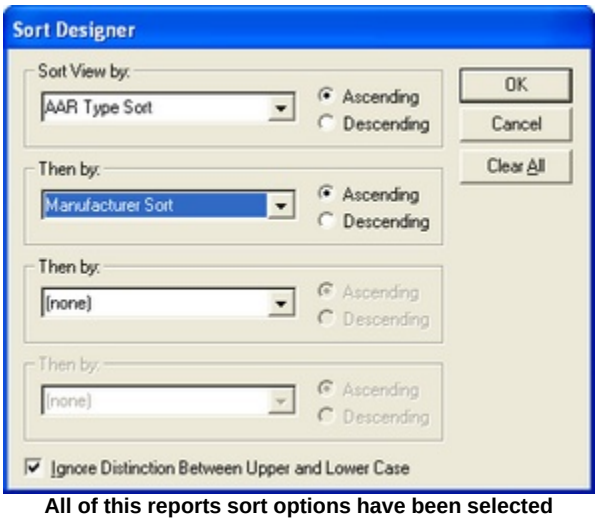
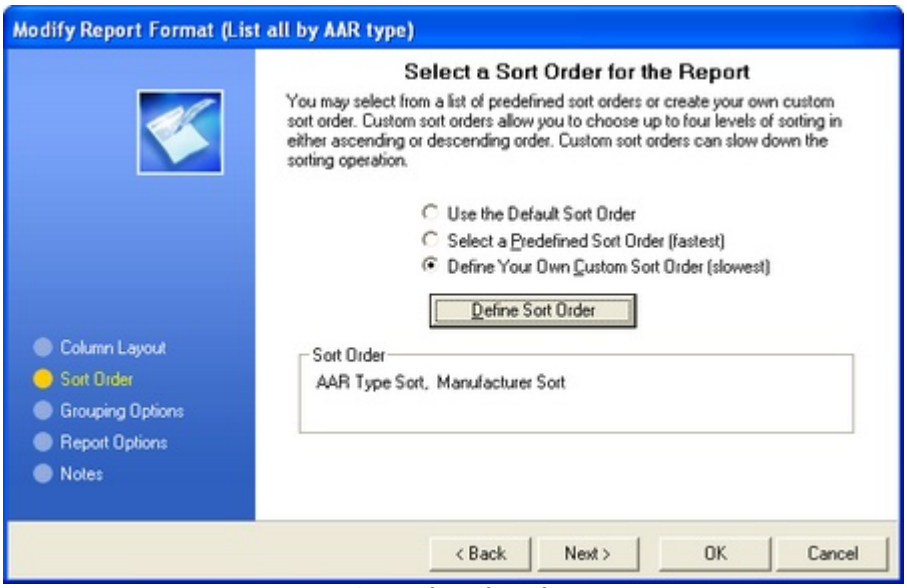


All of this reports sort options have been selected

Now that the sort options we want to use have been selected click the OK button to close the window and return to the parent window.



Sort order selected.

Now that our Sort Order has been selected click the Next button to continue with your new custom report.

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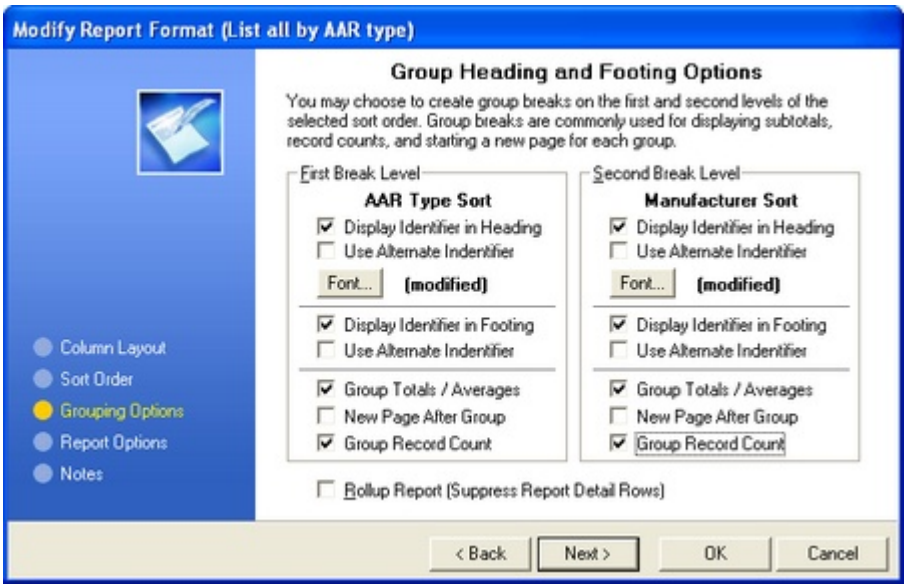
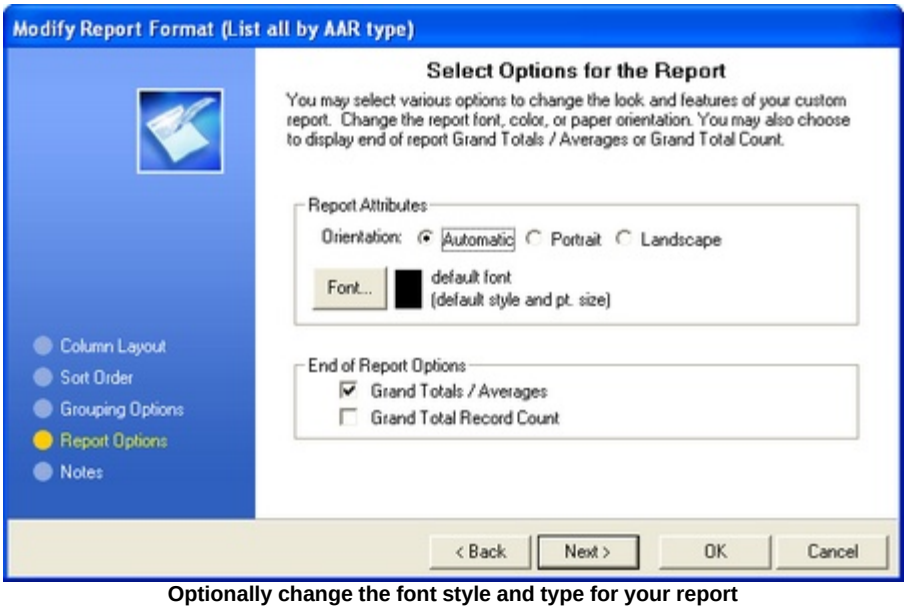


On this screen, we have a number of features we can use to make our report more informative and easier to read. First, we are going to have a break for each of our sort fields, AAR Type and Manufacturer.

We have edited the Font style to print both the sort fields in blue so they will stand out.

Lastly, we want some totals to let us know how many of the cars we have by manufacturer and AAR type.

Click the Next button for more selections.



Optionally change the font style and type for your report

This window allows you to manipulate how the report will look when complete. Our advice is to try a setting, and review the result. If you don't like the result you may modify the report.

This window allows you to select portrait or landscape, and to use different font style and size. By

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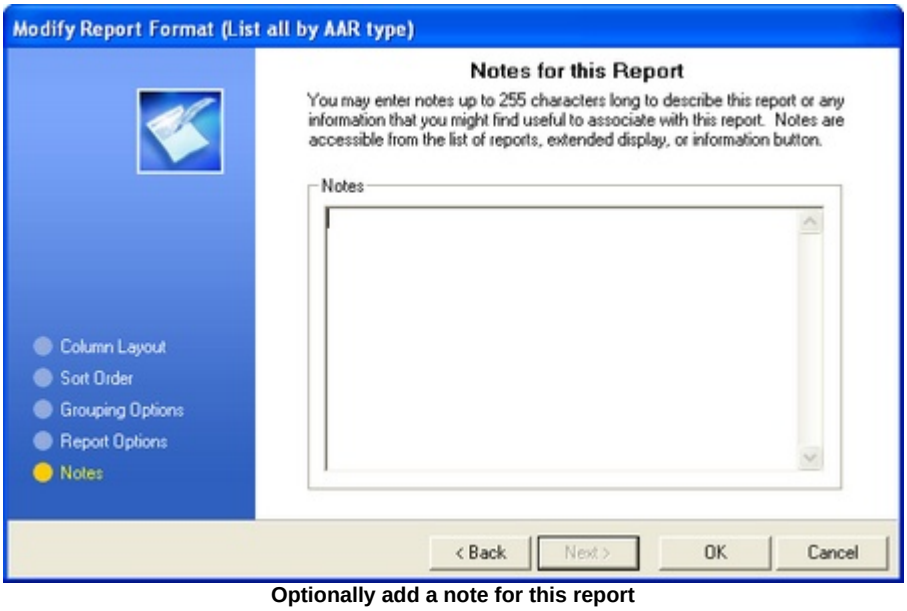
default all numbers will have the total option will have a check mark for every numeric field.

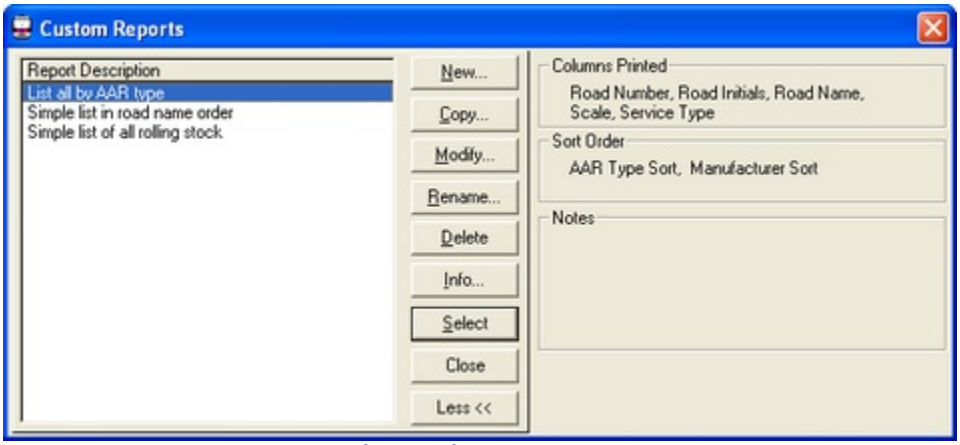
We are not going to change our options for this report and will continue. It is always best to leave the Orientation on Automatic. Let the number and width of the report fields determine if landscape is necessary.



Optionally add a note for this report

[****]

If you would like to add a note to yourself, you can enter the information here. Click the OK button to end the design for this report. You can open the report by clicking the Modify button to make any changes that may be needed.



The complete new report.

Click the Select button to run the new report, which is highlighted, on the left of the Custom Report window.

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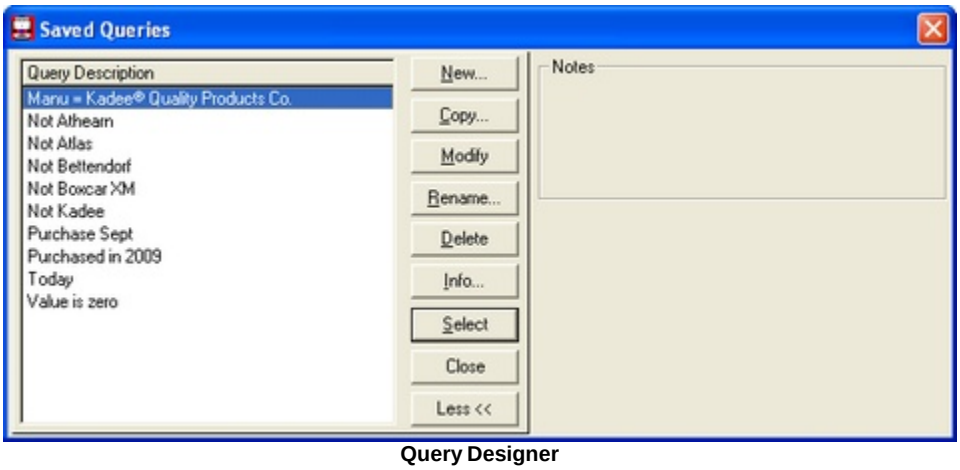
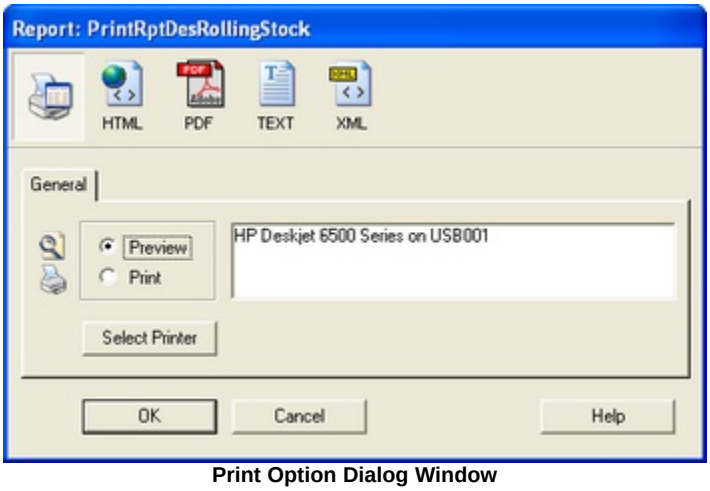


Query Designer

Ignore the Saved Queries Designer for now and click the Close button to run the report we designed.



Print Option Dialog Window

All reports included in this program have the above dialog box. The default option is to your default printer.

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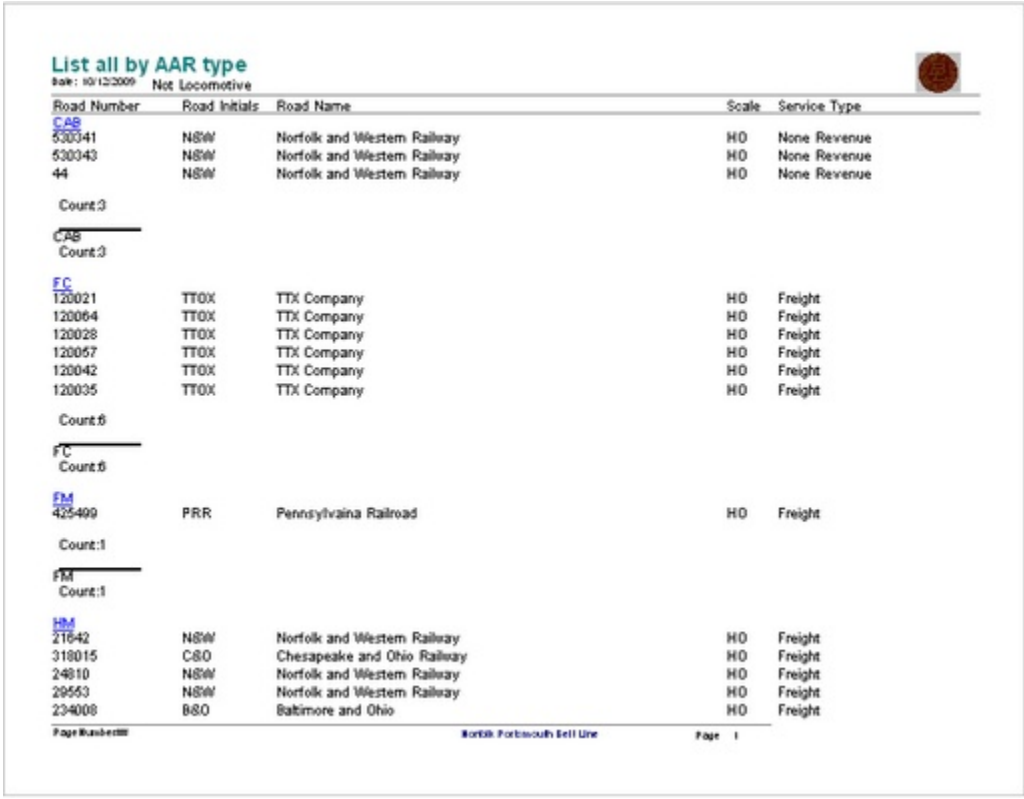


List all by AAR type

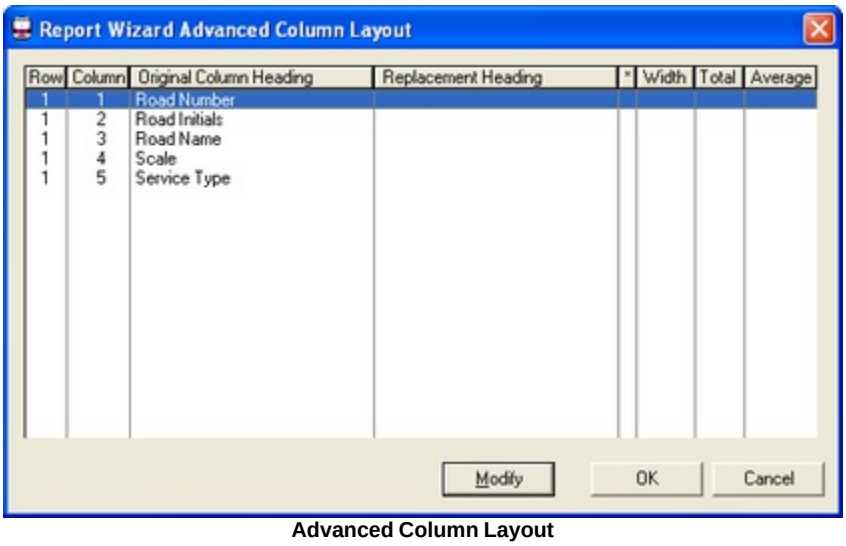
Date: 10/12/2009 Not Locomotive

Road Number	Road Initials	Road Name	Scale	Service Type
CAB				
530341	NSW	Norfolk and Western Railway	HO	None Revenue
530343	NSW	Norfolk and Western Railway	HO	None Revenue
44	NSW	Norfolk and Western Railway	HO	None Revenue
Count:3				
CAB Count:3				
FC				
120021	TTOX	TTX Company	HO	Freight
120064	TTOX	TTX Company	HO	Freight
120028	TTOX	TTX Company	HO	Freight
120057	TTOX	TTX Company	HO	Freight
120042	TTOX	TTX Company	HO	Freight
120035	TTOX	TTX Company	HO	Freight
Count:6				
FC Count:6				
FM				
425499	PRR	Pennsylvaina Railroad	HO	Freight
Count:1				
FM Count:1				
HM				
21642	NSW	Norfolk and Western Railway	HO	Freight
318015	C&O	Chesapeake and Ohio Railway	HO	Freight
24810	NSW	Norfolk and Western Railway	HO	Freight
29553	NSW	Norfolk and Western Railway	HO	Freight
234008	B&O	Baltimore and Ohio	HO	Freight

First printing of new report

Notice the large area taken up by the Road Name field. There is a way to fix this and here is how:

1. Click Report Designer,
2. Click the Modify button to open the designer,
3. Click the Advanced button in the middle, near the bottom.



Advanced Column Layout

4. Highlight Road Name and click the Modify button.
5. Change the "Width of Column in Characters" to 30.
6. Click OK to close the window.
7. Click OK on the next two windows to get back to Custom Reports.
8. Click the Select button to run the report again.

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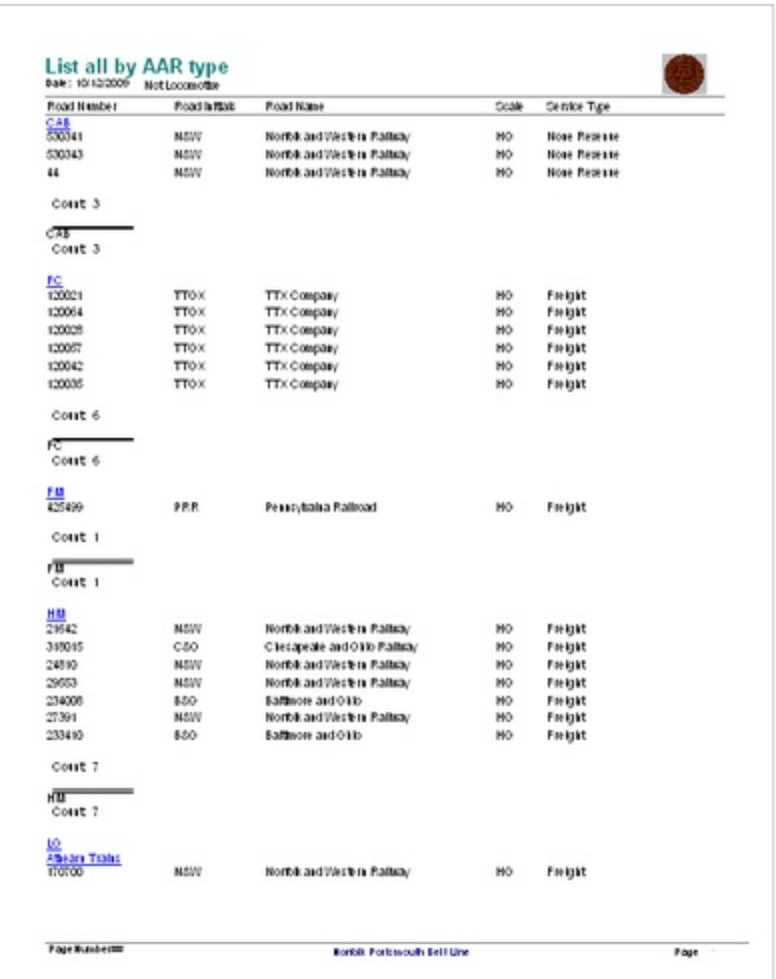

Edited report after changing the column width

The report is clearer and is in portrait instead of landscape with a lot of white space.

The Report Designer is a very powerful tool that will allow you to create and save for later use specific reports about your railroads rolling stock, locomotives, and passenger equipment.

Also see:View Designer, Cross Reference, Query Designer, and Spreadsheet Designer.

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8.2 Report Examples

The following section shows the different report that can be easily done with the information once it has been entered into Easy Model Railroad Inventory. There are only three of the many that can be printed. Most of these reports also have the Query Designer available to allow further customization of the report. Many reports also have the option to send the report to destinations other than the default printed.

The three examples we have here are:
1. Freight w/pictures,
2. Freight Insurance w/pictures, and
3. NMRA Valuation Sheet.

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Also see: Query Designer

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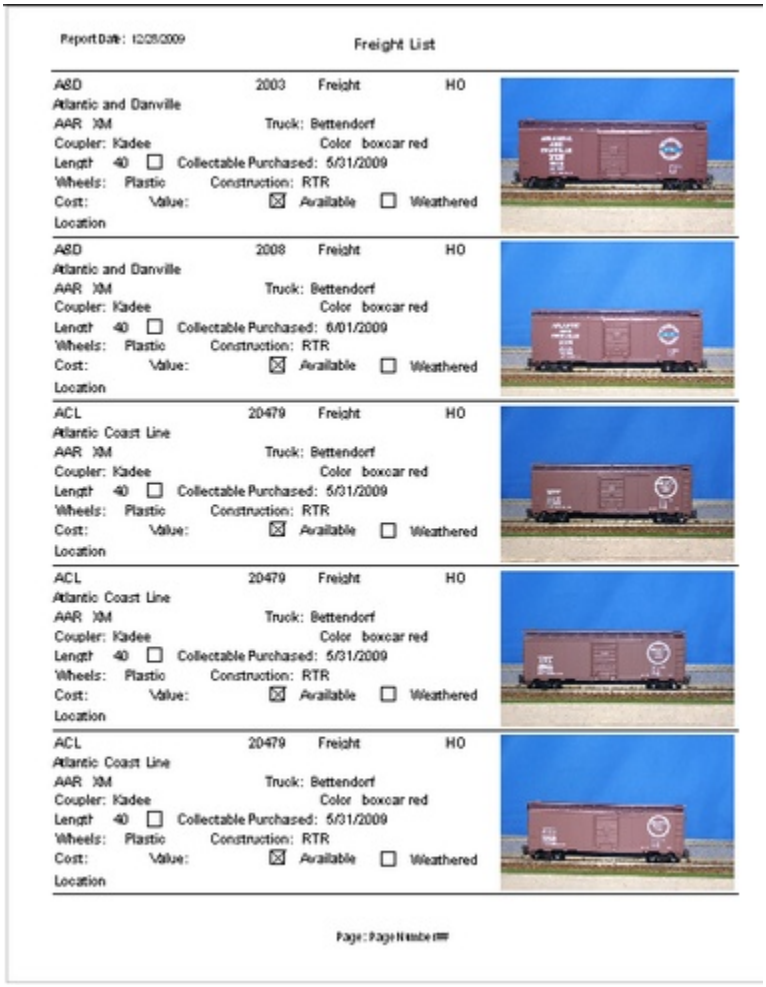
8.2.1 Freight w/pictures

The first is Freight with pictures as seen below.



Report Date: 12/28/2009

Freight List

ASD	2003	Freight	HO	
Atlantic and Danville				
AAR XM		Truck: Bettendorf		
Coupler: Kadee		Color boxcar red		
Length 40 ☐	Collectable Purchased: 5/31/2009			
Wheels: Plastic	Construction: RTR			
Cost:	Value:	☒ Available	☐ Weathered	
Location				
ASD	2008	Freight	HO	
Atlantic and Danville				
AAR XM		Truck: Bettendorf		
Coupler: Kadee		Color boxcar red		
Length 40 ☐	Collectable Purchased: 6/01/2009			
Wheels: Plastic	Construction: RTR			
Cost:	Value:	☒ Available	☐ Weathered	
Location				
ACL	20479	Freight	HO	
Atlantic Coast Line				
AAR XM		Truck: Bettendorf		
Coupler: Kadee		Color boxcar red		
Length 40 ☐	Collectable Purchased: 5/31/2009			
Wheels: Plastic	Construction: RTR			
Cost:	Value:	☒ Available	☐ Weathered	
Location				
ACL	20479	Freight	HO	
Atlantic Coast Line				
AAR XM		Truck: Bettendorf		
Coupler: Kadee		Color boxcar red		
Length 40 ☐	Collectable Purchased: 5/31/2009			
Wheels: Plastic	Construction: RTR			
Cost:	Value:	☒ Available	☐ Weathered	
Location				
ACL	20479	Freight	HO	
Atlantic Coast Line				
AAR XM		Truck: Bettendorf		
Coupler: Kadee		Color boxcar red		
Length 40 ☐	Collectable Purchased: 5/31/2009			
Wheels: Plastic	Construction: RTR			
Cost:	Value:	☒ Available	☐ Weathered	
Location				

Page: Page Number

Freight report with photographs

Also see: Query Designer

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8.2.2 Freight Insurance w/pictures

Insurance with pictures is next.

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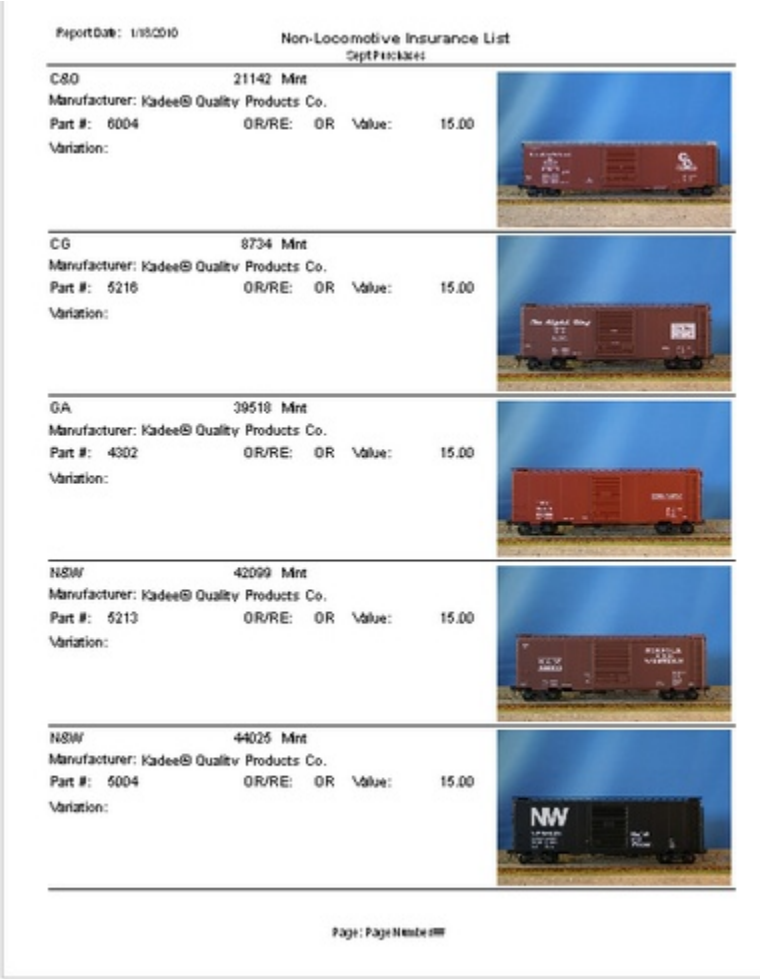

Report Date: 1/18/2010

Non-Locomotive Insurance List

Dept Packages

C&O 21142 Mint
Manufacturer: Kadee® Quality Products Co.
Part #: 6004 OR/RE: OR Value: 15.00
Variation:

CG 8734 Mint
Manufacturer: Kadee® Quality Products Co.
Part #: 5216 OR/RE: OR Value: 15.00
Variation:

GA 39518 Mint
Manufacturer: Kadee® Quality Products Co.
Part #: 4302 OR/RE: OR Value: 15.00
Variation:

N&W 42099 Mint
Manufacturer: Kadee® Quality Products Co.
Part #: 5213 OR/RE: OR Value: 15.00
Variation:

N&W 44025 Mint
Manufacturer: Kadee® Quality Products Co.
Part #: 5004 OR/RE: OR Value: 15.00
Variation:

Page: Page Number ###

Also see: Query Designer

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8.2.3 NMRA Valuation Sheet

Below is an example of the completed NMRA Valuation Sheet for the locomotive file. You can see that this report is the Original Inventory sheet submitted to the NMRA and insurance company.

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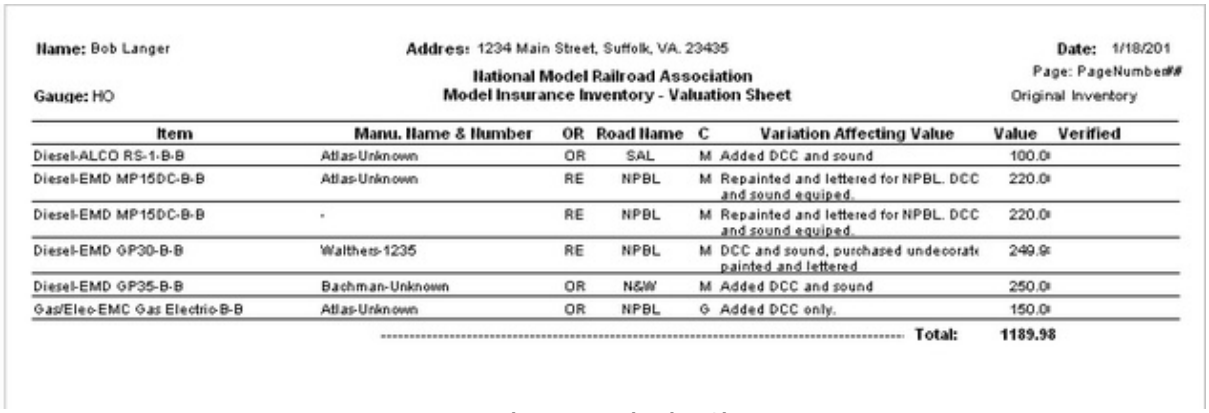

Name: Bob Langer **Address:** 1234 Main Street, Suffolk, VA. 23435 **Date:** 1/18/201

Gauge: HO

National Model Railroad Association
Model Insurance Inventory - Valuation Sheet

Page: PageNumber## Original Inventory

Item	Manu. Name & Number	OR	Road Name	C	Variation Affecting Value	Value	Verified
Diesel-ALCO RS-1-B-B	Atlas-Unknown	OR	SAL	M	Added DCC and sound	100.0	
Diesel-EMD MP15DC-B-B	Atlas-Unknown	RE	NPBL	M	Repainted and lettered for NPBL. DCC and sound equiped.	220.0	
Diesel-EMD MP15DC-B-B	-	RE	NPBL	M	Repainted and lettered for NPBL. DCC and sound equiped.	220.0	
Diesel-EMD GP30-B-B	Walthers-1235	RE	NPBL	M	DCC and sound, purchased undecorate painted and lettered	249.9	
Diesel-EMD GP35-B-B	Bachman-Unknown	OR	N&W	M	Added DCC and sound	250.0	
Gas/Elec-EMC Gas Electric-B-B	Atlas-Unknown	OR	NPBL	G	Added DCC only.	150.0	
					Total:	**1189.98**	

Example NMRA Valuation Sheet

Also see: NMRA Insurance for more information.

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8.2.4 Show List Report

Have you ever attended a model train show, purchased a number of cars or locomotives only to find out you already had one or more of them? The Show List report will help you avoid having that happen.

There are two Show List reports, one for locomotives and one for all other rolling stock. Access the menu selection from the main pull down menu. Under Rolling Stock > Reports and Locomotives > Reports.

The report fields consist of the reporting mark and the road number. There are seven columns which are read from left to right. There are about 50 entries per column times 7 columns. That is 350 per page.

The sort order is by reporting mark and road number. The hard part is remembering to print it out and to bring it with you.

Easy Model Railroad Inventory Home Page or Contact RCL Software

9 Import Options

Although there are many entry options available of each item, remember only the required fields must be filled out. Leaving out most of the fields that are not required will not effect the operation of the software, however, the more data you can supply the better. This software is designed for anyone (novice to Master Model Railroader) wanting to do operations on their railroad.

Importing your current model railroad information can be done but must be done carefully. Imports may be done from the following source files:

1. MS Excel - Defaults to XLS file extension.

If you have Excel 2007 files you will need save them as a 97 - 2003 Workbook which is a format Easy Model Railroad Inventory import supports.

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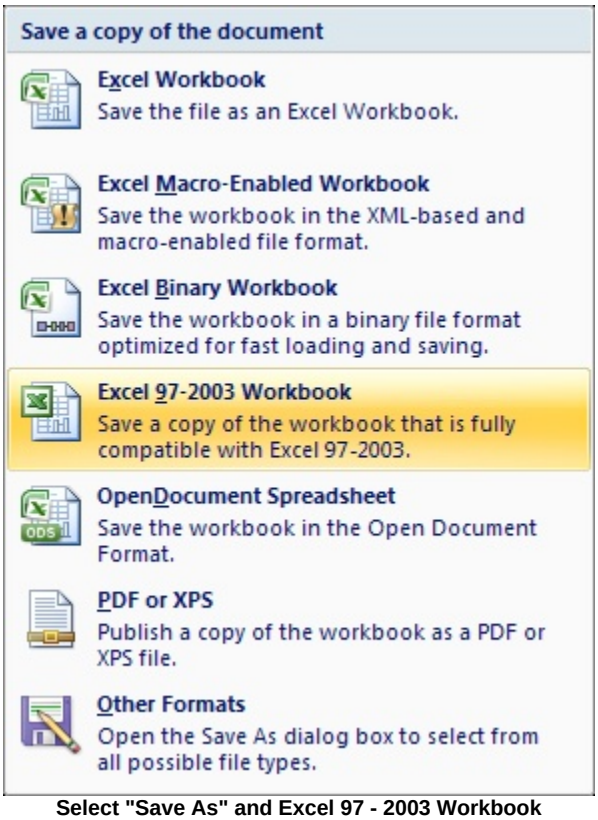

Select "Save As" and Excel 97 - 2003 Workbook

Selecting this Save As option in Excel will save a new file with the XLS extension.

2. ASCII Delimited: Recommended - where the fields are comma delimited. Any version of Excel has the option to save a file using this format. Select the "Other Formats" when saving in Excel,

3. Flat ASCII,

4. Dbase 3 and Dbase 4. Recommended - Excel 2007 does not have the option to save using the Dbase format, but all earlier formats do. We recommend Dbase over all others if your version of Excel is 2003 or before.

There are two general hints that will help you be successful must faster:

1. If your file does not have a header for each column add one.

2. Use the same names as we do. This will make matching your source data with our destination fields much easier.

From the main menu bar click File > Railroad > Equipment > Excel. The following demonstration is to import from an Excel file into the Easy Model Railroad Inventory equipment file.

Step 1:

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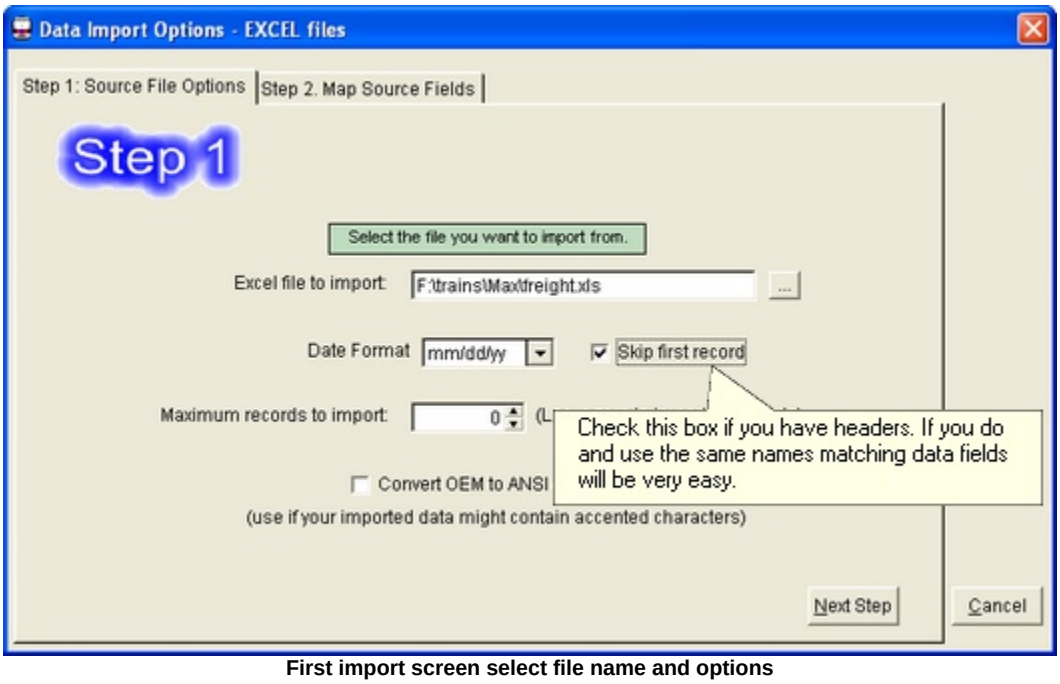
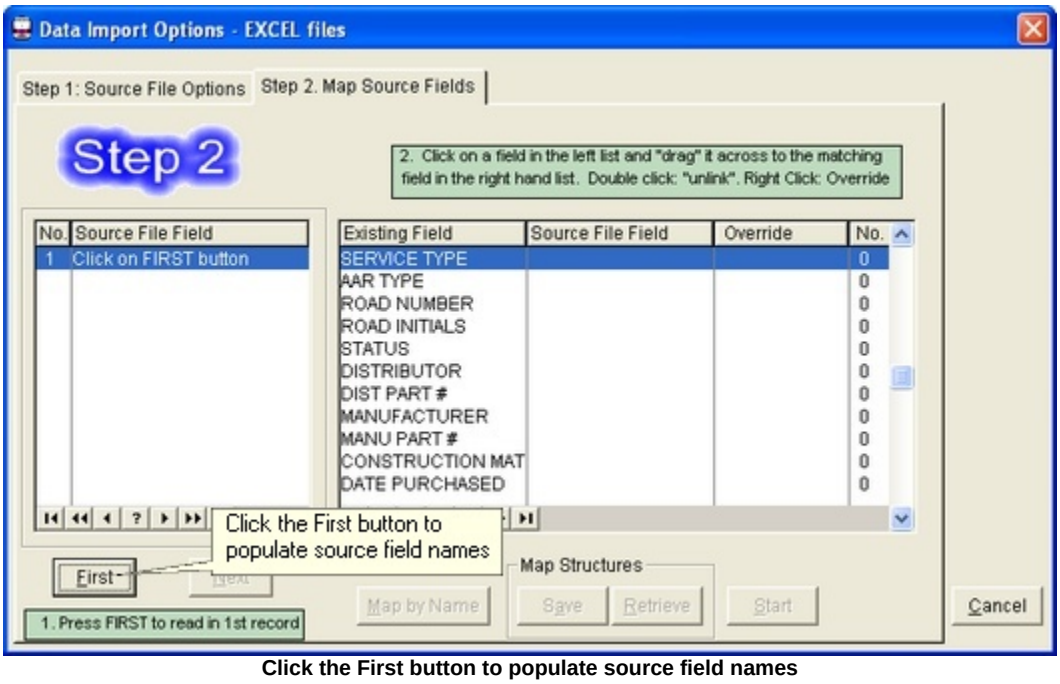


First import screen select file name and options

NOTE: If importing the Purchase Date field it is important to have the source file, Dbase or ASCII Delimited recommended, in the format MM/DD/YY. Excel date fields are problematic which is one of the reasons we do not recommend this file format.

Step 2:



Click the First button to populate source field names

Click the First button to populate the source file fields. This action will fill in the column names used in your file, in this example an Excel file, allowing you to match each source field with the correct destination field. The chances of you using the same naming convention for your columns are not very

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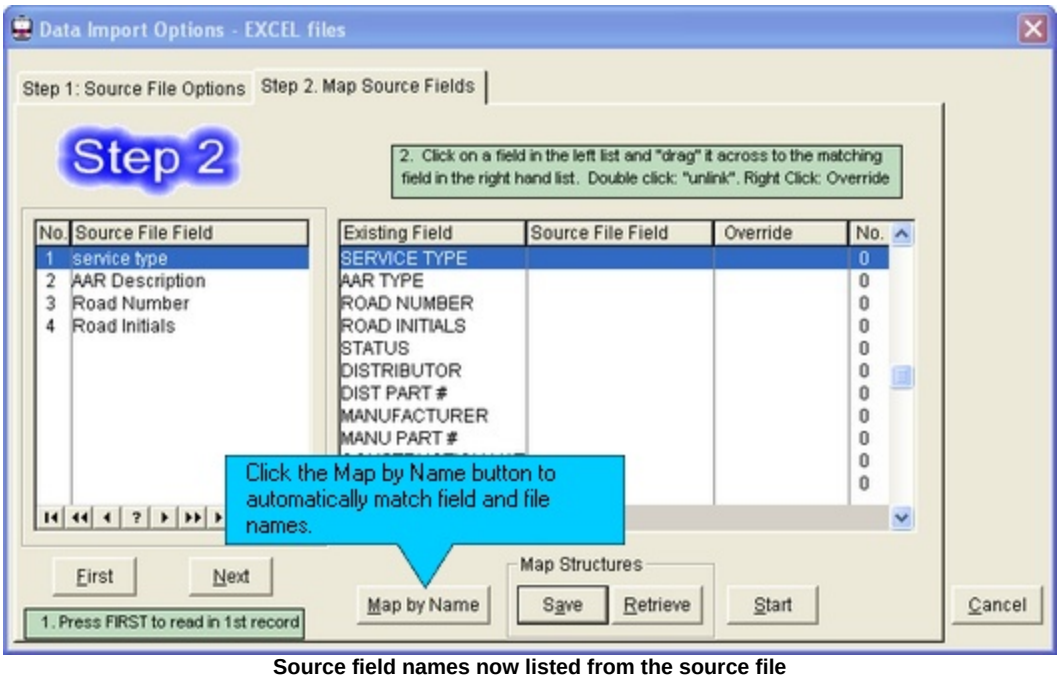
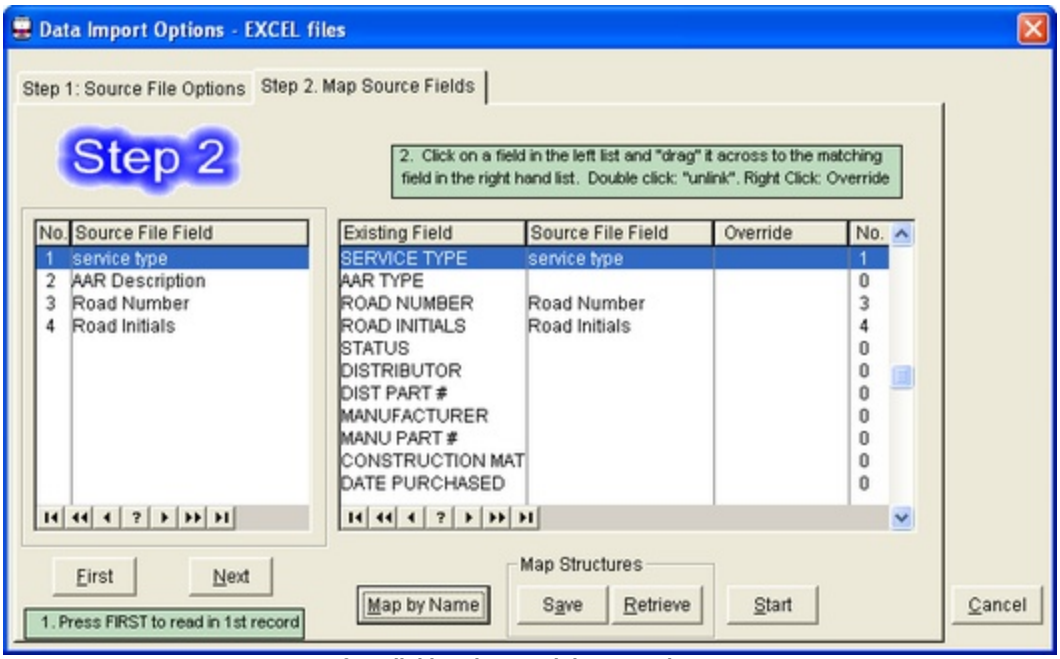
good. However, it will be much easier for you if you do use exactly the same names as we do in our program.



Source field names now listed from the source file

These fields listed are the four required fields in the equipment file. Next click the Map by Name button to match the source name to the destination field name.



After clicking the Match by Name button

You can see the AAR Type field is blank because the source file used the name AAR Description. To populate the destination field left click, hold, and drag AAR Description to AAR Type.

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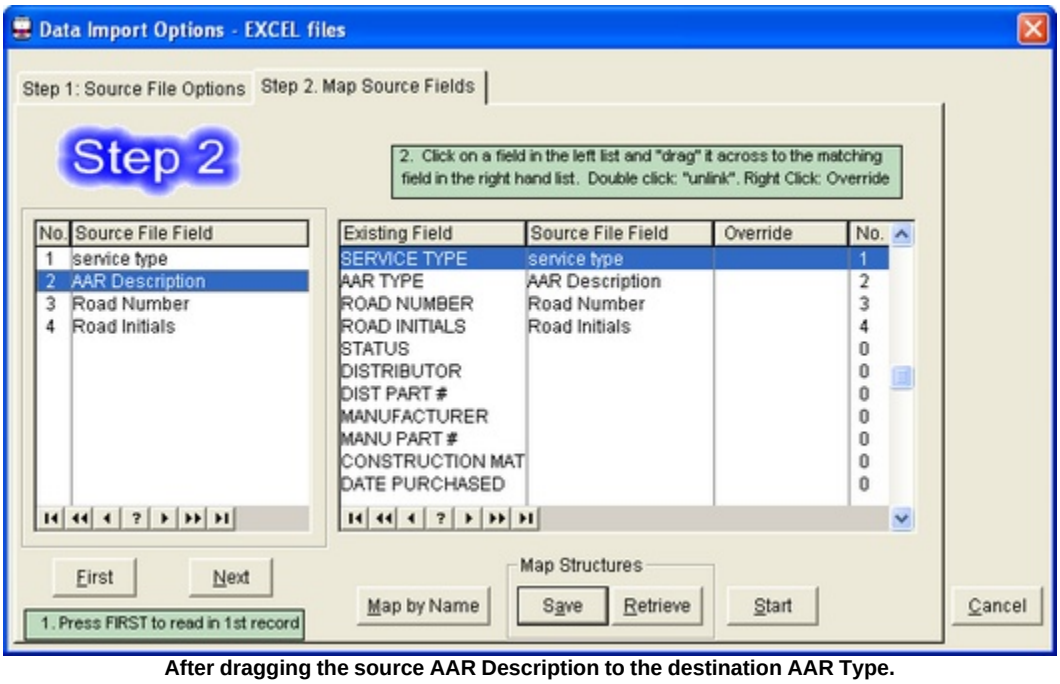
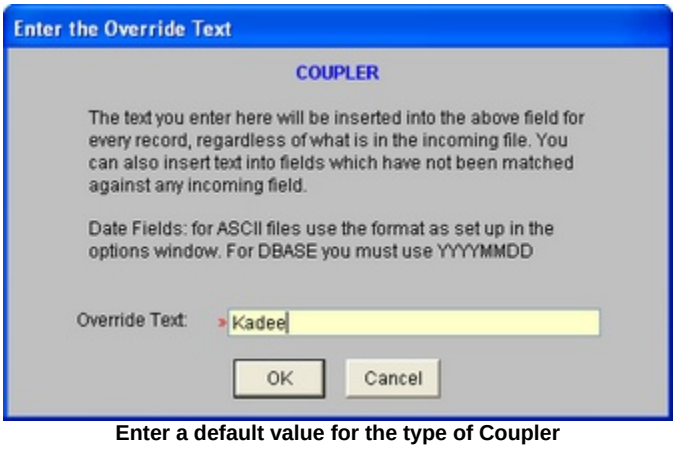


After dragging the source AAR Description to the destination AAR Type.

These fields are the minimum fields required by the equipment file. You will have seen there are many other fields in the equipment file that you may or may not have in your source file. If you do have any of these optional fields and used the same names we used when you clicked the Map by Name button, all of the destination fields would have been populated. How about fields you do not have but want to give a value to as you import.

Declaring default import options:

Right clicking on the field to add a default will open this window. We right clicked on the coupler field.



Enter a default value for the type of Coupler

Enter the default value, in this example we will enter Kadee. If all your couplers are one type, or even the great majority, we recommend defaulting to that type. Editing a few individually is easier than editing every record when the import is complete. This is true with not only couplers, but trucks, availability, scale and the many other fields.

Note: Make sure the Coupler file has the name of your coupler BEFORE importing.

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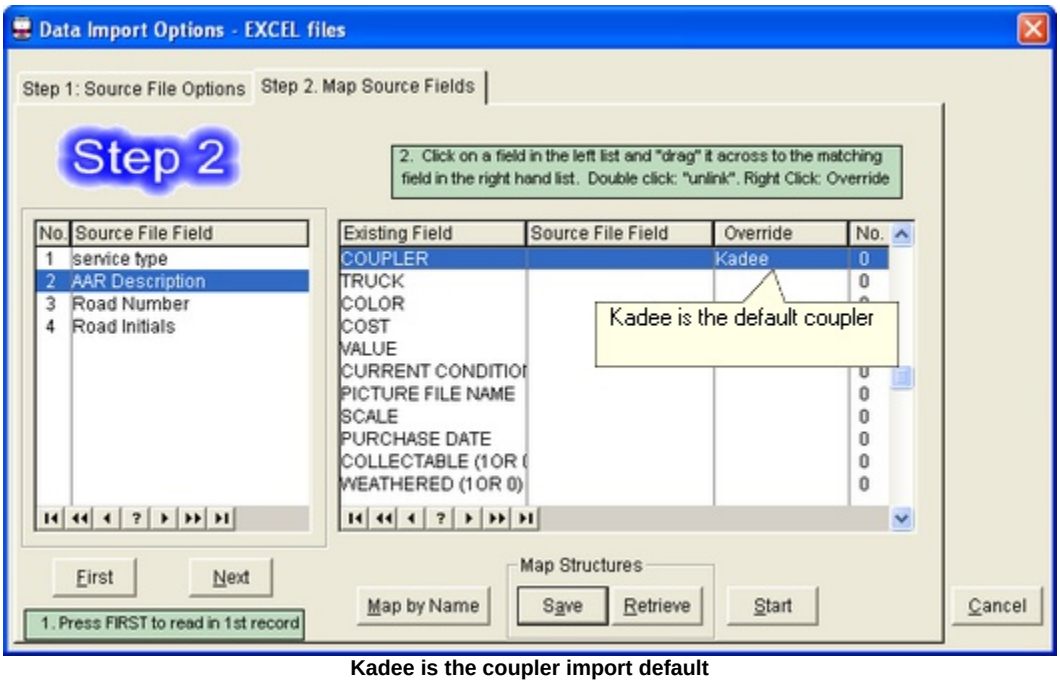

Kadee is the coupler import default

Click the Start button to begin the import process. For specific information regarding the importing of equipment, please see: Freight, Passenger & Non-revenue,and Locomotives.

If you are not successful in your first attempt at importing your current rolling stock list, you may start over by deleting the file and starting over. There is a menu option to remove the file.

Also see: Initialize Equipment

Easy Model Railroad Inventory Home Page or Contact RCL Software

9.1 Equipment

It probably easier to import your equipment using multiple source files. We suggest starting with the AAR Types and Road Names before attempting to tackle your equipment. The import will NOT add a new record to any lookup file. Every field in every record in the source file will be evaluated as to it's validity. If any one fields value is not valid the source record will not by added to the equipment file. The specific fields and/or values are listed in the following sections.

It is very important the the section Import Options be read and understood.

Click on the hyperlinks below to review example spreadsheets we suggest using as a model for your source files. The file does not have to be an Excel file as we use in our examples. Dbase 3, Dbase 4, Delimited ASCII, and Flat ASCII may also be imported. Personally I prefer to use Dbase. However, Excel 2007 does not support saving in Dbase format, though a Dbase file can be opened. If you are using Excel 2007 we suggest using the Excel program to organize and fill in your data but save the file in the CVS format, comma delimited.

Freight, Passenger & Non-revenue,

Locomotives.

Also see: Initialize Equipment

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9.1.1 Freight, Passenger & Non-revenue

File > Import > Railroad > Equipment

Although there are many entry options available of each item, remember only the required fields must be filled out. Leaving out most of the fields that are not required will not effect the operation of the software, however, the more data you can supply the better. This software is designed for anyone (novice to Master Model Railroader) wanting to have an inventory of their rolling stock.

There are only four required fields that must have a value before an import will be successful. They are:

1. Service Type: Freight, Passenger, Non-revenue, or MOW. Required. Invalid data will cause the record NOT to be added.
2. AAR code for cars other than a locomotive. Required. The value must exist in the AAR Code file. Invalid data will cause the record NOT to be added.
3. Road number, Required.
4. Reporting Mark (Road initials) and name. Required. The value must exist in the Road Name file. Invalid data will cause the record NOT to be added.

	A	B	C	D	E
1	Service	Road Initials	Road Number	AAR Type	
2	Freight	NADX	13107	RBL	
3	Freight	NH	67320	XM	
4	Freight	PRR	47492	XM	
5	Freight	SAL	15511	XM	
6	Freight	A&D	2003	XM	
7	Freight	PRR	29083	XM	
8	Freight	SOU	95604	XM	
9	Freight	BM	70215	XM	
10	Freight	B&O	110268	SM	
11	Freight	MSCX	1525	SM	
12	Freight	GSX	4198	SM	
13	Freight	WCLX	2115	RBL	
14	Freight	N&W	361513	XM	
15	Freight	WCLX	2107	RBL	
16	Freight	DL&W	51966	XM	
17	Freight	BAR	6734	RBL	
18	Freight	NNY	623	XM	
19	Freight	ACL	20479	XM	
20	Freight	ACL	20479	XM	
21	Freight	SOU	21257	XM	
22	Freight	N&W	361514	XM	
23	Freight	NW	44552	XM	
24	Freight	ACL	20479	XM	
25	Freight	PRR	71473	XM	
26	Freight	NH	154938	XM	

The minimum information necessary for a successful import

The above four are all that is necessary. The columns may be in any order but using the same names we do will make matching the source field to the destination field easier.

All of the other fields are optional and you may or may not have the information available in your current method of cataloging. Each field has a different purpose. Some are used to build the NMRA required insurance forms, others are used for operations.

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You can add additional columns to the required fields for many of the optional fields that are part Freight. Passenger, Non-revenue and MOW section of the equipment file.

List of additional optional fields used for Freight, Passenger, MOW, and Non-revenue rolling stock:

1. Coupler, Lookup file, The value must exist in the Coupler Type file. Invalid data will cause the record NOT to be added. Can be initialized after import is complete using the Set Equipment Values process.

2. Trucks, Lookup file, The value must exist in the Truck Type file. Invalid data will cause the record NOT to be added. Can be initialized after import is complete using the Set Equipment Values process.

3. Purchase Date, Must be in text format MM/DD/YY.

4. Color,

5. Length, Can be initialized after import is complete using the Set Equipment Values process.

6. Scale,

7. Wheels/Axles, Both, Metal or Plastic. Can be initialized after import is complete using the Set Equipment Values process.

8. Weathered, 1=True and 0=False.

9. Construction,

10. Collectable, 1=True and 0=False.

11. Cost,

12. Value, Can be initialized after import is complete using the Set Equipment Values process.

13. Purchased As, New or Used,

14. Condition, Mint, Good, Average, Poor or Bad, Can be initialized after import is complete using the Set Equipment Values process.

15. Manufacturer, Lookup file, The value must exist in the Manufacturer file. Invalid data will cause the record NOT to be added.

16. Manufacturer Part Number,

17. Available, 1=True and 0=False,

18. Status, Lookup file, The value must exist in the Status file. Invalid data will cause the record NOT to be added.

19. Location, Lookup file. The value must exist in the Shipper/Destination file. Invalid data will cause the record NOT to be added. See the Consignee/Destination Import instructions.

20. Original or Refinished, OR or RE. Can be initialized after import is complete using the Set Equipment Values process.

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9.1.2 Locomotives

File > Import > Railroad > Equipment

There are only four required fields that must have a value before an import will be successful. They are:

1. Engine Type: Steam, Diesel, Electric, Gas/Electric, Geared and Trolley.Required. Invalid data will cause the record NOT to be added.
2. A locomotive Model would be entered instead in place of the traditional AAR description. (Example: ALCO RS-2 or GP40.) Required. The value must exist in the AAR Code file. Invalid data will cause the record NOT to be added.
3. Road number, Required
4. Reporting Mark (Road initials) and name. Required. The value must exist in the Road Name file. Invalid data will cause the record NOT to be added.

	A	B	C	D	E
1	Service Type	Model	Road Number	Road Initials	Engine Type
2	Locomotive	EMD GP35	3545	N&W	Diesel
3	Locomotive	EMC Gas Electric	11	NPB	Gas/Elec
4	Locomotive	EMD MP15DC	170	NPB	Diesel
5	Locomotive	EMD MP15DC	184	NPB	Diesel
6	Locomotive	EMD GP30	6030	NPB	Diesel
7	Locomotive	ALCO RS-2	1646	SAL	Diesel

Basic Information needed to import locomotive info

The above four are all that is necessary. All of the other fields are optional and you may or may not have the information available in your current method of cataloging your rolling stock inventory.

The Model column is the same column, data field, as the AAR Type in the Freight, Passenger & Non-revenue.

List of additional optional fields used for Locomotive data:

1. Coupler, Lookup file, The value must exist in the Coupler Type file. Invalid data will cause the record NOT to be added. Can be initialized after import is complete using the Set Equipment Values process.

2. Trucks, Lookup file, The value must exist in the Truck Type file. Invalid data will cause the record NOT to be added. Can be initialized after import is complete using the Set Equipment Values process.

3. Purchase Date, Must be in text format MM/DD/YY.

4. Sound, 1=True and 0=False,

5. DCC, 1=True and 0=False,

6. Scale,

7. Weathered, 1=True and 0=False,

8. Construction,

9. Collectable,

10. Cost, 1=True and 0=False,

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11. Value, Can be initialized after import is complete using the Set Equipment Values process.

12. Purchased As, New or Used,

13. Condition, Mint, Good, Average, Poor or Bad,

14. Manufacturer, Lookup file, The value must exist in the Manufacturer file. Invalid data will cause the record NOT to be added.

15. Manufacturer Part Number,

16. Available, 1=True and 0=False,

17. Status, Lookup file, Status, Lookup file, The value must exist in the Status file. Invalid data will cause the record NOT to be added.

18. Location, Lookup file. The value must exist in the Shipper/Destination file. Invalid data will cause the record NOT to be added. See the Consignee/Destination Import instructions

19. Original or Refinished, OR or RE. Can be initialized after import is complete using the Set Equipment Values process.

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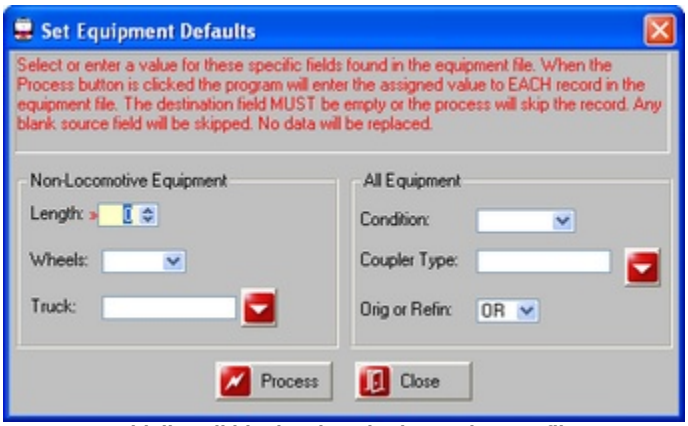
9.1.3 Set Equipment Values

File > Initialize Equipment

After a successful import of your equipment, you are able to set the values of selected fields. For example, you want to initialize the value of ALL the cars and locomotives coupler type. This is where you can do it. When the Process button is clicked, the program will read the equipment file using this criteria. If the destination field is blank or zero, the process will initialize the field and save it. If the field has a value it is skipped.



Initialize all blank values in the equipment file

There are two specific sections: fields common to all rolling stock and fields unique to non-locomotive rolling stock.

Fields common to all rolling stock is the condition, coupler, Original/Refinished and value.

Fields unique to Freight cars, Passenger cars, MOW, and Non-revenue equipment are: length, wheels and axles.

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The advantage of using this function is you will easily fill all of a specific field with a valid value. The disadvantage is you will easily fill all of a specific field with a valid value. You will have to decide if you want to use this process. If all of your couplers are Kadee, for example, you can quickly add it to every record.

On the other hand, if not all your couplers are of one type you will have to decide what to do. I use the 'half rule'. I will initialize a field to a value when I will have to edit less than half.

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9.1.4 Consignee/Locations

Before you can import the location field into the equipment file, either freight, passenger, locomotives or others, the value must exist in the location file. A location may be an industry, a yard or it might be a storage box numbered AA-2. Before a successful equipment import containing a value in the location field, that value must exist in the consignee/destination file.

If there is a value and it does not exist in the related consignee/destination file the record will be skipped and not added to the equipment list.

9.2 Library

File > Import > Library

Importing your library is possible but we suggest you use our MARC function to search the Library of Congress Voyager database to automatically enter all the information correctly.

The required fields are:
Title,
Author,
Author Code,
Publisher,
Copyright,
Dewey decimal number,
Location.

All of the above data fields is available from the Library of Congress using our MARC function. That leaves Location as the only field you must enter. This field is the physical location of the resource. It may be your Train Room. Or you may have loaned it to a friend. Enter his name so you know where it is. This field is one of the fields you may default in Preferences.

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9.3 Structures

File > Import > Structures

The structure file allows the user to enter and maintain all of the structures he owns weather on his layout or not. The file structure is simple:

1. Title of building,
2. Manufacturer,
3. Part #,
4. Scale,
5. Purchase Date,
6. Cost,
7. Value,

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8. Out of Production,
9. Is Deleted,
10. Condition, and
11. Original/Refinished.

There is a Note and Prototype note field. Finally, there is a picture path in the event a photo is available.

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9.4 Electronics

File > Import > Electronics

Importing your railroad's electronics is very straight forward. The only required field is a description of the item. However, if you want to submit an inventory sheet for NMRA insurance purposes more information is necessary.

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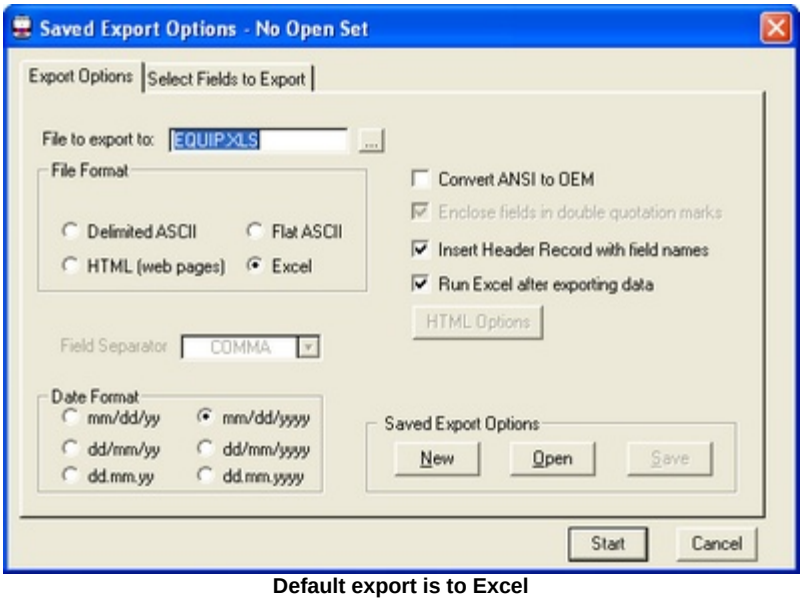
10 Export Options

There are a number of ways to export your equipment and this is just one. Using this option, you can export to Delimited ASCII, Flat ASCII, HTML (web pages), or Microsoft Excel. To export to and use Excel you must have the program installed on your computer. You can save to an Excel file but you will not be able to access it without having Excel installed on your computer.

Here is an example of an HTML export and the many options the user has available.

From the main menu bar click File > Export > Equipment. The following dialog window will display.



Default export is to Excel

Below the file name are the export options. Click the HTML (web page) option.

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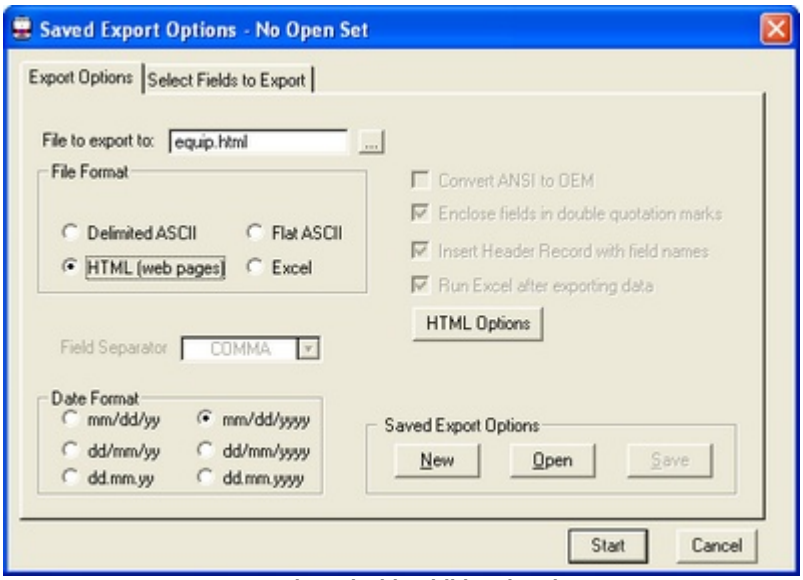
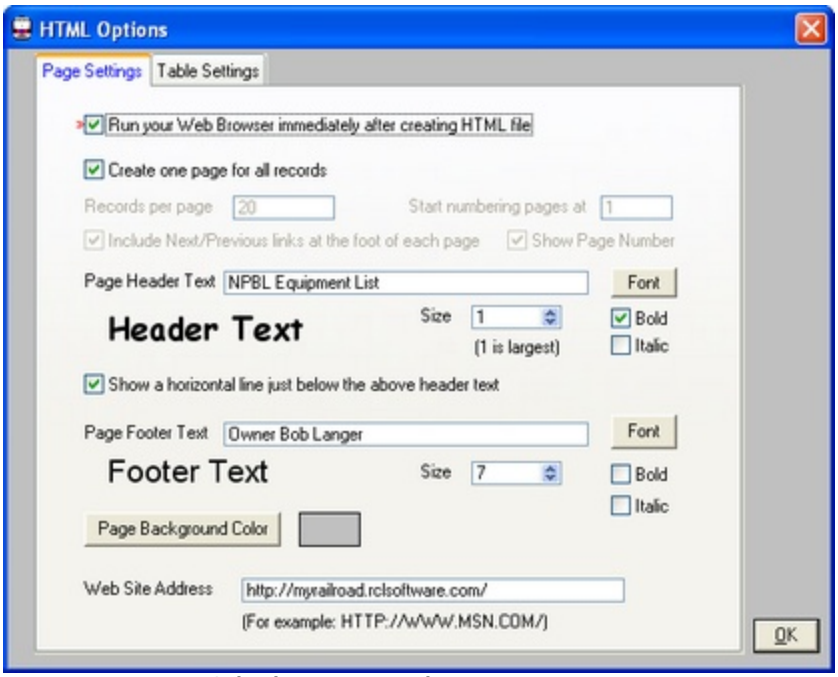


HTML selected with additional options

Click the HTML Options button to view how to control what your output will look.



Selections to customize your HTML page

Remove the check for 'Create one page for all records". This gives you the option to select the records per page and the starting page number. For our example we will leave the number of records at 20 and the starting page number as 1. You can experiment will the other fields and customize each to your own requirement.

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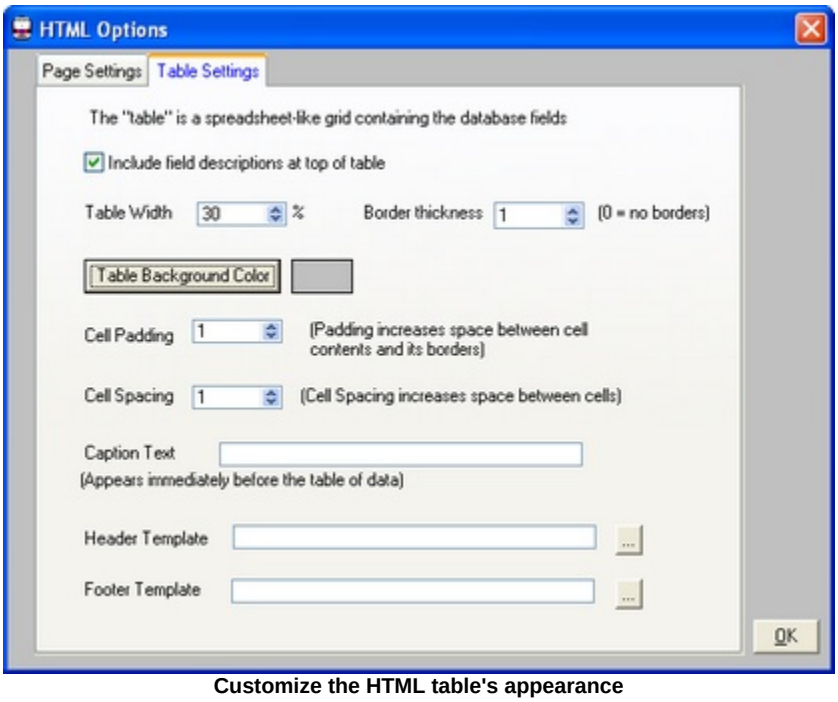
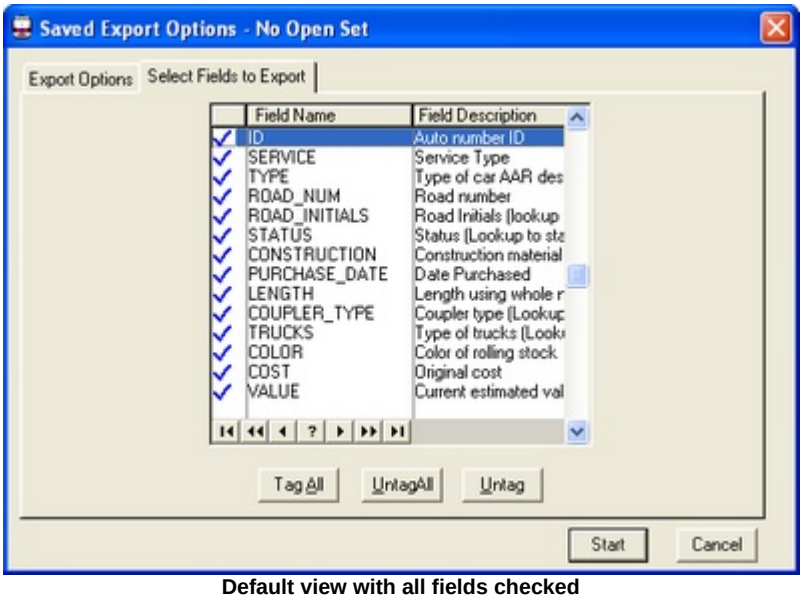


Customize the HTML table's appearance

After closing the HTML Options page by clicking the OK button, click the tab 'Select Fields to Export'. All of the fields in the file are tagged by default. We only want to export selected fields,



Default view with all fields checked

Click the UntagAll button to clear the tag column.

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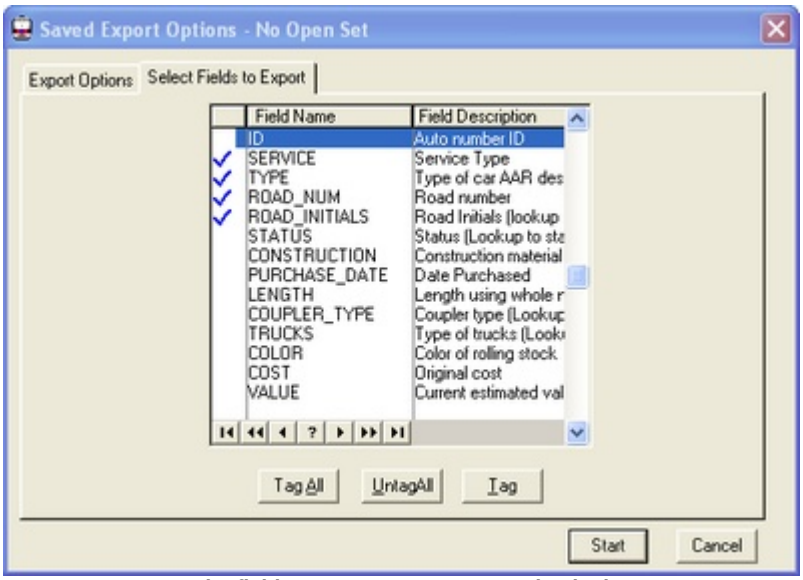
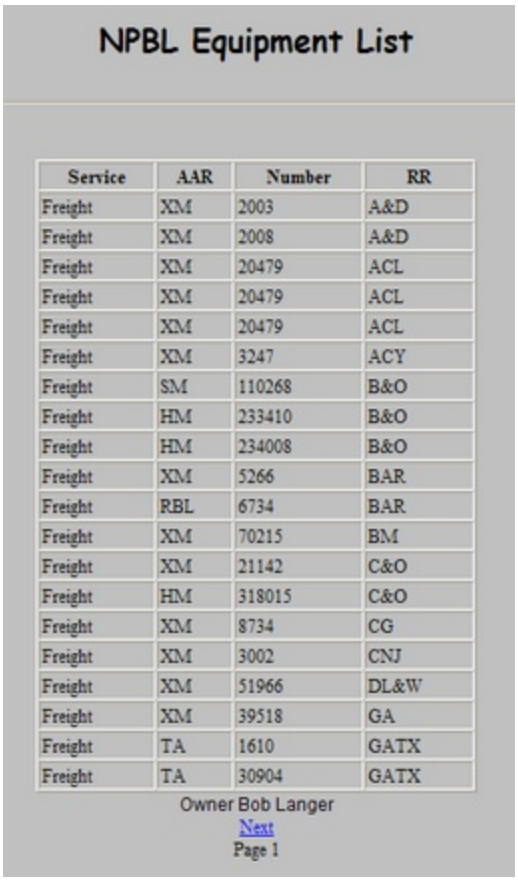


The fields we want to export are checked

Click start to begin the process of creating our HTML pages with 20 records per page and the page numbers starting with page one (1). Do not make the mistake of not selecting a limited number of fields when exporting to an HTML file. HTML pages have a very limited width, the output may not be legible, or the program will simply crash. Exporting to an Excel file is a different matter all together but when there are too many columns the resulting spreadsheet can be hard to read.



NPBL Equipment List

Service	AAR	Number	RR
Freight	XM	2003	A&D
Freight	XM	2008	A&D
Freight	XM	20479	ACL
Freight	XM	20479	ACL
Freight	XM	20479	ACL
Freight	XM	3247	ACY
Freight	SM	110268	B&O
Freight	HM	233410	B&O
Freight	HM	234008	B&O
Freight	XM	5266	BAR
Freight	RBL	6734	BAR
Freight	XM	70215	BM
Freight	XM	21142	C&O
Freight	HM	318015	C&O
Freight	XM	8734	CG
Freight	XM	3002	CNJ
Freight	XM	51966	DL&W
Freight	XM	39518	GA
Freight	TA	1610	GATX
Freight	TA	30904	GATX

Owner Bob Langer

Next

Page 1

HTML output page one.

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Here is the final output. Use the Next link to navigate between the pages. You could publish this as is or you could insert the HTML code into an existing HTML page.

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11 Rolling Stock

Rolling stock consists of locomotives, freight cars, passenger cars, and non-revenue cars. Non-revenue are MOW and cabooses. These options are referred collectively as the Service Type. All of this information is retained in one file. The majority of the fields are common to all types, for example number and road initials. Some fields are used only for one type. The locomotives Service Type have these fields: engine type, the DCC checkbox, and the Sound checkbox. The non-locomotive Service Types has length, trucks, and color. Other fields may be added as we receive feedback from users.

How Variable are used:

Variable Name	Column Abbr.	Required	Query	Insurance	Operation
Road number		Yes			Yes
Reporting Mark		Yes	Yes	Yes	Yes
Service Type		Yes	Yes		
AAR Type or Loco Model		Yes	Yes	Yes	Yes
Status			Yes		
Manufacturer			Yes	Yes	
Manufacturer part number			Yes	Yes	
Construction			Yes	Yes	
Purchase date (MM/DD/YYYY)			Yes	Yes	
Coupler type			Yes		
Truck type			Yes		
Cost			Yes		
Value			Yes	Yes	
Condition			Yes	Yes	
Scale			Yes	Yes	
Purchased As	PA		Yes		
Collectable	COL		Yes		
Weathered	WEA		Yes		
Available	AV		Yes		Yes
Class			Yes		
Capacity	CAP		Yes		
Out of Production	OOP		Yes		
Original or Refinished	OR		Yes	Yes	
Is Deleted	DEL		Yes	Yes	
Variation				Yes	
Note					
Prototype Note					
Photograph File Path					
Location			Yes		Yes
Build Date (MM/YY)			Yes		Optional
Rebuild Date (MM/YY)			Yes		Optional
Retired Date (MM/YY)			Yes		Optional
Deleted Date (MM/DD/YYYY)			Yes		Optional

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Owner			Yes		
Do Maintenance Check	CHK		Yes		

Although there are many entry options available of each item, remember only the required fields must be filled out. Leaving out most of the fields that are not required will not effect the operation of the software, however, the more data you can supply the better. This software is designed for anyone (novice to Master Model Railroader) wanting to do operations on their railroad.

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11.1 Freight Cars

Freight > Maintain

The topic is Freight but also includes not only freight cars but also passengers cars, MOW cars and non-revenue equipment. In other words, any piece of rolling stock that is not a locomotive. Some fields are unique to these types of cars.

Although there are many entry options available of each item, remember only the required fields must be filled out. Leaving out most of the fields that are not required will not effect the operation of the software, however, the more data you can supply the better. This software is designed for anyone (novice to Master Model Railroader) wanting to do operations on their railroad.

Fields unique or required for rolling stock:

Variable Name	Column Abbr.	Required	Query	Insurance	Operation
Road number		Yes			Yes
Reporting Mark		Yes	Yes	Yes	Yes
Service Type		Yes	Yes		
AAR Code	AAR	Yes	Yes	Yes	Yes
Door Width	DW		Yes		Optional
Length			Yes		Optional
NMRA weight standards	MWS		Yes		
Wheels and Axles	DW		Yes		
Color			Yes		Optional
Print Car Card	PCC		Yes		Optional
Return To					Optional
System Class	Sys Cls		Yes		Optional

System Class: Railroad System Class is the field description used on the Official Railroad Equipment Register (ORER) its usage was not universal but in the case of the PRR and other roads everything had a railroad specific designation. For example the PRR had multiple quad hopper designs and revisions that all had the ARA reporting class of HT but the PRR farther defined that via its System Class as GLa, H21a, H21e, H25, H25a. Note that “G” was earlier naming schema that still had Hoppers and Gondolas in a single classification.

Additional variables common to all rolling stock are listed here. Listed above are the fields and how Easy Model Railroad Inventory uses each. It is important that you refer to this list when, and if, you would like to use any of the specialty functions. For example, the NMRA insurance function, there are fields that need to have information but can be ignored if you are not going to insure your railroad empire.

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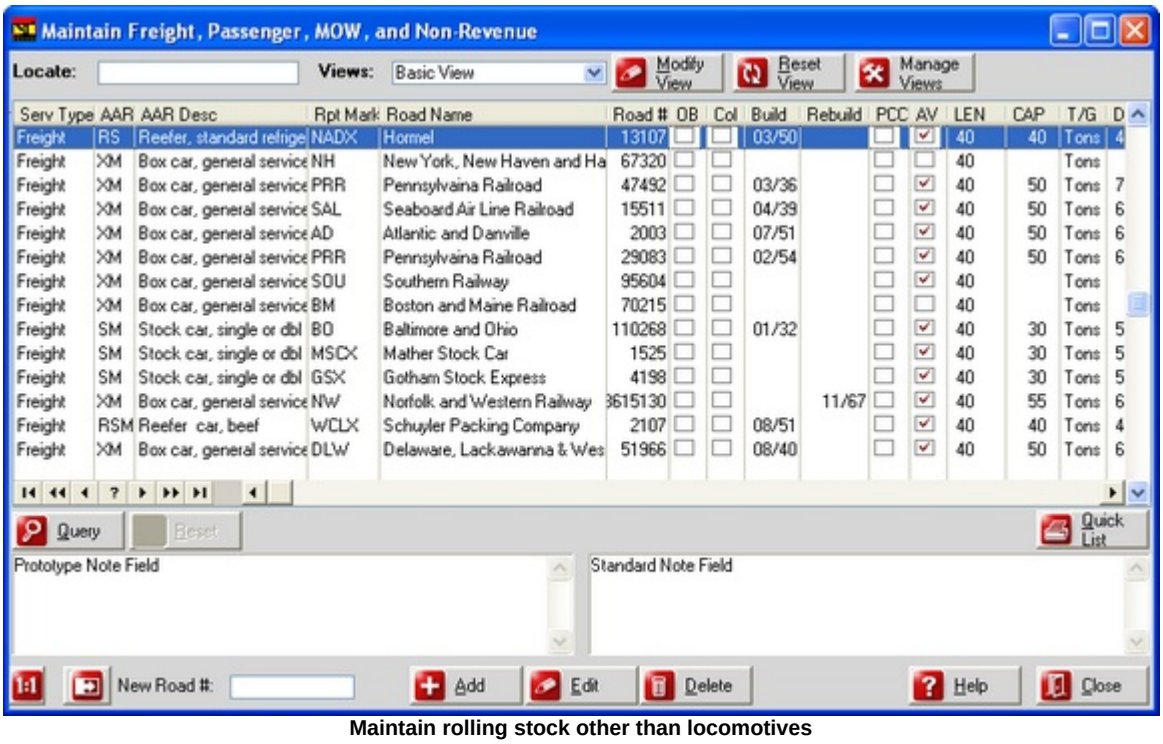
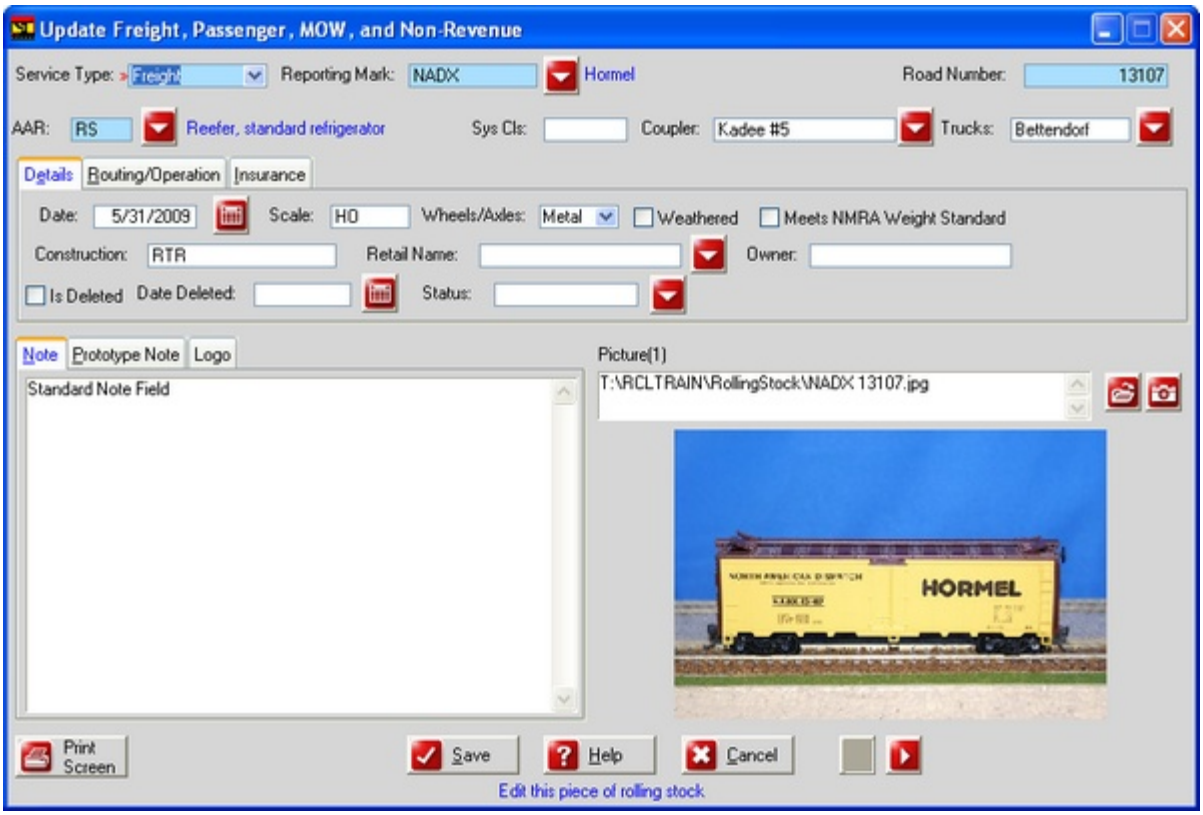


Maintain rolling stock other than locomotives

The above window is the default View. You may design a custom view and save it after giving it a unique name. See: View Designer for more information.



Rolling stock update window with Detail Tab selected

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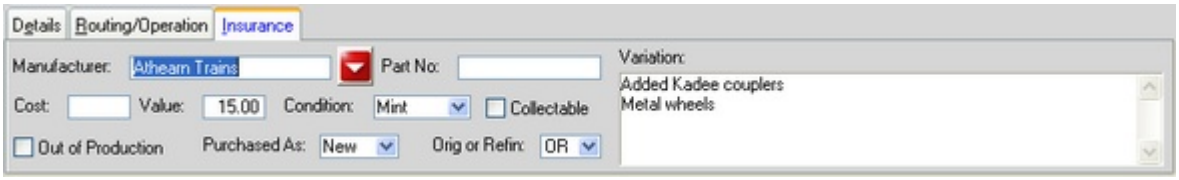
Notice the blue fields. They are required and must be filled before the record can be saved. By default, the Details tab is displayed allowing quite a bit more information other than what is required. In version 6 the cars logo image and file path were added. Also with version 6 three additional optional pictures were added giving the user a total of four. Rotate from one to the next or back using the VCR buttons below the image.

Update Freight Routing Tab

The Routing/Operation tab has information pertaining to operations and the making and scheduling of trains. If the Available checkbox is blank, this piece of rolling stock will not be displayed to route. The location is where the car currently is located. The blue text fields on the top line is the scheduled train this car is assigned. The train number, name, type and time of departure. This can be helpful when you cannot find a specific car.



Freight Insurance Tab

Another new feature found in version 4.2 of Easy Model Railroad Inventory is the Print Screen button. Clicking this button will duplicate the windows contents, text and image, allowing you to print to the default printer.

All of the fields on the Insurance tab are needed to complete the NMRA insurance valuation sheet. These plus the value of the item on the Collection tab and some of the required field's makeup the information needed to complete the form.

We all have either a car with the same road number and/or have purchased a set of cars that are identical with the exception of the road number. Easy Model Railroad Inventory has a solution to easily adding them.

The left button when clicked will copy the currently selected record using all data field values. The button to the right when clicked will copy the currently selected record with a different road number. If this button is clicked and the road New Number entry field is blank an error message will be displayed and the operation aborted.

One word of caution when entering cars purchased in sets. The first record entered should have a notation in the Variation field to indicate the cost and /or value is for a set. The 2nd entry through the last should have a zero cost.

In addition cars can be purchased individually that have the identical information but a different road number and a different manufacturers part number. Make sure after creating a new record the correct part number has been added.

Also see: Maintenance History, Rolling Stock, NMRA Insurance, and View Designer.

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11.2 Locomotives

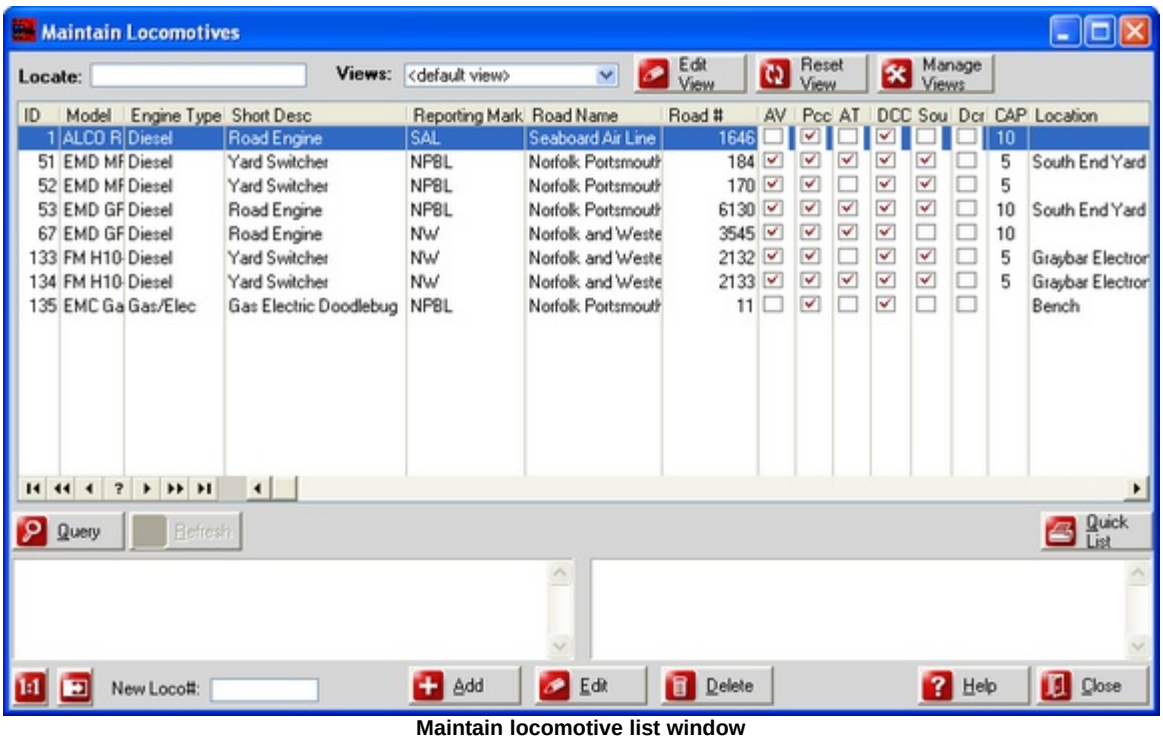
Locomotives > Maintain

Although there are many entry options available of each item, remember only the required fields must be filled out. Leaving out most of the fields that are not required will not effect the operation of the software, however, the more data you can supply the better. This software is designed for anyone (novice to Master Model Railroader) wanting to do operations on their railroad.

Fields unique or required for locomotives:

Variable Name	Column Abbr.	Required	Query	Insurance	Operation
Model		Yes	Yes		
Reporting Mark		Yes	Yes	Yes	Yes
Engine Type		Yes	Yes	Yes	
DCC	DCC		Yes		
Sound	SOU		Yes		
AAR wheel arrangement			Yes	Yes	
DCC Ready			Yes		
Pulling Capacity			Yes		

Additional variables common to all rolling stock are listed here. Listed above are the fields and how Easy Model Railroad Inventory uses each. It is important that you refer to this list when, and if, you would like to use any of the specialty functions. For example, the NMRA insurance function, there are fields that need to have information but can be ignored if you are not going to insure your railroad empire.



Maintain locomotive list window

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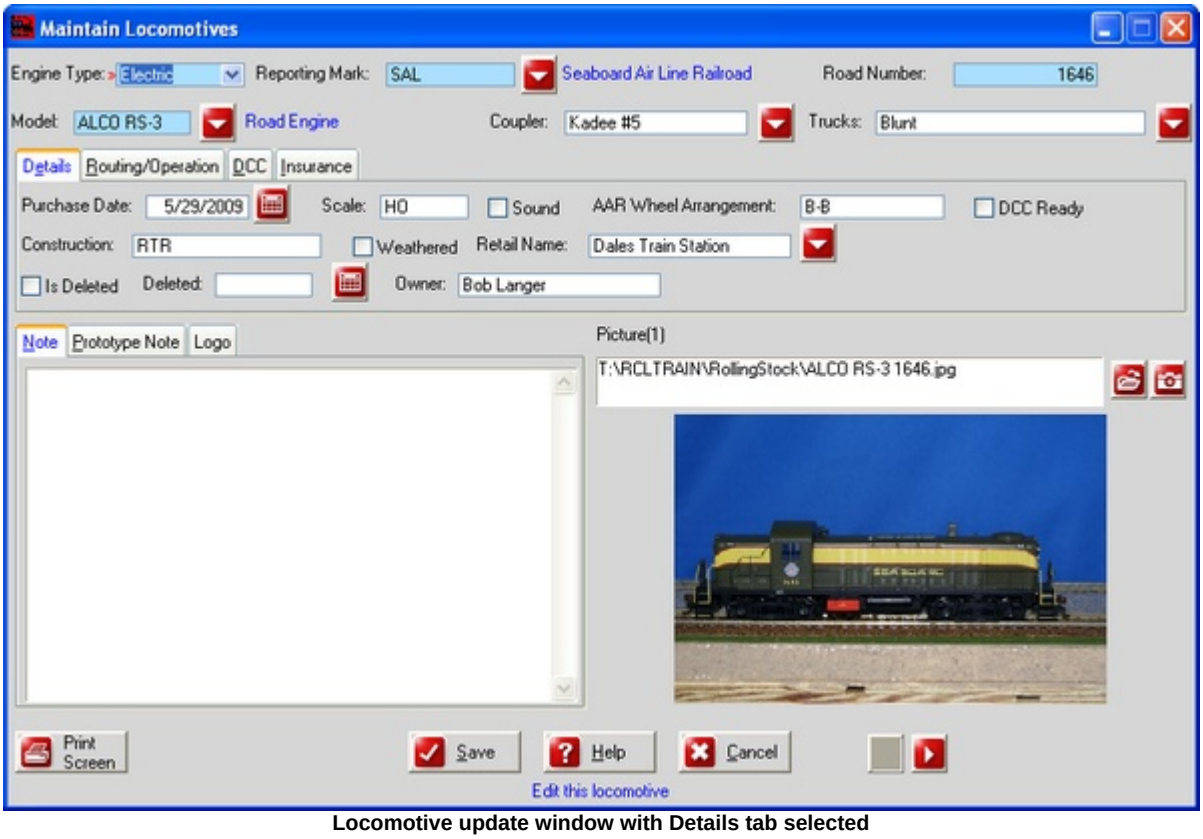
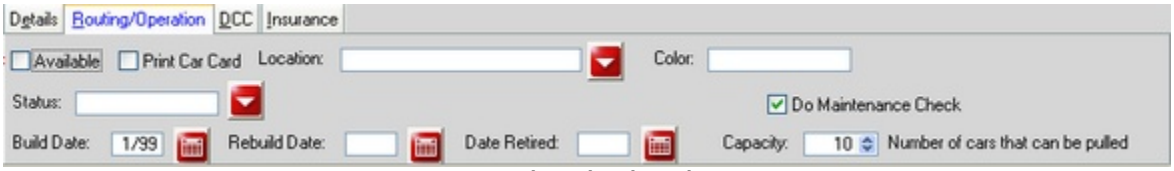
The above window is the default View. You may design a custom view and save it after giving it a unique name. See: View Designer for more information.



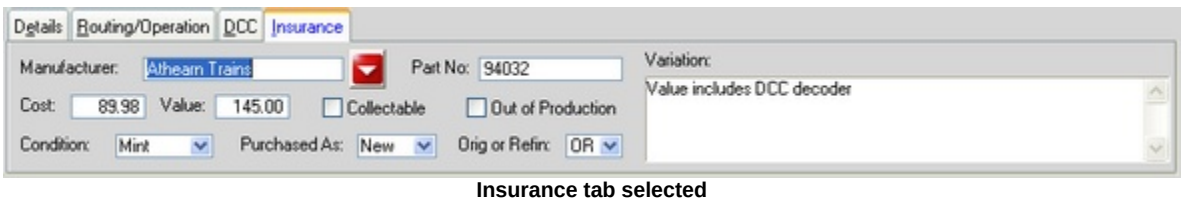
Locomotive update window with Details tab selected

Notice the blue fields. They are required and must be filled before the record can be saved. By default, the Details tab is displayed allowing quite a bit more information other than what is required. In version 6 the cars logo image and file path were added. Also with version 6 three additional optional pictures were added giving the user a total of four. Rotate from one to the next or back using the VCR buttons below the image.



Routing tab selected

The Routing/Operation tab has information pertaining to operations and the making and scheduling of trains. If the Available checkbox is blank, this piece of rolling stock will not be displayed to route. The location is where the car currently is located.



Insurance tab selected

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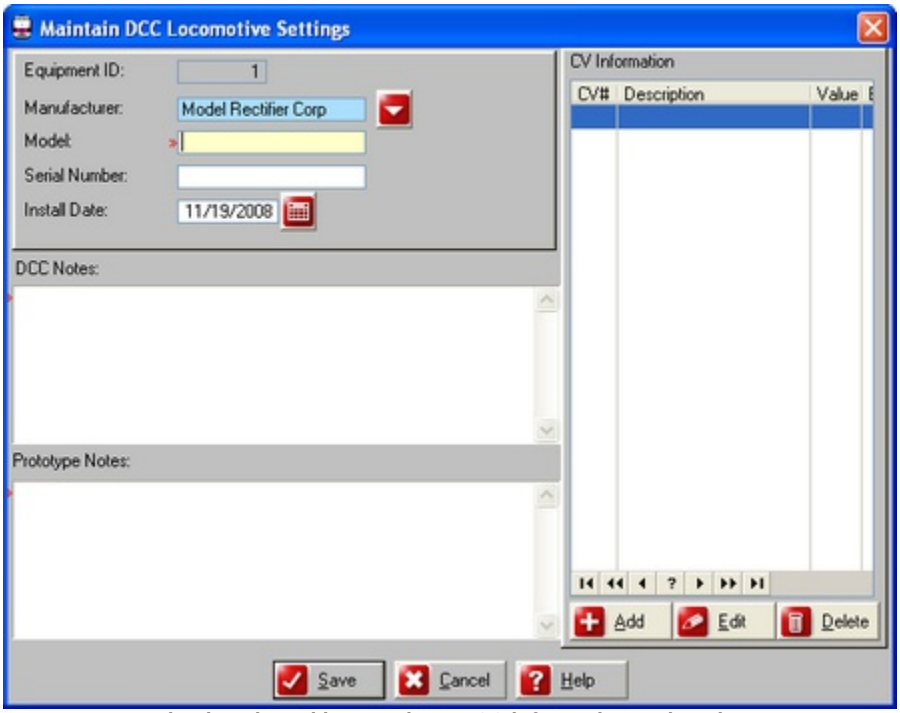
All of the fields on the Insurance tab are needed to complete the NMRA insurance valuation sheet. These plus the value of the item on the Collection tab and some of the required field's makeup the information needed to complete the form.

Locomotive update window before checking DCC option

If this locomotive has DCC click the DCC checkbox.

This locomotive has DCC

When the DCC is checked, there is the opportunity to add specifics about this locomotive's DCC equipment and settings.



Maintain selected locomotive's DCC information and settings

Use the above window to enter any information you want pertaining to this locomotive's DCC setup. Generic information like the manufacturer, the only required field, to the CV settings.

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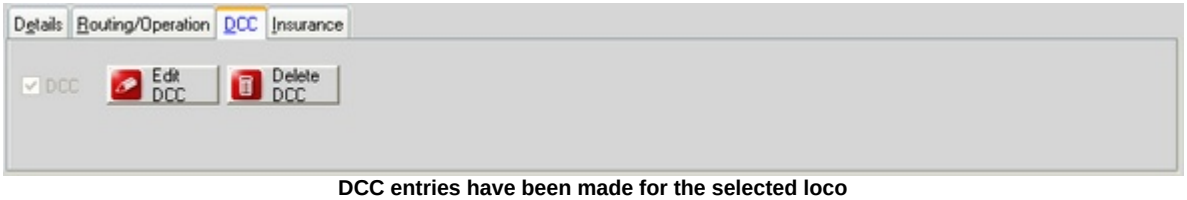

DCC entries have been made for the selected loco

After entering the DCC information and exiting the DCC maintenance window the DCC checkbox is no longer enabled and there are buttons to allow you to edit the information or delete the DCC child record. Deleting the child record will enable the DCC checkbox.

Sometimes we have a locomotive with the same number or we have a more than one locomotive with different numbers but the other fields are identical.

The left button when clicked will copy the currently selected record using all data field values. The button to the right when clicked will copy the currently selected record with a different road number. If this button is clicked and the road New Number entry field is blank an error message will be displayed and the operation aborted.

Another new feature found in version 4.2 of Easy Model Railroad Inventory is the Print Screen button. Clicking this button will duplicate the windows contents, text and image, allowing you to print to the default printer.

Also see: Maintenance History, Rolling Stock, NMRA Insurance, and View Designer.

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11.3 Related Files

The related utility files are:
1. AAR Type/Model:

2: Coupler:

3. Railroad:

4. Truck:

Additional information can be entered for each item of rolling stock. This includes manufacturer. These are all maintained in related files to ease data entry.

An additional field common to both which is stored in a related file is the Status. This information is to keep track of all rolling stock's condition.

Easy Model Railroad Inventory Home Page or Contact RCL Software

11.3.1 AAR Type

Freight > Utilities > AAR Car Type

AAR type maintenance window has multiple uses, first is the standard AAR, Association of American Railroads designation and the second is the model of a locomotive when the service type is "locomotive". Included in the default installation are the AAR codes for freight, passenger and other cars, both revenue and non-revenue. The AAR Mechanical Descriptions included are from Eric A. Neubauer: click to visit his site.

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Another source we used can be found here. AAR Mechanical Designations Of the two, I do prefer Eric's because his definitions seem to be easier to understand to a non-railroad person and that is way his are included in the AAR Mechanical Description field of the AAR Type file. We have also used the AAR definitions for passenger equipment on the NMRA Operation SIG here.

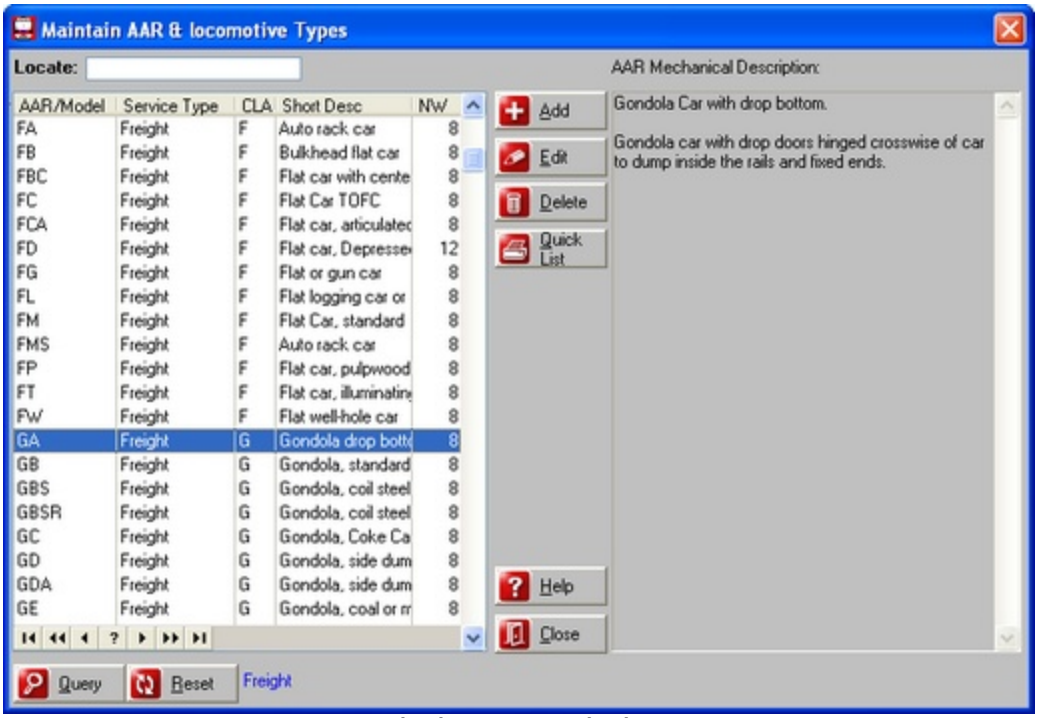
The fields in this file are:

Variable Name	Required	Query	Insurance	Operation
AAR/Model	Yes	Yes	Yes	Yes
Service Type	Yes	Yes		Yes
Short Description	Yes	Yes		
Number of Wheels (NW)			Yes	
Class		Yes		Yes
AAR Mechanical Descriptions				
Note				

AAR/Model is the AAR code if it is a car, freight, passenger, MOW, or non-revenue.

If the item is a locomotive the correct entry is the model:
1. EMD GP30, or
2. ALCO RS 11, or
3. 4-8-8-4.

For example #3 you should enter Big Boy in the short description field. Or you could include it in the model. The short description is recommended.



Maintain AAR type selections

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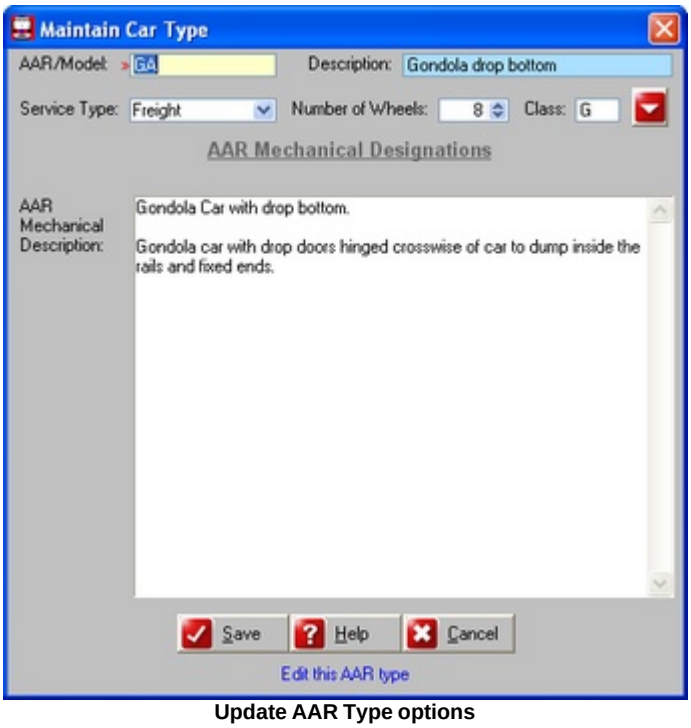

Update AAR Type options

11.3.1.1 Default AAR Types

AAR/Model [+]	Service Type	CLA	Short Desc	NW
BE	Passenger	B	Baggage express car	12
BEM	Passenger	B	Baggage Express Messenger	12
BH	Passenger	B	Horse and/or Carriage Express.	12
BLF	Passenger	B	Flat car	12
BM	Passenger	B	Milk car	12
BMR	Passenger	B	Milk car	12
BMT	Passenger	B	House car	12
BMX	Passenger	B	Box express messenger	12
BP	Passenger	B	Refrigerator express	12
BS	Passenger	B	Refrigerator Express	12
BX	Passenger	B	Box express car	12
CA	Passenger	C	Combined Car, Baggage and Pass	12
CAD	Passenger	C	Combined Car, Baggage and Pass	12
CBS	Passenger	C	Baggage-Dormitory Car	12
CO	Passenger	C	Combined pass, baggage & mail	12
CS	Passenger	C	Combined smoking & baggage	12
CSA	Passenger	C	Combined baggage, dorm & kit	12

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CSP	Passenger	C	Mail or bag, dorm and pass	12
DA	Passenger	D	Dining car	12
DB	Passenger	D	Buffet car	12
DC	Passenger	D	Cafe car	12
DCL	Passenger	D	Lunch counter lounge	12
DD	Passenger	D	Diner dormitory car	12
DE	Passenger	D	Dining car	12
DG	Passenger	D	Grill room car	12
DK	Passenger	D	Dormitory kitchen car	12
DKP	Passenger	D	Kitchen-car	12
DL	Passenger	D	Buffet-lounge car	12
DLC	Passenger	D	Lunch counter car	12
DO	Passenger	D	Cafe observation car	12
DP	Passenger	D	Dining and parlor car	12
DPA	Passenger	D	Diner-lounge	12
FA	Freight	F	Auto rack car	8
FB	Freight	F	Bulkhead flat car	8
FBC	Freight	F	Flat car with center beam	8
FC	Freight	F	Flat Car TOFC	8
FCA	Freight	F	Flat car, articulated	8
FD	Freight	F	Flat car, Depressed center	12
FG	Freight	F	Flat or gun car	8
FL	Freight	F	Flat logging car or truck	8
FM	Freight	F	Flat Car, standard	8
FMS	Freight	F	Auto rack car	8
FP	Freight	F	Flat car, pulpwood	8
FT	Freight	F	Flat car, illuminating gas	8
FW	Freight	F	Flat well-hole car	8
GA	Freight	G	Gondola drop bottom	8
GB	Freight	G	Gondola, standard	8
GBS	Freight	G	Gondola, coil steel car	8
GBSR	Freight	G	Gondola, coil steel car	8
GC	Freight	G	Gondola, Coke Car	8
GD	Freight	G	Gondola, side dump	8
GDA	Freight	G	Gondola, side dump	8
GE	Freight	G	Gondola, coal or mill trade	8
GF	Freight	G	Gondola, coke racks	8
GH	Freight	G	Gondola, center sill doors	8
GK	Freight	G	Gondola, standard	8
GKA	Freight	G	Gondola, standard	8
GM	Freight	G	Gondola, standard	8
GMA	Freight	G	Gondola, standard	8
GP	Freight	G	Gondola, pulpwood	8
GR	Freight	G	Gondola, hopper dump	8

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GRA	Freight	G	Gondola, hopper dump	8
GS	Freight	G	Gondola, general service	8
GT	Freight	G	Gondola, high side	8
GW	Freight	G	Gondola, well-hole car	8
HC	Freight	H	Hopper, coke racks	8
HD	Freight	H	Hopper, side dump	8
HDA	Freight	H	Hopper, self- clearing car	8
HE	Freight	H	Hopper, not self-clearing	8
HF	Freight	H	Hopper, fixed sides and ends	8
HFA	Freight	H	Hopper, self-clearing	8
HFB	Freight	H	Hopper, self-clearing	8
HK	Freight	H	Hopper, self-clearing	8
HM	Freight	H	Hopper, 2 bay standard	8
HMA	Freight	H	Hopper, 2 bay	8
HMB	Freight	H	Hopper, 2 bay	8
HT	Freight	H	Hopper 3/4 bay	8
HTA	Freight	H	Hopper, 3/4 bay	8
HTB	Freight	H	Hopper, 3/4 bay	8
LB	Freight	L	Box car, special divided doors	8
LC	Freight	L	Box car with roof hatches	8
LF	Freight	L	Flat car, non-COFC containers	8
LFA	Freight	L	Flat car, prod in liquid/gas	8
LFR	Freight	L	Flat car, refrig'ed containers	8
LG	Freight	L	Gondola, non-COFC containers	8
LM	Freight	L	AirJet car	8
LO	Freight	L	Covered hopper car	0
LOA	Freight	L	Hopper, Covered Airslide	8
LOC	Freight	L	Covered hopper, carbon black	8
LP	Freight	L	Pulpwood car	0
LRC	Freight	L	Box car, insulated car	8
LS	Freight	L	Special car	8
LT	Freight	L	Tank car, grandular loads	8
LTA	Freight	L	Tank car, grandular solids	8
LU	Freight	L	Box car, all door car	8
MA	Passenger	M	Postal car for US mail	12
MB	Passenger	M	Baggage and mail	12
MBD	Passenger	M	Mail, baggage and dorm car	12
MBE	Passenger	M	Baggage, mail & express car	12

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MD	Passenger	M	Mail and dormitory car	12
MP	Passenger	M	Postal car	12
MR	Passenger	M	Postal storage car	12
MS	Passenger	M	Mail and smoker car	12
MWB	Freight	M	Ballast car	8
MWD	Freight	M	Dump car, rock/fille material	8
NE	Non-Revenue	N	Caboose	8
NM	Freight	N	Caboose	4
PA	Passenger	P	Passenger car	12
PAS	Passenger	P	Coach-sleeping car	12
PB	Passenger	P	Coach or chair car	12
PBC	Passenger	P	Parlor coach	12
PBO	Passenger	P	Coach - obervation	12
PC	Passenger	P	Passenger, Parlor or Chair Car	12
PD	Passenger	P	Tavern car	12
PDS	Passenger	P	Sleeper / tavern car	12
PE	Passenger	P	Emigrant or colonist car	12
PL	Passenger	P	Lounge car	12
PO	Passenger	P	Observation car	12
PS	Passenger	P	Sleeping car	12
PSA	Passenger	P	Dormitory car	12
PT	Passenger	P	Tourist car	12
PV	Passenger	P	Private car	12
RA	Freight	R	Reefer, brine-tank	8
RB	Freight	R	Reefer, beer car	8
RBL	Freight	R	Reefer, insulated	0
RC	Freight	R	Reefer, Insulated - dry ice	8
RCD	Freight	R	Reefer, with dry ice	8
RLO	Freight	R	Covered hopper, refrig	8
RM	Freight	R	Reefer, ice bunkers	8
RP	Freight	R	Reefer, mechanical	0
RPA	Freight	R	Reefer, mechanical	8
RPB	Freight	R	Reefer, elect mechanical	8
RPC	Freight	R	Reefer, container-mech	8
RPL	Freight	R	Reefer, mech & load dev	8
RS	Freight	R	Reefer, standard refrigerator	8
RSTC	Freight	R	Reefer, ice bunkers & fan	8
RSTM	Freight	R	Reefer, beef rails	8
RT	Freight	R	Reefer, milk car	8
SA	Freight	S	Stock car, live stock	8
SC	Freight	S	Stock car, convertible	0

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SD	Freight	S	Stock car, drop doors	8
SF	Freight	S	Stock car, fixed double deck	8
SH	Freight	S	Stock car, horses	8
SM	Freight	S	Stock car, single or dbl deck	0
SP	Freight	S	Stock car, poultry	8
SPR	Freight	S	Stock, live & dressed poultry	8
ST	Freight	S	Stock car, triple deck	8
TA	Freight	T	Tank car, acid	0
TG	Freight	T	Tank car, mineral water	8
TGB	Freight	T	Tank car, 2 insulated tank	8
TL	Freight	T	Tank car, lead lined acid	8
TM	Freight	T	Tank car, general service	8
TMI	Freight	T	Tank car, gasoline-insulated	8
TMN	Freight	T	Tank car, non-regulatory	8
TMU	Freight	T	Tank car, chlorine, hydrogen	8
TP	Freight	T	Tank car, pressure tank	8
TPA	Freight	T	Tank car, alum pressure tank	8
TR	Freight	T	Tank car, aluminum tank	8
TS	Freight	T	Tank car, special service	8
TVI	Freight	T	Tank car, double-shell	8
TW	Freight	T	Tank car, vinegar, pickles	8
VA	Freight	V	Box car, ventilated	8
VM	Freight	V	Box car, ventilated	8
VS	Freight	V	Reefer car, produce ventilated	8
XA	Freight	X	Box car, auto	8
XAB	Freight	X	Box car, 10' doors	8
XAF	Freight	X	Box car, auto/furniture	8
XAP	Freight	X	Box car, Auto parts	0
XAR	Freight	X	Box car, Auto	8
XC	Freight	X	Box car, compartments	8
XF	Freight	X	Box car, furniture, food	8
XI	Freight	X	Box car, insulated/produce	8
XL	Freight	X	Box car, retaining devices	8
XM	Freight	X	Box car, general service	0
XMC	Freight	X	Box car, mult-compartments	8
XMD	Freight	X	Boxcar, double door	0
XME	Freight	X	Box car, wood lining	8
XML	Freight	X	Box car, w/loading devices	8
XMP	Freight	X	Box car, no auto parts	8

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XMR	Freight	X	Box car, automobile	8
XP	Freight	X	Box car, single commodity	8
XR	Freight	X	Box car, automobile	8
XT	Freight	X	Box car, enclosed tank	8
XU	Freight	X	Box car, removable super	8
XV	Freight	X	Box car, ventilated/produce	8

11.3.2 Coupler

Freight > Utilites > Coupler Types

A very simple lookup file used to define the type of coupler on your rolling stock. There is only one field and it is unique.

Maintain coupler type options

This file is also used as a lookup for queries used in some reports and windows.

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11.3.3 Manufacturer

Manufacturer > Maintain

The Manufacturer's lookup file contains detailed data on the manufacturer. The only required entry is the Manufacturer's name. All the other fields are optional. All of the data to fill in lookup file is readily available on the web for most Manufacturers, with exception of those no longer in business such as AHM (Association of Hobby Manufacturers).

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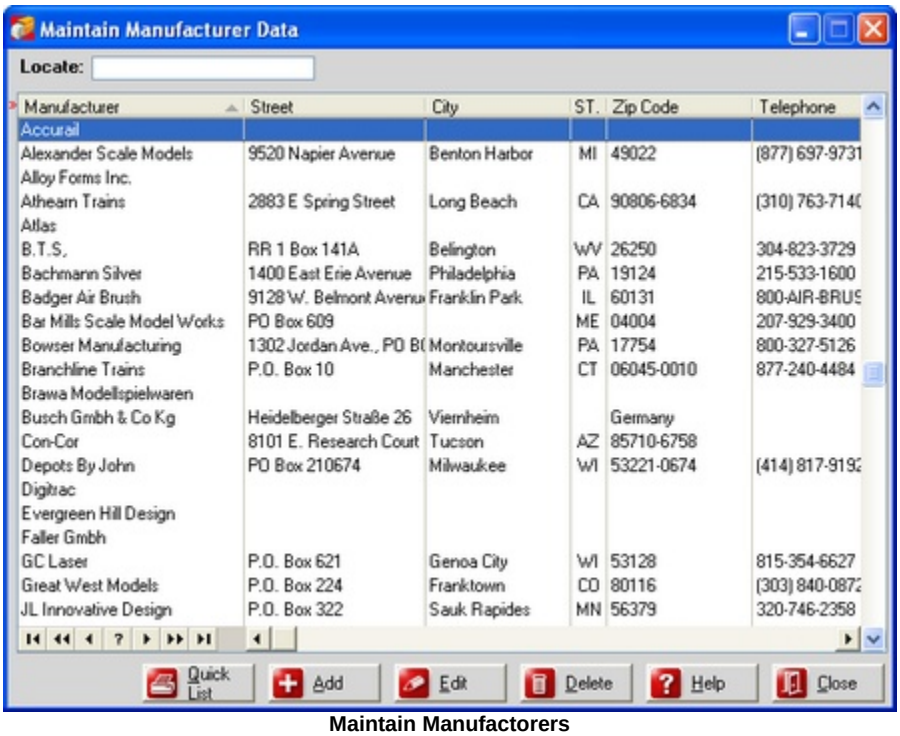
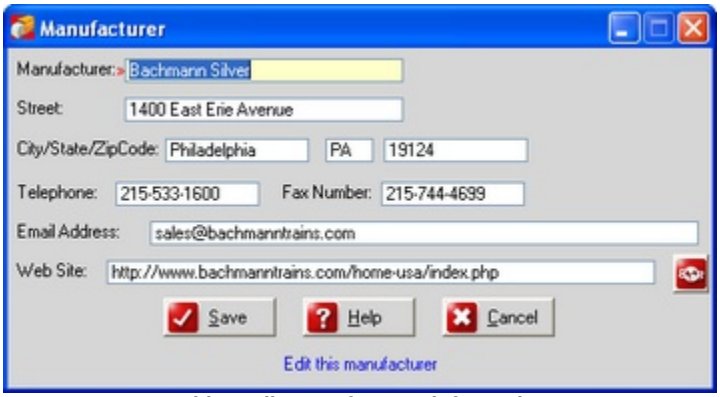


Maintain Manufactorers

The only required field is the name of the manufacturer. All the other fields are for your information only. What I do when entering a new manufacturer is to quickly open IE and do a quick Google search. If I find the site I will look for the contact information. Using copy and paste I get the data from the manufacturers site to the Easy Model Railroad Inventory manufacturer's record.



Add or edit manufacturer information

If there is data in the Web Site field pressing the Globe button on the right will cause Easy Model Railroad Inventory to attempt to connect to the web site. If it is blank there will be an error message.

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11.3.4 Railroad

Freight > Utilities > Road Names

The Road Names lookup files contain data on the railroads. It is important that you fill the Reporting Mark (i.e. ATSF) and the Road Name because over the years some reporting marks have had several different actual railroad names. This information can also contain your own unique railroad name and reporting mark such as The G&D or Gorre & Daphetid Railroad. The Comments and History fields are

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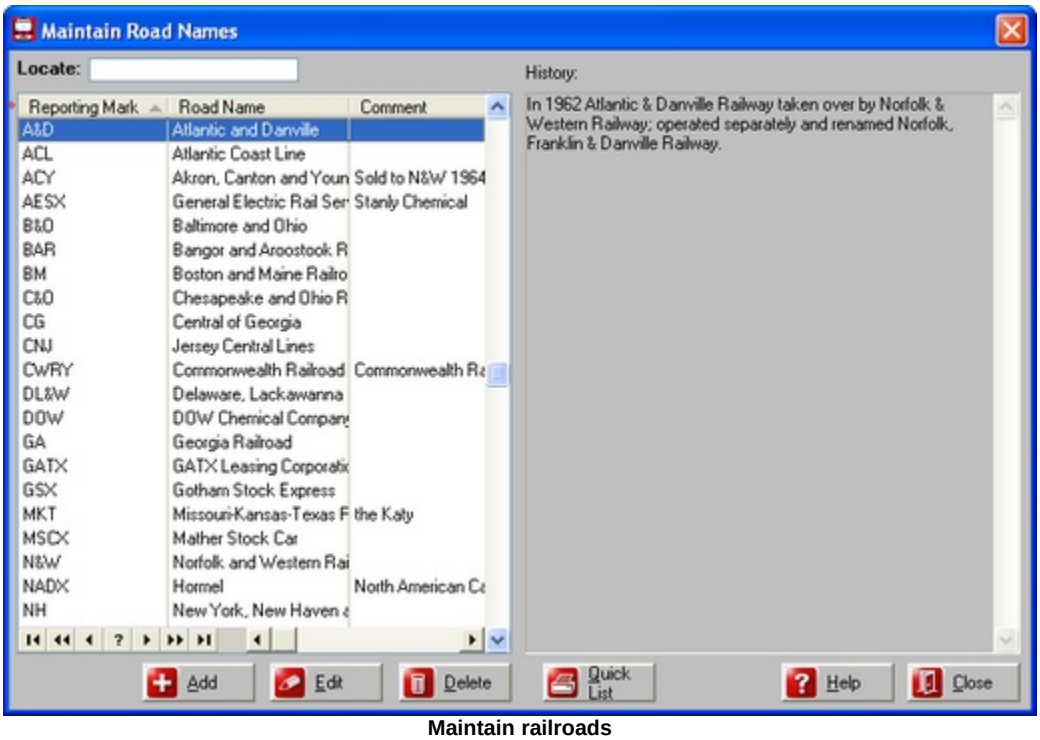
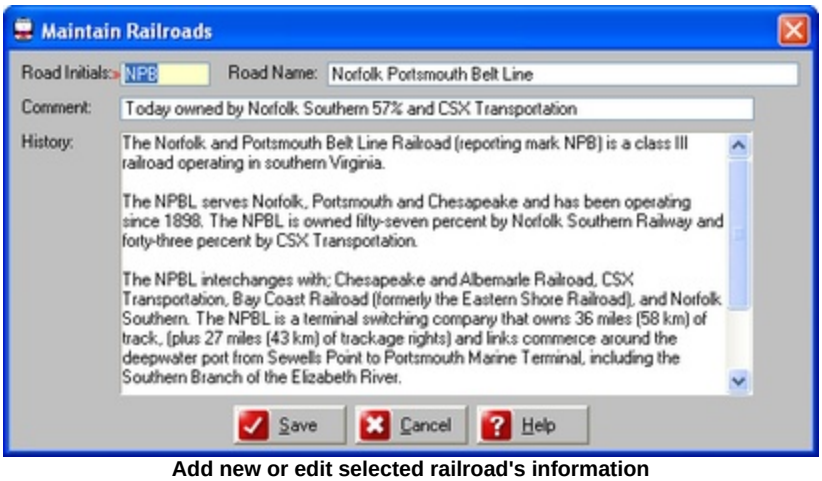
optional.



Maintain railroads

We included in the default installation package many road names. We do not suppose we have every railroad that ever existed. But we have many. If yours is not in the list you may add it.



Add new or edit selected railroad's information

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11.3.4.1 Default Road Names

Reporting Mark	Road Name	Comment
A&D	Atlantic and Danville	
AA	Ann Arbor	

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ABIX	Anheuser-Busch	
AC	Algoma Central	
ACFX	Shippers Car Line Division	Division ACF Industries
ACL	Atlantic Coast Line	
ACY	Akron, Canton and Youngstown Railroad	Sold to N&W 1964
AEC	Atlantic & East Carolina	
AESX	General Electric Rail Services	Stanly Chemical
ART	American Refrigerator Transit Co.	
ASAB	Atlanta & St. Andrews Bay	
ASFX	American Steel Foundries	
ATSF	Atchison, Topeka & Santa Fe	Santa Fe
ATTX	Trailer Train Company	
ATW	Atlantic & Western	
AWP	Atlanta & West Point	
BAR	Bangor and Aroostook Railroad	
BCT	British Columbia Railway	
BLE	Bessemer & Lake Erie	
BM	Boston and Maine Railroad	
BN	Burlington Northern	
BNFE		
BO	Baltimore and Ohio	
BRC	Belt Railway Company Of Chicago	
BREX	Burlington Refrigerator Express	Western Fruit Express
CAGY	Columbus & Greenville	
CBQ	Chicago, Burlington & Quincy	Burlington Northern
CEI	Chicago & Eastern Illinois	Missouri Pacific
CG	Central of Georgia	
CGTX	Canadian General Transit Co.	
CGW	Chicago Great Western	Chicago & North Western
CHP	Chihuahua Pacific	
CIL	Chicago, Indianapolis & Louisville	Monon; Louisville & Nashville
CIM	Chicago & Illinois Midland	
CN	Canadian National	
CNJ	Central Railroad Company Of New Jersey	Conrail
CNW	Chicago & North Western	
CO	Chesapeake and Ohio Railway	
CP	Canadian Pacific	CP Rail
CPR	Canadian Pacific Rail	
CR	Conrail	
CRDX	Centrail West Refrigerator Dispatch	Chicago Freight Car Leasing Co.
CRR	Clinchfield Railroad	

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CS	Colorado & Southern	
CSS	Chicago South Shore & South Bend	
CV	Central Vermont	
CVC	Central Vermont	
CWP	Chicago, West Pullman & Southern	
CWRY	Commonwealth Railroad	Commonwealth Railway is owned by Rail Link Inc. and is a part of Norfolk Southern's "Thoroughbred Shortline Program".
DH	Delaware & Hudson	
DL&W	Delaware, Lackawanna and Western Railroad	
DLW	Delaware, Lackawanna & Western	Erie Lackawanna, Conrail
DMIR	Duluth, Missabe & Iron Range	
DODX	Department Of Defense	
DOW	DOW Chemical Company	
DRGW	Denver & Rio Grande Western	
DRX	Deep Rock Oil Corp.	
DSDX	Dairy Shippers Despatch	Pullman Leasing Company
DTI	Detroit, Toledo & Ironton	
DWP	Duluth, Winnipeg & Pacific	
EBAX	Ethyl Corporation	
EFCX	Evergreen Freight Car Corp.	
EJE	Elgin, Joliet & Eastern	
EL	Erie Lackawanna	Conrail
ERIE	Erie	Erie Lackawanna, Conrail
FEC	Florida East Coast	
FGEX	Fruit Growers Express	
FWD	Fort Worth & Denver	
GA	Georgia Railroad	
GACX	General American Transportation Corp	
GARX	General American Transportation Corp	
GATX	General American Transportation Corp	
GBW	Green Bay & Western	
GMO	Gulf Mobile & Ohio	Illinois Central Gulf
GMRC	Green Mountain Railroad	
GN	Great Northern	Burlington Northern
GNW	Genessee & Wyoming	
GPEX	General American-Pfaudler Corporation	
GSX	Gotham Stock Express	
GTW	Grand Trunk Western	
HJHX	H. J. Heinz Company	

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HS	Harford & Slocomb	
HTCX	Transportation Corporation Of America	
IC	Illinois Central	Illinois Central Gulf
ICG	Illinois Central Gulf	
IHB	Indiana Harbor Belt	
ITC	Illinois Terminal	
JWAX	Johnson Wax Company	North American Car Corp. lessor
KCS	Kansas City Southern	
LHR	Lehigh & Hudson River	Conrail
LN	Louisville & Nashville	
LNAC	Louisville, New Albany & Croydon	
LSI	Lake Superior & Ishpeming	
LV	Lehigh Valley	Conrail
MC	Michigan Central	New York Central, Penn Central, Conrail
MDT	Merchants Despatch Transportation Corp.	
MEC	Maine Central	
MHLX	Miller Brewing Co	General American Transportation Corp, lessor
MILW	Chicago, Milwaukee, St, Paul & Pacific	Milwaukee Road
MKT	Missouri-Kansas-Texas Railroad	the Katy
MON	Monon	Louisville & Nashville
MP	Missouri Pacific	
MPA	Maryland & Pennsylvania	
MRS	Manufacturers Railway	
MSCX	Mather Stock Car	
MSTL	Minneapolis & St. Louis	Chicago & North Western
N&W	Norfolk and Western Railway	
NADX	Hormel	North American Car Corp.
NAHX	North American Car Corporation	
NAR	Northern Alberta Railways	
NDM	National Railways Of Mexico	
NH	New York, New Haven and Hartford Railroad	Penn Central, Conrail
NKP	New York, Chicago & St. Louis (Nickel Plate)	Norfolk & Western
NNY	Norfolk Navy Yard	
NP	Northern Pacific Railway	Burlington Northern
NPBL	Norfolk Portsmouth Belt Line	Today owned by Norfolk Southern 57% and CSX Transportation
NRC	Norther Refrigerator Line	Merchants Despatch Transportation Corporation

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NS	Norfolk Southern Railway	
NW	Norfolk Western	
NYC	New York Central	Penn Central, Conrail
ONT	Ontario Northland	
PC	Penn Central	Conrail
PFE	Pacific Fruit Express	
PGE	Pacific Great Eastern	British Columbia Railway
PICK	Pickens Railroad	
PLE	Pittsburg & Lake Erie	
PPKX	North American Car Corp	
PRR	Pennsylvaina Railroad	
PSCX	Public Service Company Of Colorado	
PSPX	Phillips Petroleum Company	
PTLX	Pullman Leasing Company	
RBBQ	Chicago, Burlington & Quincy	Burlington Northern
RBCS	Colorado & Southern	
RBNX	Fruit Growers Express	
RBOX	American Rail Box Car Co.	
RDG	Reading Company	Conrail
REX	Railway Express Agency	
RFP	Richmond, Fredericksburg, and Potomac Railroad	
RI	Chicago, Rock Island & Pacific (Rock Island)	
RMDX	American Refrigerator Transit Co	
ROCK	Rock Island	
RSP	Roscoe, Snyder & Pacific	
SA	Savannah & Atlanta	
SAL	Seaboard Air Line Railroad	Seaboard Coast Line
SCL	Seaboard Coast Line	
SFRB	Atchison, Topeka & Santa Fe	Santa Fe
SHPX	Shippers Car Line	division of ACF Industries
SLRX	St. Louis Refrigerator Car Co.	
SLSF	St. Louis-San Francisco	Frisco
SOO	Soo Line	
SOU	Southern Railway	
SP	Southern Pacific	
SPS	Spokane, Portland & Seattle	Burlington Northern
SRLX	Swift Refrigerator Line	
SSW	St. Louis Southwestern Railway	Cotton Belt
THB	Toronto, Hamilton & Buffalo	
TLDX	Pullman Leasing Company	
TTAX	Trailer Train Company	
TTOX	Trailer Train Company	Trailer on flatcar
TXC	Texaco	

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UCOX	Union 76	
UP	Union Pacific	
USLX	United States Railway Equipment Co	
USN	United States Navy	
UTLX	Union Tank Car Company	
VASO	Valdosta Southern	
VGN	Virginian Railway	Norfolk & Western
VTR	Vermont Railway	
WAB	Wabash	Norfolk & Southern
WAG	Wellsville, Addison & Galeton	
WCLX	Schuyler Packing Company	Schuyler Nebraska
WFE	Western Fruit Express	
WM	Western Maryland	
WRX	Western Refrigerator Line	

11.3.5 Status

Freight > Utilities > Status Options

Status does not affect any function of the program and may be left blank. I use the status field so I know if there is something I need to do to get this item ready to add to my layout. For example, a new car may need to be assembled, the status used is Need Assembly. Before I add any new piece of rolling stock to my layout there must be a photograph, and the couplers must be changed to Kadee #5. The Off Layout and Storage options are not suggested. Use the location field instead.

Add or edit car status

How you define these fields are up to you, you may not want to use this file and corresponding field in the freight and locomotive files at all.

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11.3.6 Truck

Freight > Utilities > Truck Types

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Enter the type of trucks you would like displayed when you click to make a selection. These trucks are for all types of rolling stock: freight, passenger, MOW, non-revenue and locomotive power.

Maintain truck types

This is an optional file containing data for the field corresponding field in the two rolling stock files.

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11.4 Photographs

A digital photograph may be attached to each rolling stock record. This is very useful for insurance purposes and can be useful during operating sessions. A number of reports include the photo which can be very helpful when a specific car or locomotive needs to be found.

NOTE: A photograph of any size can be viewed. However if you want to print any of the reports that have photographs you will have to make each one small. My camera takes 10 megabytes pictures, which is 1.93 megabytes. I convert them to 80 KB, 400 X 268 pixels. If this is not done any report with a photo will lockup your system, the photo files are just too big. We keep two copies of our photos, the original and the converted, in different folders.

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Freight car photograph

We suggest you move the photographs to a folder directly below this program folder, RCLTRAINS. This will make finding them much easier. You can see by the file path in the caption my photo folder is actually three levels down. It just makes finding the quicker. Two clicks instead of four or five.

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12 Maintenance History

Utilities > Maintenance > Maintenance

A friend know locally as the Train Doctor suggested Easy Model Railroad Inventory needed a way to track the maintenance of rolling stock and locomotives. Max told me that many, if not most, of the locomotives brought to him for repair could have been avoided by just some scheduled maintenance.

Locomotives need to be lubricated, wheels need to be cleaned plus other tasks to keep your railroad running trouble free. First the task need to be listed. This is the file you will use to select what needs to be done to your rolling stock and locomotives. Not every item needs the same maintenance procedure and who knows what will be required by the equipment of the future.

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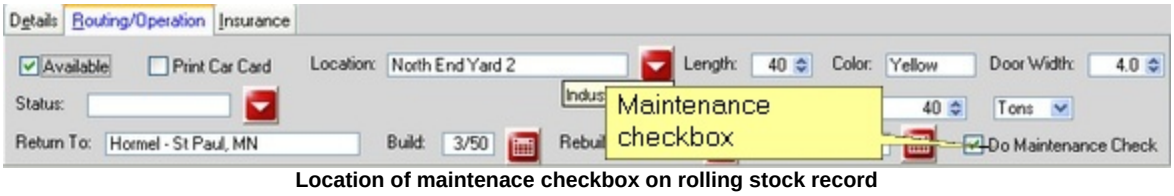
Maintenance Tasks

A new task may be added to the maintenance schedule when an individual piece of rolling stock or locomotive is being planned.

For those who want to specify a maintenance plan for their model railroads rolling stock and locomotives there is a flag that must be turned on in both the locomotive and rolling stock records.

Freight > Maintain



Location of maintenace checkbox on rolling stock record

The checkbox is located at the bottom right on the Routing/Operations tab.

Locomotives > Maintain

Location of maintenance checkbox on locomotive record

When the "Do Maintenance Check" is turned off the rolling stock and locomotive update windows look like the image below. I would not think you would want to maintain all of your collection. Maybe only the rolling stock and locomotives used for your operating sessions. You might, like me, only want to have a maintenance schedule for locomotives but detail the maintenance history for rolling stock. By the time you have completed this topic you will know how to do both.

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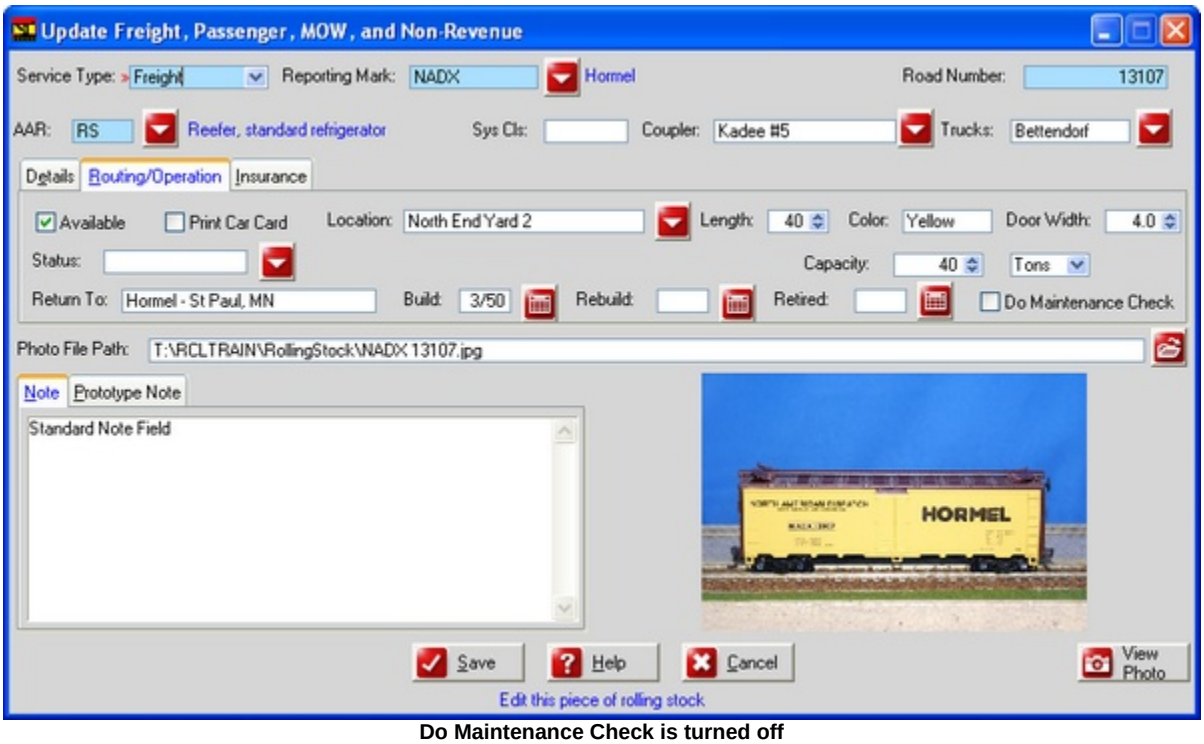
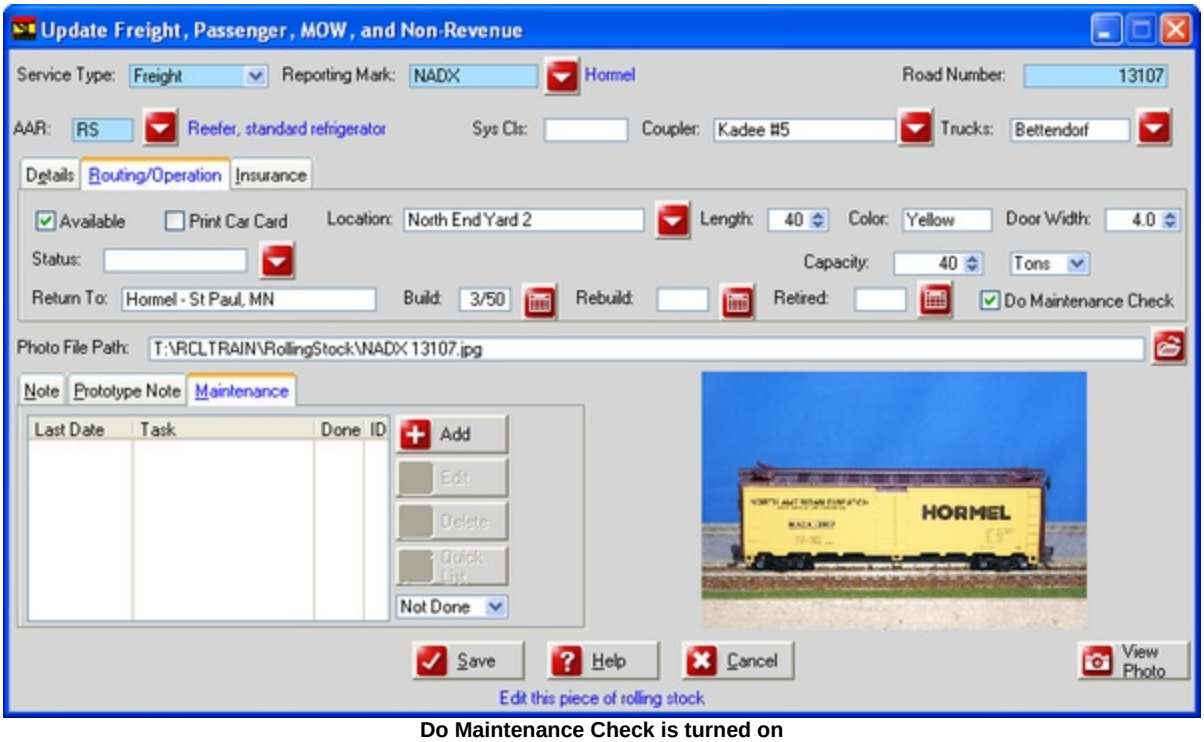


Do Maintenance Check is turned off

When the "Do Maintenance Check" is turned on the transformation of the update window is the same for both locomotive and rolling stock. The "Do Maintenance Check" is tagged. When the check is detected the maintenance tab at the bottom left of the window will be displayed. Removing the check mark from the "Do Maintenance Check" will instantly remove the Maintenance tab and all the information on it.



Do Maintenance Check is turned on

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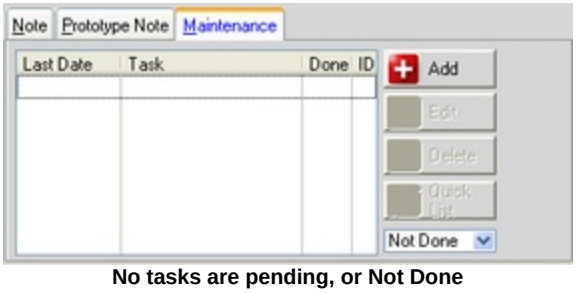
Below is just the Maintenance portion of the rolling stock update window.The first time Maintenance is initiated there will never be any records. There are no tasks that are 'Not Done' so nothing is displayed.



No tasks are pending, or Not Done

The task record filter defaults to "Not Done". A task that is "Not Done" will have a blank in the Done column. This is the default view but there are two other options. There is the filter "Done Only" and "All Records". Their definitions should be obvious.

Adding a new task to for this freight car

When the Add button is clicked the update window will open. The car or loco information is displayed and the date defaults to today's date. See: Date Shortcuts for more information concerning dates.

The only thing to enter to make this a valid maintenance task is to select the task. Either start typing or click the button to the right of the task field.

Select a task for the selected item

After selecting a task all of the required fields have valid information and the record can be saved. But the date is today's date. If you have clicked the Done field today's date would not be a problem.

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Because the task is history. A task can be "Not Done" or "Done". History or scheduled. Past or future.

So the question is how to set a future date for the NEXT scheduled maintenance of any piece of rolling stock or locomotive? One way is to use the Date Shortcuts. There is another. In the image located a little above here, Adding a new task to for this freight car, There is a button and a numeric display field we have not explained.

First the display field is the maintenance frequency. This is the number of days you would ideally have between scheduled tasks. This information is maintained on the Preferences window.

Maintenance frequency section of preferences

There are two fields, one for locomotives and one for everything else. When the update window opens the frequency values are checks. If there is a frequency value the amount is displayed in the red display field.

To the left is a button with a plus sign. Clicking that button will add the value of the red display field to the current value of the date field. This allows a schedule to be maintained over time.

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12.1 View/Print

Having a maintenance schedule and history is all well and good but there needs to be a way to utilize the information. The Maintenance View/Print window is where all of the maintenance tasks, future and past, can be accessed. Like most of the list box windows in Easy Model Railroad Inventory there is the View Designer and Query Designer. The default filter is "Not Done".

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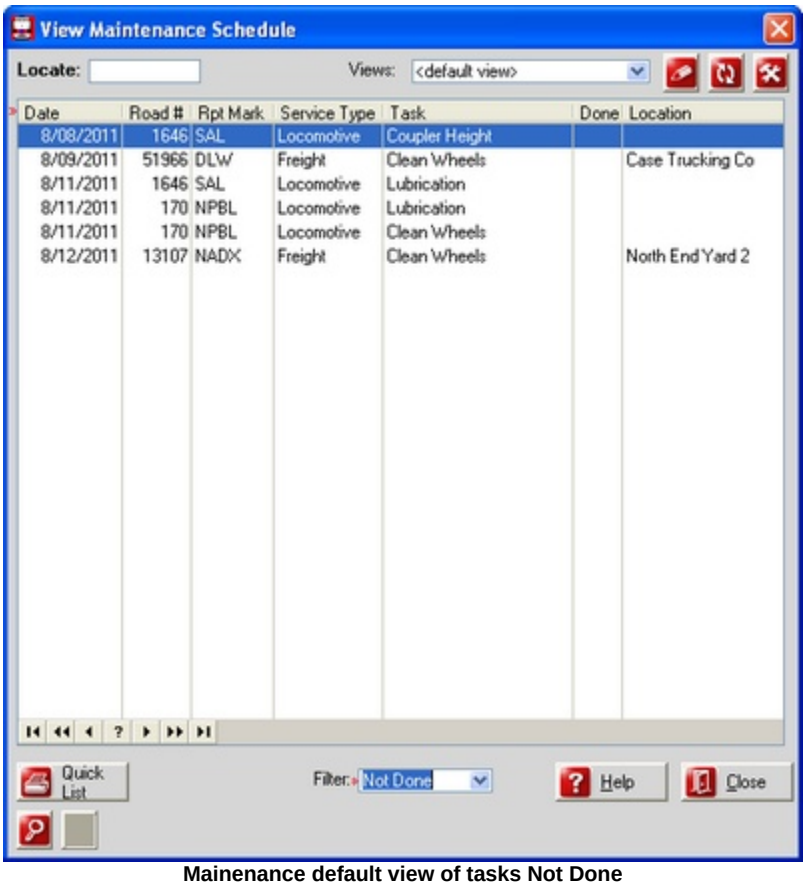

Mainenance default view of tasks Not Done

The location field from the rolling stock and locomotive files is also displayed. Now you will not have to hunt all over the place to find the piece that needs maintenance.

Maintenance History Quick List
Clean Wheels

Date	Road #	Rpt Mark	Service Type	Task	Done	Location
8/09/2011	51966	DLW	Freight	Clean Wheels		Case Trucking Co
8/11/2011	170	NPBL	Locomotive	Clean Wheels		
8/12/2011	13107	NADX	Freight	Clean Wheels		North End Yard 2

Sample maintenance report

Click the Quick List button to print whatever is in the list box at the time. For example the sample above is a list of the tasks that are "Not Done" and whose task equals Clean Wheels.

To print the scheduled or history of a single car or locomotive edit open the maintenance window and click the Quick List button on the Maintenance tab.

Also see: View Designer, and Query Designer.

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12.2 Additional Use

There is another potential use for the maintenance section of Easy Model Railroad Inventory. Instead of using the Status field to keep track of cars needing painting, coupler installation, or repair, use the maintenance list.

13 Operations

Being new to the concept of operating a model railroad I had to do a lot of research before adding operations to Easy Model Railroad Inventory. It has been a learning experience I did enjoy. I started on a number of model railroad forums where I found a number of threads, which lead to many others sources, both on the Internet and published books and articles.

An excellent source has been the NMRA Operations SIG, (Special Interest Group). It was here I found a treasure trove of information about operation, industries and the products. Importing their industry files were the basis for both the industry file and their associated products.

Quoting from Bruce Chubb's book: "A person or company receiving goods is a customer or consignee; a person or company shipping goods is the shipper. (A shipper can also be a customer because most companies have a constant exchange of goods with other companies.) If your railroad doesn't have any shippers or customers, add them, even if it means simply putting a temporary block of wood along the track and labeling it 'Acme Tool and Die' until you have time to build the ideal super-detailed structure you'd really like to have for the location." (Page 134.)

Published resources:

How to operate your model railroad, Bruce Chubb, 1977, ISBN 0890245282

Realistic model railroad operation; how to run your trains like the real thing, Tony Koester, 2003, ISBN 0890244189

Track planning for realistic operation; prototype railroad concepts for your model railroad, John H. Armstrong, 1998, ISBN 0890242275

Internet resources:

http://www.gatewaynmra.org/designops.htm

http://www.building-your-model-railroad.com/model-railroad-operation.html

http://www.tslrr.com/carcards.htm

http://www.gatewaynmra.org/operate.htm

http://www.opsig.org/

http://www.model-railroad-infoguy.com/train-operation.html

http://home.cogeco.ca/~trains/rroperat.htm

http://tmrc.mit.edu/Publicity/TMRC_operating_scheme_v2.pdf

http://model-railroad-hobbyist.com/node/2363

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Other Recommended resources:

The model railroader's guide to freight yards, Andy Sperandeo, 2004, ISBN 0890245762

The model railroader's guide to industries along the tracks, Jeffery Wilson, 2004, ISBN 0890245827

The model railroader's guide to industries along the tracks 2, Jeffery Wilson, 2006, ISBN 0890246580

The model railroader's guide to industries along the tracks 3, Jeffery Wilson, 2008, ISBN 9780890247013

How to build realistic layouts: freight yards, Kalmbach; experts show you how to design, build, detail, and operate your yard, 6 great projects, Kalmbach, 2007, ISBN 9780897785341

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13.1 Consignee/Destinations

Operations > Consignee > Maintain

This is the first major step toward doing operations on your railroad. This is where all of the files related to consignees and shipper are maintained.

The list box on the left is the consignees, yards and other destinations.

The list box on the top right is where the products, either in bound or out bound, and the type of car for the currently selected consignee is maintained. There are some distinctions though and they are important.

This window allows you to add, edit, and delete your railroad's destinations and consignees.

First you select add and a new window pops up allowing you add the industry of your choice including name, type, town, state, yard (a check box), capacity (number of cars that can be placed there), and siding direction (east, west, north, or south). After saving, the industry will appear on the left hand side of the main window. Now you need to add products showing in-bound, out-bound, and by-products also include the AAR car type used with the product.

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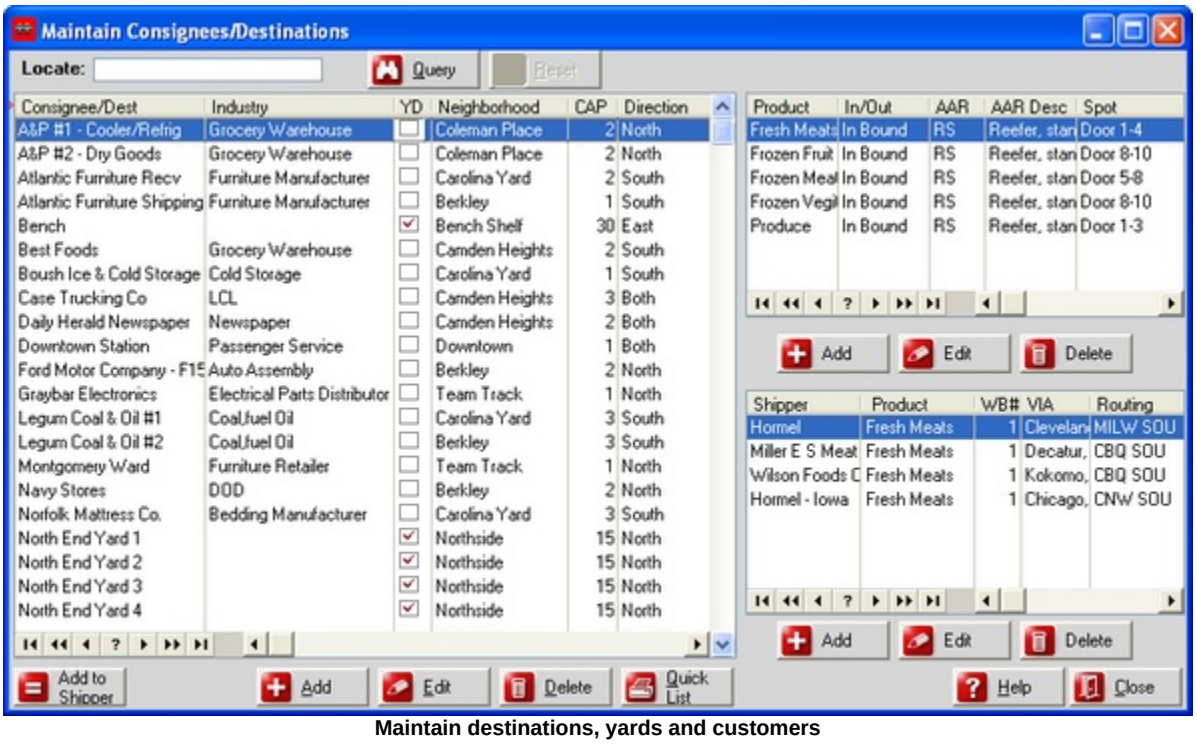

Maintain destinations, yards and customers

Step 1 is to add a consignee, click the Add button to start entering. To change the selected consignee information click the Edit button.

Step 1: Add or edit selected destination/consignee

As you can see most of the fields are required. All of this information will be used when operating, and printing waybills.

The required fields are:
1. Name of consignee or destination,
2. Industry Type,

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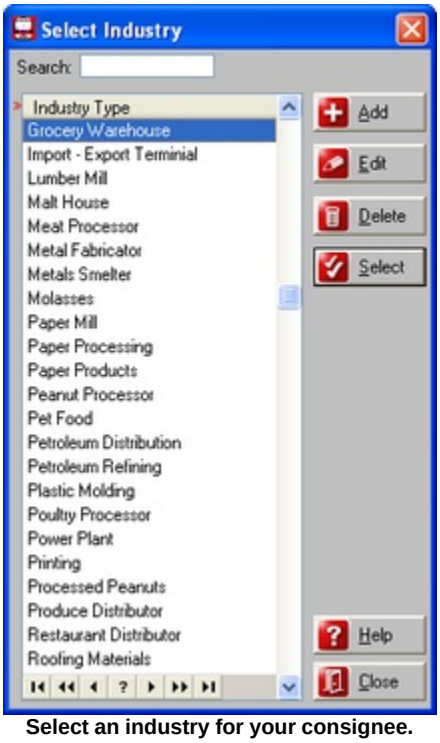
3. City and State,
4. Location, the section of town, or industrial name ,
5. Siding Direction, and
6. Type, must be either: Hidden, Off Layout, Storage, or Visible.

The capacity field is not used in any processing and is designed to indicate to the user how many cars the consignee will hold. When the Yard box is checked the number of cars will be much higher than the majority of your industries and can accept any AAR type.



Select an industry for your consignee.

Select the industry from the list of existing industry types.

Add or edit a new industry

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Step 2:
When you add an industry, the above window opens allowing you to enter the Industry Type and any notes about the industry.

Step 2: Add or edit a product for the selected consignee

As you can see in the above window image the industry and the consignee name are filled in from the parent record in the consignee file. All of the remaining data fields are required and used by the waybill printing process. The fields are:
1. Product,
2. In Bound, Out Bound and By product,
3. AAR car the product is to be shipped, and
4. Spot, where the car is to be spotted by delivering railroad.

Lookup, add or edit a consignee product

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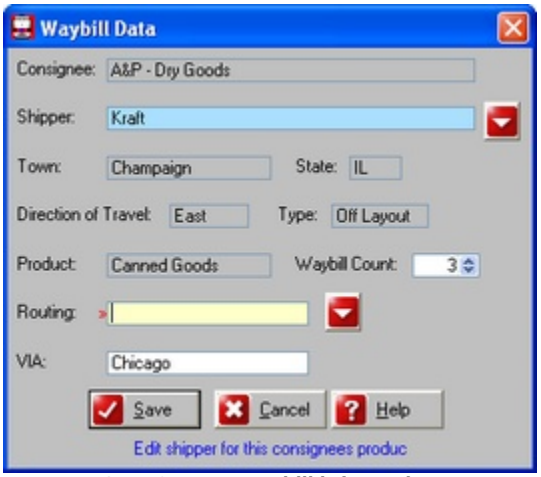
The window above is filtered to show all of the products currently assigned to the selected industry.

Update Industry Product

The industry name is displayed when you click either the Add, or Edit button. A product can be both in bound or out bound by entering two records, one in bound and the other out bound. An example is the coal export industry. The generic product coal has two product entries, one in bound and the other is out bound.

Step 3:
Lastly is entering the shipper associated with the currently select consignee and product.



Sterp3: Enter waybill information

Select the shipper from the Shipper file using the lookup button to the right or type the name. All of the information about the shipper is displayed in the read-only fields below the shipper's name. This information will help you enter the routing data if you choose to do so.

What is important is entering the number of waybills, Waybill Count. When adding a new record the default value is 1. This means one waybill will be printed. It is recommended the value be greater than one to give you a number of potential cars to be delivered to the consignee. The field is not required to allow a zero value which will result in no waybills being printed for the selected combination of consignee and product.

Using the lookup to select routing. The lookup button to the right of the Routing field functions differently than the other lookups in Easy Model Railroad Inventory. Select the first and it will display. Select a second to add it to the existing railroad reporting mark. In the Step 3 image above the Routing field is blank. The routing data may be entered by typing also.

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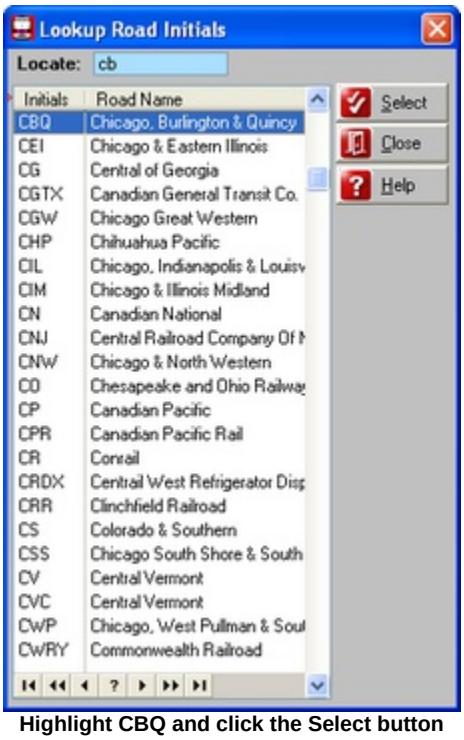

Highlight CBQ and click the Select button

Click the lookup button and select CBQ

After selecting three additional railroads the routing is complete.

If you make a mistake pressing the Delete key will allow you to start over. (The backspace key will not function in the text field.

Sample waybill

The image above is a sample of the waybill with the data from our example.

The routing and VIA fields are optional. Some operators will want this information to be prototypical and others will not.

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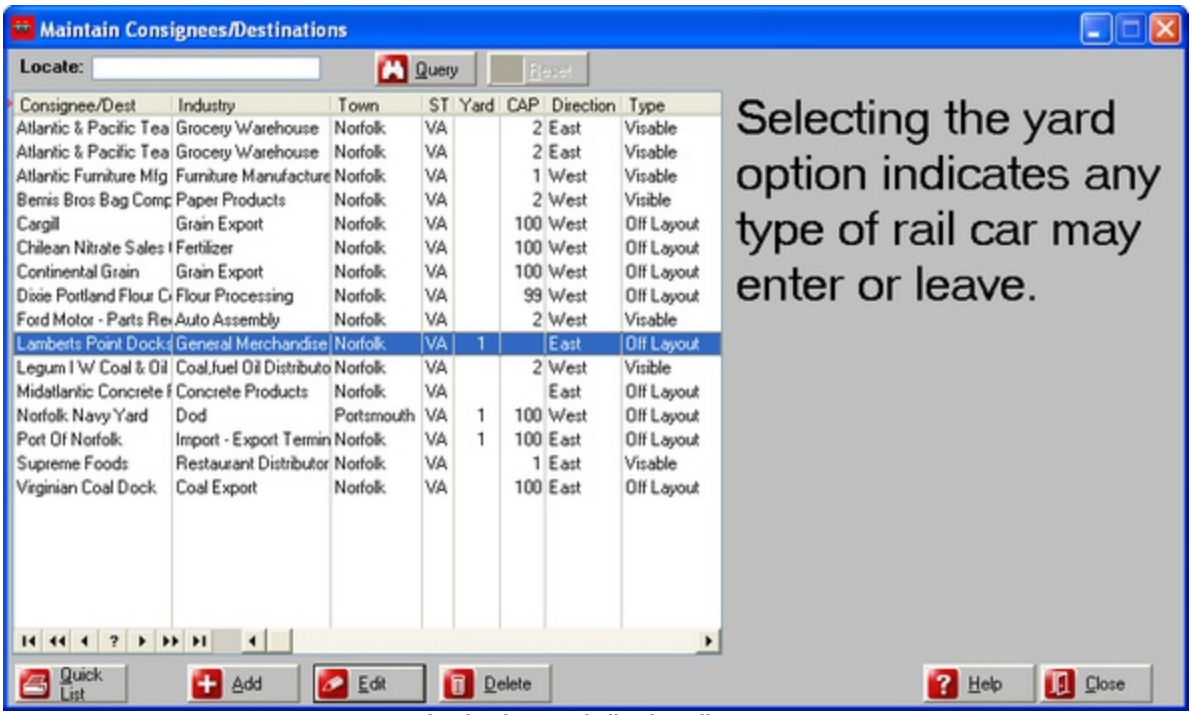
Display Differences:
Different field setting will change the display of the consignee products and consignee shippers list boxes. For example if the selected destination is a yard the maintenance screen will display as follows:



Destination is a yard allowing all car types

Because a yard can accept any AAR type both the product and the shipper list boxes are hidden. A yard is not the final destination for a car, it is just a temporary stop during its journey.

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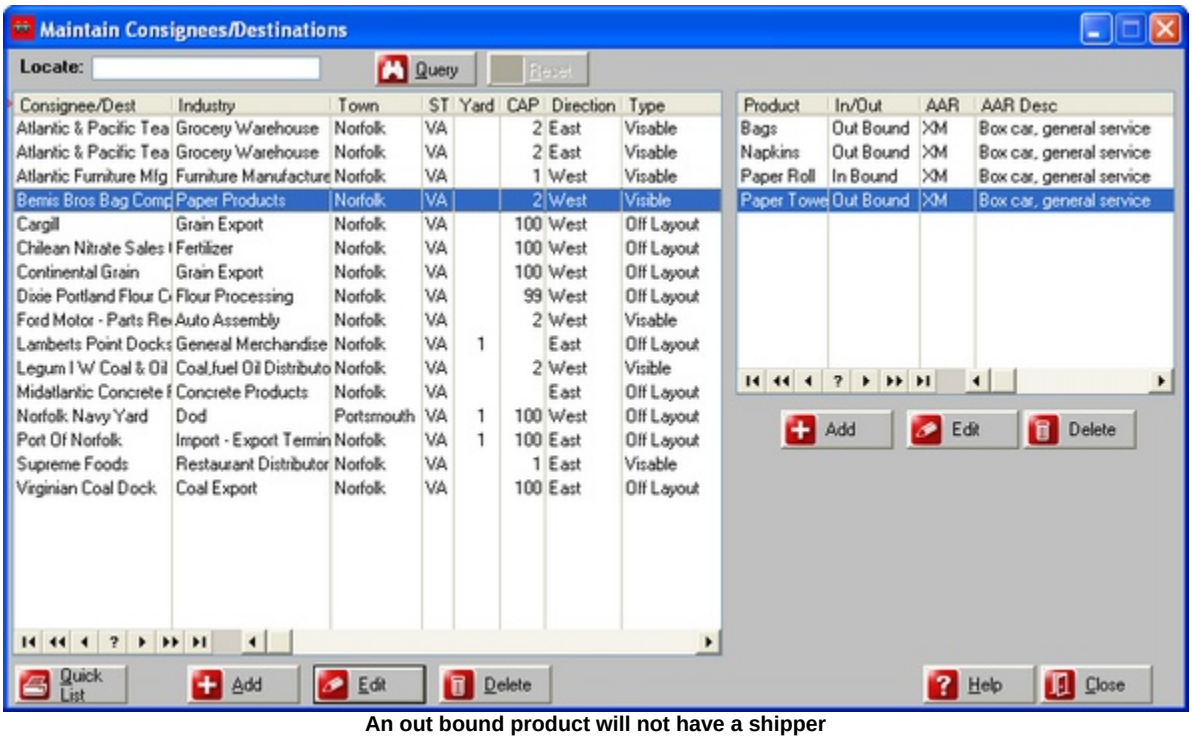

An out bound product will not have a shipper

The selected product in the product list box, upper right, is out bound. Because shippers only send cars to the consignee, in bound, the shipper list box is hidden.

Also see: Shipper, Car Cards and Waybills.

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13.1.1 Batch Assign Cars

Operations > Consignee > Batch Assign Cars

Before any car can be moved from one place to another you need to know the current location for each car. You can go to each record open the Freight Car window, find the car in the list, click the Edit button and enter the current location from the Consignee/Destinations lookup file.

So I printed a list of all freight cars. You could also use the Query Designer to narrow your list. For example, I only wanted to see the cars that were marked as Available or only cars of one or two AAR codes. Remember to print the list in car number order.

Then with list in hand I went to each industry and yard on my layout to inventory the cars in each location. Once the inventory was complete it was time to update each car's record with the correct current location.

NOTE: If you have a large number of cars located at a consignee's location or one of your yard's you can inventory that location then enter the data into Easy Model Railroad Inventory's database.

As I was testing Easy Model Railroad Inventory I had to assign locations to each car as described above. Even with 100 cars I quickly found this to be time consuming. To make this process less painful we have added the Batch Assign Car process.

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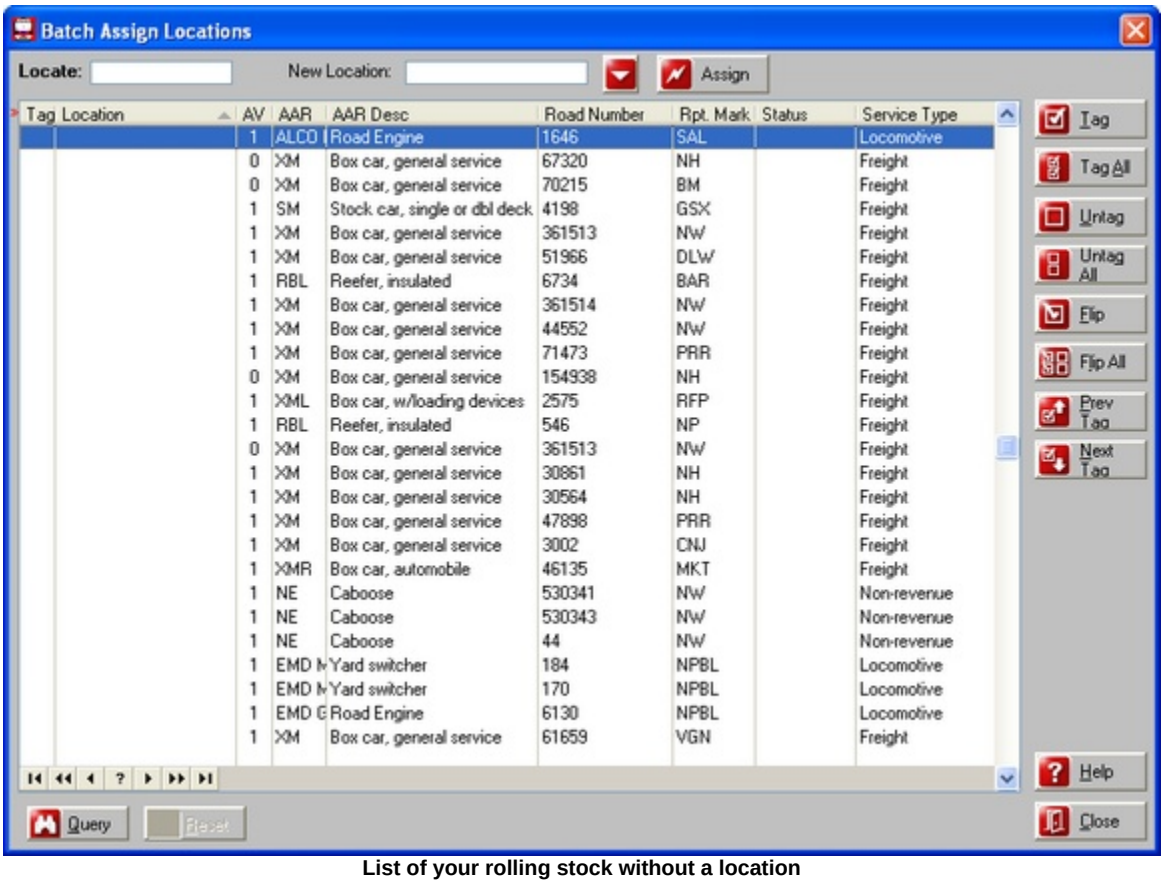

List of your rolling stock without a location

The window above lists all of your rolling stock regardless of Service Type or Status or any other factor. You may want to use the Query Designer to find specific AAR Codes or Availability. Left click on the Location column header to make this column the sorted column. All of the records that have a blank Location will be listed starting at the top.

Service equals Freight

After clicking the Query button we designed and selected Service Type equals Freight. Freight is displayed in blue at the bottom of the window.

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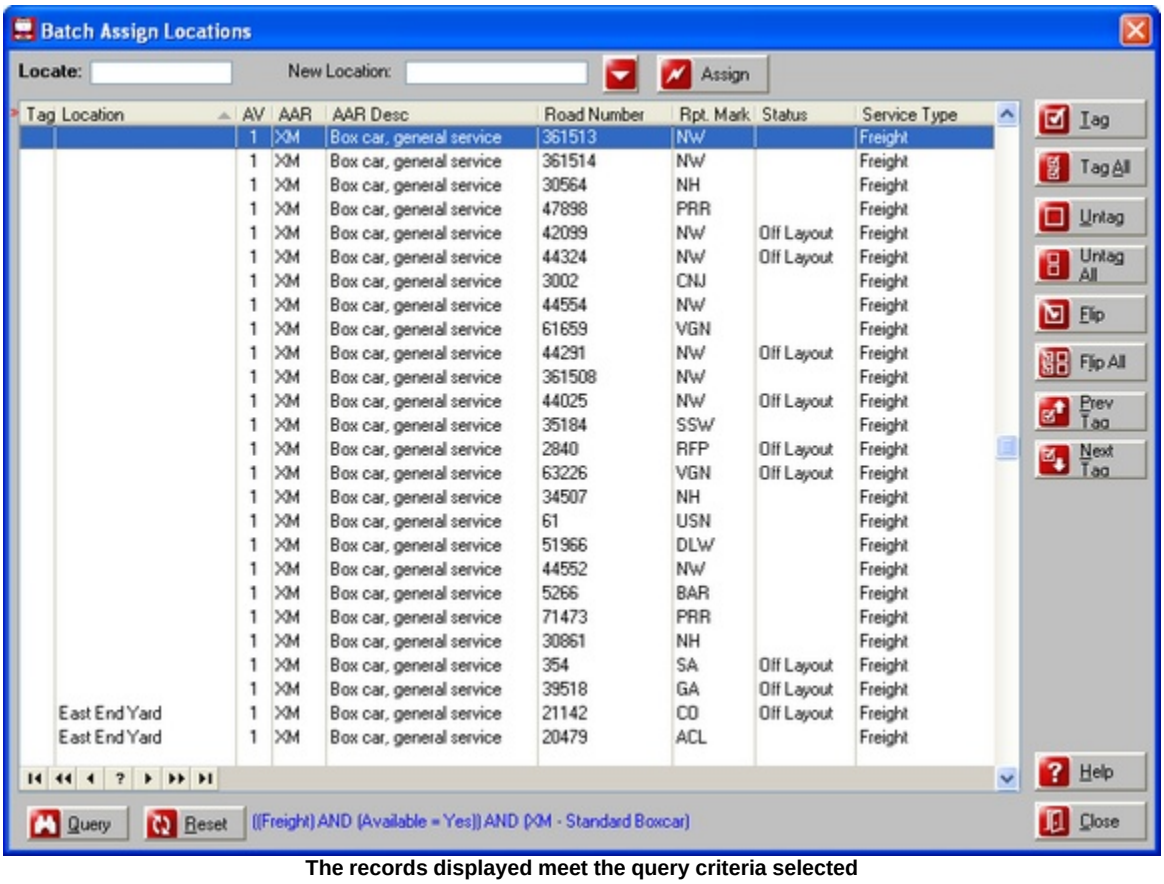

The records displayed meet the query criteria selected

There are three query definitions connected with the AND operator to allow us to view all Freight cars that are available with the XM AAR code.

To tag the records we want to change to a valid location simply click the Tag button. After tagging the top record the next record will be highlighted. Click again. Repeat until all the records are tagged that you want to assign to the new location. We have tagged the first 6 records.

Select the new location the 6 tagged records will be assigned by either entering it from the keyboard or select from the existing list of Consignees and Destinations. The New Location field must have data or the process will not start.

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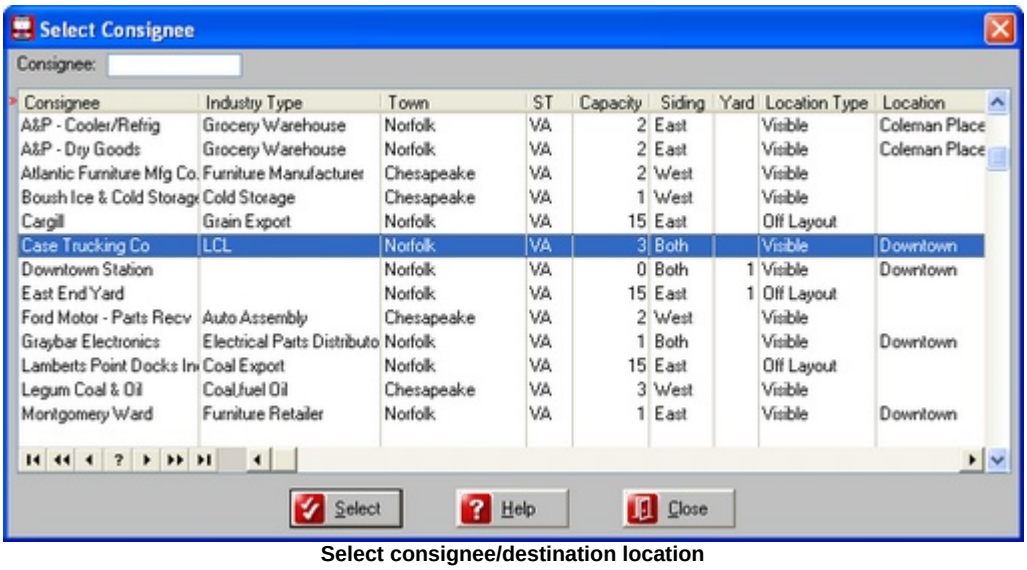
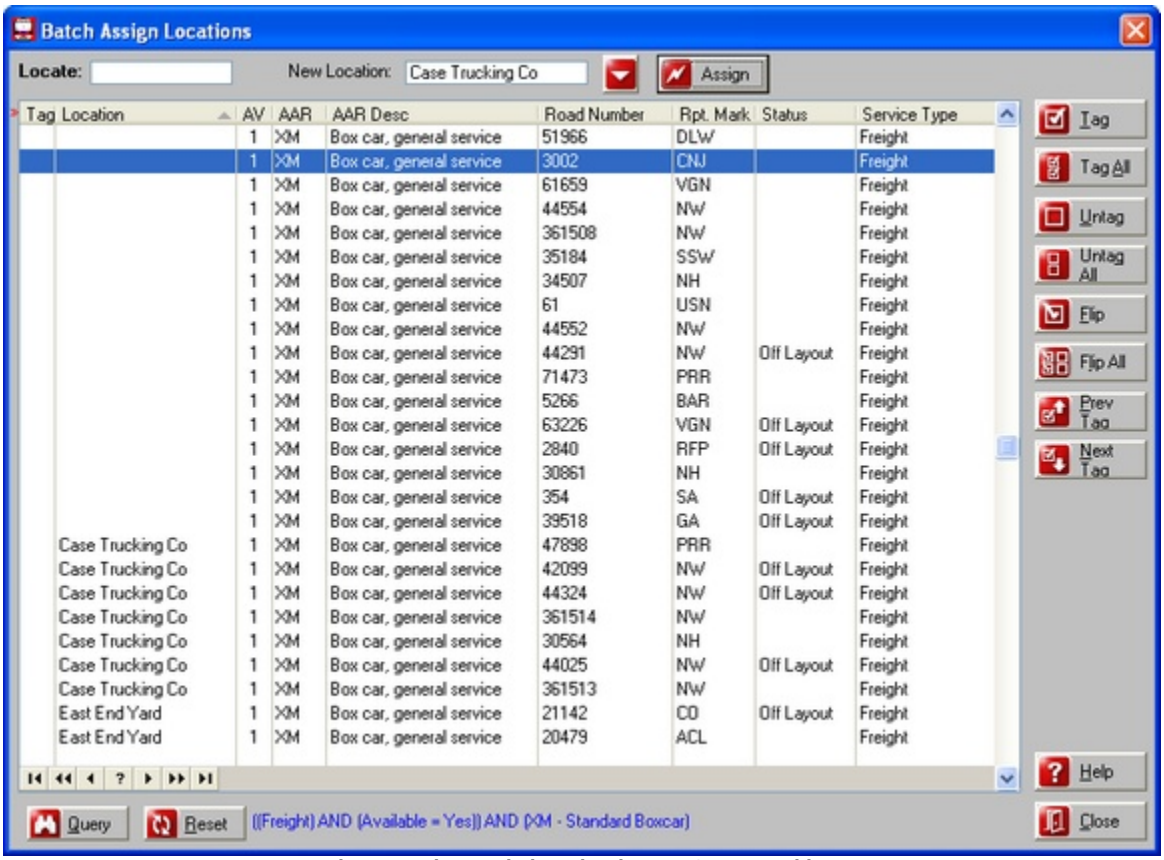


Select consignee/destination location

We have selected Case Trucking. The company name is displayed in the New Location entry field. To complete the process click the Assign button.



The tagged records location is now Case Trucking

Because the company we selected is alphabetically higher we can see the changed records.

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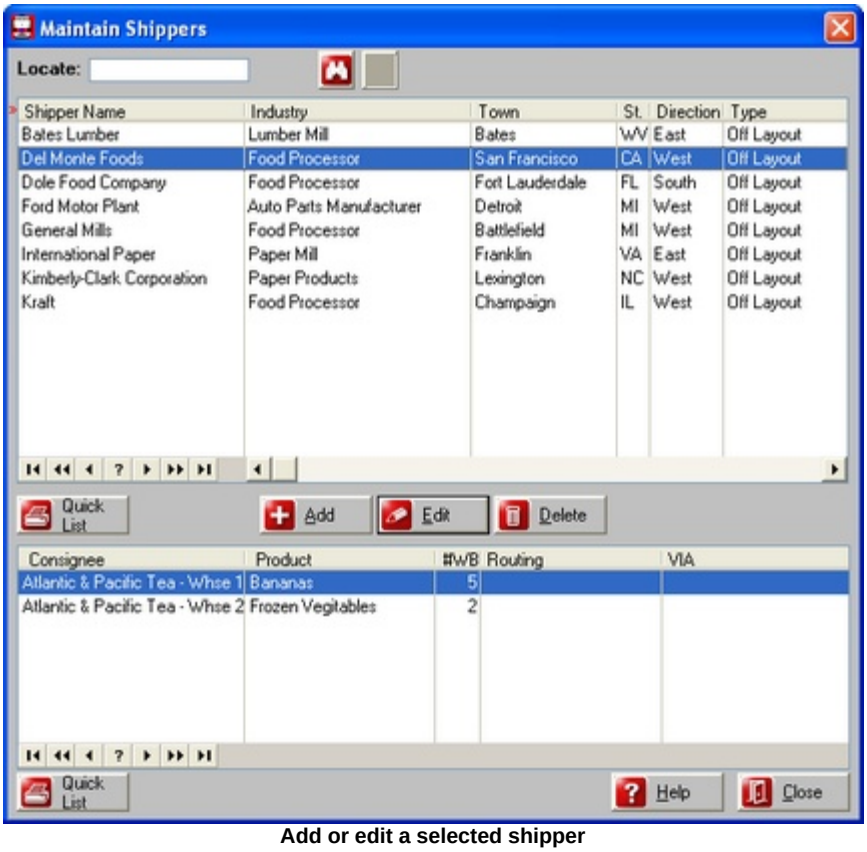
13.2 Shipper

To have an operating session that is like the prototype there must be a source for the cars. Easy Model Railroad Inventory uses the shipper, combined with the consignee, and the number of waybills, to generate the waybills needed.

Before adding a shipper there must be records in the consignee file. The consignee is determines where the product will be purchased and how it is to be shipped. So there has to be at least one consignee.

The bottom list box will show all of the consignees on your layout that is doing business with this shipper, the product, routing, VIA, and the number of waybills that will be generated for the combination of shipper, consignee and product.



Add or edit a selected shipper

Click the Add button in position between the two list boxes. The top list box is a list of the shippers that can be Added, Edited or Deleted. The Quick List button will print all of the shipper currently visible. In the event a query is active only those records matching the query criteria will be visible, and printed.

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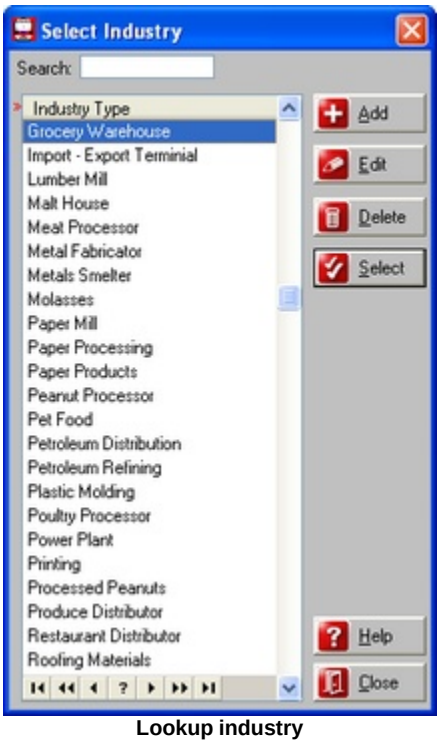
Add or edit shipper information

All of the fields in the shipper file are required. This information is used by the waybill generator to print the necessary information.

1. The shippers name,
2. Select the industry type,
3. City and state,
4. Approach direction, and
5. Type.



Lookup industry

Click the Save button when all fields are complete and you are satisfied they are correct.

Also see: Consignee, Car Cards and Waybills, and Operations.

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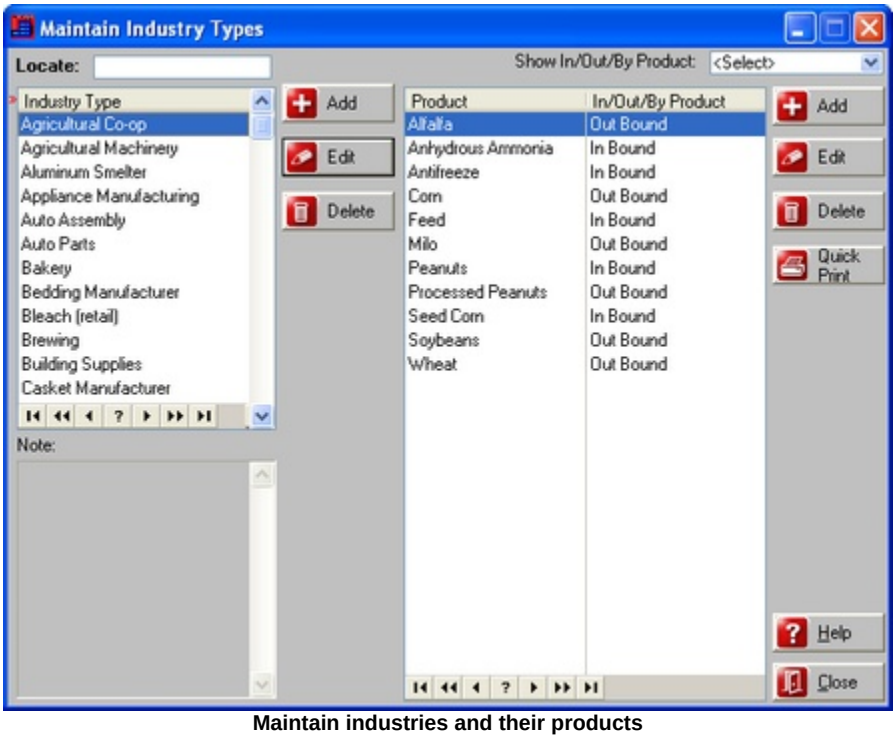
13.3 Industries and Products

Before your railroad can be operated shipping and delivering goods you need to add industries and their products. You must decided what types of businesses our on your railroad. The software has the files that were created using the data files on the NMRA Operations SIG site and are by no means complete. This gives you a good starting point towards realistic operations if that is your goal.

The Maintain Industry Types window shows on the left side the industry type and the right side shows the products and if the product is in bound or out bound. At the top left is a text box for locating an industry. On the top right is a drop option to show in-bound, out- bound, or by- product.

You can add, edit. Alternatively, delete industries as you see fit and do the same with products.



Maintain industries and their products

Therefore, if you cannot find an industry to fit your railroad, you can simply add it to the list.

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Industry Type

When you add an industry, the above window opens allowing you to enter the Industry Type and any notes about the industry.

Once you have named the industry, you need to add its products and indicate if they are in-bound, out-bound, or a by-product. By-products may or may not be shipped by the railroad. Examples of by-products would be chemicals or compounds that are used to make the product but have no commercial value.

Industry product maintenance

The industry name is important because it determines what products will be assigned. When you add a consignee and the industry type the associated products will be visible. Click the Save button to accept the addition or change you have made.

NOTE: The product may be very specific, like Bananas in our example. Or the product may be more general, for example Produce which would include Bananas. If you use the specific product name you will generate waybills
for each product. On my layout I have an A&P distribution center that has a capacity for two cars. If I were to individually add products, bananas, oranges, cereal, Kleenex, paper towels, soap, and on and on, I would have dozens, if not hundreds of waybills. I choose to have generic inbound products, paper goods, produce, meat, canned goods. And I will have only one shipper for each product though Easy Model Railroad Inventory will allow an infinite number of shippers for the same product. My layout just doesn't have the capacity for all the possible number of waybills that could be generated.

Do the math:
5 consignees,

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5 products for each consignee,
1 shipper for each product, and
1 car for each shipper/product.

Equals:

Also see: All Products, Car Cards and Waybills, Consignee and Shipper.

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13.3.1 All Products

This window allows you to add, edit, and delete products to be carried on your railroad. It is also a good tool for looking for existing items to add to your industries.

All products

Click Add, Edit or Delete to modify the products file.

Also see: Operations, Shipper, Industry and Products, and Car Cards and Waybills.

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13.4 Car Cards and Waybills

Preparing a car card system for operations is made easier by printing the car cards and waybills. The result is a much neater card, easier to read for you and your operators. If a car card is damaged all you need to do is set the Print Car Card checkbox for the car in the Freight maintenance window, then Print Car Cards.

On some printers, especially lasers, the default margins must be set to zero. The car cards are 5 1/4 inches tall and there are two rows per page. That is 11 inches.

We recommend using 65 lb paper or heavier to print your car cards and waybills.

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Printing Car Cards

Printing Waybills

You may optionally print color coded AAR data on both the car card and waybill by clicking the Color Code Car Class checkbox on the Preferences window. The freight car color codes are:
1. Box car (X) - black,
2. Reefer (R) - red,
3. Tank (T) - blue,
4. Gondola (G) - green,
5. Ventilated (V) - gray,
6. Stock (S) - maroon,
7. Hopper (H) - purple,
8. Flat (F) - navy, and
9. Special (L) - aqua.

The passenger color codes are:
1. Passenger (P) - black,
2. Dining (D) - red,
3. Combined (C) - green,
4. Baggage (B) - blue, and
5. Mail (M) - maroon.

Also see: All Products, Consignee and Shipper.

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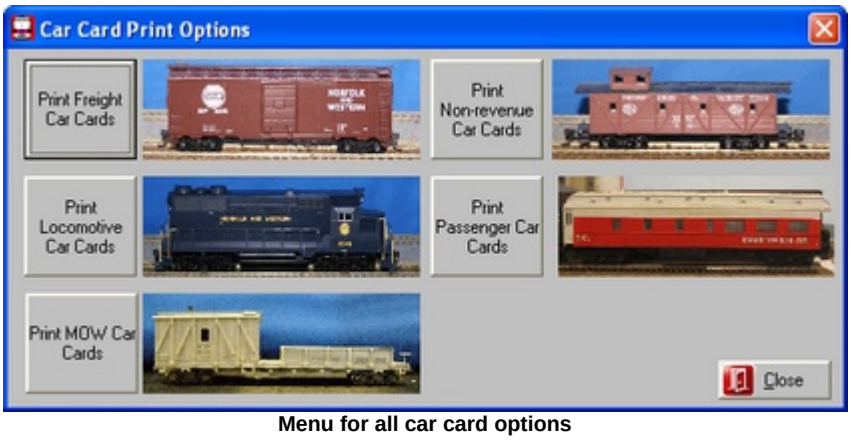
13.4.1 Printing Car Cards

Printing car cards is very simple. The field Print Car Card on the Routing/Operation tab of the update window must be checked. Printing car cards are segregated by the service type:
1. Freight cars, (optionally color codes by AAR class)
2. Passenger cars, (optionally color codes by AAR class)
3. Locomotives,
4. Non-revenue cars, and
5. MOW cars.



Menu for all car card options

When the selection is made a window will display with all freight rolling stock listed. The tag column is how the program knows which cards need to be printed. Click the tag column to either check or uncheck the record.

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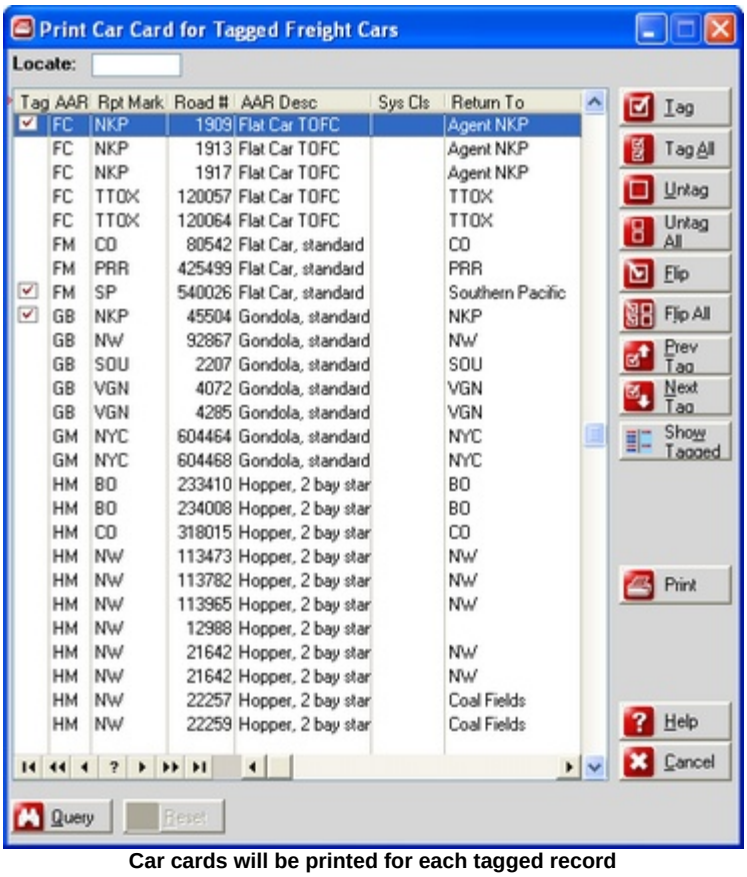
On some printers, especially lasers, the default margins must be set to zero. The car cards are 5 1/4 inches tall and there are two rows per page. That is 11 inches.

We recommend using 65 lb paper or heavier to print your car cards and waybills.



Car cards will be printed for each tagged record

The query designer is available to help you zero in on the specific cars you need to print. For example the Purchase Date can be used to select only recent purchases. Once selected tag them and print.

The tag field is also available in the Maintain Freight or Locomotive window and is a default value you can automatically set. Setting the default value to Yes, clicking the check box, means you can be secure that a car card will print the next time you print them.

To print the tagged records click the print button. The information printed is:
1. Reporting mark,
2. Car number,
3. AAR + description,
4. Class, color
5. Length, (not printed by default)
6. Door width, (not printed by default)
7. Capacity, (not printed by default)
8. Build Date, and (not printed by default)
9. Rebuild Date. (not printed by default)

The Empty car return to information is printed below. Also printed is the items record number in the equipment file. If you do not want the ID number printed on any of the cards check the "Hide ID Number when printing Car Card" checkbox on the Preferences window. The record number will be used in other functions of the Easy Model Railroad Inventory operating scheme. You will be able to

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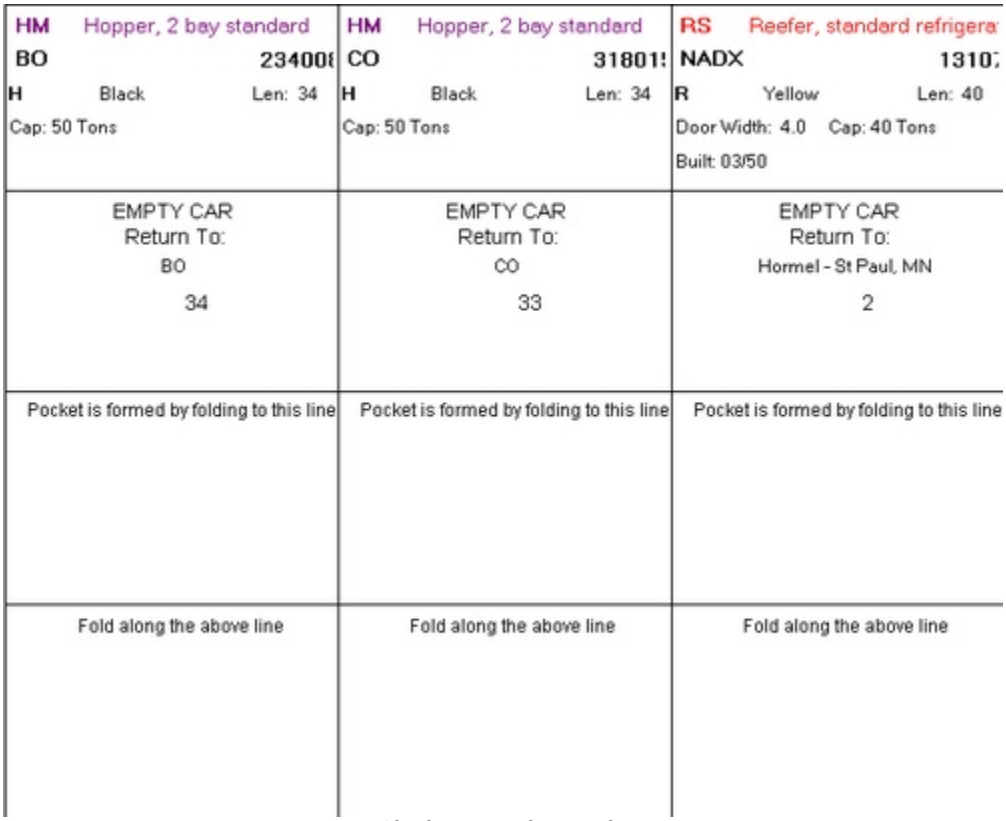
quick identify a car, even though it may be a duplicate.

Items 5 through 9 must be turned on by selecting the option on the Preferences window. If the field does not a value and the field is selected to print nothing will print. There will be no captions without an accompanying value as in the earlier version of Easy Model Railroad Inventory.



Single car card example

Notice the AAR code and the AAR description text is in color. By default black will be used. If you want yours in color check the "Use Color for Car Cards and Waybills" on the Preferences window.

After printing the selected car cards it is necessary to clear the tags. Click the Untag All when you are sure the cards you printed are correct. There is no reason to print duplicates unless one is damaged and needs to be replaced. Printed output has 6 car cards per page.

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13.4.2 Printing Waybills

The number of waybills that will be printed depends on the number of shippers and the number of waybills for each shipper. Selecting a shipper for a product is done on the consignee maintenance window.

The Waybill Memory File window has a list of all consignees in alphabetical order. There will be a separate record for every combination of consignee and shipper. The locate text field will only search the consignee field. The Query Designer maybe used to search on other fields.

The tagging option allows you to select specific records to print as needed. A new consignee and/or shipper might be added. Maybe some waybills have been lost. Or not enough waybills were printed. Using the Query Designer to find specific records and tagging them will print what you need, when you

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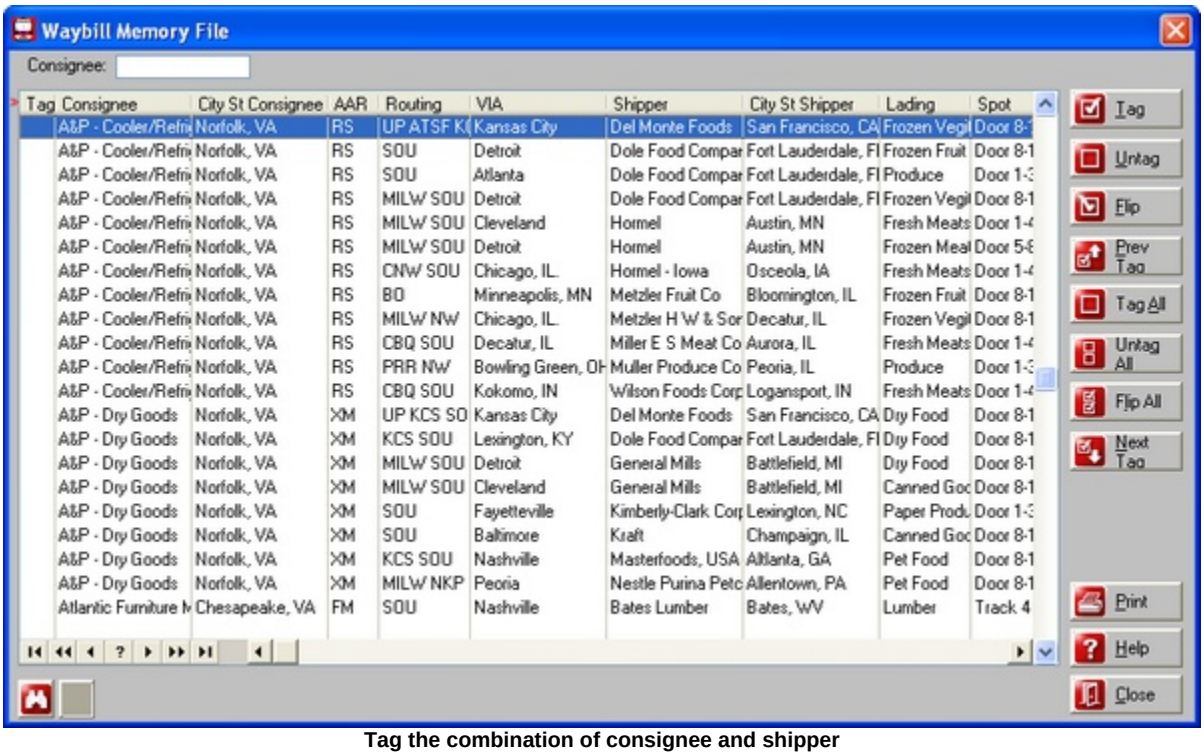
need it, without printing all the waybills again.



Tag the combination of consignee and shipper

When the reports progress window opens you have the opportunity to decided what the contents of one of the waybills fields will print. The default will print the city and state of the consignee. If the box is checked the waybills location will print on the second line of the waybill. If the location field is blank the city and state will print instead. This is a very easy way to be very specific about the location of the consignee on your layout.d

Print location option

As opposed to the Print Car Card window whose tags are a field in the equipment file and are saved, the waybill tags are in a temporary memory file and will be cleared when either the window is closed or the printing has completed.

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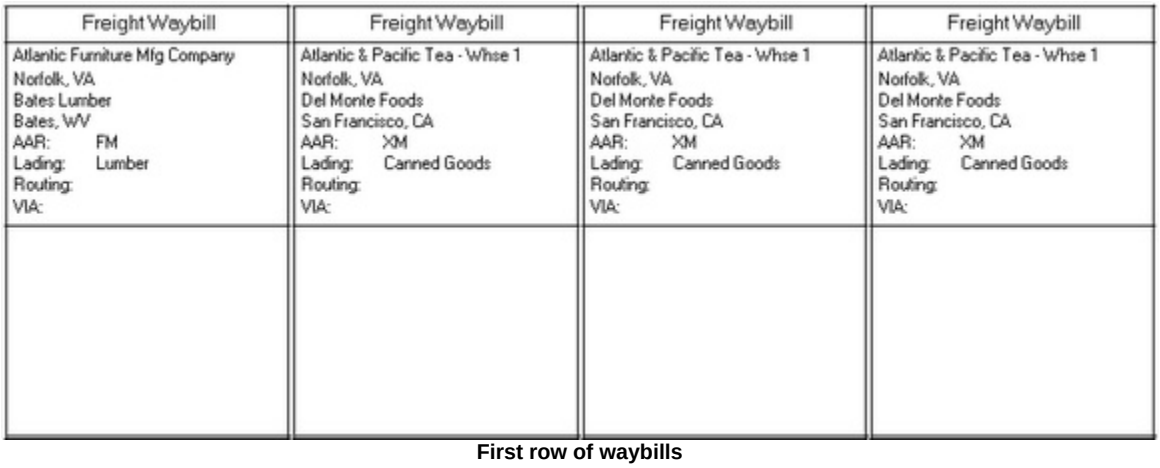

Freight Waybill	Freight Waybill	Freight Waybill	Freight Waybill
Atlantic Furniture Mfg Company Norfolk, VA Bates Lumber Bates, WV AAR: FM Lading: Lumber Routing: VIA:	Atlantic & Pacific Tea - Whse 1 Norfolk, VA Del Monte Foods San Francisco, CA AAR: XM Lading: Canned Goods Routing: VIA:	Atlantic & Pacific Tea - Whse 1 Norfolk, VA Del Monte Foods San Francisco, CA AAR: XM Lading: Canned Goods Routing: VIA:	Atlantic & Pacific Tea - Whse 1 Norfolk, VA Del Monte Foods San Francisco, CA AAR: XM Lading: Canned Goods Routing: VIA:

First row of waybills

It is important to understand that the number of waybills printed are solely determined by the value entered in the Number of Waybill field in the Ship To file. This is the list box located on the Consignee window at the bottom right.

We recommend using 65 lb paper or heavier to print your car cards and waybills. The output has 16 waybills per page.

Note: All tagged records will always be printed. If you have a query active with the visible records tagged and other non visible records are also tagged ALL of them will be printed. Tagged, visible or non visible.

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14 Running Trains

Operations > Scheduling ...

You may add any number of trains to your Timetable of scheduled and extra trains at any time. If you do not want to include cars then there is nothing else to be done once you have added the train to the schedule. You do have to have departure points and destinations. Add your consignees and destinations,

But if you do want to include rolling stock there are a number of steps that must be completed before cars may be added to a scheduled train.

1. Car inventory, Freight Cars
2. Each available car must be located at one of the consignee/destination locations,
3. The car must be Available.

Once these criteria are complete cars may be added to an existing train.

See related topics: Timetable, Print Schedule, Assign Cars, Assign Locomotives, Print Switch List, Process Train, Match Assigned.

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14.1 Create a Schedule

Operations > Scheduling > Build Trains

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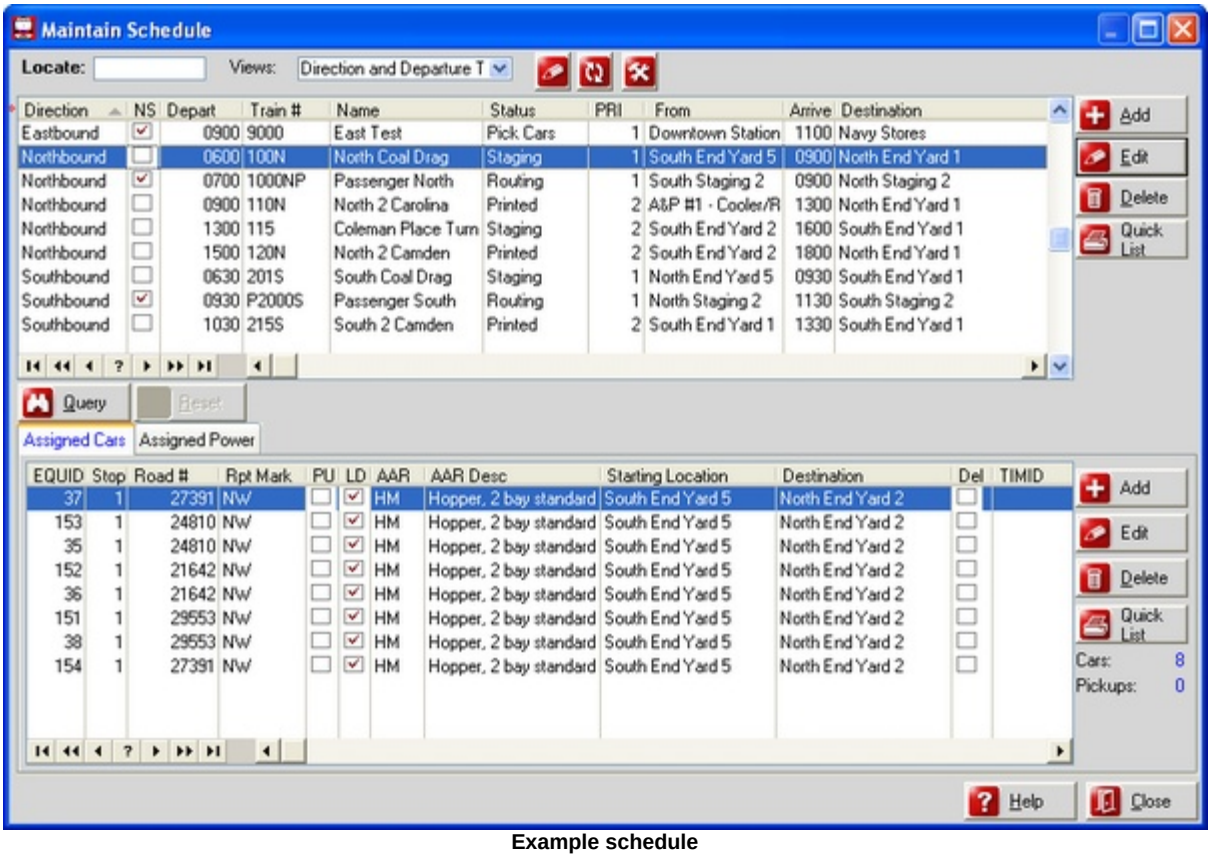
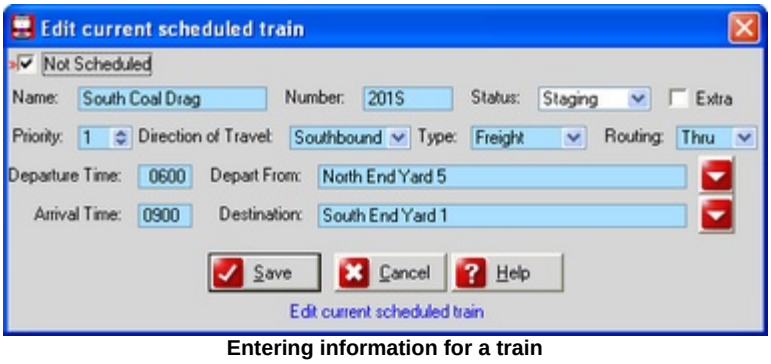
Creating a timetable, or schedule, is just a matter of adding the train's information. Every column can be selected as the sort column to allow the user to see different views. The location field will search the currently selected column. If the Departure Time column is selected do not enter anything but numbers when attempting to locate a specific time.



Example schedule

Click the Add button under the schedule list box to enter a new train. Once one train has been added to the schedule cars and locomotives may be assigned to the train. Click the Assign Cars button to select from the available cars on your layout. Then click the Assign Power button to select from the available locomotives on your layout.

Specifically assigning cars and locomotives allows one or more operators each of these jobs. One at your terminal and a second at the yard.



Entering information for a train

Timetable fields list:

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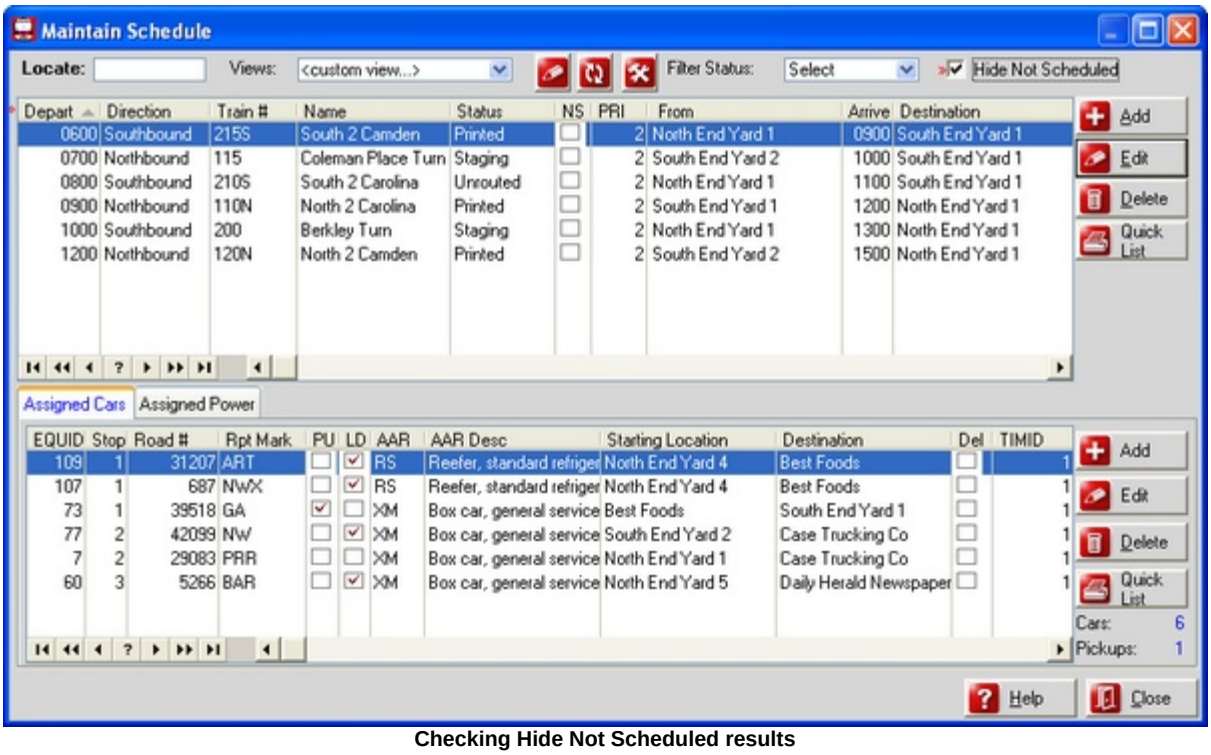
1. Not Scheduled checkbox, when checked this train will not print on schedule or switch list unless the user chooses to have it print. And there is a Hide Not Scheduled checkbox on the parent browse window to allow the dispatcher to see only the trains that will run during that session.
2. Name,
3. Number,
4. Status, options: Unrouted, Pick Cars, Routing, Printed, Staging, In Route)
5. Extra checkbox,
6. Priority, (1 - 99 allowed, though only 1 - 4 will probably be needed)
7. Direction of Travel, (Northbound, Southbound, Eastbound or Westbound)
8. Type, (Freight, Passenger, Mixed or MOW)
9. Routing, (Local, Thru or Turn)
10. Departure time, (format HHMM)
11. Depart from, (location from which train is leaving)
12. Arrival time, (format HHMM) and
13. Destination (consignee or yard or other valid location).

As you can see all but three of the fields are blue, meaning each is required. The Not Scheduled, Extra checkbox and the Status field are the only optional fields in this file's record. If you check the Hide Not Scheduled box all the trains not scheduled to run are removed from the visible schedule as shown below.



Checking Hide Not Scheduled results

If the train is not going to be run during the upcoming operating session why would you want to have to work around the record. Tagging a train as being Not Scheduled does NOT release any cars and locomotives that may be assigned to that train. If you want access to the cars, move them to another train or trains, each must be released, deleted, to make them available. If they are not released they will be delivered, or picked up, the session following the train being released.

The Status field is unique to the author's needs. He wanted a way to look at the schedule and quickly determine what needed to be done to get his entire timetable complete.

The options and their meaning are:

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Select - All options are displayed.
Unrouted - a scheduled train with no cars assigned.
Pick Cars - Cars are now being assigned.
Routing - the assigned cars having the stop numbers entered.
Printed - the first 3 steps have been completed and the switch list has been printed.
Staging - the train with the assigned cars are sorted and in staging ready to depart.
In Route - the train with the assigned cars are in transit.

Note:
The Hide Not Scheduled will over ride the Status field option. So if the status is to show only Staging and the Hide Not Scheduled box is checked any Staging status NOT scheduled will be hidden.

Time is displayed as military time, HHMM. The Depart From and Destination fields lookup to the Consignee/Destination file. The direction of travel is selected from a list of options: Eastbound, Westbound, Northbound or Southbound. The schedule report will group by direction then sort by Departure time.

See related topics: Print Schedule, Assign Cars, Assign Locomotive Power, Print Switch List, Process Train, Match Assigned.

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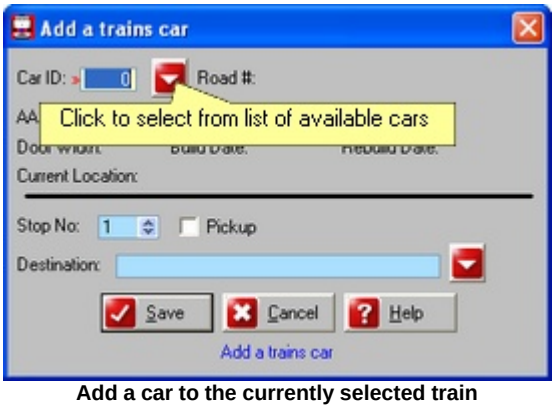
14.1.1 Assign Cars to your Trains

Operations > Maintain Trains... click the Assign Cars button

Once there is at least one train on your schedule cars may be added. The sort order is by stop number.

Click the Add button to open the "Add a trains car' window. First you must select the car.



Add a car to the currently selected train

Click the icon to the right of the Car ID entry field. (You can key in the car's ID number but the chances of you knowing it is very slim. The car ID is the only unique field in the Freight Equipment file. Because the car's ID number is unique you could have the same car number attached to the same train, or other trains.)

The stop number is not the order the cars must be in the train. It is a method of knowing where set outs and pickups are in relation to one another. See the Print a Switch List help topic for more information.

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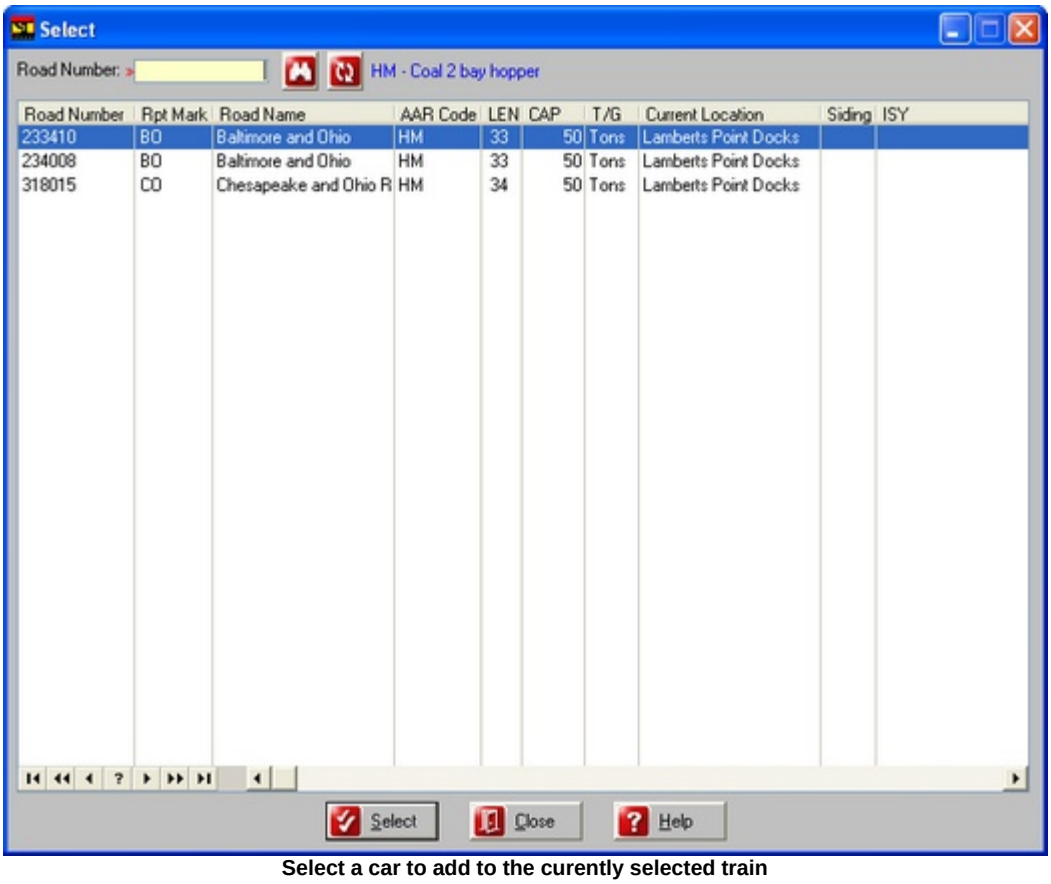
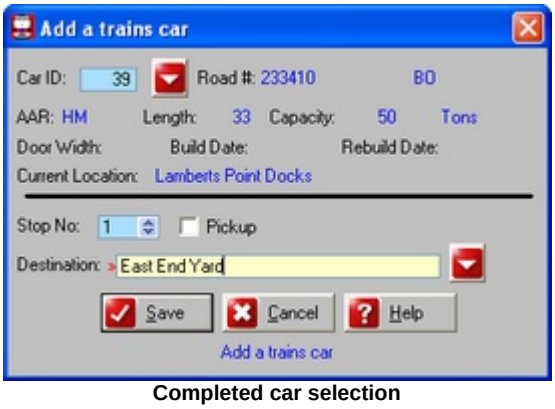


Select a car to add to the curently selected train

Before a car will be displayed for selection it must meet very specific criteria.
1. Service type not a locomotive,
2. The car cannot be assigned to another train,
3. The Available field must be checked,
4. The car must be in a valid location,
5. The location type cannot be "Storage".



Completed car selection

After a valid car has been selected enter the stop number. This could also be called block number. It is a way to organize the cars into groups of cars that will be handled at the same time. The default value is 1. Notice that for the East Coal Drag train all the cars have the same stop number because all of them are going to the same place.

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Select the cars destination using the Consignee/Destination lookup. Also if the car is going to be picked up warn the operator by checking the Pickup box.

After the first car and its destination has been selected Easy Model Railroad Inventory will remember the destination. That destination will be used as the default until it is changed. Then the new destination will be in memory.

If a query is used to find cars with a specific AAR code as we did the query will be saved to be used the next time the window is opened to make a selection. Also notice that car 233410 is no longer listed as it has been assigned to a train.

See related topics: Timetable, Print Schedule, Print Switch List, Process Train, and Match Assigned.

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14.1.1.1 Orphaned Assigned Car

Operations > Scheduling > Match Assigned

If you cannot add a specific car to a train possible reasons are:
1. Service type is a locomotive, and/or
2. The car has been assigned to another train, and/or
3. The Available field has not been checked, and/or
4. The car does not have a valid location, and/or
5. The location type cannot be "Storage".

Rolling stock routing tab

The blue text fields on the top line is the scheduled train this car is assigned. The train number, name, type and time of departure. This can be helpful when you cannot find a specific car.

Owners of a Easy Model Railroad Inventory license version 3.5 or greater need not ever run this function. However if you do no harm will come to your data.

Whenever a major change is going to be made to your data always do a backup first. Nothing should go wrong but it is best to be safe rather than sorry.

Prior to version 3.5 of Easy Model Railroad Inventory there was a bug affecting the Assigned to Train flag in the equipment file. If you were to edit the record after assigning it to a train the Assigned to Train flag would be cleared. This created a problem which will be resolved after running this process.

See related topics: Timetable, Print Schedule, Assign Cars, Process Train, and Print Switch List.

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14.1.2 Assign Locomotives to your Train

Operations > Maintain Trains... click the Assign Power button

Once there is at least one train on your schedule one or more locomotives may be added. Assigning locomotives is an option. Where as moving cars to one location to another requires each be assigned to a train, it is not required to assign a locomotive. On the other hand, if you have a large number of locomotives and want to keep track of where they are after every operation session this is the way to

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do it.

The steps for selecting a locomotive is the same as selecting cars. The obvious difference is the lookup will have the available locomotives listed.

After selecting a locomotive and its destination

See related topics: Timetable, Print Schedule, Assign Cars, Print Switch List, Process Train and Match Assigned.

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14.2 Report Designer

With the release of version 6.4 the Report Designer coupled with the Query Designer has been added to the Scheduling group.

14.3 Print Schedule

Operations > Scheduling > Print Schedule

There are three optional output formats for a printed schedule. By default the trains that are not scheduled will not printed. Check the 'Include Not Scheduled Trains' to print ALL the trains on the schedule. Being able to include or exclude a train is an easy way to mix up your operating sessions from meeting to meeting.

Select format to print scheduled timetable

There are three views to choose:

Time Order - Will print the entire timetable in departure time order from the lowest to the highest.

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Single Page - Will print the timetable in departure time order grouped by destination direction in alphabetical order. A train traveling from south to north has a destination direction of Northbound.

Multiple Pages - Will print the timetable in departure time order with each destination direction on a new page.

On the top left of the header is a message to tell the reader if the schedule includes all trains or only the scheduled ones.

If there are one or more locomotives assigned to a scheduled train it information will be printed just below the timetable entry on all timetable print outs.

Also see: Create a Schedule, Assign Cars to your Trains, Print a Switch List, Process Train, and Match Assigned.

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14.3.1 Time Order

Will print all trains on one page in departure time order. By default the trains that are not scheduled will not print.

Date: 12/12/2012 Time 12:05 PM

Scheduled Only

Timetable

Norfolk Portsmouth Belt Line

Train #	Name	Priority	Routing	Type	Extra	Depart	Depart From	Arrival	Destination
100N	North Coal Drag	1	Thru	Freight	☐ Extra	0600	South End Yard 5	0900	North End Yard 1
NPBL 6130 Diesel South End Yard 5									
201S	South Coal Drag	1	Thru	Freight	☐ Extra	0630	North End Yard 5	0930	South End Yard 1
110N	North 2 Carolina	2	Turn	Freight	☐ Extra	0900	A&P #1 - Cooler/Refrig	1300	North End Yard 1
215S	South 2 Camden	2	Local	Freight	☐ Extra	1030	South End Yard 1	1330	South End Yard 1
NW 2133 Diesel North Staging 1									
NW 2132 Diesel North Staging 1									
115	Coleman Place Turn	2	Local	Freight	☐ Extra	1300	South End Yard 2	1600	South End Yard 1
120N	North 2 Camden	2	Local	Freight	☐ Extra	1500	South End Yard 2	1800	North End Yard 1
NW 3545 Diesel									
200	Berkley Turn	2	Turn	Freight	☐ Extra	1530	North End Yard 1	1830	North End Yard 1
NPBL 184 Diesel South Staging 1									

Every scheduled train printed in time order

In the above print out train numbers 110N, 115 and 200 have locomotives assigned.

Also see: Create a Schedule, Assign Cars to your Trains, Print a Switch List, Process Train, and Match Assigned.

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14.3.2 Single Page

This option will print your timetable on a single page. That will, of course, depend on the number of scheduled trains. By default the trains that are not scheduled will not print.

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Date: 12/12/2012 Time 12:08 PM

Timetable

Scheduled Only

Norfolk Portsmouth Belt Line

Northbound

Train #	Name	Priority	Routing	Type	Extra	Depart	Depart From	Arrival	Destination
100N	North Coal Drag	1	Thru	Freight	☐ Extra	0600	South End Yard 5	0900	North End Yard 1
NPBL 6130 Diesel South End Yard 5									
110N	North 2 Carolina	2	Turn	Freight	☐ Extra	0900	A&P #1 - Cooler/Refrig	1300	North End Yard 1
115	Coleman Place Turn	2	Local	Freight	☐ Extra	1300	South End Yard 2	1600	South End Yard 1
120N	North 2 Camden	2	Local	Freight	☐ Extra	1500	South End Yard 2	1800	North End Yard 1
NW 3545 Diesel									

Number of Scheduled Trains: 6

Southbound

Train #	Name	Priority	Routing	Type	Extra	Depart	Depart From	Arrival	Destination
201S	South Coal Drag	1	Thru	Freight	☐ Extra	0630	North End Yard 5	0930	South End Yard 1
215S	South 2 Camden	2	Local	Freight	☐ Extra	1030	South End Yard 1	1330	South End Yard 1
NW 2133 Diesel North Staging 1									
NW 2132 Diesel North Staging 1									
200	Berkley Turn	2	Turn	Freight	☐ Extra	1530	North End Yard 1	1830	North End Yard 1
NPBL 184 Diesel South Staging 1									

Number of Scheduled Trains: 6

Single page output

In the above print out train numbers 110N, 115 and 200 have locomotives assigned.

Also see: Create a Schedule, Assign Cars to your Trains, Print a Switch List, Process Train, and Match Assigned.

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14.3.3 Multiple Pages

Multiple page option will print each scheduled direction on a new page. Our example below has northbound and southbound scheduled trains each on a separate page.

The schedule report will group by Direction then sort by Departure time. By default the trains that are not scheduled will not print.

Date: 12/12/2012 Time 12:08 PM

Timetable

Scheduled Only

Norfolk Portsmouth Belt Line

Northbound

Train #	Name	Priority	Routing	Type	Extra	Depart	Depart From	Arrival	Destination
100N	North Coal Drag	1	Thru	Freight	☐ Extra	0600	South End Yard 5	0900	North End Yard 1
NPBL 6130 Diesel South End Yard 5									
110N	North 2 Carolina	2	Turn	Freight	☐ Extra	0900	A&P #1 - Cooler/Refrig	1300	North End Yard 1
115	Coleman Place Turn	2	Local	Freight	☐ Extra	1300	South End Yard 2	1600	South End Yard 1
120N	North 2 Camden	2	Local	Freight	☐ Extra	1500	South End Yard 2	1800	North End Yard 1
NW 3545 Diesel									

Number of Scheduled Trains: 6

Northbound Schedule

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Date: 12/12/2012 Time 12:08 PM

Timetable

Scheduled Only

Norfolk Portsmouth Belt Line

Southbound

Train #	Name	Priority	Routing	Type	Extra	Depart	Depart From	Arrival	Destination
201S	South Coal Drag	1	Thru	Freight	☐ Extra	0630	North End Yard 5	0930	South End Yard 1
215S	South 2 Camden	2	Local	Freight	☐ Extra	1030	South End Yard 1	1330	South End Yard 1
NW 2133 Diesel North Staging 1									
NW 2132 Diesel North Staging 1									
200	Berkley Turn	2	Turn	Freight	☐ Extra	1530	North End Yard 1	1830	North End Yard 1
NPBL 184 Diesel South Staging 1									

Number of Scheduled Trains: 6

Westbound Schedule

If you have trains moving in the eastbound and/or westbound directions each will be printed a separate page.

In the above print out train numbers 110N, 115 and 200 have locomotives assigned.

Also see: Create a Schedule, Assign Cars to your Trains, Print a Switch List, Process Train, and Match Assigned.

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14.3.4 Print as Graph

Your schedule can be printed as a Gantt graph using the train number and military time as the X and Y axis. The data is uses the combined direction key and departure time key.

Below is the default view of the scheduled trains on my timetable. The sort is direction and time. The default view does NOT include any trains that are tagged as being Not Scheduled. The colors do mean something.

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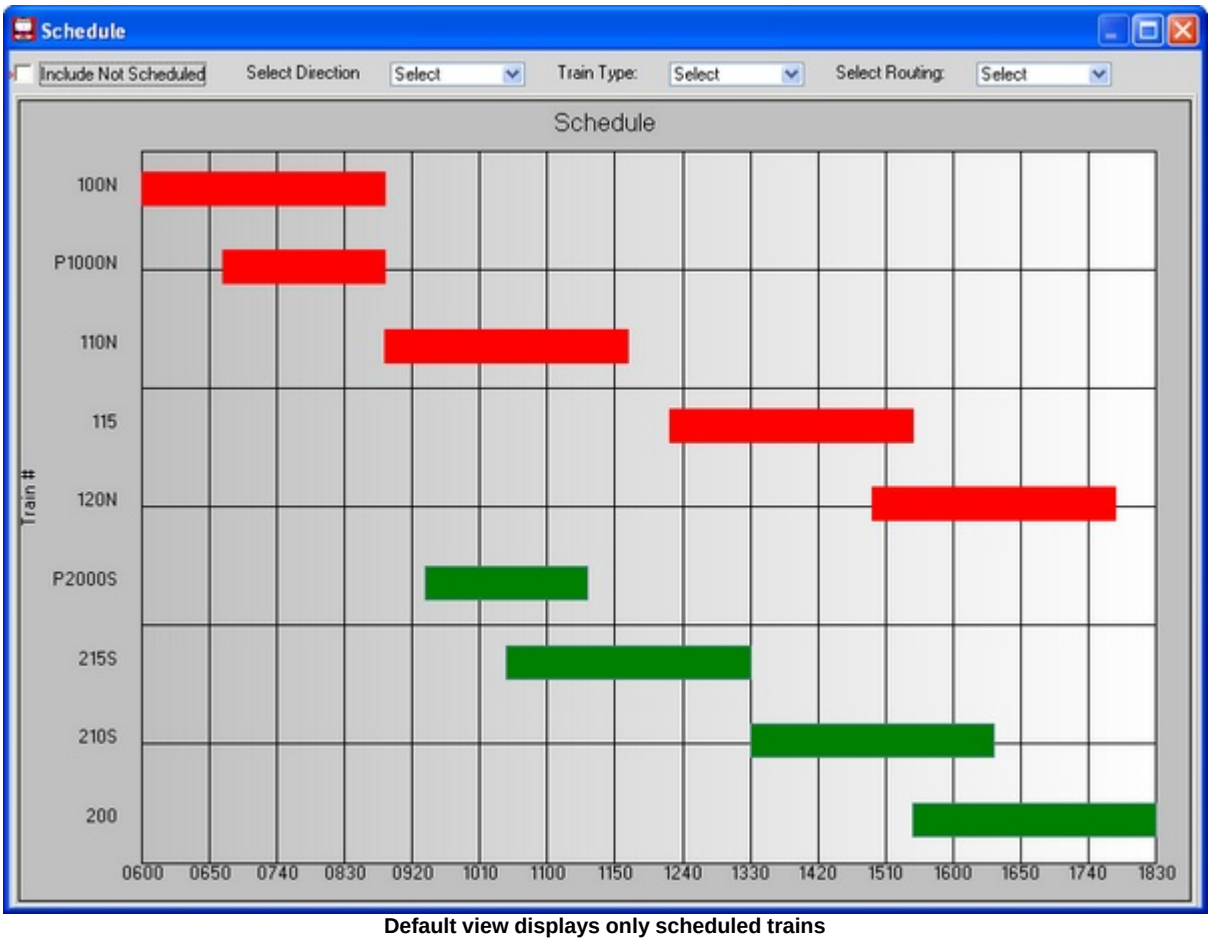

Default view displays only scheduled trains

The image below has the box "Include Not Scheduled" checked. Compare it to the one above to see the added trains. The eastbound 9000 and the westbound 7737 have been added to the above view.

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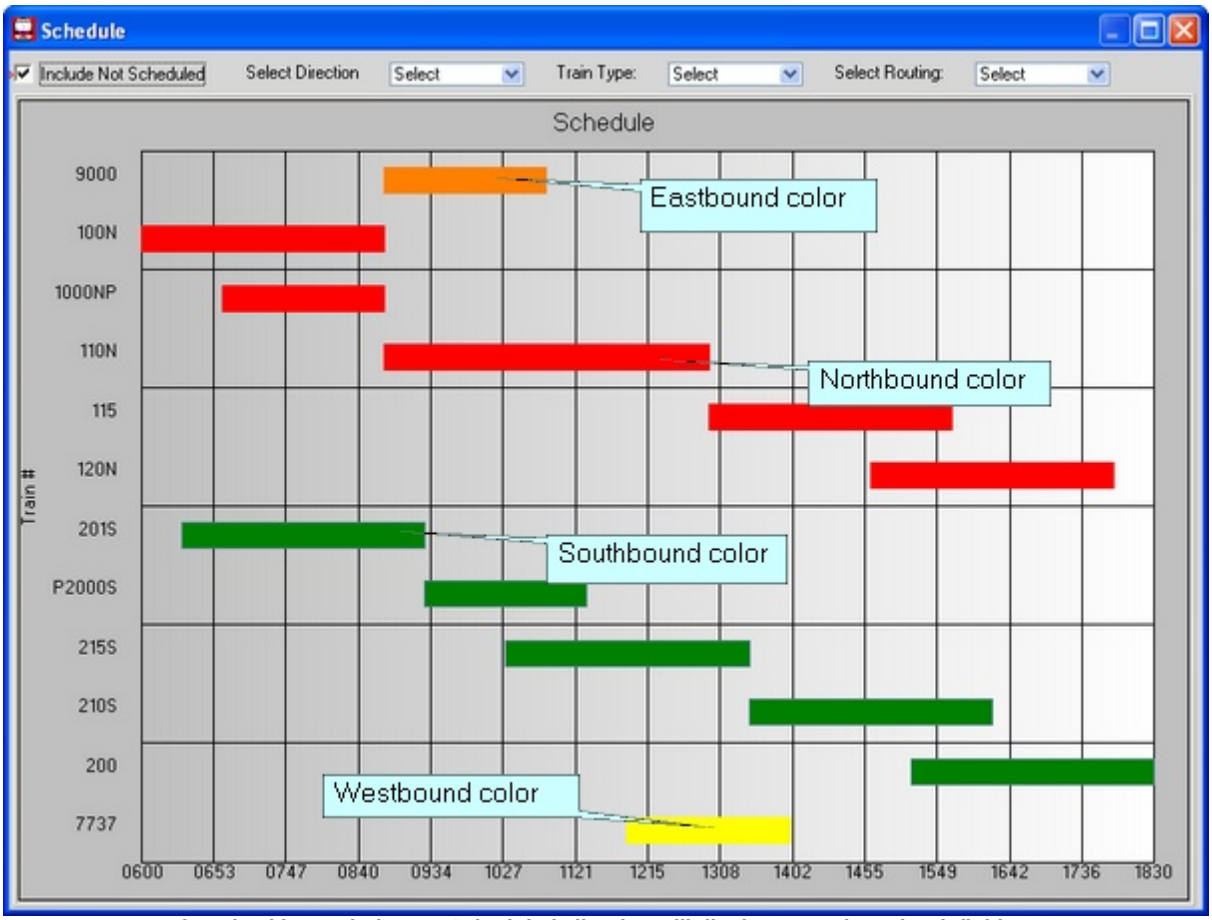

After checking Include Non-Scheduled all trains will display. Note the color definitions.

The graph data bars are color coded according the trains direction of travel. After turning off the non-scheduled trains the the Select Direction is changed.

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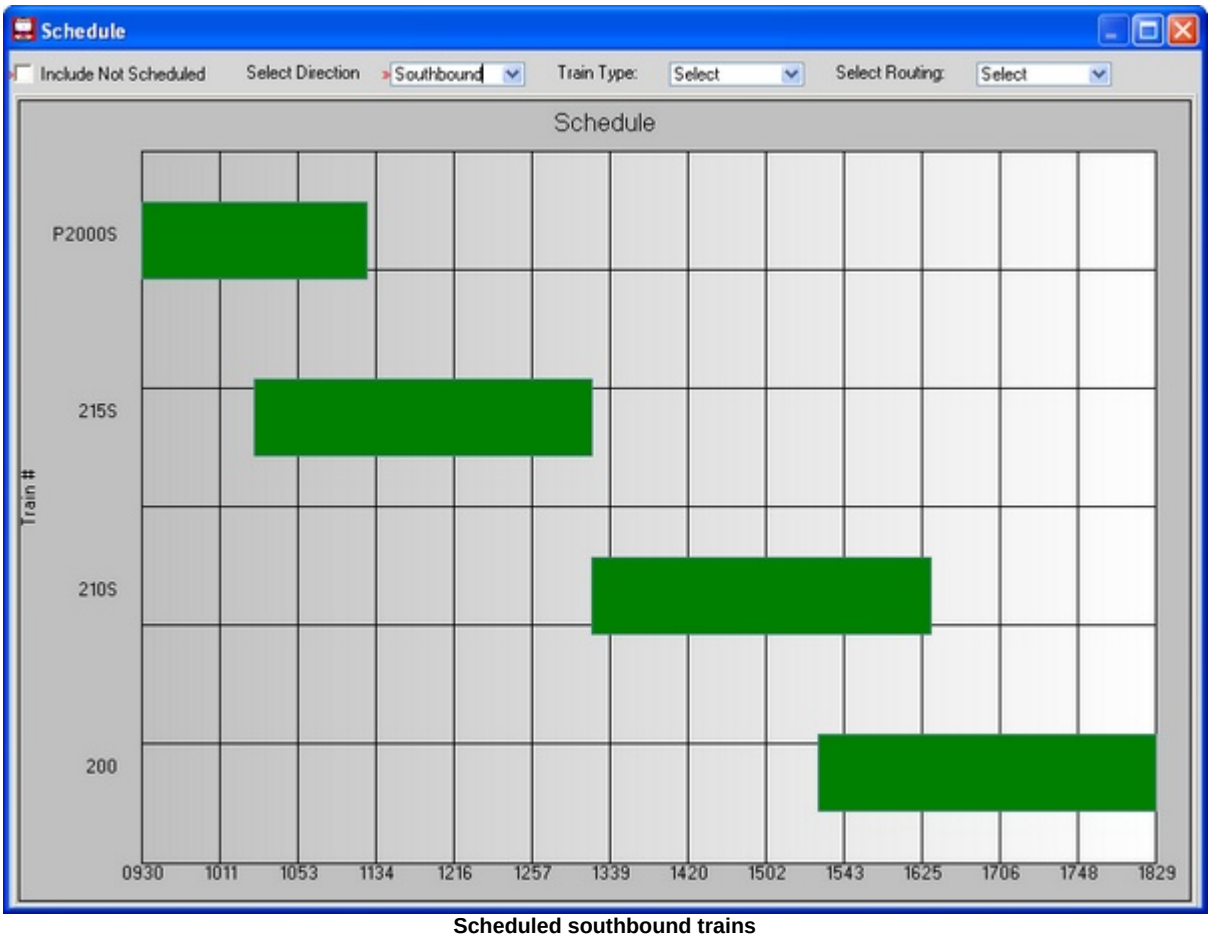

Scheduled southbound trains

Select southbound and all that will be displayed in southbound trains.

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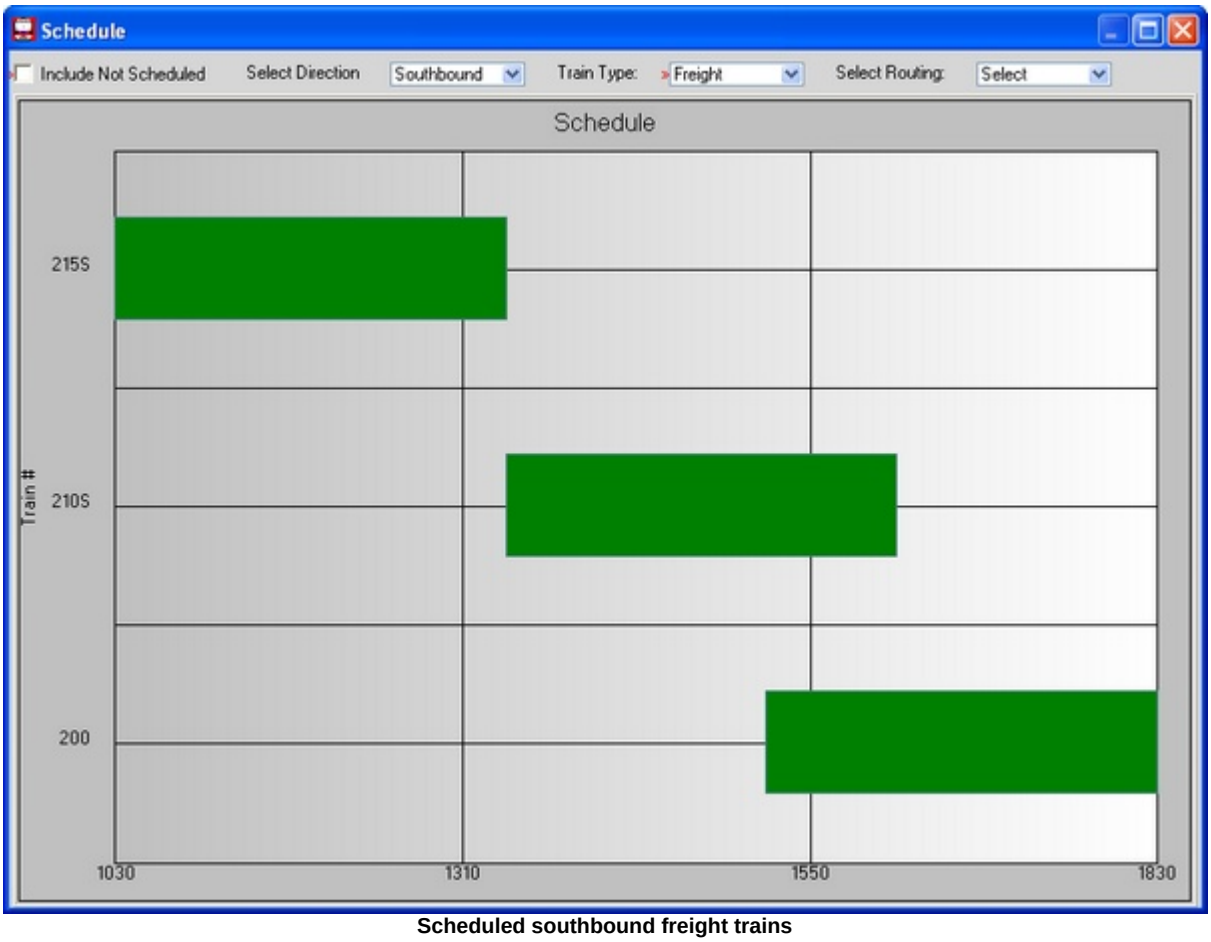

Scheduled southbound freight trains

Now the Train Type is Freight which will cause only the scheduled southbound Freight trains to display.

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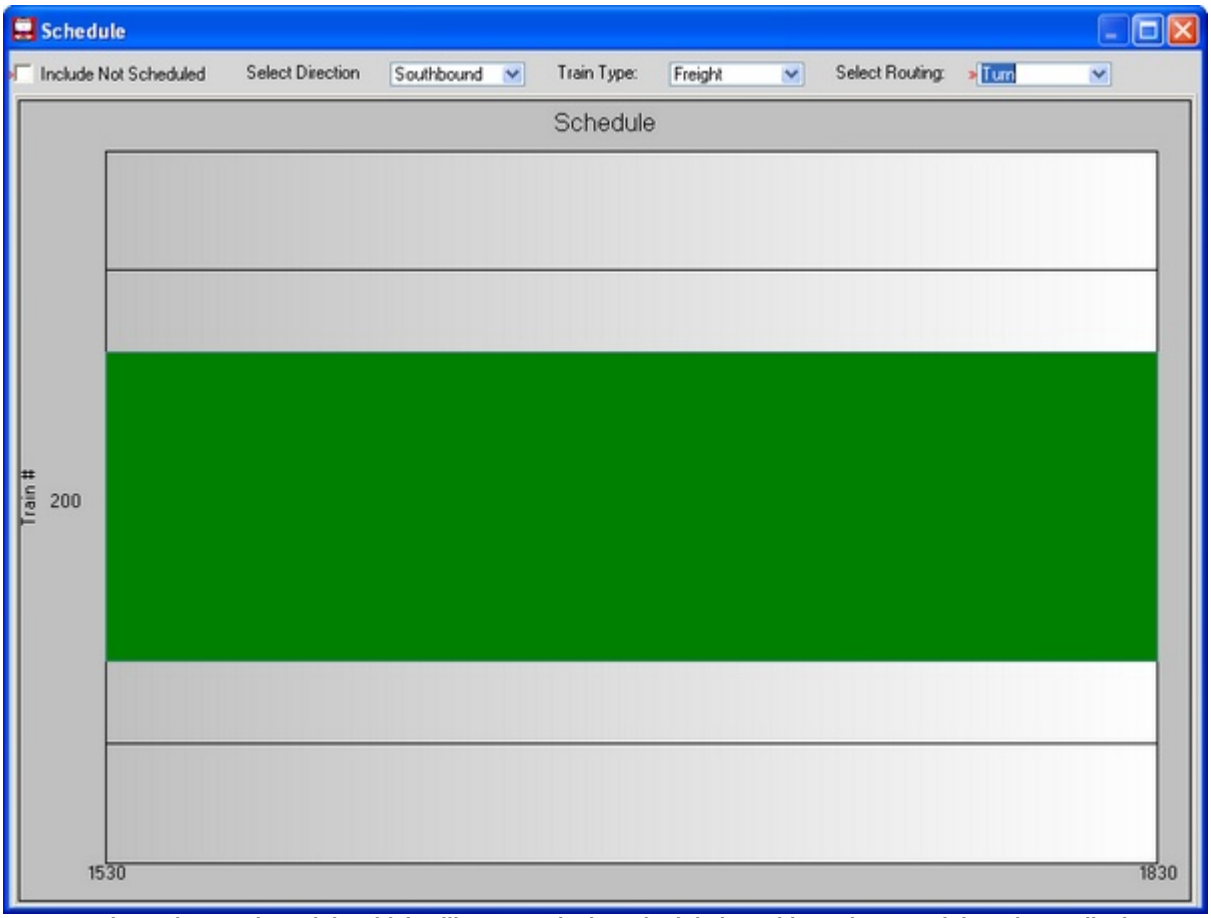

Now the Train Type is Freight which will cause only the scheduled southbound turn Freight trains to display.

There are many ways to use this graph and the information it can convey. I print my schedule using the multiple page option. This will print all of the trains for each direction on an individual page. This allows me to have one schedule in each staging area as my trains will being at one or the other.

Also see: Create a Schedule, Assign Cars to your Trains, Print a Switch List, Process Train, and Match Assigned.

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14.4 Fast Clock

Operations > Scheduling > Fast Clock

With the release of version 4.0 a Fast Clock was added to Easy Model Railroad Inventory. It is a separate program that may be launched from with in Easy Model Railroad Inventory or from the Windows program list.

It is very easy to run. There must be a start time and a clock ratio. Both of these values are saved by the program and will automatically display when Fast Clock is started. The times are displayed as HHMM using no punctuation. The ratio must be at least 1 but can be as high as 99. The normal ranges are between 2 and 12.

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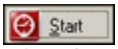
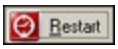
After starting time has been set

Our start time is 0600 and the ratio to be used is 12. You may salt to taste. Click the set button to initialize the clock's start time.



After the Start Time has been Set click the Start button. Fast Clock will start using the parameters you entered.

There may be a reason you would like to stop or Pause Fast Clock. Click the Pause button. The Pause button is disabled and the Restart button is displayed. At this point time stops. There are a number of reasons pausing Fast Clock might be desired. The most obvious is for the operating crew to take a break.



Click the Restart button when the break is over and everyone is back at work. Thought the real time has elapsed, the Fast Clock time will pickup from when it was paused.

If Fast Clock does not have the focus or is minimized you can still see the time in the Windows status bar. Fast Clock is a program in its own right and not dependant on Easy Model Railroad Inventory. Which makes it possible to run independent of Easy Model Railroad Inventory. That means you can start, stop, and run any program at the same time as Fast Clock.

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14.4.1 Stop Watch

Utilities > Stop Watch

This is not exactly railroad related but I had the need to know the exact time a train took so I could calculate the trains speed. The stop watch works very much like the Fast Clock with the exception of having to enter a start time. The start time is always zero.

Click Start and the time counts off the seconds. Click Pause and time stops.

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Stop Watch has been paused.

Click Restart to continue. The time format is military delimited by semicolons, HH:MM:SS.

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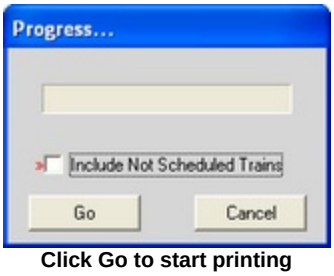
14.5 Print a Switch List

Operations > Scheduling > Print Switch List

The switch list report will print each train in stop number order. One train's switch list on one 8 1/2 X 11 sheet of paper. However the report itself is 4 1/2 inches wide.



Click Go to start printing

If you want the trains that are not scheduled click the checkbox "Include Not Scheduled Trains". If you do not the default is to print only scheduled trains switch list.

Date: 11/06/2012 **Switch List**

Train #: 115 Name: Coleman Place Turn
Traveling: Northbound Local Freight
Depart: 1300 South End Yard 2 Arrive: 1600

St	Rpt Mark	Car #	AAR	Destination	LD	PU
1	NW	3615130	XM	Supreme Foods	X	
2	MILW	2636	RBL	A&P #1 - Cooler/Refrig	X	
2	TLDX	45	RP	A&P #1 - Cooler/Refrig	X	
3	NW	44025	XM	A&P #2 - Dry Goods	X	
3	ACL	204795	XM	A&P #2 - Dry Goods	X	
4	BN	719351	RSM	South End Yard 3		X
4	BN	719357	RSM	South End Yard 3		X
4	NW	3615081	XM	South End Yard 3		X
4	IC	175364	XM	South End Yard 3		X

Total Cars: 9 **Total Pickups:** 4

Sample switch list

To help the operator the total number of cars are listed. These are all the cars to be handled by this

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train. On the right at the bottom of the switch list is the number of pickups scheduled to be made by this train.

The stop number order will help the operator, especially a new visitor, to know where pickups are to be made in relation to the scheduled set outs. If a train is only switching one area of the layout with easily identified industries the stop number may not be important and can be ignored. On the other hand it is a useful way of letting the operator know where cars are to be picked up though the cars destination is at another location.

See related topics: Timetable, Print Schedule, Assign Cars, Process Train and Match Assigned.

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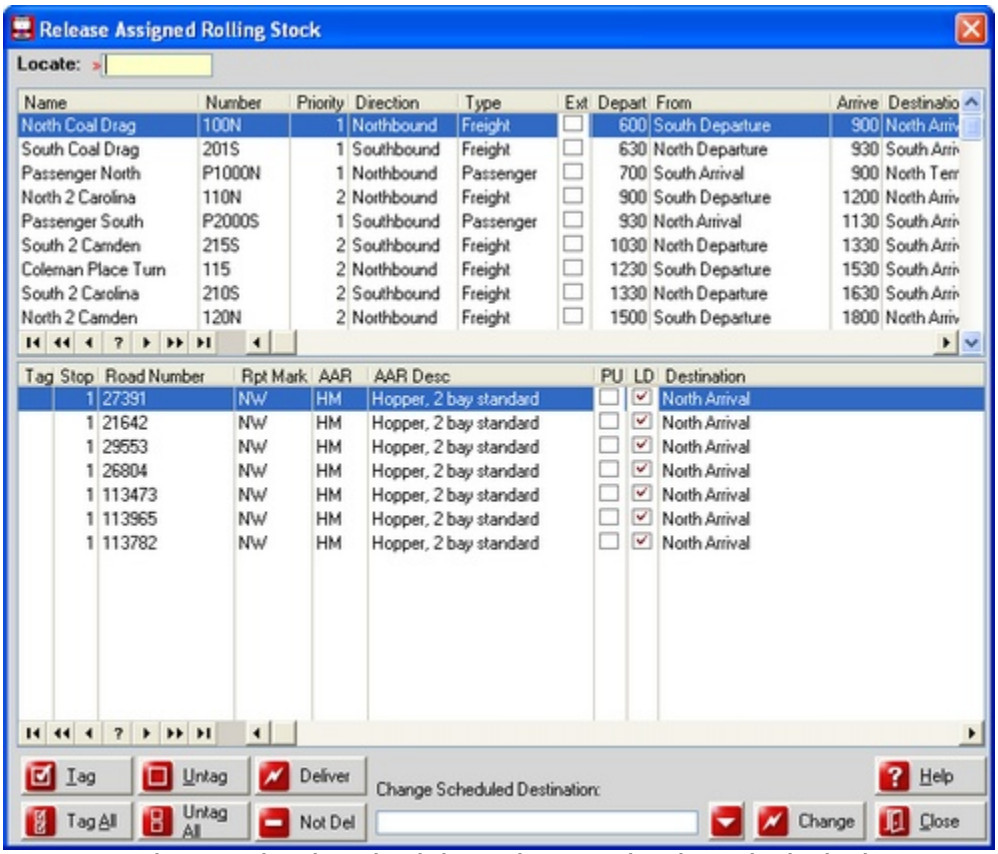
14.6 Process Train

Operations > Scheduling > Process Train > Rolling Stock

The last action needed to complete a train is to update the database to match the movement of the cars and locomotives for a train. The advantage of the way Easy Model Railroad Inventory accomplishes this is that the entire train does not have to have completed the route before the update can take place.

Select the train first. The rolling stock assigned to that train will display in the lower list box.



Tag the cars to be released and change the current location to the destination

Select the individual car you want to release by clicking on the tag column. For our example we have tagged all the cars. Now release the tagged cars you can either click the:

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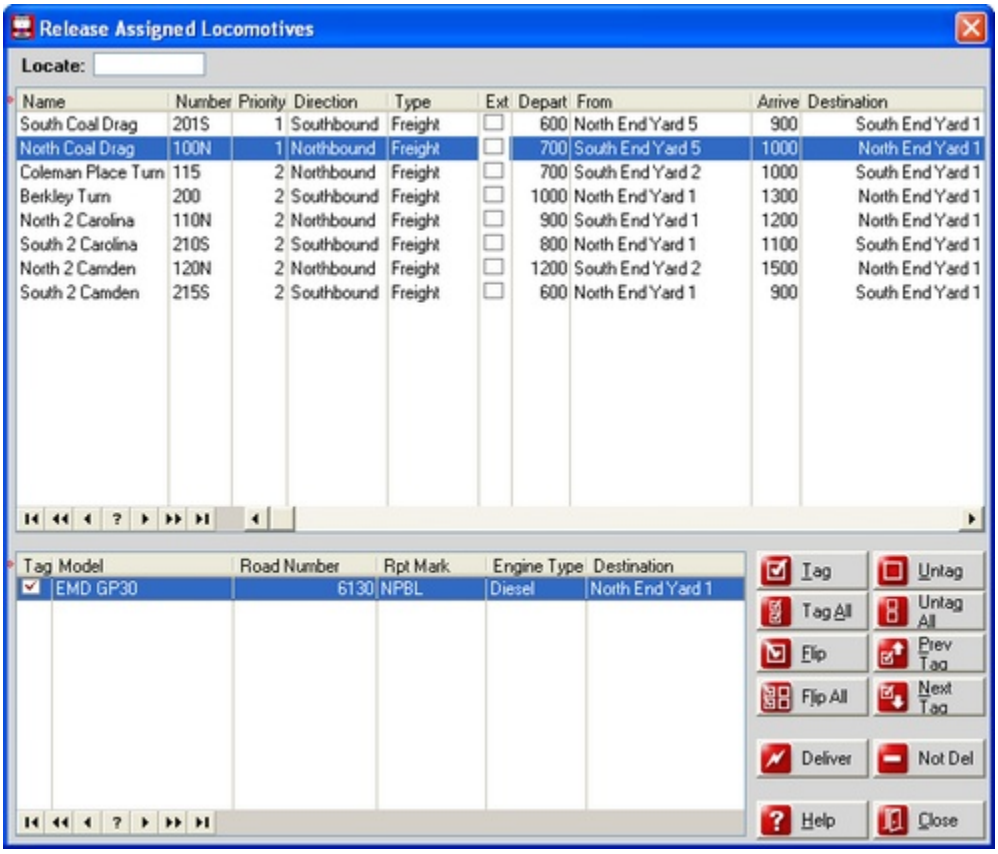
1. Deliver button which will process all the tagged records, changing the current location to the destination and releasing the car to be assigned to another train, or

2. Not Delivered button which will process all the tagged records, releasing the car to be assigned to another train, but NOT change the starting location to the destination.

New with version 6.4 is a third option. This option allows the tagged cars to be dropped at a location other then the scheduled destination. The cars must be tagged as above. Now enter an alternate location in the "Change Scheduled Destination" field and click the Change button. Instead of North Arrival the database will show tagged cars to be located at the Changed location. You will have to physically move the cars so the database and actual location are equal.

Operations > Scheduling > Process Train > Locomotives

Releasing locomotives is similar to releasing cars. First select the train. The locomotives assigned to the selected train are listed below.



Select the individual locomotive you want to release by clicking on the tag column. Our example we have tagged all the locomotives. Now you can either click the:

1. Deliver button which will process all the tagged records, changing the current location to the destination and releasing the locomotive to be assigned to another train, or

2. Not Delivered button which will process all the tagged records, releasing the locomotive to be assigned to another train, but NOT change the starting location to the destination.

See related topics: Timetable, Print Schedule, Assign Cars, Print Switch List, and Match Assigned.

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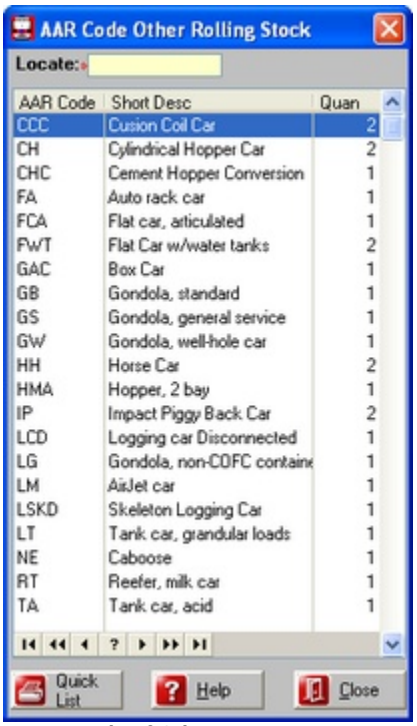
15 Graph Examples

There are a number of pie charts that my be generated using the information you have entered for your rolling stock. They are the following:

1. AAR Distribution,
2. Freight by Railroad,
3. Equipment Service,
4. Locomotive Model, and
5. Locomotive by Railroad.

The most common problem will having more points on the chart than can be comfortably viewed. There is a remedy available on the Preferences window under Freight Graph Settings, and Locomotive Graph Settings. Enter a value in the Other field. When processing the data any value that is equal or less then the value entered will be added to a new point called Other. When "Other" exists the View Other button will be displayed. Click the View Other button to see all of the records contained in the Other group.



Example of Other group contents

Right click for more options:

The default graph type is Pareto for most graphs. The type of graph may be changed by right clicking on the graph and selecting Graph Type. The options are Pareto, Bar and Line. The one for you to use will depend on the number of points to be graphed and the resolution of your screen.

A pie chart is used for Equipment Service and Locomotive Type.

Other graphing options are also available for both locomotives and non-locomotive rolling stock. All the graph options can be found on the Outlook style menu under Graph Equipment.

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The graph may also be printed to the default printer and can be saved to a file.

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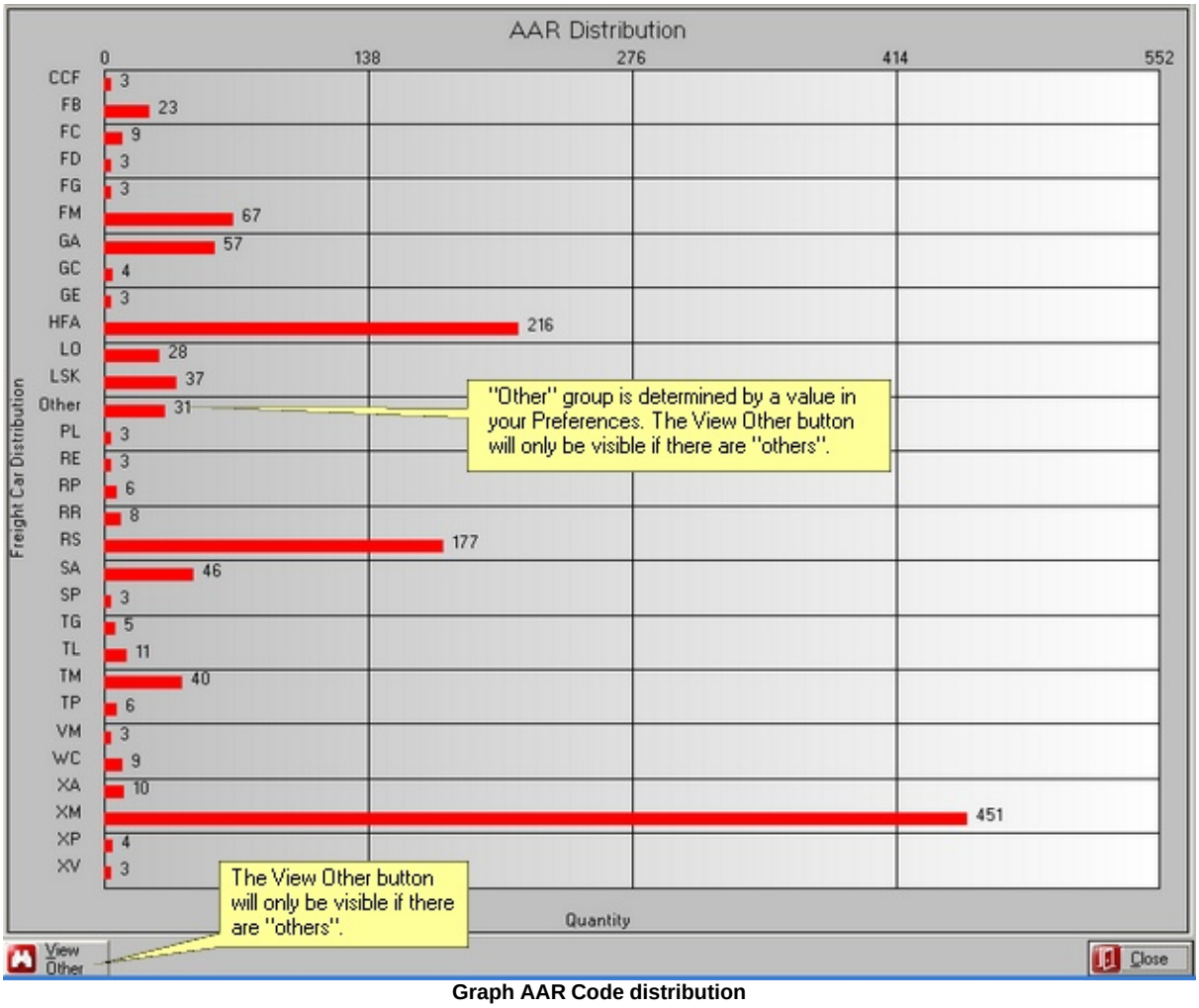
15.1 AAR Distribution

Freight > Graphs > AAR Distribution

AAR Distribution shows the different types of freight cars on your railroad by AAR designations.



Graph AAR Code distribution

Also see: Graph Examples and Preferences.

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15.2 Freight by Railroad

Freight > Graphs > Freight by Railroad

Freight by Railroad shows which railroad's freight cars are on your railroad.

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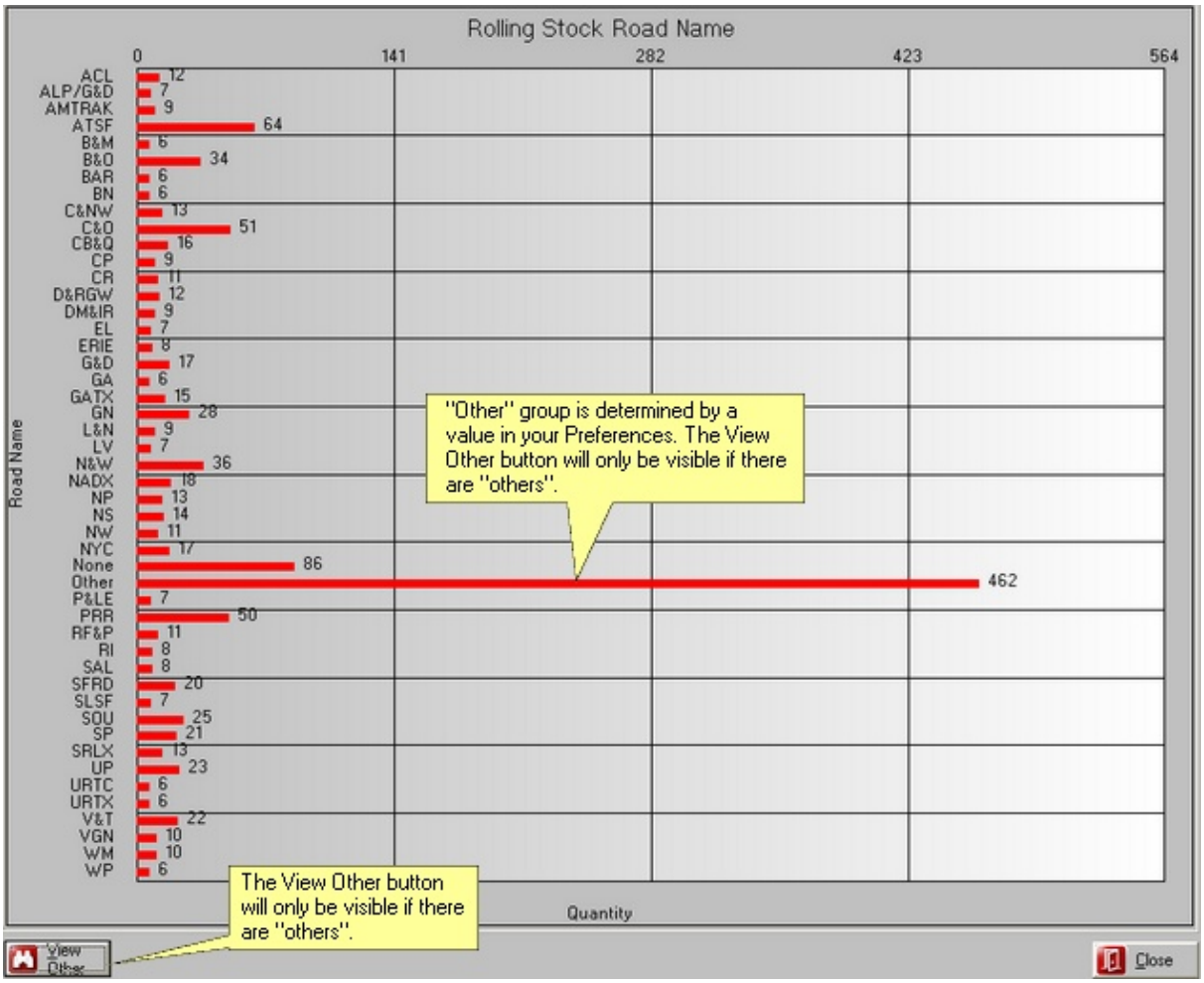

Also see: Graph Examples and Preferences.

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15.3 Equipment Service

Freight > Graphs > Equipment Service

This is a display showing the different service areas of your equipment such as Freight, MOW, Non-revenue, and Passenger.

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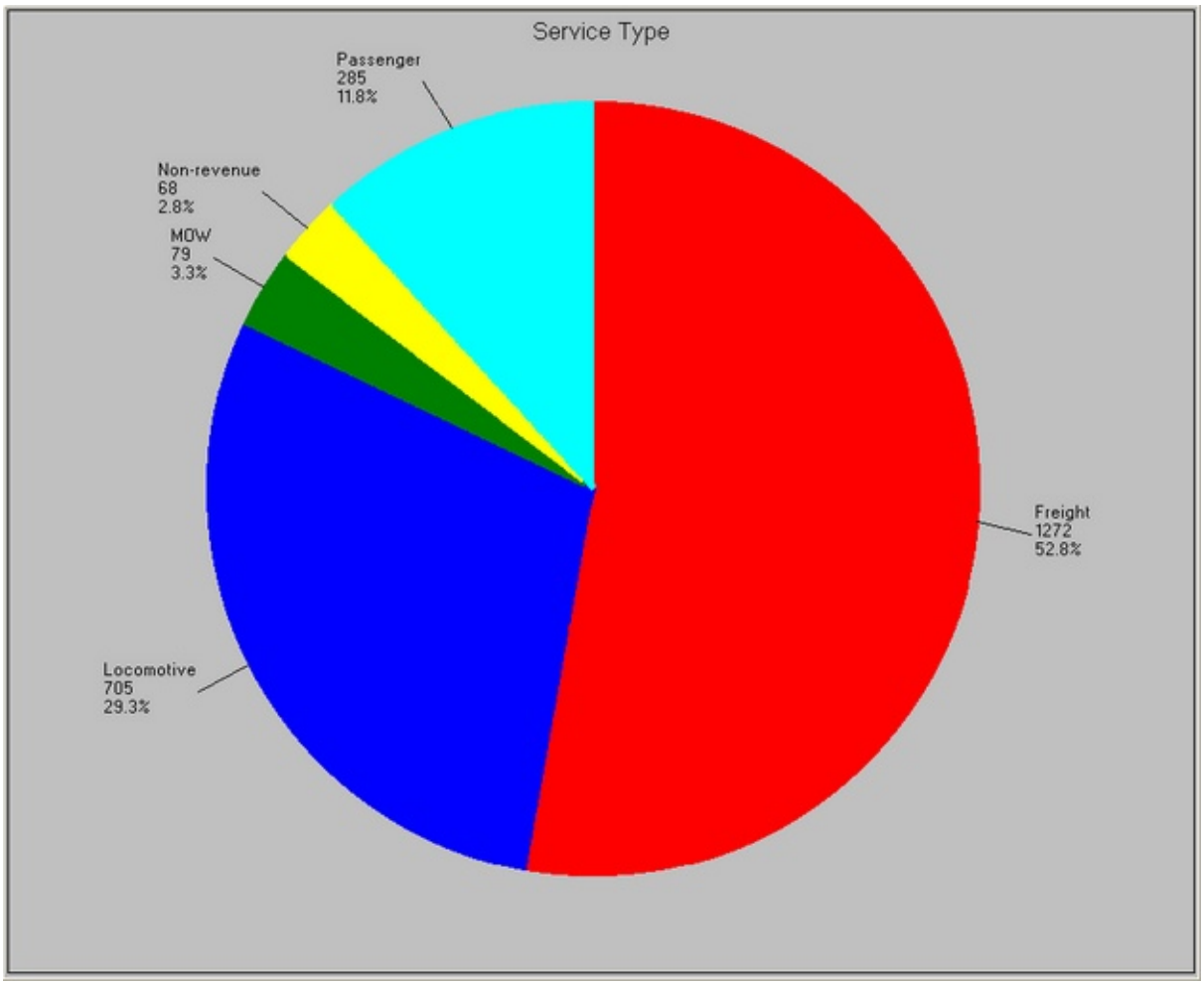

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15.4 Locomotive Model

Locomotives > Graphs > Locomotive Model

This pie chart shows the different types/models of locomotives on your railroad.

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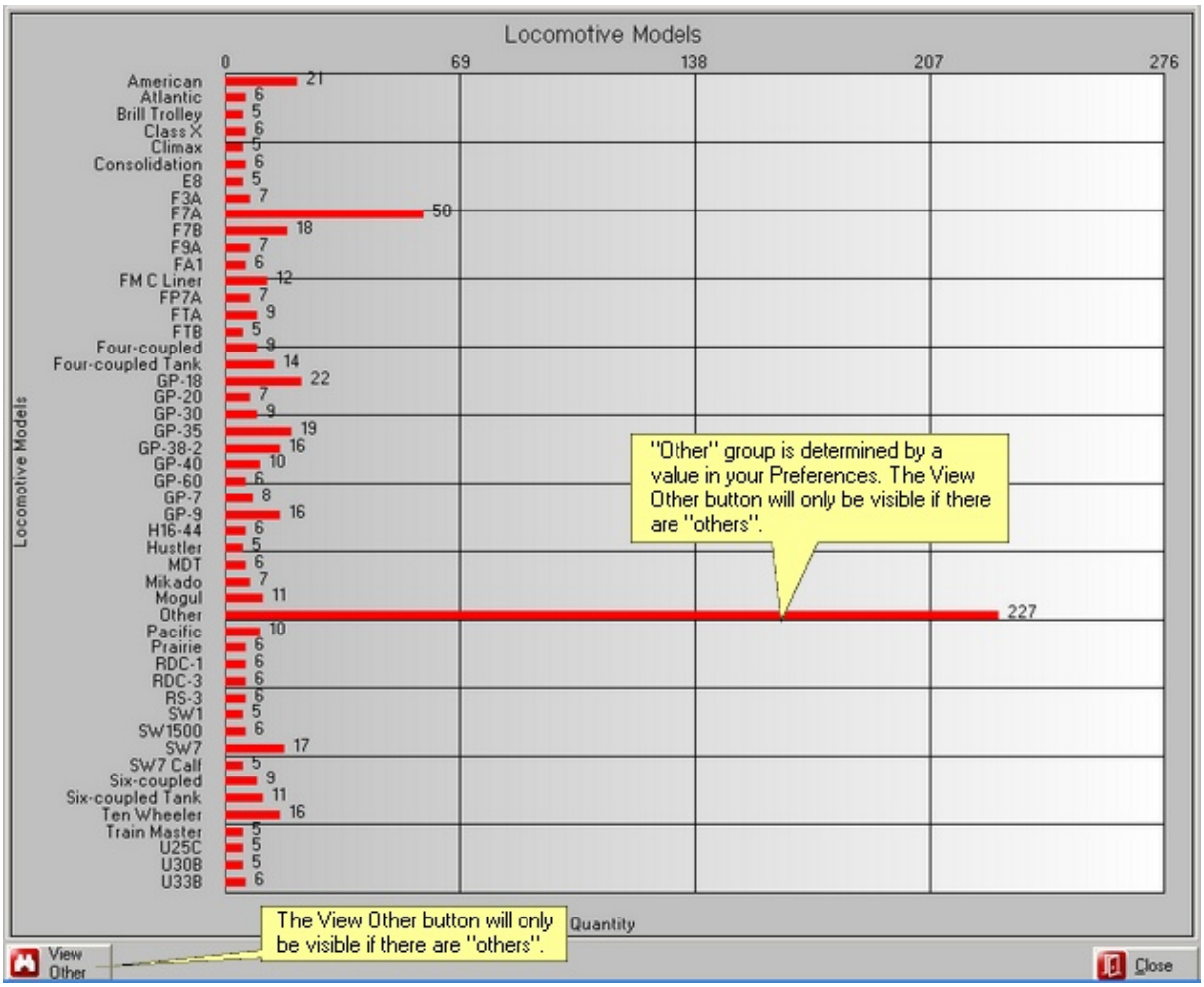

Also see: Graph Examples and Preferences.

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15.5 Locomotive by Railroad

Locomotives > Graphs > Locomotive by Railroad

View the number of locomotives by railroad name.

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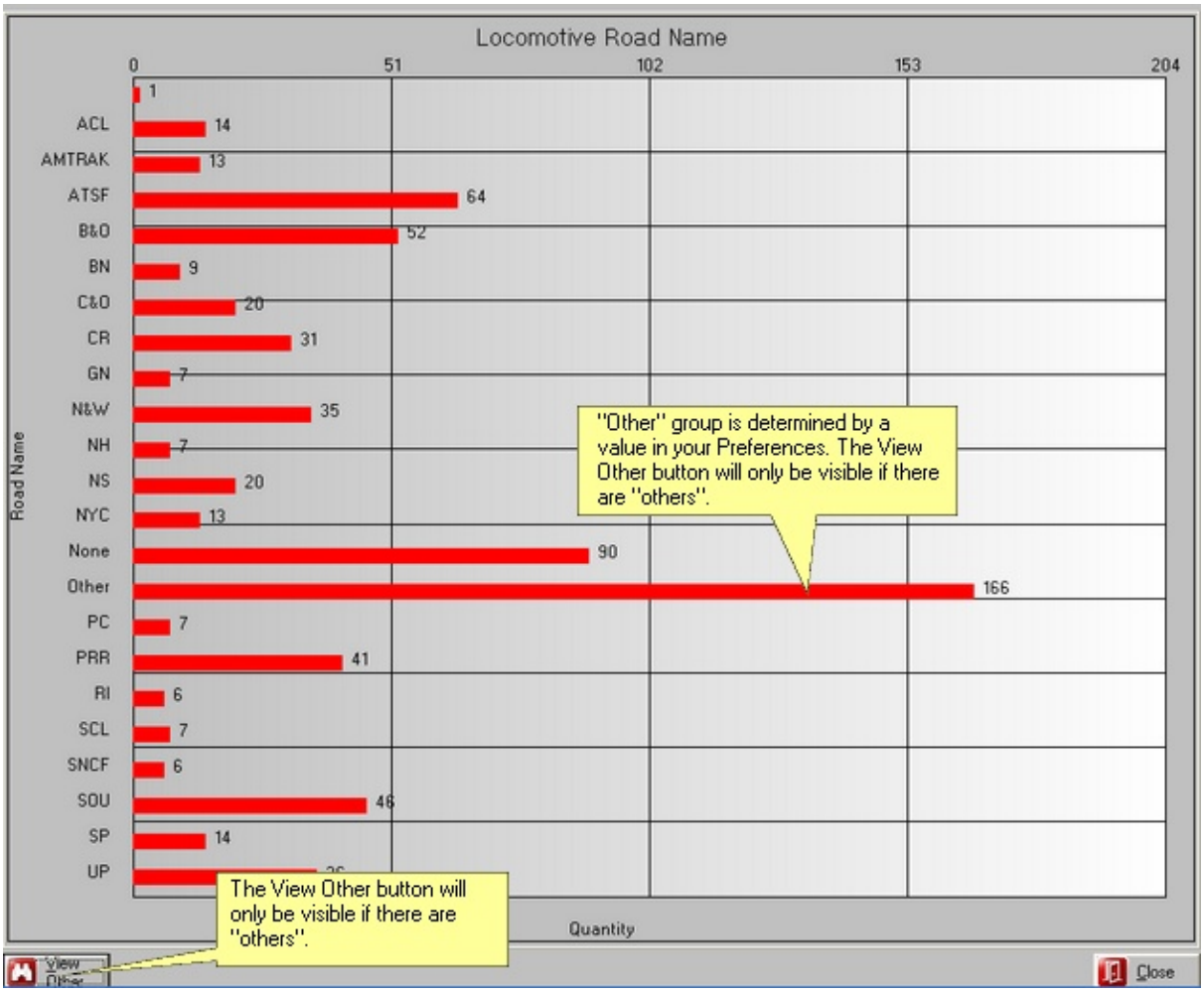

Also see: Graph Examples and Preferences.

Easy Model Railroad Inventory Home Page or Contact RCL Software

16 NMRA Insurance

File > Utilities > NMRA Insurance
Access the NMRA Insurance submission window under the Utility topic on the main menu bar at the top or from the Utility Files/Tools option located on the Outlook menu at the left of your computers screen.

NMRA Instructions for using this Inventory - Valuation Sheet for trains, accessories, catalogs, books, photos, railroad memorabilia, etc.

List only one gauge per sheet. Note: Place this information at the upper left corner of this form in the space provided.

All entries must be typed, or printed in ink. If you make a mistake, cross it off and go to next line.

Sign ONLY the last page, and note the number of pages in upper right hand corner of each page.

Updating or upgrading values: Must be done on same form, and signed. Do not mix additions/deletions

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on same sheet.

Column definitions:
Item - Give brief name of item, such as Scale Switcher, GG-1, boxcar, passenger car, station, signal. Show wheel arrangement on locomotives, number of wheels on cars. When listing sets, use the word SET followed by the components thereof.
Manufacturers name and number - Manufacturer's names & number; 400E, 746, 6464-450, 3251, etc. (Not necessary for photos - List publisher and author for books.)
Original or Refinished - OR or RF
Road Name - If item has a herald/road name, identify such as B&O, GN, SF, etc.
Current condition - M-Mint; LN-Like New; E-Excellent; G-Good; F-Fair; P-Poor
Variation - Show any variation making the item significantly more valuable. The contents of the Construction field is added to the existing Variation field, combining the two fields information.
Value - In whole dollars, show the value you set on the item. Bracket components of SETS to show Set value.

Easy Model Railroad Inventory has a parameter window for each major category you would like to insure. Each uses specific fields and different files to compile the information needed for the different types of item to be insured:

1. Freight, Passenger, MOW and Non-revenue:
   Item - AAR Type - from AAR file, Number of wheels - from AAR file.
   Manufacturer Name and number,
   Reporting Mark,
   Original or refinished,
   Current Condition,
   Variation, (contents of Variation and Construction fields) and
   Value.
2. Locomotive:
   Item - Engine Type, Model, and AAR Wheel Arrangement,
   Manufacturer Name and number,
   Reporting Mark,
   Original or refinished,
   Current Condition,
   Variation, (contents of Variation and Construction fields) and
   Value.
3. Library,
   Item - Resource type and title,
   Publisher's and ISBN,
   Reporting Mark - not used,
   Original or refinished,
   Current Condition,
   Variation - normally blank, and
   Value.
4. Structures,
   Item - Name or title,
   Manufacturer Name and number,
   Reporting Mark - not used,
   Original or refinished,
   Current Condition,
   Variation - normally blank, and
   Value.
5. Electronics,
   Item - Product description,
   Manufacturer Name and number,
   Reporting Mark - not used,
   Original or refinished,
   Current Condition,

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Variation - normally blank, and
Value - cost.

After opening the window the required parameters must be entered to have the finished report output correct before submitting to the NMRA and the insurance company.

Select Insurance Parameter Window

Enter the gauge: If you want to insure more than one gauge of equipment each gauge must printed separately on its own individual report.

Select Type to Report: When the window opens all of the six types are checked to be printed. You can remove the check to not include that type on the insurance report.

Select the Submission type: The first time you submit your Valuation Sheet select Original Inventory. If you have submitted a hand written Valuation Sheet DO NOT select Original Inventory. The Original Inventory option will only be selected once, the first time you submit it to the insurance company.

Addition Year: Enter the year for your second submission and beyond. This will only submit the items collected for the year entered.

Annually submit both the Addition and the Deletion forms.

Your first submission: enter the gauge, and select Original Inventory. Press the Print button to start the process. The report will preview allowing you the option to examine the output.

The next submissions can include both new items, click the Addition option to add items that have not been submitted in the Original Inventory. When Addition is selected the process will check for all items that have been added during the year you are required to enter.

For deleted items select Deletion and enter the year. When this has been printed you will have to manually delete each record from the appropriate file.

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17 Electronics

With the advent of DCC, digital command control, the model railroad hobbyist can have a large investment in such equipment. This is where you would inventory that equipment.

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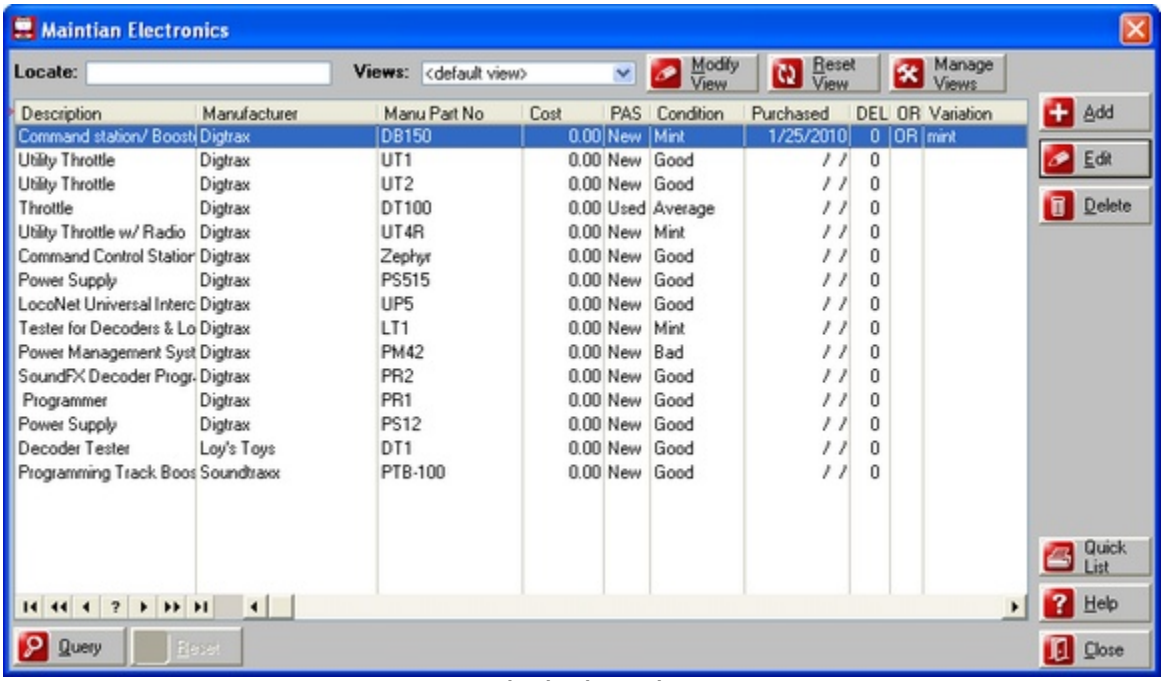
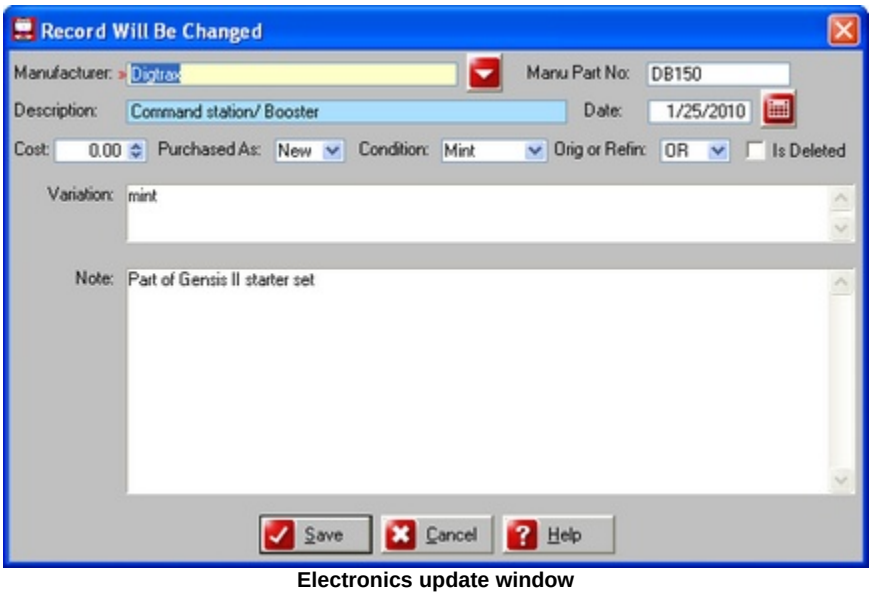
Variable Name	Column Abbr.	Required	Query	Insurance	Operation
Description		Yes	Yes	Yes	
Manufacturer		Yes	Yes	Yes	
Manufacturer Part Number			Yes	Yes	
Purchase Date			Yes		
Cost			Yes	Yes	
Purchased As			Yes		
Condition			Yes	Yes	
Original/Refinished	OR		Yes	Yes	
Is Deleted	DEL		Yes	Yes	
Variation				Yes	
Note					

Listed above are the fields and how Easy Model Railroad Inventory uses each. It is important that you refer to this list when, and if, you would like to use any of the specialty functions. For example, the NMRA insurance function, there are fields that need to have information but can be ignored if you are not going to insure your railroad empire.



Maintain Electronics



Electronics update window

Another new feature found in version 4.2 of Easy Model Railroad Inventory is the Print Screen button. Clicking this button will duplicate the windows contents, text and image, allowing you to print to the default printer.

Also see: View Designer.

Easy Model Railroad Inventory Home Page or Contact RCL Software

18 Structures

This area is titled Structure but includes other items as well. Actually, this file is for any item that does not belong in the other files. Therefore, the item may be a structures, kit built, kit-bashed, or scratch built. Enter vehicles, signals, bridges, containers, trailers, etc.

Variable Name	Column Abbr.	Required	Query	Insurance	Operation
Title		Yes			
Manufacturer			Yes	Yes	
Manufacturer Part Number			Yes	Yes	
Scale			Yes	Yes	
Purchase Date			Yes		
Cost			Yes		
Value			Yes	Yes	
Out of Production	OOP		Yes		
Is Deleted	DEL		Yes	Yes	
Condition			Yes	Yes	
Original/Refinished	OR		Yes	Yes	
Variation				Yes	

Listed above are the fields and how Easy Model Railroad Inventory uses each. It is important that you refer to this list when, and if, you would like to use any of the specialty functions. For example, the NMRA insurance function, there are fields that need to have information but can be ignored if you are not going to insure your railroad empire.

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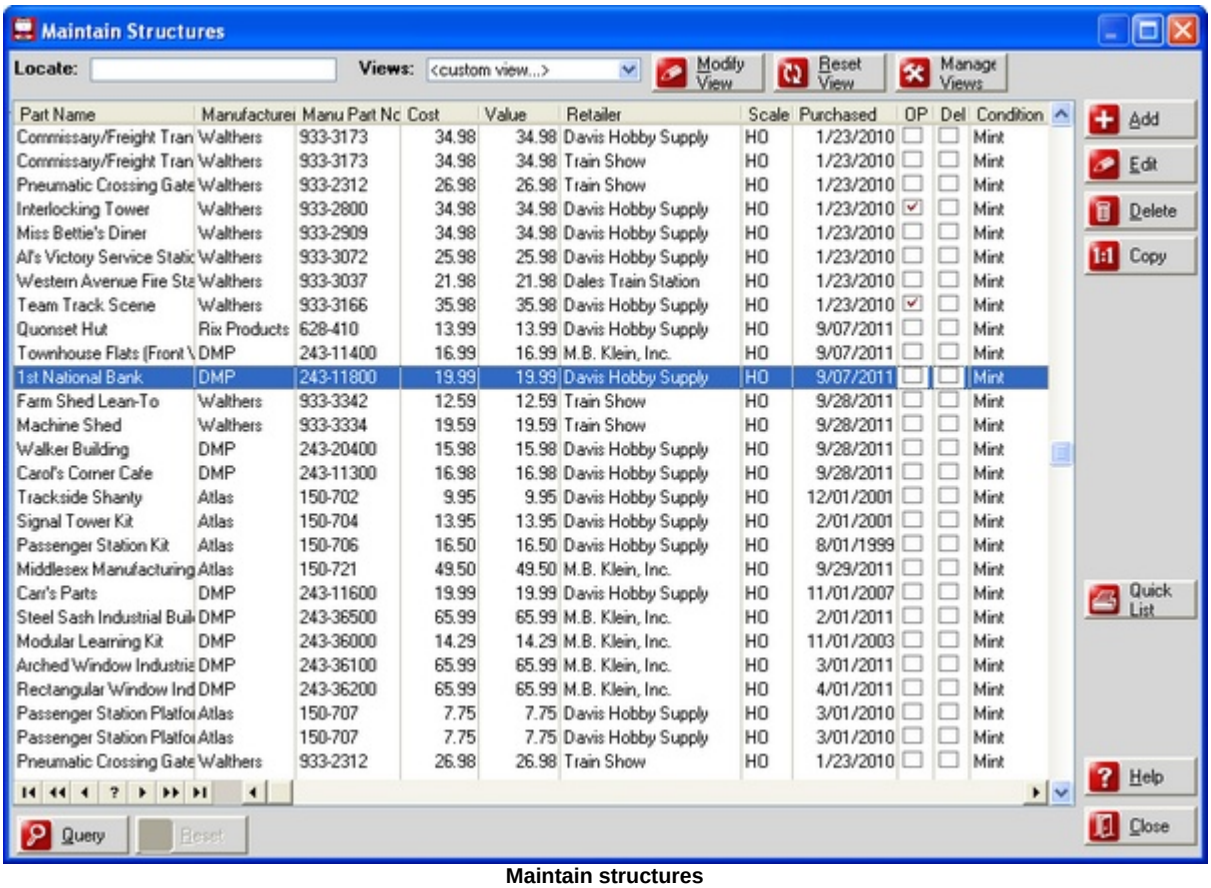

Maintain structures

The only required field is the title of the item. In version 6 three additional optional pictures were added giving the user a total of four. Rotate from one to the next or back using the VCR buttons below the image. What I do is add the manufacture's marketing picture from either their web site or from Walthers. The remaining photo slots I use for the pictures of my finished structure.

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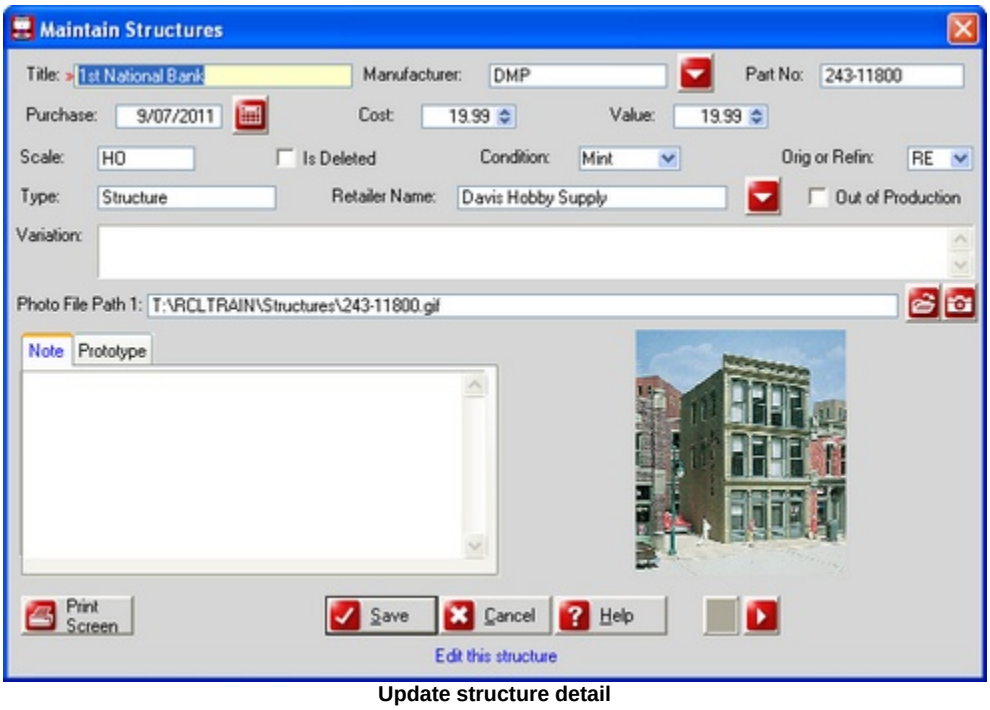

Update structure detail

Another new feature found in version 4.2 of Easy Model Railroad Inventory is the Print Screen button. Clicking this button will duplicate the windows contents, text and image, allowing you to print to the default printer.

Also see: View Designer.

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19 Tools and Miscellaneous

This is where you document your investment in tools and other equipment that does not fit in the programs major areas.

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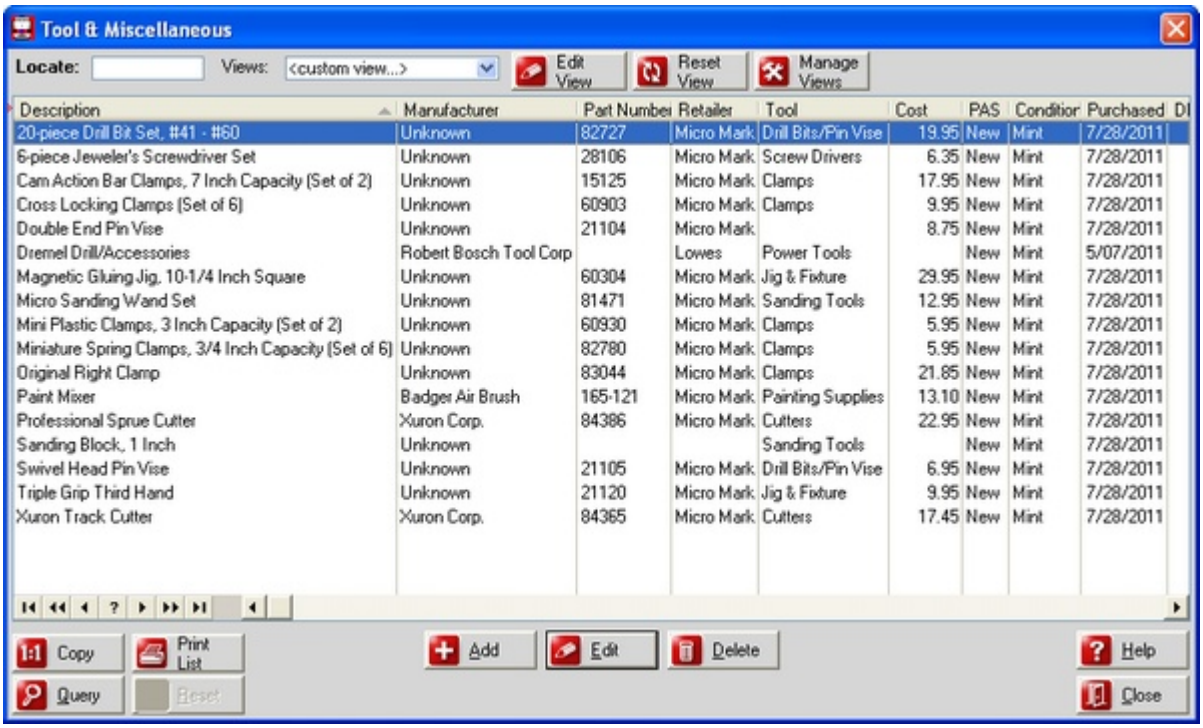
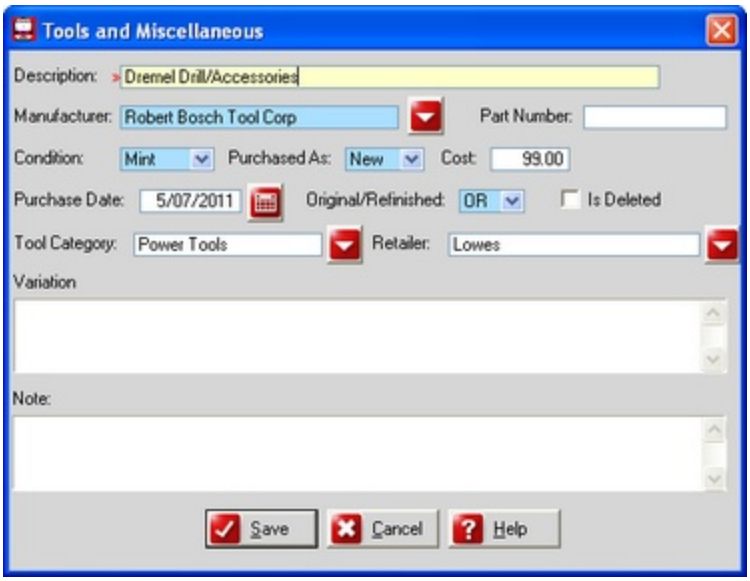


For example: spray booth, power drills, jigs to build switches and hand tools. If you paid for them you will want to protect your investment by insuring them. Even if you did not pay for the item. Add it and estimate the replacement value.



This window functions like all the others. It contains the basic information needed to add, edit, print for inventory or insurance purposes. There are five required fields:
1. Description,
2. Manufacturer,
3. Condition, default Mint, (CON)
4. Purchased As, default New, (PAS)
5. Original/Refinished, default OR.

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Numbers 3, 4 and 5 have programmatic default values.

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20 Calculation Functions

To help you with your railroad three calculation functions where added to the program, these are a length calculator, a speed calculator, and a weight calculator. All three can be used for any of the NMRA scales.

The three calculation Wizards are:
1. Length Wizard,
2. Speed Wizard, and
3. Weight Wizard.

The NMRA scales are: Z = 220, N = 160, TT = 120, HO = 87.1, OO = 76.2, S = 64, O = 43.5, #1 = 32, 1/2 = 24, G = 22.5. The narrow scales HOn3, HOn30, On30, etc. are not included.

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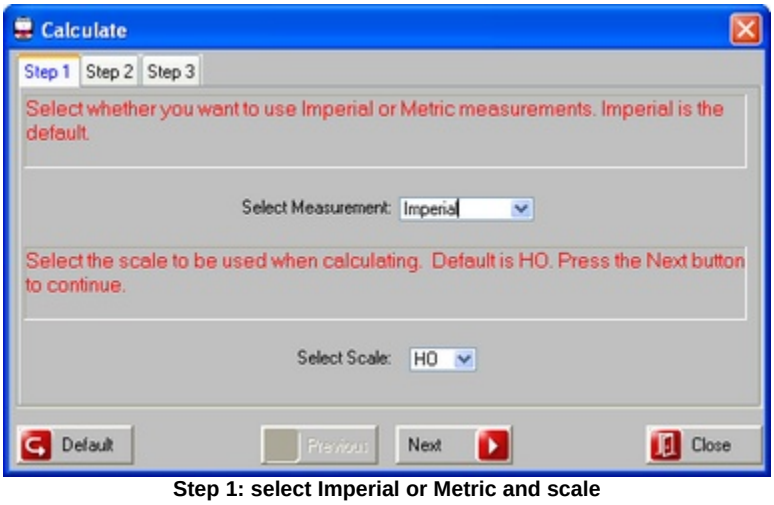
20.1 Length Wizard

The first calculator is the Length Wizard. You select in Step 1 either imperial (inches) or Metric as the desired measurement and then you select your scale. See the figure below.



Step 1: select Imperial or Metric and scale

Now in Step 2 you select the desired calculation. See the figure below.

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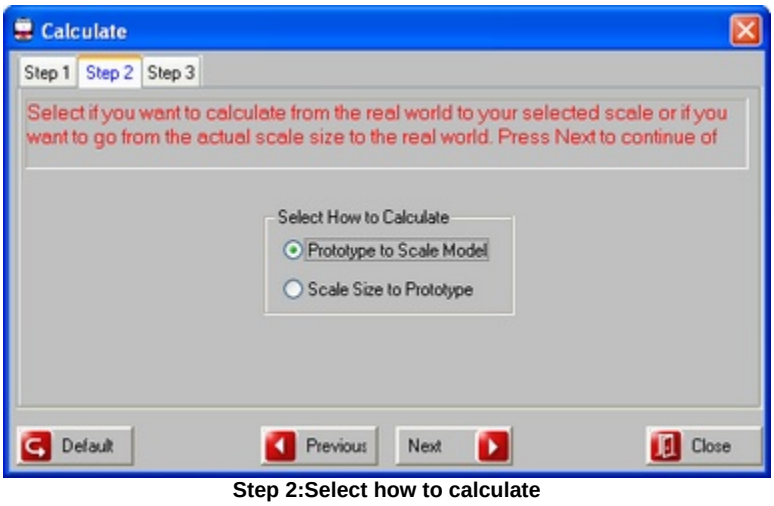
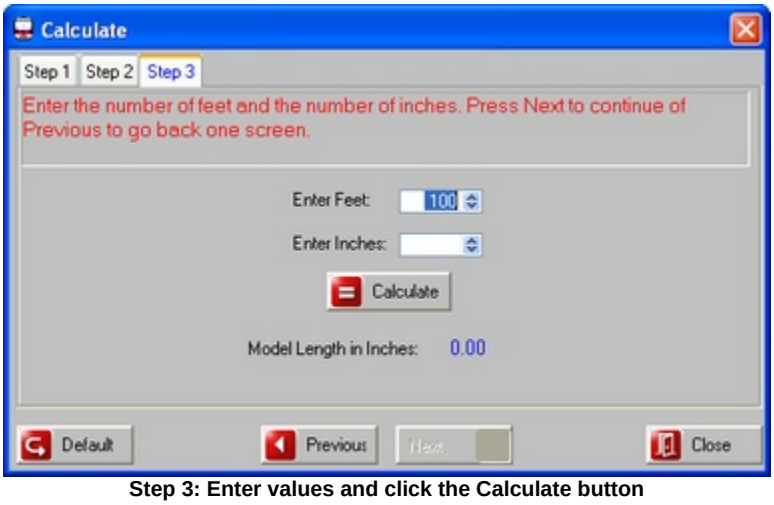


Step 2:Select how to calculate

Finally, in Step 3, you enter the feet and inches and press calculate. The results are displayed as Model length in inches. See the next two figures.



Step 3: Enter values and click the Calculate button

When the Calculate button is clicked Easy Model Railroad Inventory will use the data you entered to calculate the results. The result is displayed below the Calculate button with text to remind the user of the criteria entered. Our example used HO scale, Prototype to Scale in Imperial.

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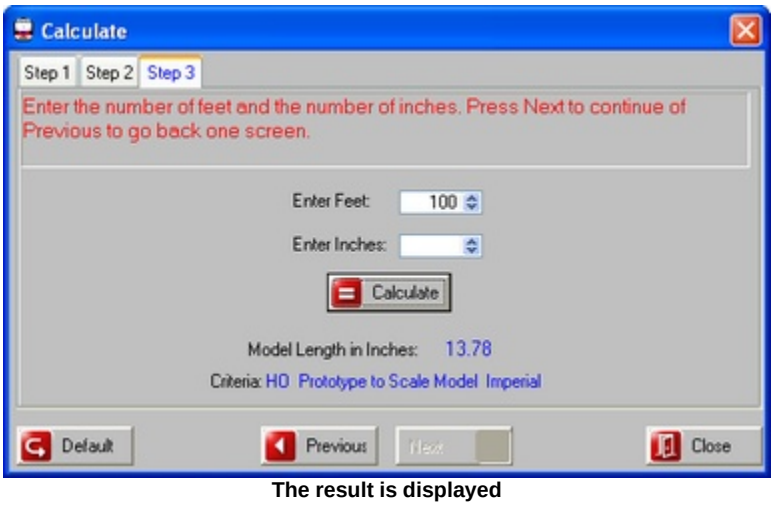


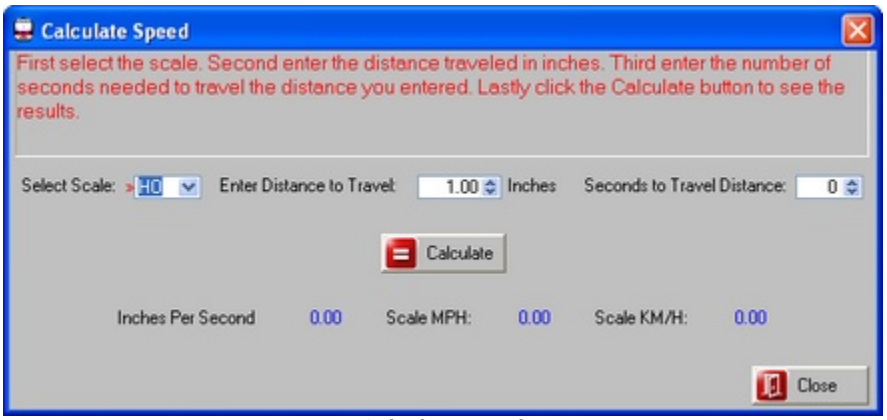
The result is displayed

[Easy Model Railroad Inventory Home Page](#) or [Contact RCL Software](#)

20.2 Speed Wizard

The second calculator helps you determine the speed of your trains.

First, you select the scale. After that, you enter the distance to travel and finally you enter the time in seconds required to cover that distance.



Calculate speed

Pressing the calculate button will display the speed in Inches per second, MPH, and KM/H. See the figure above.

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20.3 Weight Wizard

The third calculator helps you determine what you rolling stock should weight according to the NMRA standards. You start by selecting your scale, enter the car length in inches and press the calculate button. The results will be displayed in ounces. See the figure below.

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Calculate NMRA recommend weight

A side comment should be made here that it is highly recommended that you do weight your cars to the NMRA standards. They will stay on the track better. Another improvement for operations is to replace the plastic wheels with metal wheels making sure they turn freely. This will help your operations to go smoothly.

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21 Library Maintenance

Library > Maintain

One of the best selling products available from RCL Software, Inc. is our library program for cataloging and circulation. I wanted an easy way to catalog and find my own train books. Using one of these programs as a starting point, we developed a library-cataloging module for Easy Model Railroad Inventory. We wanted to include the basic information needed to catalog and organize a library. Knowing model railroaders are not librarians we wanted to make it easy to use but functional.

Variable Name	Column Abbr.	Required	Query	Insurance	Operation
Title		Yes		Yes	
Sub-title			Yes		
Resource Name		Yes	Yes	Yes	
Author Full Name		Yes	Yes		
Author Code		Yes	Yes		
Additional Authors					
Publisher		Yes	Yes	Yes	
Copyright		Yes	Yes		
Value			Yes	Yes	
Dewey decimal number		Yes			
ISBN				Yes	
LOC (Library of Congress Number)					
Series					
Location		Yes	Yes		
Condition		Yes	Yes	Yes	
Original/Refinished		Yes	Yes	Yes	
Print Spine					
Is Deleted			Yes	Yes	
Purchase Date			Yes	Yes	

Listed above are the fields and how Easy Model Railroad Inventory uses each. It is important that you refer to this list when, and if, you would like to use any of the specialty functions. For example, the NMRA insurance function, there are fields that need to have information but can be ignored if you are not going to insure your railroad empire.

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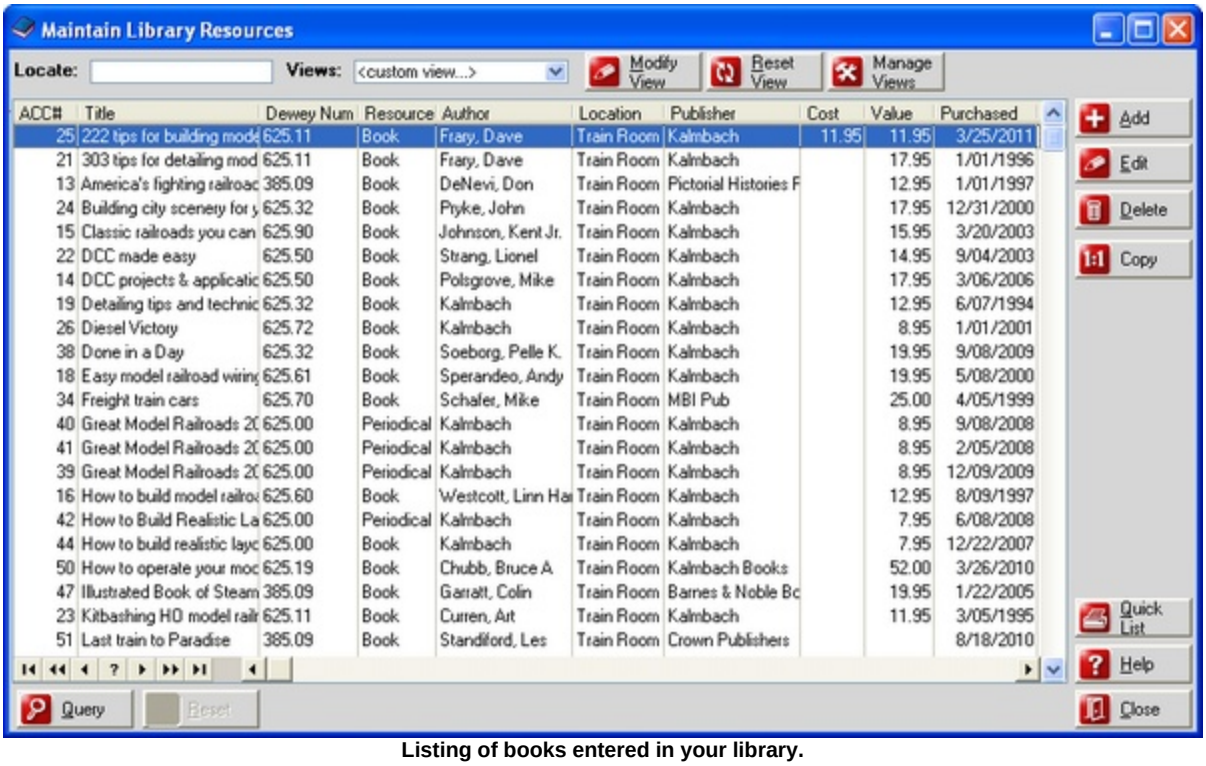
One of the most important goals was to make entering a resource easy. We included our MARC function. We enabled this function, which allows the user to enter the books ISBN number and access the Library of Congress Voyager database. When found the books primary information will be downloaded and entered into your database. See the MARC Function for more details.

Easy Model Railroad Inventory Home Page or Contact RCL Software

21.1 Resources

Library > Maintain

The library section of Easy Model Railroad Inventory will help you document all of your books and DVD/CD for insurance purposes, give you a numbering system, which will allow you to find subjects and titles quickly.



Listing of books entered in your library.

The default view is an alphabetical listing by title for all the resources, books, DVD, and more, you have entered into your library. Click the Add button to enter a new resource. Enter information using the window below.

Once the MARC function has been turned on in the Preferences window clicking the Add button on the Maintain Library Resources window will open the MARC window.

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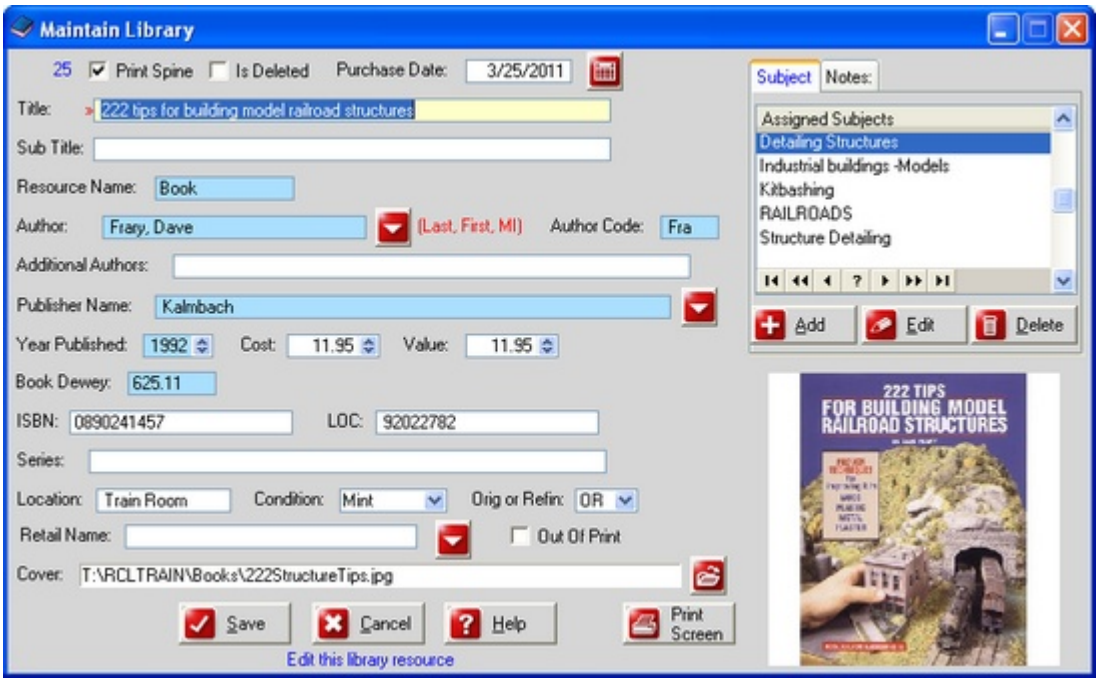

If you have the MARC function enabled you will see the window to allow you access to the Library of Congress Voyager database.

Another new feature found in version 4.2 of Easy Model Railroad Inventory is the Print Screen button. Clicking this button will duplicate the windows contents, text and image, allowing you to print to the default printer.

Also see: View Designer.

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21.1.1 MARC Function

The MARC function must be turned on before it can be used. There must be an open Internet connection, which will allow the program to access the Library of Congress. A books ISBN number will be located on the title page. The title page will be one of the first few pages of the book, normally before the Table of Contents.

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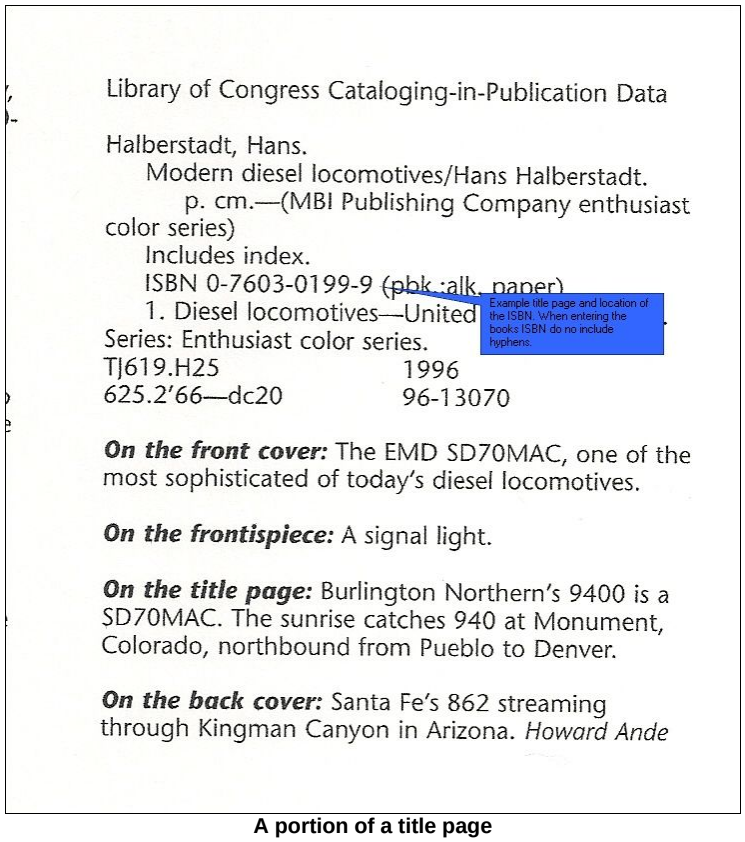


Library of Congress Cataloging-in-Publication Data

Halberstadt, Hans.
Modern diesel locomotives/Hans Halberstadt.
p. cm.—(MBI Publishing Company enthusiast color series)
Includes index.
ISBN 0-7603-0199-9 (pbk.:alk. paper)
1. Diesel locomotives—United
Series: Enthusiast color series.
TJ619.H25 1996
625.2'66—dc20 96-13070

Example title page and location of the ISBN. When entering the books ISBN do no include hyphens.

On the front cover: The EMD SD70MAC, one of the most sophisticated of today's diesel locomotives.

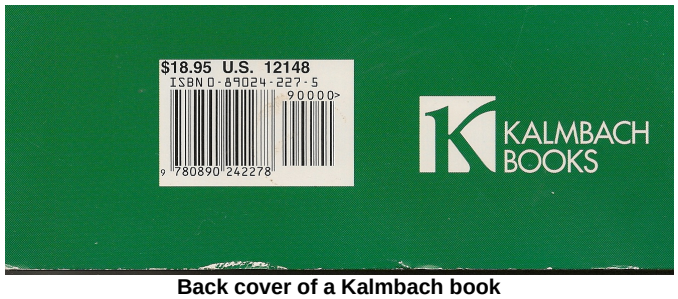
On the frontispiece: A signal light.

On the title page: Burlington Northern's 9400 is a SD70MAC. The sunrise catches 940 at Monument, Colorado, northbound from Pueblo to Denver.

On the back cover: Santa Fe's 862 streaming through Kingman Canyon in Arizona. *Howard Ande*

A portion of a title page

Many of Kalmbach's books have the ISBN on the title page and on the back cover.



Back cover of a Kalmbach book

Remember not all books have an ISBN. There are a number of possible results.

1. The search is successful,
2. The search fails.

If the search is unsuccessful, check the ISBN for errors. If it is unsuccessful, you will have to enter the books information manually.

I have found the Library of Congress does not catalog the book "Great Model Railroads." In addition, the more recently published books are not cataloged. An example is "Done in a Day" by Pelle K. Soeborg and published by Kalmbach. I was able to enter 31 books in less than 45 minutes even with my limited key punching skills.

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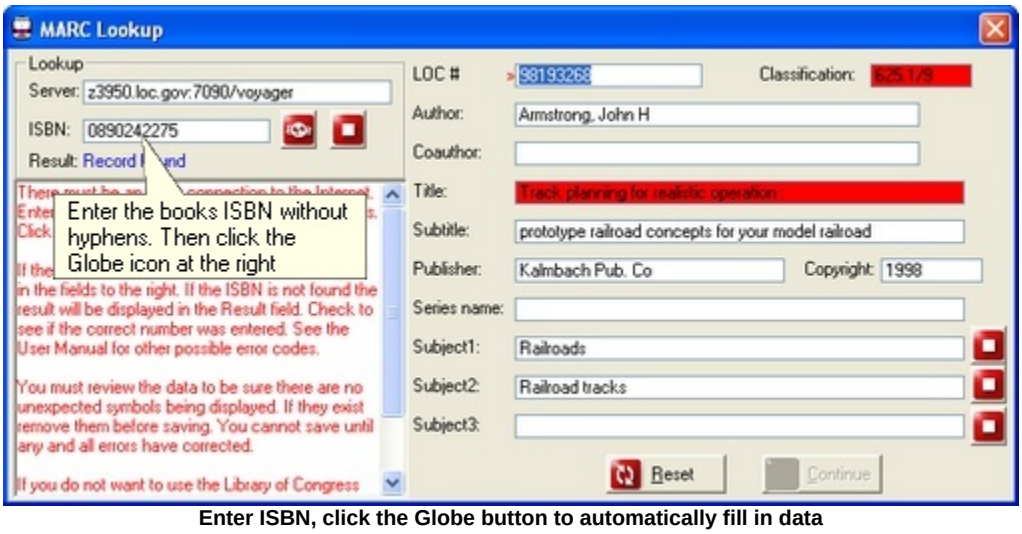
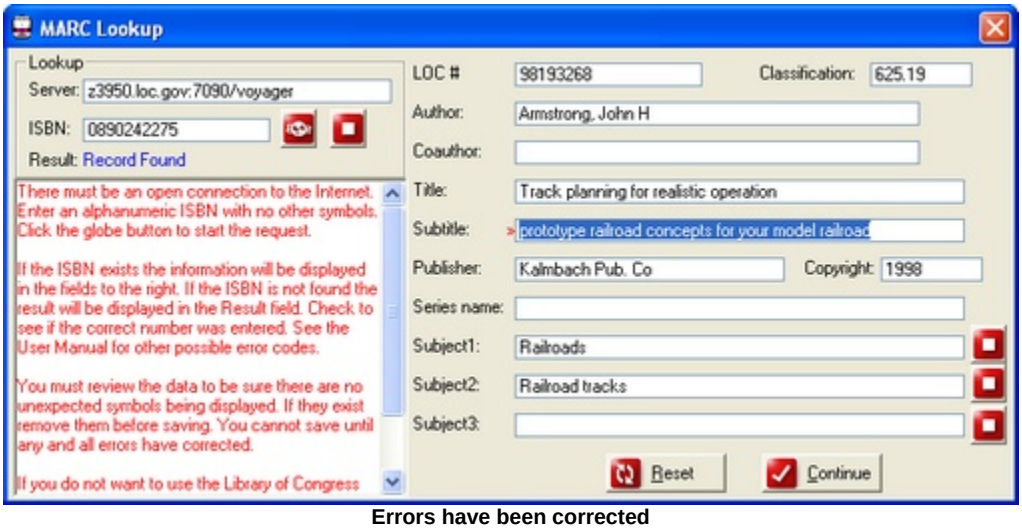


Enter ISBN, click the Globe button to automatically fill in data

The red highlighted fields are errors. The first is the / in the classification number, Dewey decimal. This is common because a large collection will use 625.19 and a small collection will use 625.1. We suggest you be more creative with these numbers to allow you to arrange your books in classification order. The Dewey decimal system as it stands is for all books.



Errors have been corrected

The error has been corrected. We removed the / from the classification number, (Dewey decimal) and the colon and space from the end of the title. Looking at the subjects, you can see the Library of Congress does not think like a model railroader. The downloaded subjects are Railroads and Railroad tracks. They could be better.

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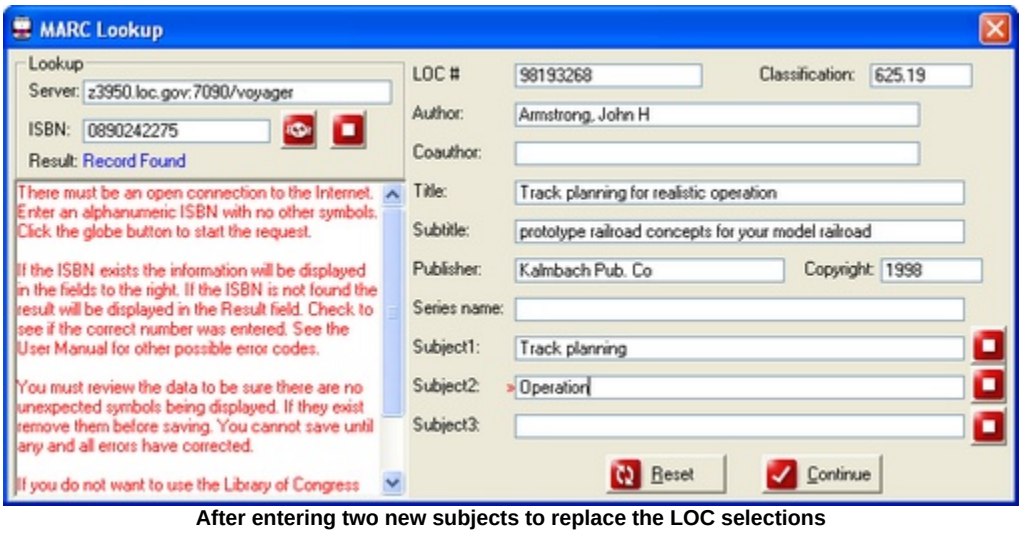

After entering two new subjects to replace the LOC selections

We changed them to Track planning and Operation. These make more sense and will be much easier to find and shelve. Click the Continue button to go the final library entry window.

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21.2 Authors

Library > Author > Maintain

Authors should be entered last name first which will make searching faster and the sorts easier to read. If you elect to enter them first name first that is your decision. Once you have started entering, we suggest you do not change the format at a later time. Be consistent. It is possible to not have a clear author listed. There may be many authors of individual articles. The Great Model Railroads is a good example. Enter the publisher or the editor as the author.

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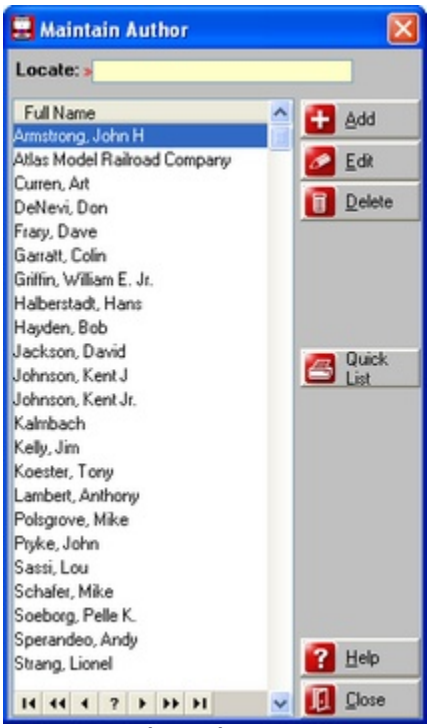

Author maintenance

The author file will be built as you enter more and more books. There really is no reason to enter a new author using this window. However, you may want to change the incorrect spelling of one of the names. If you do change the spelling of a name, the change will cascade to all the resources you have in your catalog by that author.

Using the Quick List option, you can print a report of all your authors.

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21.3 Publishers

Library > Publisher > Maintain

The publisher file will be built as you enter more and more books. Other than correcting the spelling you may not ever open this window from the menu option. You, of course, will if you have to enter a new author or select an existing author from the Maintain Library Resource window.

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Publisher maintenance

We noticed as we tested the library section of Easy Model Railroad Inventory that a publishers name may be listed differently. Kalmbach Publishing Company is AKA Kalmbach, Kalmbach Books, plus others. To avoid have many publisher entries for the same company we suggest you change the MARC function entry before clicking the Continue button.

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21.4 Dewey Decimal

Most of us remember the Dewey decimal system from school. But most of us do not use it very much. The Dewey decimal system is an excellent way to organize your books in a bookcase or even a number of boxes. We have discovered a few things I believe will be a help to those who use this section of the program.

The Library of Congress assigns the Dewey decimal number 625.19XXX to all books with the topic of model railroading, and railroads. Some historical books have other numbers, for example 300's and 700's. The problem is the 625.XXX. When labels are printed, there is not a clear distinction between subjects.

The idea is to have a subject with its own Dewey decimal number so when searching for a title you can easily find it. I suggest the following:

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A	B
Subject	Dewey #
General	625.00
Structures Prototype	625.10
Structures Modeling	625.11
Kitbashing	625.20
Scratch Building	625.21
Track Details	625.30
Scenery	625.31
Scenery Detailing	625.32
Operations	625.40
DCC	625.50
Benchwork	625.60
Wiring	625.61
Freight Cars Prototype	625.70
Freight Cars Modeling	625.80
Steam Prototype	625.71
Steam Modeling	625.81
Diesel Prototype	625.72
Diesel Modeling	625.82
Layout Design	625.90

Suggested Dewey List

Below is a screen shot of the few books I have entered using the table above as a guide.

ACC#	Title	Dewey Num
13	America's fighting railroads	385.09
11	The Norfolk & Western : a history	385.09755
2	Tidewater triangle	385.09755
8	Modeling the '50s	625.00
23	Kitbashing HO model railroad structures	625.11
25	222 tips for building model railroad structures	625.11
21	303 tips for detailing model railroad scenery and structures	625.11
20	Trackwork and lineside detail for your model railroad	625.30
27	Trackside scenes you can model	625.30
30	Model Railroad Scenes	625.31
19	Detailing tips and techniques	625.32
24	Building city scenery for your model railroad	625.32
3	The model railroader's guide to industries along the tracks	625.32
9	The model railroader's guide to industries along the tracks 2	625.32
10	The model railroader's guide to industries along the tracks 3	625.32
12	Track planning for realistic operation	625.40
28	Realistic model railroad operation	625.40
14	DCC projects & applications	625.50
22	DCC made easy	625.50
16	How to build model railroad benchwork	625.60
18	Easy model railroad wiring	625.61
4	The model railroader's guide to freight yards	625.70
1	The model railroader's guide to freight cars	625.70
6	Modern diesel locomotives	625.72
26	Diesel Victory	625.72
7	Vintage diesel locomotives	625.72
31	The Model Railroader's Guide to Diesel Locomotives	625.72
15	Classic railroads you can model	625.90
17	Styrene modeling	745.5928

Sorted in Dewey decimal order

You can see when I put the mini spine label on the book I will be able to find the category very quickly. All the books will be positioned on the shelf in the correct order.

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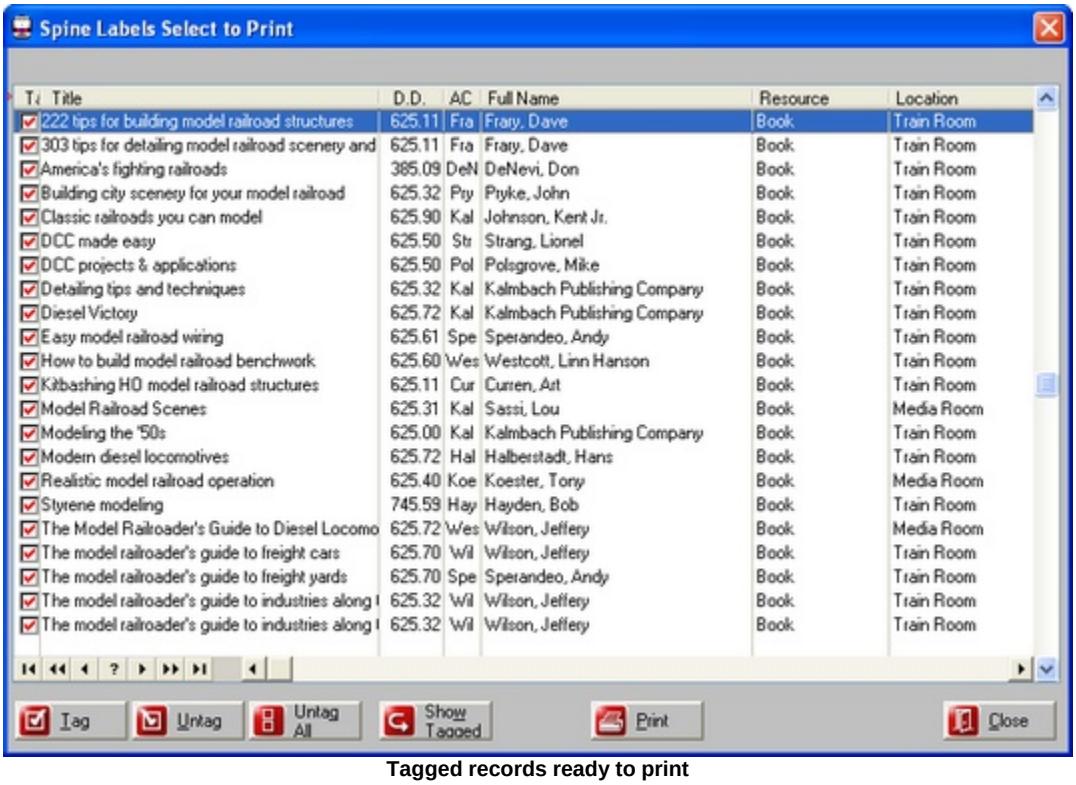
21.5 Print Spine Labels

An option has been provided to print spine labels for your library. The labels used are the Avery 8167 Spine Label, 80 labels per sheet.

When a new book record is added the option to print a spine label is set to Yes. The checkbox at the top of the update window. When you select the option to print spine labels the program wants to know if the currently checked records are to be printed.

Clear Tags?

Because the default is to print a tag for every new book there will be as many tagged records as you have entered. Normally you would click No.



Tagged records ready to print

The records may be printed by clicking the print button. Other buttons are available to changed the tagged records to untagged individually or all at once.

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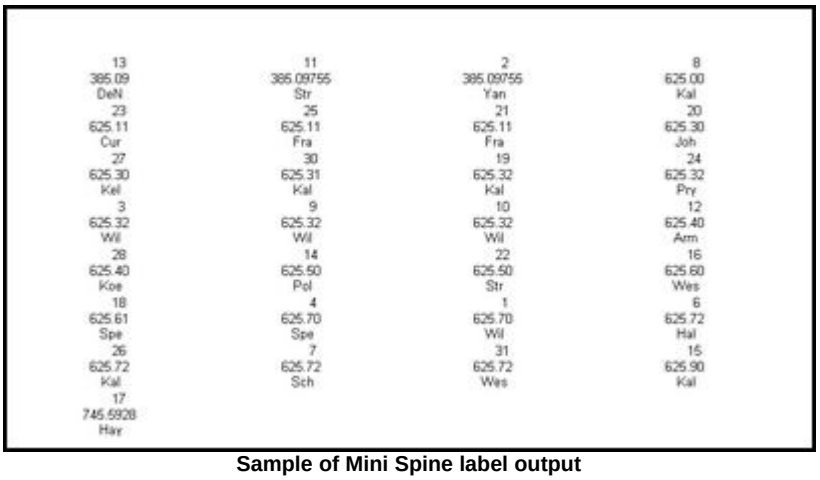

Sample of Mini Spine label output

There are 80 labels per page with the accession number, classification number and the author code. The author code is first 3 letters of the author's last name.

Once the labels have been printed click the Untag All button to remove the tags. New additions to your library will have its print box checked and ready to be printed.

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21.6 Library Reports

There are a number of different library report formats. There is the Quick List button on all of the library related files, Resources, Authors and Publishers. But there are some others too.

Report Designer with the Query Designer.

Selected Subjects - Pick a subject from a drop down, view the results and optionally print the list.

Print Spine Labels - are printed on Avery 8167 Return address sheets. There are 80 labels to a page so it is a very economical way of establishing your railroad library.

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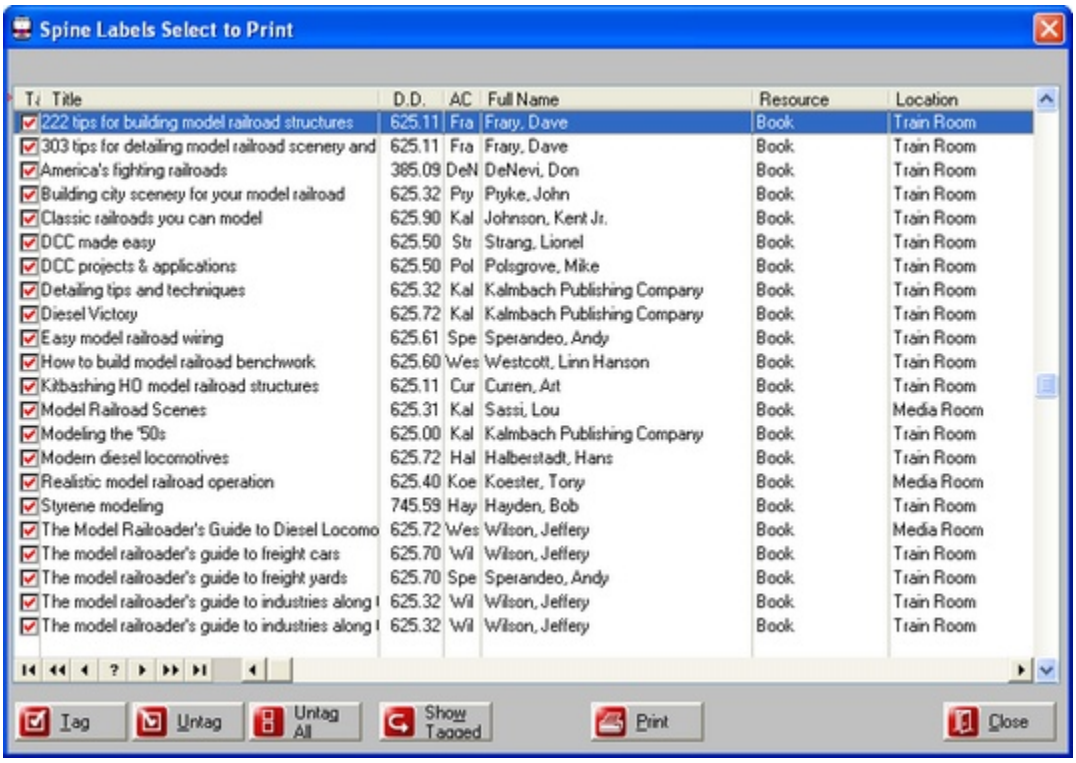
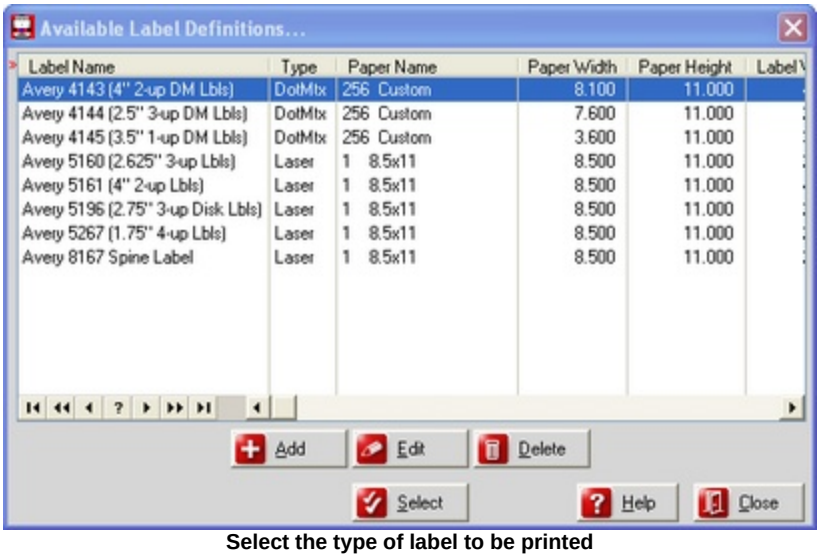


When a new library resource is added to the database the checkbox Print Spine Label is checked by default. When the selected spine labels have been printed successfully click the Untag All button. This removes the check mark and will save the resource record.



Select the type of label to be printed

There are a number of different size labels to select from but the one pictured below is the Avery 8167 Spine Label.

13 385.09 DeN	47 385.09 Gar	46 385.09 Gri	48 385.09 Jac

Avery 8167 Spine Label

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The image above is the first line of labels from a printed sheet. Regardless of the selected label type the information printed will be the same. The accession number, Dewey decimal number and the first three letters of the authors last name.

NMRA Insurance Form:

Print the NMRA Insurance form just like you would all the others. The scale is required because the form is a generic one which deals primarily with model railroad rolling stock and locomotives.

Gauge HO

National Model Railroad Association
Model Insurance Inventory - Valuation Sheet

Page: PageNumber###
Original Inventory

Item	Manu. Name & Number	OR	Road Name	C	Variation Affecting Value	Value	Verified
Book-The model railroader's guide to freight cars	Kalmbach-0890245851	OR		M		19.95	
Book-Tidewater triangle	Morning Sun Books-0961905816	OR		M		45.00	
Book-The model railroader's guide to industries along the tracks	Kalmbach-0890245827	OR		M		19.95	
Book-The model railroader's guide to freight yards	Kalmbach-0890245762	OR		M		18.95	
Book-Modern diesel locomotives	Motorbooks International Publishers-0760301999	OR		M		13.95	

First few lines of a completed NMRA Insurance form

Spreadsheet:
Another report option is to export to an Excel spreadsheet.

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22 Project Planning

Planning > Maintain

Introduced in version 4.0 is a way for you to plan your project so you will have what you need when you need it. Project Planning is the tool to do exactly that. A friend told me I was asking a lot to expect a modeler to actually plan what he wanted to do and define not only each step but to list the parts of the steps.

That may be true. But I need some type of structure for me to get things done. Project Planning is a way to help me do that. The only required field is name you want to use for the project. All of the other fields are to help keep you progressing as you would like.

The project description is a 1000 character note field. I use this to describe the overall concept I propose for the project. I sit at the TV with my laptop and rough out the mental picture I have. I may think of something at the oddest times but want to make sure it is included. I have been known to email myself, leave a voice mail or just write a note to myself.

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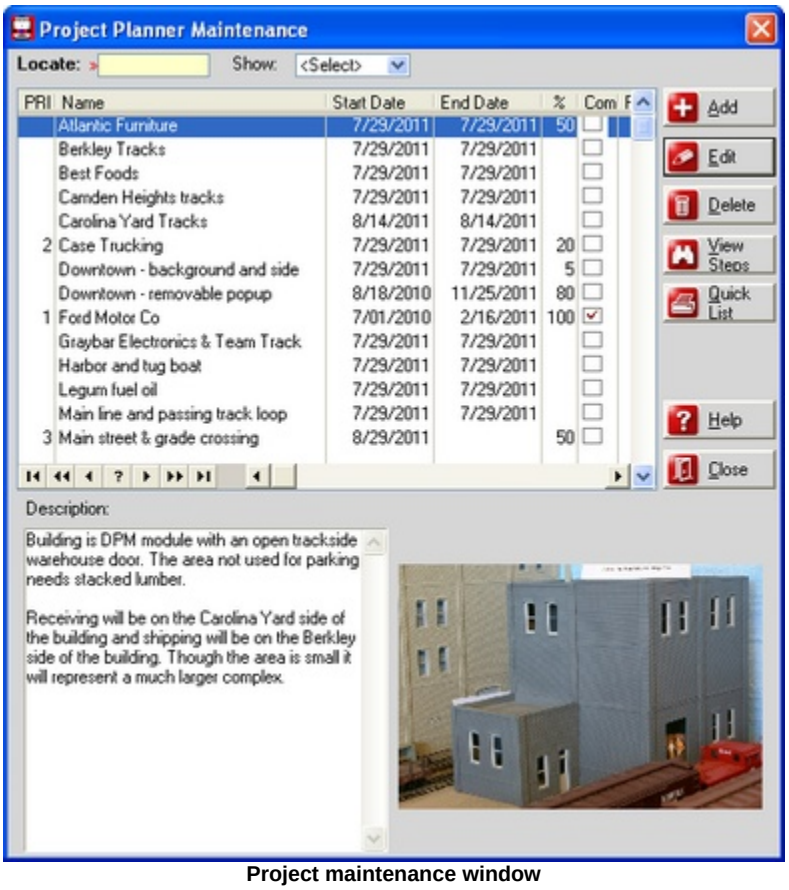
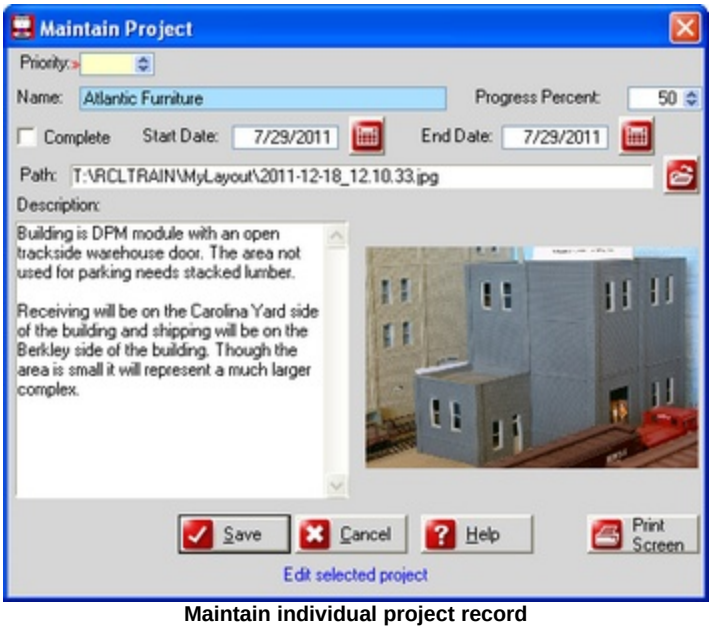


Project maintenance window

The date fields and the progress percentage is so you can quickly see where you are before the project is completed. There is also a Show field with the option to only show Completed or In Complete projects.



Maintain individual project record

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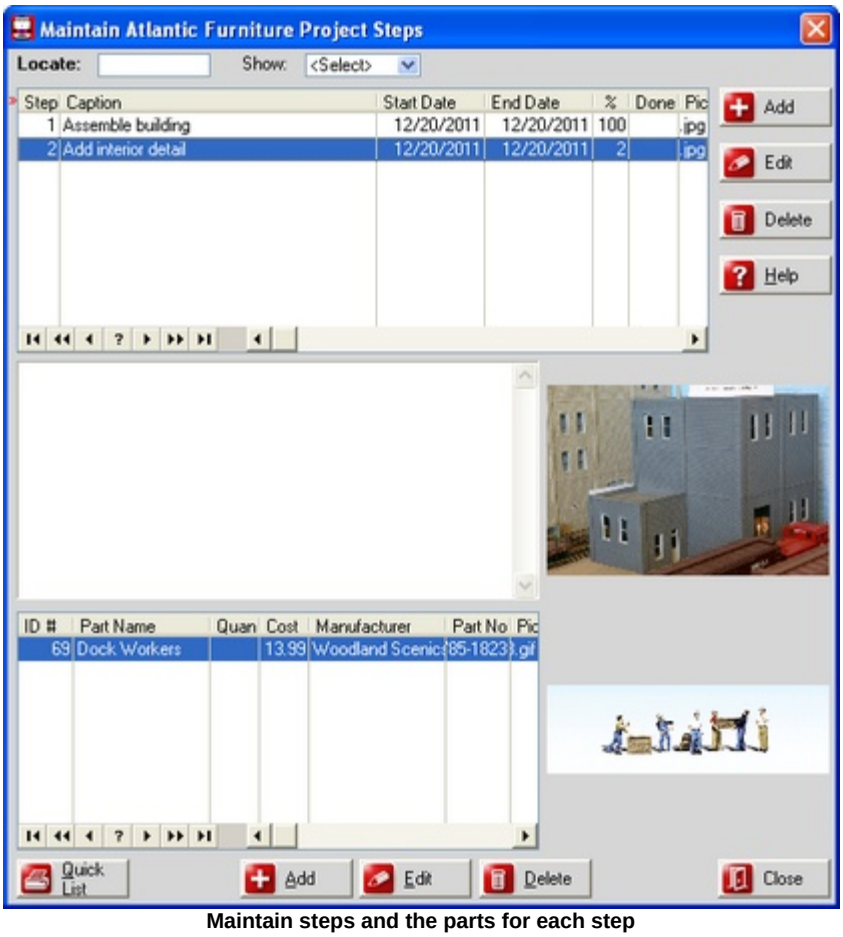
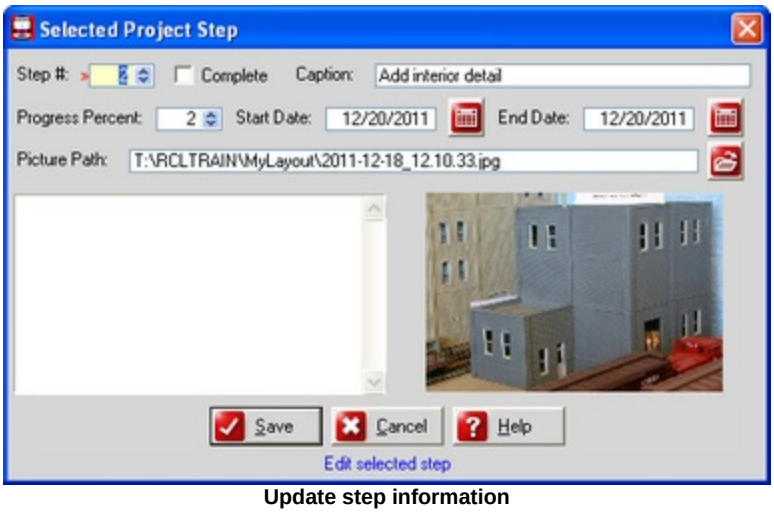
Steps:
Every project has at least one step. Most will have much more than that depending on how detailed you want to be. The more detailed the steps, the better prepared you will be when the time comes to actually start to do something.



Maintain steps and the parts for each step

Step also have optional start and end dates that are for the step only and are not related to the project start and end dates.



Update step information

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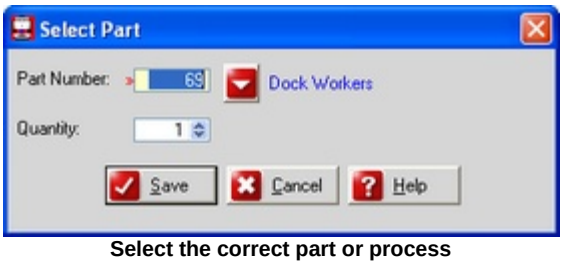
Most steps are going to be made up of the use of one or more parts or a process. A part might be a fence, a process might be ballasting track. You can see that step 2 of the currently selected project consists of two parts. The loading dock needs some people, crates and boxes.



Select the correct part or process

It is possible that a step will not have an related part. For example paint building red might be a step but it is not necessary to have a paint part. Unless you want to go into that kind of detail.

Also see parts maintenance and Project Planning Reports.

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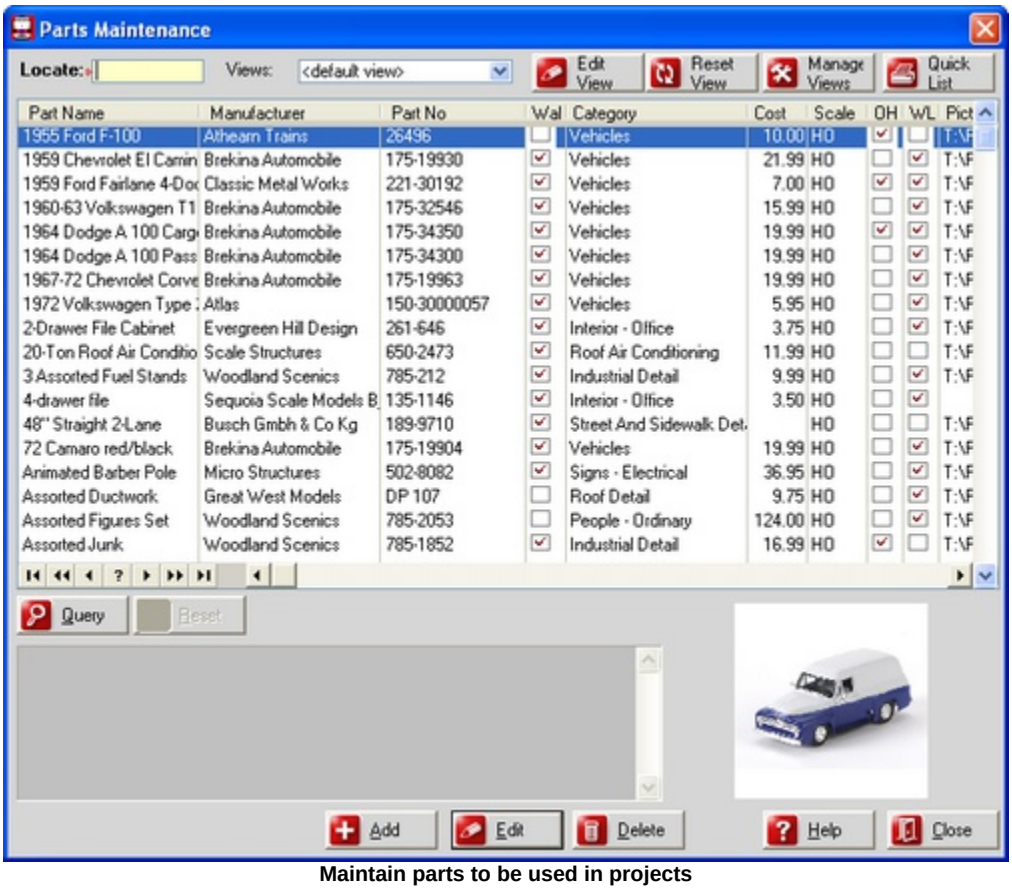
22.1 Parts

Project steps are made up of one or more parts. A part might be an individual detail part, or a number of parts that make up a set. Figures are not sold individually but as packages of 6 or more.



Maintain parts to be used in projects

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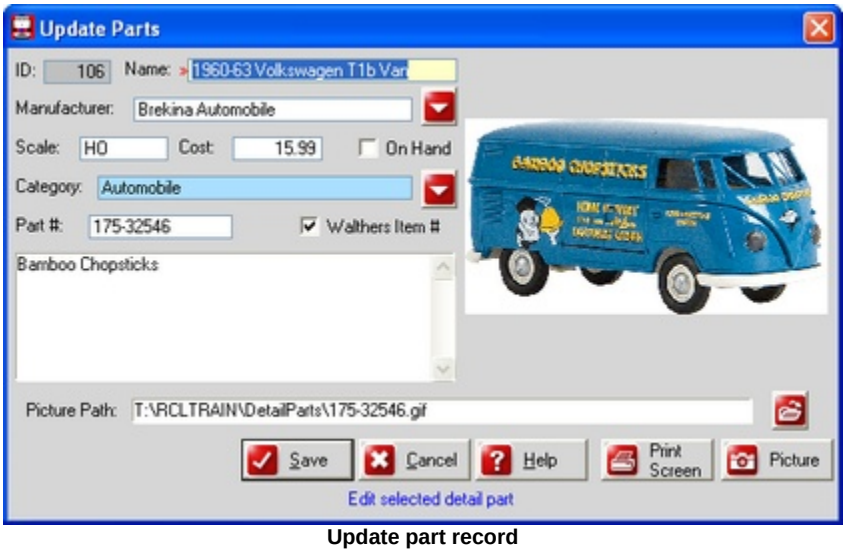
The list of parts you maintain is not an inventory list. It does not have a quantity field but does have a field to indicate if the part is on hand. Because parts, especially small detail parts, are sold and packaged with more than one unit it would be difficult to accurately track true quantities.



Update part record

A part may not be a part. It maybe a process like painting or decal a buildings signs. So don't get stuck on the idea of a part being a physical piece. It might be the process.

Another new feature found in version 4.2 of Easy Model Railroad Inventory is the Print Screen button. Clicking this button will duplicate the windows contents, text and image, allowing you to print to the default printer.

Also see Project Planning and Project Planning Reports.

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22.2 Reports

At this time there is no separate report for project planning. There are Quick List buttons on the Project main window and one on the Project Steps window.

The Quick List output for the Project main window simply lists all of the projects currently in the list.

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Project Quick List

Name	Start Date	End Date	%	Done
Atlantic Furniture	7/29/2011	7/29/2011	50	
Berkley Tracks	7/29/2011	7/29/2011		
Best Foods	7/29/2011	7/29/2011		
Camden Heights tracks	7/29/2011	7/29/2011		
Carolina Yard Tracks	8/14/2011	8/14/2011		
Case Trucking	7/29/2011	7/29/2011		
Downtown - background and side	7/29/2011	7/29/2011	5	
Downtown - Main street	7/29/2011	7/29/2011		
Downtown - removable popup	8/18/2010	11/25/2011	80	
Ford Motor Co	7/01/2010	2/16/2011	100	1
Graybar Electronics & Team Track	7/29/2011	7/29/2011		
Harbor and tug boat	7/29/2011	7/29/2011		
Legum fuel oil	7/29/2011	7/29/2011		
Main line and passing track loop	7/29/2011	7/29/2011		
Navy Stores	7/29/2011	7/29/2011		
Northern 2 track staging yard	9/01/2011	10/01/2011		
Northern Industial Area	7/24/2011	9/01/2011		
Northern Industial Track	8/14/2011	8/14/2011		

Project quick list report results

The above is the default view which includes all of the projects, incomplete and well as complete. There is a selection option on the Project window which will filter only the completed or the incomplete project.

The Project Steps window also has a Quick List button. This button will print the parts list for the currently selected step of the currently selected project.

Project = Northern Industial Area 7/24/2011 9/01/2011 Quick List

Parts for Step 2 Detail Supreme Foods Dock 7/20/2011 7/20/2011

ID #	Name	Quan	Cost	Manufacturer	Part No
69	Dock Workers	1	13.99	Woodland Scenics	785-1823
60	Crates, Barrels & Sacks	1	8.99	Woodland Scenics	785-203

Selected project step and related needed parts

The steps window also has the option to filter incomplete or complete steps for the currently selected project.

Also see parts maintenance, Project Planning and Project Planning Reports.

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22.3 Additional Use

I have found as I designed, developed, changed and worked with the parts section of the Project Planning sections that I was using it to keep track of all types of parts, cars and materials I wanted to buy in the future. It became my Wish List. Enter all the information, and have a category with Wish List in the phrase so you can find it using a query.

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23 Favorites

The Favorites option is only accessible from the pull down menu bar at the top of the window. Click Favorite to select from either Internet or Hard Drive.

The Internet option allows the savings and later accessing sites you find of interest. I have found that I primarily save the paths to videos and model railroad sites. Once you have saved the link all you need to do is click the Internet button to display that site.

The Hard Drive option is where we have saved the individual photographs, both model and prototype, we admire. Many of us will go to great lengths to take a picture Easy Model Railroad Inventory has a way to categorize and quickly access them.

This is the digital age. We all take digital pictures and/or movies. Plus we spend a lot more time on the Internet than we would like to admit. In addition it is not unusual to have more than one computer. Keeping copies of pictures and a duplicate bookmarks on multiple computers is not easy. No, it is very difficult. How many times have you been on one computer when the information, web address or picture is on another. Or you are sure of the computer the information is on but you have forgotten exactly where. This is when you release just how big a 300 + megabytes drive really is and start to wonder why you have so many folders.

Of course, you youngsters don't have a problem forgetting, but for us older folks I have added a solution to the problem to Easy Model Railroad Inventory.

Even those who do not have a second or third computer might find the addition of the Favorites useful. I find a site I find interesting. I open Easy Model Railroad Inventory, navigate back to Internet Explorer to copy the URL. I then add a new record, enter the necessary information and paste the URL into the record.

You can do the same thing with the pictures you have taken or downloaded from the Internet. I download single pictures to my disk drive. I download instead of bookmarking because saving to my hard drive I know the photograph will never be lost.

I solve the problem by having my copy of Easy Model Railroad Inventory on a USB drive. I also have the pictures of my rolling stock, locomotive, structures and parts list on the USB drive. When moving from one computer to another I only need to move the USB drive with me.

As you can see both are favorites, the distinction is where and how the information is stored.

See: Internet Sites and Your Hard Drive.

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23.1 Internet Sites

Favorite > Internet

Access to the Favorite Internet sites is only available using the pull down menu system. Click Favorites then click Internet.

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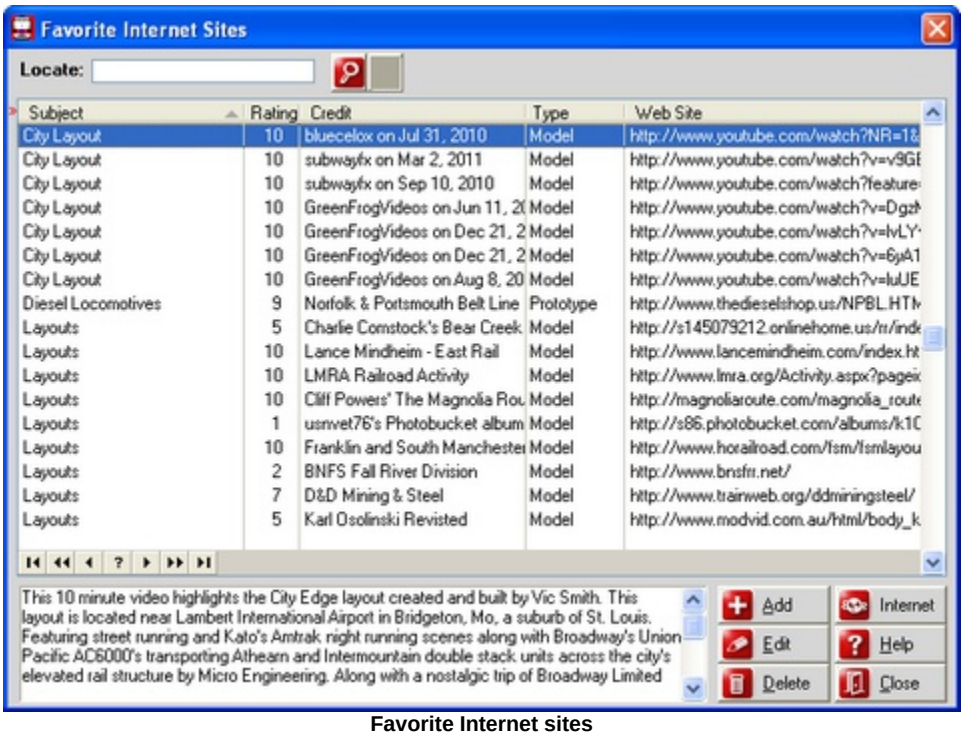

Favorite Internet sites

The fields are:
1. Credit - the site owner and other information. This field is 40 characters long.
2. Subject - Looks up to the same file as the library. This field is 50 characters long.
3. Type - Model or Prototype. Model is the default.
4. Web Site - the URL. This field is 50 characters long.
5. Note or comment section is 1000 characters long.

Maintain a favorite Interent site

You can query and customize the views as you can on most of the windows in Easy Model Railroad Inventory. Once you have the URL saved to access the web site click the Internet button. Your default Internet browser will be started and the page opened. Any error found be the browser will be displayed.

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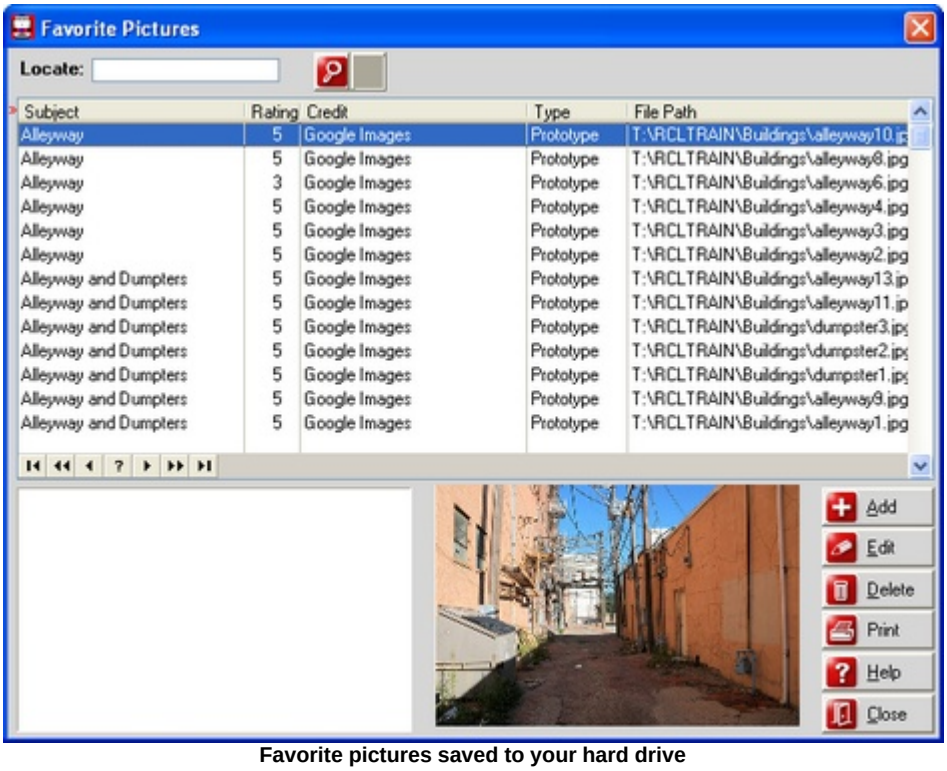
23.2 Your Hard Drive

Favorite > Hard Drive

Access to your Favorite pictures is only available using the pull down menu system. Click Favorites then click Hard Drive. I use Google Images as a source for pictures. It might be alleyways as the following image show.



Favorite pictures saved to your hard drive

The fields are:
1. Credit - the site owner and other information. This field is 40 characters long.
2. Subject - Looks up to the same file as the library. This field is 50 characters long.
3. Type - Model or Prototype. Model is the default.
4. Web Site - the URL. This field is 50 characters long.
5. Note or comment section is 1000 characters long.

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Maintain favorite pictures saved to your hard drive

You can query and customize the views as you can on most of the windows in Easy Model Railroad Inventory. In addition clicking the View Photo button will display a larger view of the picture.

Larger view of selected favorite picture

Another new feature found in version 4.2 of Easy Model Railroad Inventory is the Print Screen button. Clicking this button will duplicate the windows contents, text and image, allowing you to print to the default printer. In this case clicking the Print Screen button will allow the option to send the output to either a printer or a PDF.

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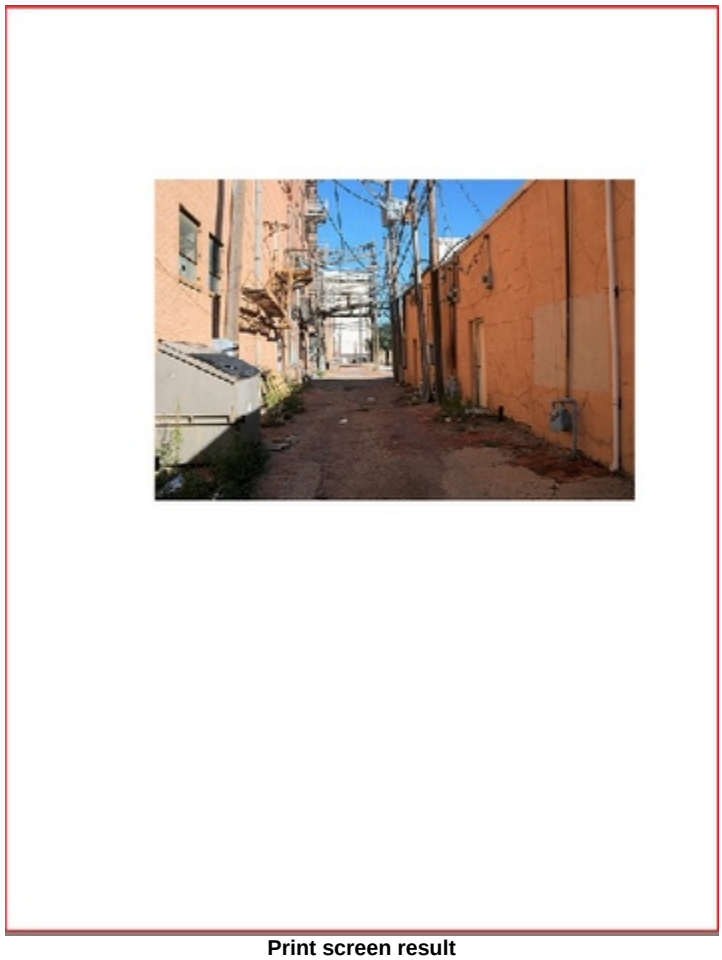

Print screen result

As you can see a single sheet of paper is used for just the one picture.That is fine if you are only interested in the one image. But what if you have a number of pictures of a subject that you need to have on your workbench for reference?

Click the Print button to access three print options.

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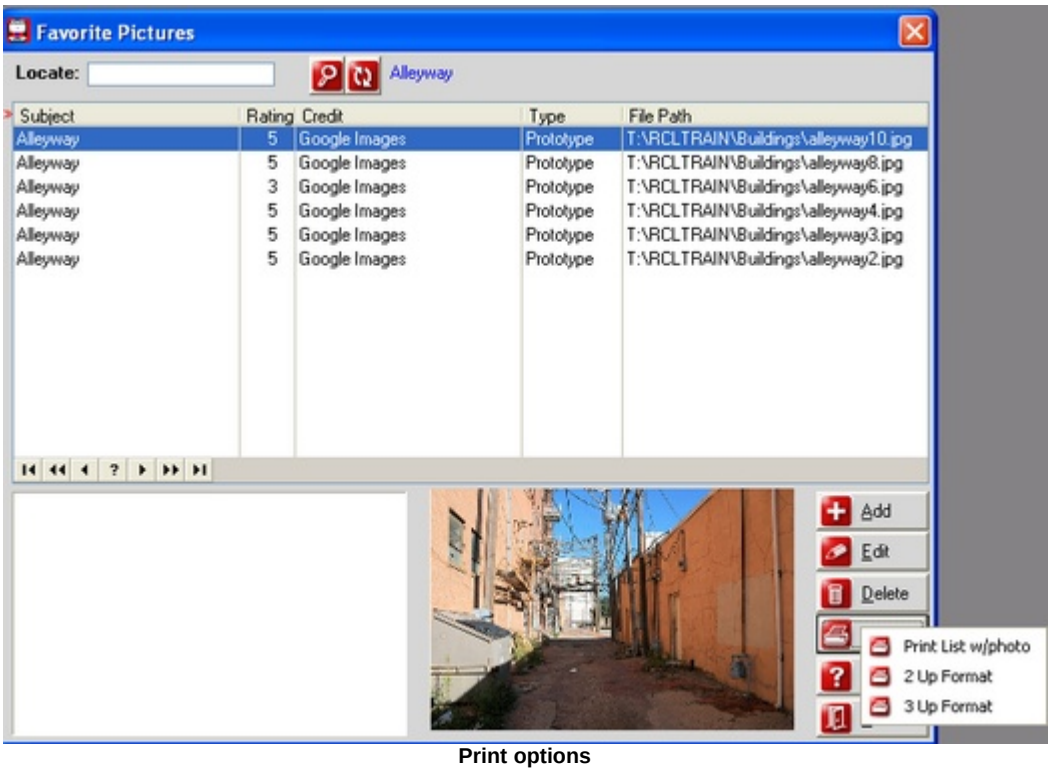

Print options

Option one is a list of all the information for the picture.

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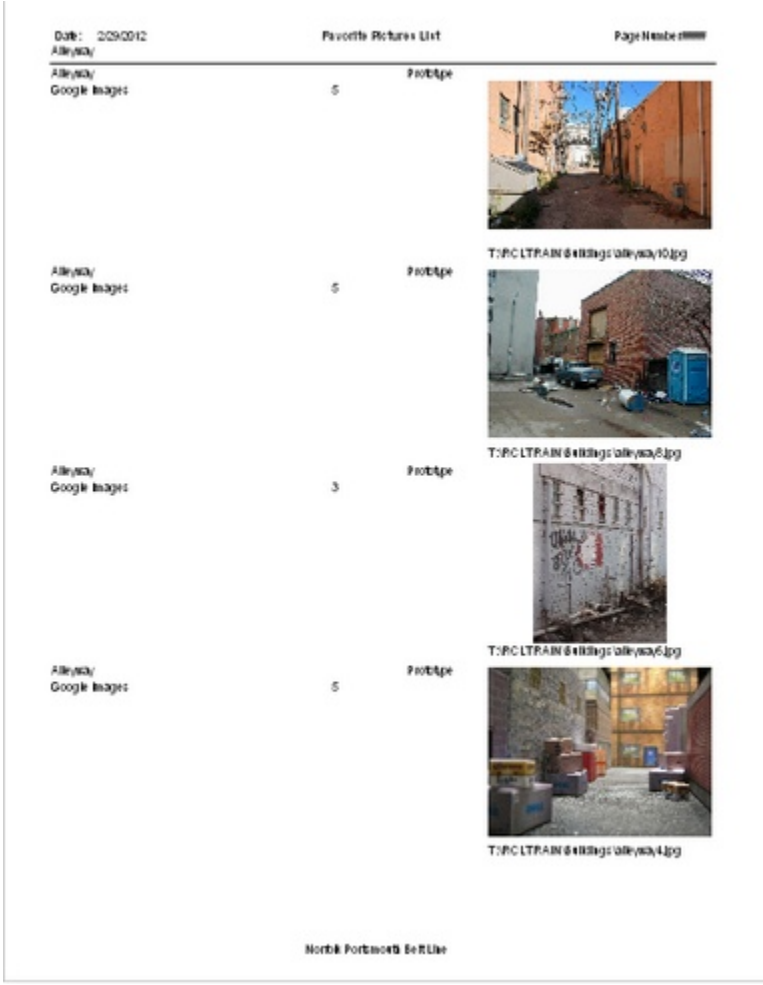
Date: 2/29/2012 Favorite Pictures List Page Number ####
Alleyway/
Alleyway/ Prototype
Google Images 5
T:\RCLTRAIN Buildings\alleyway\10.jpg
Alleyway/ Prototype
Google Images 5
T:\RCLTRAIN Buildings\alleyway\8.jpg
Alleyway/ Prototype
Google Images 3
T:\RCLTRAIN Buildings\alleyway\6.jpg
Alleyway/ Prototype
Google Images 5
T:\RCLTRAIN Buildings\alleyway\4.jpg
Norfolk Portsmouth Belt Line

Favorte picture with photo option prints all information

As you can see if you do not have a lot of notes this is a waste of paper. So there are two other options. These options do not include the note fields but do include the others.

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Favorte picture 2 up format

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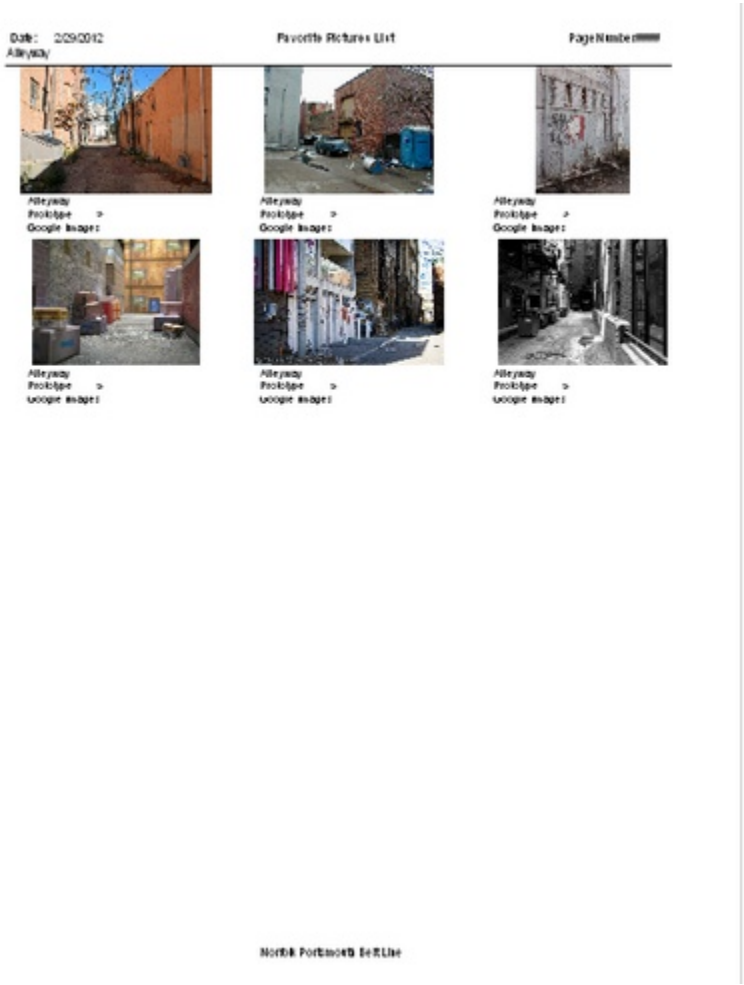

Favorite picture 3 up format

As you can select the pictures you want to print using the query and you can select the format for the pictures. In addition you can select the output so you can send photographs as an email attachment or generate HTML pages. Oh, and you can print them too.

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24 Backup/Restore

Backup/Restore

The backup/restore program used by all of the programs available from RCL Software is a freestanding program that can be launched from within Easy Model Railroad Inventory or from the short cut in the Easy Model Railroad Inventory group located under All Programs. When Backup/ Restore is selected the action will first close Easy Model Railroad Inventory, then launch the RCL Software's Easy Backup & Restore.

Both the backup and a restore functions are included in this freestanding program. Simply click the function you would like to perform by clicking either Backup or Restore on the menu.

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Our backup uses standard ZIP technology that has been available for many years. You do not need to use our Backup/Restore function to get similar results. Our backup will only backup the data and INI files necessary to protect you. The program EXE and other files needed to run the program are not included. In the event of your hard drive crashing you will have to install Easy Model Railroad Inventory before running the restore.

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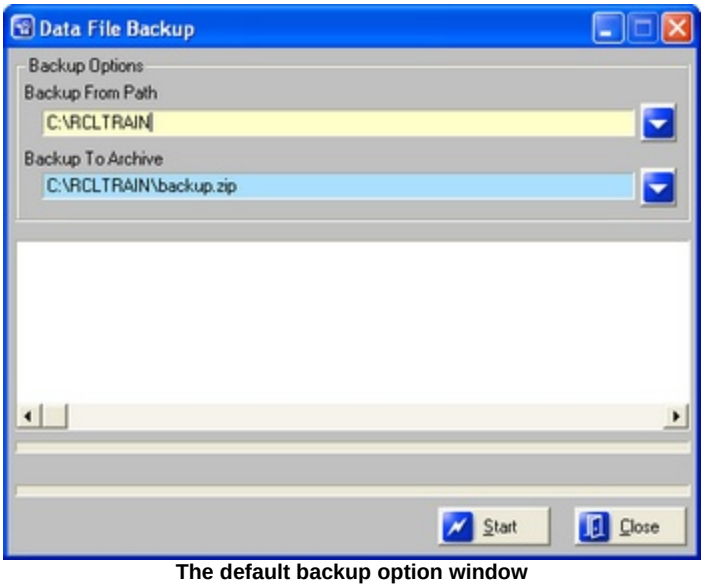
24.1 Backup

This process is designed to backup the database files in the RCL Software application home folder. Only the database files with the extension TPS will be backed up. The backup used by RCL Software employees ZIP compression technology. The ZIP archive is compatible with both WinZip and PKZip. You do not have to have either of these programs to backup and restore your data files. This technology also includes the ability to span disks if the archive is too large.



The default backup option window

The source containing the data files is the home path of the RCL Software program and is entered automatically. Do not change this value!

The archive name and the default path also have a default value. We suggest not using this path but direct the backup to another drive. Most users will want to backup to drive A:

Click on the button to the right of the Backup To Archive entry field. The window below will open.

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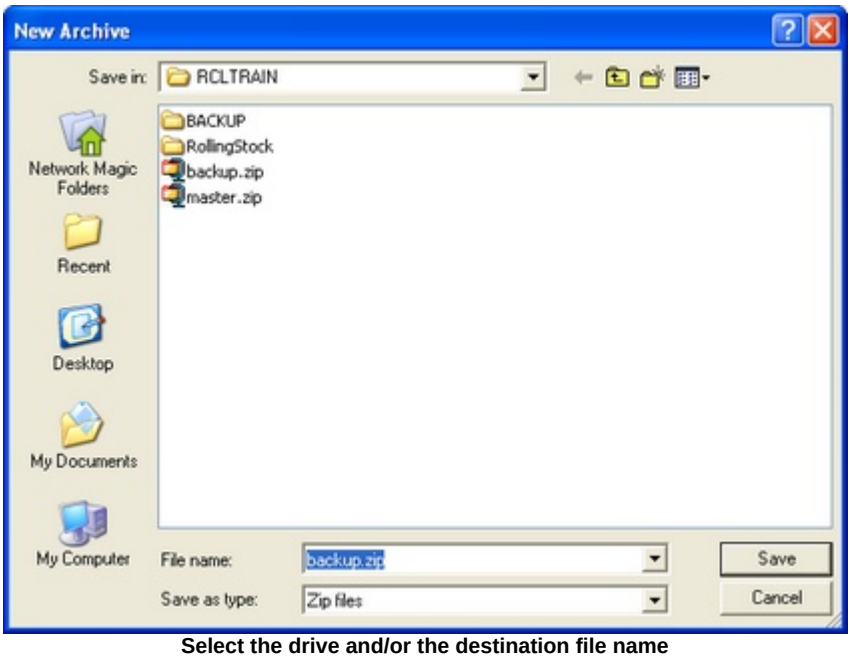
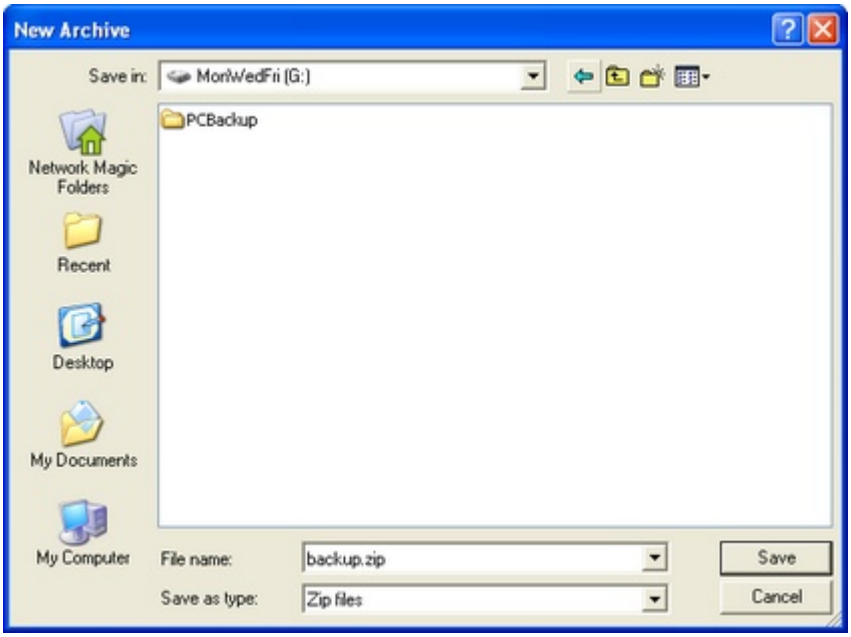


Select the drive and/or the destination file name

To select an alternate path to save your data archive is exactly like saving any file on any windows system. In the Search In entry field select the drive you want to be the target.



We suggest using the default name for the name of your backup archive. You can change the name; in fact, you could name every backup differently. But we do think this might cause some confusion.

We do suggest that multiple backup sets be maintained. I would recommend at least three or four. This way you are backing up your backup!

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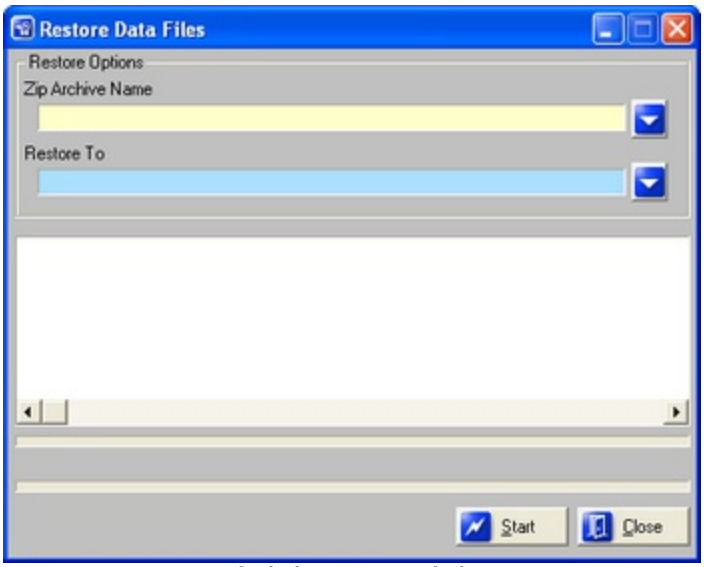
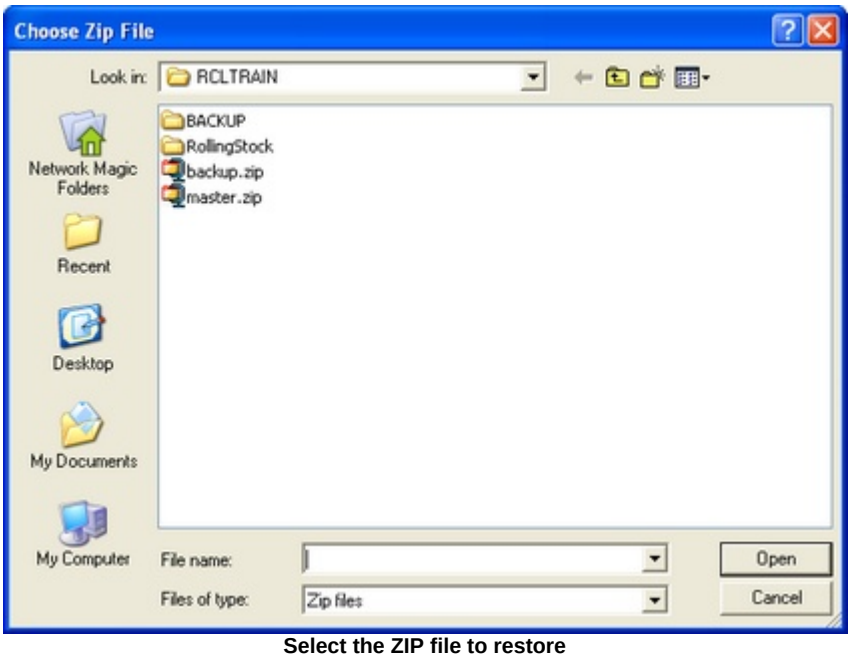
24.2 Restore

Restoring data from a previous backup is the reverse of creating a backup. All of the database files in the target directory will be ***replaced*** by the data being restored.



Default data restore window

First, select the name and location of the most recent successful backup. To select a path and an archive name first click on the button to the right of the Zip Archive Name field. The window in step two will open allowing you to select the drive, the path, and the archive name. Remember you want to restore the most recent backup archive.



Select the ZIP file to restore

Select the drive, the path, and the archive name. Remember you want to restore the most recent backup archive.

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Restore to the RCLTRAIN folder

The path to Restore To is the folder used by the RCL Software application. It will be selected by default when the button to the right of the field is clicked. This example is pointing to the Pastor folder, the default folder for The Pastor's Study. Your default option will be different for any of the other programs purchased from RCL Software.

Click the Start button to restore the database files stored in the selected archive file. All existing database files will be replaced.

Easy Model Railroad Inventory Home Page or Contact RCL Software

24.3 Error Codes

Return Value Description
0 Operation was completed successfully, without errors.
-30 Operation aborted
-150 LSZip PIN error
Specific ZIP library errors
-151 Invalid ZIP archive name
-152 Invalid file specification
-153 Out of memory
-154 Out of memory
-155 Out of memory
-156 Out of memory
-157 Cannot support multiple volumes on this device
-158 Internal error
-159 Filename not matched
-162 Cannot repeat names in ZIP archive')
-163 List processing error
-164 ZIP archive is empty
-165 Out of memory
-166 ZIP archive is empty
-167 Nothing to do
-168 Nothing to do
-169 Create file error
-170 Memory error
-171 ZIP archive is empty

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-172 Internal error
-173 ZIP archive is empty
-174 Out of memory
-175 Temporary file error
-176 Out of memory
-177 Internal error
-178 Zipping error
-179 Copying error
-180 Copying error
-181 Out of memory
-182 Zipping error
-183 Write central directory error
-184 Write end of central directory error
-185 Disk spanning error
-186 Temporary file error
-187 Disk spanning error
-188 Internal error

LSZip Programmer's Reference 161
-189 Replace archive error
-190 Floppy disk not accessible or media error
-191 Archive is empty – can't make it as old as latest entry
-192 Archive has only directories – can't make it as old as latest entry
-193 Filespec does not match
-194 Could not open archive for reading
-195 File and directory with the same name
-196 Will just copy entry over item
-197 Zip file is empty
-198 New Zip file left as %s
-199 Could not read file
-200 Internal fatal error
-201 Error while deleting
-202 First argument is zero
-300 Can't rewrite method
-301 Incorrect compressed size
-400 Uuencode - Open source file error
-401 Uuencode - Create output file error
Specific elf-Extractor SDK errors
-800 SFX binary not found
-801 Can't append Zip archive
-802 Can't convert Zip archive
-803 Can't modify Self-Extracting archive
-804 Can't modify elf-Extracting archive
-805 Can't modify elf-Extracting archive

Specific UNZIP library errors
-1 Filename not matched
-2 ZIP format error
-3 Error in ZIP archive
-4 Out of memory
-7 Create directory error
-9 Open archive error
-11 Internal error

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-13 Create output file error
-15 CRC-32 error
-17 Cannot handle a Volume ID
-50 Disk full error
-51 ZIP archive structure error
-60 Internal error
-61 Bad or missing decryption key
-62 Fatal internal error
-63 Fatal read error
-64 Fatal write error
-65 More recent LSZip version required to unzip item
-80 Uudecode - Open source file error
-81 Uudecode - No begin line
-82 Uudecode - Create output file error
-83 Uudecode - No end line
-84 Uudecode - Decode error

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25 Version History

Version 8.5 02/28/2014
1. Added status field to the structure file looking up to the status file.

Version 8.1 02/05/2014
1. Changed mailing address.

Version 8.0 01/17/2014
1. Added to Maintain Schedule window a filter to view only Loaded, or Pickup, or Mty-Req rolling stock.
2. Added to Maintain Schedule window a filter to view only Delivered or cars still In-Route rolling stock.
3. Added graph of all equipment status.

Version 7.0 08/06/2013
1. Renamed menu item Structures to Structures/Misc to cover all the additional types that may be added to this file.
2. Edited all graph windows to appear and operate the same.
3. Added Freight Car Classification graph using single letter car code. (Example: X = all box cars.)
4. Added Passenger Car Classification graph using single letter car code.
5. Added MOW Car Classification graph using single letter car code.
6. Added Non-revenue Car Classification graph using single letter car code.
7. Changed how coupler update functions.
8. Made sure all car and loco graphs were independent. Some shared the same name which caused "memory" problems.

Version 6.6 06/24/2013
1. Redesigned the NMRA insurance control. All insurance types printed from one window under Utilities.
2. Made the Rolling Stock and Locomotive Report Designer independent. They were sharing report designs.
3. Added DCC data to Locomotive Report Designer. (Not CV values which can be printed elsewhere.)

Version 6.5 05/08/2013
1. Fixed bug in Build Trains assigned cars window not displaying the record detail correctly. The display was incorrect though the record number was correct when processed.

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Version 6.4 3/20/2013
1. Added "Assigned to Train" flag to rolling stock & loco report designer.
2. Added "Assigned to Train" flag to rolling stock & loco as report designer query option.
3. Adjusted "Available" check box relative to "Print Car Card" check box to avoid overlap.
4. Added a Report Designer/Query Designer option to the Schedule group.
5. Removed the status field from the Timetable file.
6. Removed Starting Location field from the Switch List file using Equipment current location instead.
7. Process All Cars has a new option. Select an alternate destination for any car instead of the scheduled one.
8. Added process to change the drive letter of rolling stock/loco, or structure, or library, or parts, or project planning, or Favorite Pictures.
9. Changed from right to left justification some picture path fields.
10. Changed Scale field to force UPPER case.

Version 6.3 2/1/2013
1. Added Structure type field to query options of 3 reports.
2. Changed the Status key in the equipment file to hid null fields.
3. Allow end user to append/join query on Waybill window.
4. Fixed Consignee query lookup filter to show only visible.
5. Cleaned up View Consignee Cars.
6. Made Operations a separate menu option.
7. Changed passenger graph file to unique name.
8. Fixed directional train count in printed timetable.
9. Removed Quicken shortcuts which was causing a date entry problem.
10. Changed caption Title in structure file to Part Name.
11. Added Print Car Card to Locomotive list box query options.

Version 6.2 12/30/2012
1. Added desktop shortcut to user manual to install.

Version 6.1 12/15/2012
1. Added a description field to the truck file.
2. Switch list may now be printed to an XML file.
3. Added Print List button to DCC/CV window.
4. Added Loco DCC address report with query option.
5. Switch list header fields labeled for better clarity.
6. Added the assigned loco information to the timetable schedule.
7. Added to Timetable routing type "Turn".
8. Departure and Arrival locations can now be the same.
9. Changed menu term from Freight to Rolling Stock.
10. Added Passenger AAR Code graph.
11. Changed "Distribution" to "Code" in AAR Graph captions.
12. Added viewing of Timetable using Gantt graph format.
13. Redesigned Maintain Schedule window.
14. Added query to Maintain Schedule window.

Version 6.0 09/08/2012
1. Added Original Box checkbox to rolling stock and locomotive record.
2. Changed scale field in structure record from 4 to 6 characters to match other files.
3. Fixed structure query from displaying duplicate fields.
4. Changed key in ship-product file to allow the same product to be shipped in different cars.
5. Added a 70 character description field to Coupler file.
6. Added to rolling stock logo file path and image display.
7. Added to rolling stock 3 additional picture file path and image display options.
8. Added to locomotive maintenance a logo file path and image display.
9 Added to locomotive maintenance 3 additional picture file path and image display options.
10. Shipper window save and restore last used query.

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11. Stopped default action to move to the next field when last character has been entered.
12. Added to structure maintenance 3 additional picture file path and image display options.
13. Edited or entered more descriptive tool tips.
14. Updated User manual and help files.

Version 5.4.3 04/01/2012
1. Corrected field duplication rolling stock view sort.
2. Corrected field duplication locomotive view sort.
3. Changed Pulling Capacity caption to P-Cap.
4. Change Status key to display null value in list box.
5. Added date to Favorite picture (hard drive).
6. Added date to Favorite Internet sites.
7. Changed calendar lookup style.

Version 5.4.2 03/15/2012
1. Corrected justification problem with Part Internet path field.

Version 5.4.1 03/08/2012
1. Corrected field definition problem with parts query.

Version 5.4 03/01/2012
1. Corrected some spelling mistakes throughout.
2. Corrected electronics spreadsheet column captions.
3. New 2 column structure report with picture.
4. New 2 and 3 column Favorite Picture report.
5. Added Wish List check box to Tools.
6. Part name can now be duplicated.
7. Added Retail name to part record.
8. Added hyperlink to part record.
9. Added Copy button to part file window.

Version 5.3.1 02/15/2012
1. Changed all byte columns back to resizeable.

Version 5.3 02/14/2012
1. Added book title to query.
2. Added "Return To" field to print car card.
3. Added "Return To" column to print car card list box.
4. Switch list pickup and loaded indicator is now an "X".
5. Changed switch list stop number from a right to left justify.
6. Switch list AAR code centered from left justify.
7. Added graphic check mark to all check box columns.

Version 5.2 02/06/2012
1. Edited the user license.

Version 5.1 01/26/2012
1. Added to rolling stock update Window train number and name.
2. Corrected individual orphaned rolling stock train assignment.
3. Added picture to library book record.
4. Added last path used to library book cover picture.
5. Added last path used to project picture.

Version 5.0 12/21/2011
1. Changed entry field order on Favorite Picture update page.
2. Changed entry field order on Favorite Internet Site update page.
3. Rolling stock picture path now saved.

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4. Locomotive picture path now saved.
5. Favorite picture path now saved.
6. Structure picture path now saved.
7. Detail part picture path now saved.
8. Added Location field to rolling stock report designer.
9. Added Location field to locomotive report designer.
10. Moved subject column to 1st position on Favorite Picture.
11. Moved subject column to 1st position on Favorite Internet Site.
12. Changed Favorite Picture query to allow joins.
13. Changed Favorite Internet Site query to allow joins.
14. Favorite Picture path key changed to unique.
15. Added photograph to the Favorite Picture list window.
16. Added Favorite Picture report with photograph and query.
17. Added and/or attribute to Detail Part list box query.
18. Added 0 - 10 rating field to Favorite Sites.
19. Added 0 - 10 rating field to Favorite Picture record.
20. Fixed referential integrity of part to step.
21. Removed Manufacturer from Outlook style menu.
22. Removed Retailer from Outlook style menu.
23. Added single picture to project record on parent and update window.
24. Added print screen button Project update window.

Version 4.3 10/14/2011
1. Added Wish List checkbox to parts record.
2. Added Wish List field to all parts reports.
3. Added Priority field to Project record.
4. Added structure report listing with photograph.
5. Redesigned parts list box window to make photo larger.
6. Library resource type changed to free form field with "Book" as default.
7. Added 20 character field to structure file called Type with "Structure" as default.
8. Added Query Option Dialog to the front end of all reports.
9. Added a tool tip for many of the list box columns to make data more easier to understand.

Version 4.2 09/09/2011
1. Added field Pulling Capacity to locomotive record.
2. Added Favorite Internet Sites procedures.
3. Added Favorite Pictures procedure to organize pictures located on your hard drive.
4. Added print screen function to rolling stock update window.
5. Added print screen function to locomotive update window.
6. Added print screen function to library update window.
7. Added print screen function to part update window.
8. Added print screen function to structure update window.
9. Added print screen function to manufacturer update window.
10. Print screen to default printer or PDF file.

Version 4.1 08/24/2011
1. Changed scale/gauge field from 4 characters to 6.
2. Loco card capacity field now optional.
3. Loco card built date now optional.
4. Loco card rebuilt date now optional.
5. Loco card DCC now optional.
6. Loco card sound now optional.
7. Loco card optional fields turned off by default.

Version 4.0 08/15/2011
1. Added a Digital Fast Clock under Operations > Scheduling.
2. Added a stop watch under utilities.

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3. Add all functionality to maintain project planning.
4. Added 30 character Owner field to rolling stock and locomotives.
5. Car card length field now optional.
6. Car card capacity field now optional.
7. Car card door width now optional.
8. Car card built date now optional.
9. Car card rebuilt date now optional.
10. Car card optional fields turned off by default.
11. Added button to connect to manufacturer's web site.
12. Fixed bug in the locomotive road name graph.
13. Added a Not Scheduled checkbox to timetable.
14. Optionally print timetable to include the Not Scheduled trains.
15. Optionally print switch list to include the Not Scheduled trains.
16. Fixed formatting of Tools Inventory List.
17. Added Retail name to equipment inventory import.
18. Added option to register for upgrades to program and web site.
19. Added Rolling Stock and Locomotive maintenance functions.

Version 3.8 06/25/2011
1. Added Out of Print flag to library file, all reports and queries.
2. Removed duplicate AAR field from Rolling Stock report designer query list.
3. Added status filter to timetable window.
4. Added field Loco Variation to spreadsheet export.
5. Added field Routing to Timetable with Local and Thru as the options.
6. Redesigned printed timetable to include new routing field.
7. Made the switch list report 4.25 inches wide.
8. Printing the timetable (schedule) has 3 options.
9. Added Departure time and place to switch list.
10. Added Arrival time to switch list.
11. All dates now use Quicken style shortcuts.
12. Fixed the date format in Tools section.
13. Corrected miscellaneous spelling errors.
14. Duplicated Spreadsheet to Library Outlook menu selection.
15. Added Spreadsheet to Tools option, both pull down and Outlook.

Version 3.7 05/31/2011
1. Removed local variables re car and over flow counts in consignee window.

Version 3.6 05/25/2011
1. Added print caboose card to be inserted into locomotive car card pocket.
2. Corrected bug found in calculation of consignee car and over flow counts when car's location is blank.

Version 3.5 05/20/2011
1. Corrected query designer selections on consignee window.
2. Added query designer to consignee report designer.
3. Added column sort to Select Shipper window.
4. Freight Report Designer number and date fields will display blank when zero.
5. Freight Report Designer capacity field display enlarged to accommodate gallons correctly.
6. Corrected field size error when adding a car when building a train.
7. Consignee window list box added 2 calculated columns: CNT is the car count and OFL is the overflow, plus or minus.
8. Redesigned the Build Train window to allow the timetable and assigned cars and locos to be viewed on the same window.
9. Fixed message text on Tools update window.
10. Added Shippers Product file for visible shippers only.
11. Added Empty Car Request forms for visible shippers only.

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12. Added Loaded checkbox to switch list.
13. Added status flag to timetable to allow the user to see the assembly progress of each train.
14. Added the Assigned to Train flag to the rolling stock list box and as a query option.
15. Added the Assigned to Train flag to the locomotive list box and as a query option.
16. Turned the save query option back on on the rolling stock list box.
17. Added to the switch list a loaded checkbox.
18. Corrected bug in assigning cars and locomotives to scheduled trains.
19. Added a process to fix the bug in #18.

Version 3.4 04/29/2011
1. Removed Build Trains from Scheduling Outlook selection.
2. Changed pull down menu selection from Operations > Scheduling > Maintain Trains to Build Trains.
3. Added Quick List to Build Trains window.
4. Added View Designer to Build Trains window.
5. Removed "Assigned to Train" from Equipment Export.
6. Added Tool & Miscellaneous Equipment file.
7. Added date (MM/YY) retired/scraped to equipment file, reports and queries.
8. Added date (MM/DD/YYYY) removed/sold from collection, reports and queries.
9. Added DCC Ready checkbox to locomotive record, reports and queries.
10. Added copy button to library file window.
11. Added copy button to structure file window.
12. Added copy button to electronics file window.
13. Added copy button to tools file window.

Version 3.3 03/30/2011
1. Added graphic to main frame.
2. Added contact option to Outlook menu.

Version 3.2 03/25/2011
1. Fixed bug in library cost and value field that caused a lockup when adding.

Version 3.1 03/22/2011
1. Changed some retail fields from UPPER to Capitalize.
2. Retailer is no longer required in library record.
3. Book value field will be updated with the cost value if cost is not zero and value is not zero.
4. Changed the library select retailer to correct browse.
5. Corrected retail lookup window display.
6. Added Show List report for locomotives.
7. Added build and rebuild dates to the rolling stock report with pictures.
8. Added build and rebuild dates to the locomotive report with pictures.
9. Used same name on pull down menu and Outlook style menu for Report with Pictures.

Version 3.0 03/11/2011
1. Added the DCC and Sound check boxes to locomotive card.
2. Added separate Schedule section to Outlook style menu.
3. Changed font from 8 to 10 for top 2 lines of all car cards
4. Added cost field to library record.
5. Added retail name to library record.
6. Waybill window cannot be opened twice which caused a sharing error.
7. Added Show Report with only Reporting Mark and Road Number.
8. Optionally print ID number for all car cards.
9. Reformatted switch list to 4 3/4" wide.
10. Corrected caption in Rolling Stock query list.
11. Added generated copyright year.
12. Fixed Quick List button on Consignee window during resize.
13. Updated report name displayed at top left of preview window.

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Version 2.5 02/28/2011
1. Changed retailer captions.
2. Fixed value input and display field in structures.

Version 2.4 02/25/2011
1. Lightened the gray window background.
2. Added button "Add to Shipper" to Consignee window.

Version 2.3 02/16/2011
1. Fixed picture on locomotive car card.
2. Fixed cut off "R" in Return To caption.

Version 2.2 02/13/2011
1. Changed Consignee + Prod + In/Out key to include AAR code.

Version 2.1 02/08/2011
1. Fixed fixed print car card function being called twice.

Version 2.0 02/08/2011
1. Fixed length of location local variable in Batch Assign Cars.
2. Fixed door width problem.
3. Added system class field to rolling stock and car card.
4. System class will appear on car card if exists instead of the single letter car class.
5. Added color field to locomotive record.
6. Updated field captions in export function.
7. Optionally print photo on car card for all rolling stock.
8. Added batch assign location warning.
9. After tagging in the batch assign location record the selected record will retain focus.

Version 1.5 01/22/2011
1. Use current date when duplicating rolling stock or locomotive.
2. Use current date when duplicating rolling stock or locomotive with new road number.
3. Changed consignee/location key.
4. Corrected condition options in preferences to match file options.
5. Enabled condition default when adding rolling stock or locomotive.
6. Enabled purchased default when adding rolling stock or locomotive.

Version 1.4 01/19/2011
1. Fixed Quick List button transparency on AAR maintenance window.
2. Added 50 character definition field to Status file.
3. Changed format of data entry form on page 155 of the user manual.

Version 1.3 01/05/2011
1. Corrected the Show Tagged/All/Untagged positioning on Waybill window.
2. Correctly enable or disable the Print button on Waybill window.
3. Added retail file for cars, locomotives, structures, and electronics.
4. Removed unique key for DCC CV code description causing duplicate key error.

Version 1.2 12/4/2010
1. Changed query type location to Current Location.
2. Corrected problem with location in freight query definition.

Version 1.1 11/28/2010
1. Corrected e-mail link.
2. Corrected site link.

Version 1.0 11/26/2010

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1. Gold release.

Beta 9.7
1. Change graph default from bar to Pareto.
2. Fixed problem with Loco by RR graph "other".
3. Changed engine type graph to a pie chart.
4. Changed equipment service graph to pie chart.
5. Added view button to graph to see what is included in "other".
6. Waybill has the option to use the location instead of city & state.

Beta 9.6 11/16/2010
1. Removed templates that are no longer needed.
2. Removed 4 icons from toolbar.
3. Cosmetic window changes.
4. Made delete messages clearer.
5. Changed some button captions to be clearer.
6. Changed some column captions to be clearer.
7. Changed some action messages to be clearer.
8. Updated help and manual to reflect program changes.
9. Divided ARR and Model loco lookups.
10. Change service type to work better with non-locomotive update.
11. Did extensive testing using own layout.

Beta 9.5 08/11/2010
1. Added Timetable file.
2. Added Switch List and Power file related to a train in the Timetable file.
3. Added functions and window to schedule trains and the cars for each train.
4. Added reports to print schedule and switch lists.
5. Added function and window to move cars from the current location to the destination.
6. Added window to assign a single consignee/destination to multiple equipment records.
7. Redesigned location report and moved link to Operations > Consignee >...
8. Increased font size from 8 to 10 of the top two lines on freight car card.
9. Completed documentation for all new procedures.

Beta 9.4 07/23/2010
1. Fixed a record declaration error caused by including an old file version.

Beta 9.3
1. New resize strategy added to selected windows.

Beta 9.2 07/08/2010
1. Fixed problem with resize strategy.
2. Added Print Car Card checkbox to locomotive Operations tab.
3. Added a window with all the print car card options.
4. Maintain electronics, library, consignee, locomotive, shippers, manufacturers and structures will save and restore the last used view selected.

Beta 9.1 07/06/2010
1. Locomotive car cards.
2. Added location, (friendly name to help operators), to consignee file.
3. Add consignee location to report designer.
4. Add consignee location to queries.
5. Resize consignee/product/shipper window.
6. Change button property to transparent update industry form.
7. All Queries need and/or join option added.
8. Move the select button to the left of all windows.
9. Changed manufacturer to electronics relation to correct problem.

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10. Maintain shippers default focus on list box to sync with thumb.
11. Maintain manufacturer default focus on list box to sync with thumb.
12. Maintain structure default focus on list box to sync with thumb.
13. Maintain consignee default focus on list box to sync with thumb.

Beta 9.0 06/18/2010
1. Added function to print Passenger car cards.
2. Added function to print Freight car cards.
3. Added function to print MOW car cards.
4. Added function to print Non-revenue car cards.
5. Passenger car cards print in AAR code order.
6. Fixed car card vertical lines.
7. Fixed waybill vertical lines.
8. Added shipper detail 2 consignee/shipper.
9. Added local variable for VIA, Spot and Routing on waybill.
10. Added railroad name lookup to populate routing field.
11. Forced Shipper Direction to upper case.
12. Changed Loco reporting mark to required.
13. When Shipper industry type is changed the related cust/prod & ship to are now automatically deleted.
14. Added spot field to the cust/prod file.
15. Added Shipper browse right click function.
16. Added resize to structure window
17. Added resize electronics window.
18. Removed Easy Auto entry from routing field Waybill update.
19. Added passenger car color code to printing waybills.
20. Added passenger car color code documentation to manual.
21. Change the Consignee file Industry Type to not required.
22. Fixed ghost record when duplicating freight and loco record.
23. Removed the pop-up window prior to printing car cards.
24. Freight car cards now print in AAR code order.
25. Fixed record position problem when looking up road names.
26. Fixed record position problem when looking up AAR codes.
27. Fixed record position problem when looking up industry types.
28. Right click on consignee edit opened wrong form has been fixed.
29. Right click on cust/prod delete accessed wrong file and has been fixed.
30. Added shipper name field shipper Report Designer.
31. Added waybill count field to shipper Report Designer.
32. In equipment remove exclude nulls for the available field so query works correctly.

Beta 8.4 05/27/2010
1. Added Spot field to cust/prod file, the track/door/CLIC where the car is to be spotted.

Beta 8.3 05/18/2010 PM
1. Fixed installation - NOT over right road name file.
2. Changed version number on splash and about windows.

Beta 8.2 05/18/2010 AM
1. Added button to copy existing car using the same number.
2. Added button to copy existing car with a different number.
3. Added button to copy existing locomotive using the same number.
4. Added button to copy existing locomotive with a different number.
5. Removed AAR type import.
6. Removed Road Name import.
7. Printing NMRA insurance concatenated Construction field to the Variation field.
8. Changed installation to allow user modification of drive destination.

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Beta 8.1 05/13/2010
1. Changed alignment of car card text.
2. Moved AAR fields to top of car card.
3. Added option to use color on car card.
4. Added color to car card depending on type.
5. Added color to waybill depending on type.

Beta 8.0 05/12/2010
1. Added Print Car Card checkbox to print Freight cars only.
2. Added printing of car cards.
3. Added Empty Car Return To field to freight.
4. Moved all operating fields to Operations tab.
5. Changed spelling of None Revenue to Non-revenue.
6. Added view AAR types vs. cust/dest and products.
7. Added Dummy to Engine Type options.
8. Fixed referential integrity of related files on delete.
9. Made delete message file and field specific to be better understood.
10. Removed Collection Tab & moved fields to other tabs.
11. Changed AAR type field key to unique.
12. Reporting Marks forced to uppercase.
13. Road Name added word capitalize.
14. Added to customer/destination field Type: Hidden, Off Layout or Visible.
15. Removed Note field from AAR Type file.
16. Added freight car class file related to AAR file.
17. Added AAR Class Types file with description.
18. Added Class field to AAR Car Types file.
19. Removed classification field from Freight and Locomotive files.
20. Change customer to consignee to be consistent with waybill nomenclature.
21. Removed 3 250 character fields no longer needed from Industry/Product file.
22. Added Shipper file (off line source of cars to layout consignees)
23. Added ShipTo file (shipper, product, VIA, Routing, and number of waybills to print.)
24. Added Build and Rebuild Date to Freight, Passenger, etc. Format MM/YY.
25. Added Build and Rebuild Dates to Car Card.
26. Hand entered AAR Mechanical Classifications to service type: Freight in the AAR Type file.
27. Removed toolbar, reorganized pull down menus.
28. Changed the design of the car card using more field prompts.
29. Added many AAR codes to AAR Type file.
30. Added many reporting marks to Road Name file.
31. Corrected height of car card.

Beta 7.2 03/14/10
1. Corrected default sort columns on some windows.
2. Change all search captions to locate.

Beta 7.1 03/13/10
1. Corrected capacity display picture.

Beta 7 03/11/2010
1. Fixed problem with AAR lookup on freight window.
2. Added action message to all update windows.
3. Added photo path to selected windows and reports.

Beta 6 3/03/2010
1. Corrected program name.
2. Added auto Internet update.
3. Changed freight capacity field from 3 to 6 digits.
4. Added field Tons/Gal as companion to capacity.

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5. Added Tip of the Day.
6. Added File > Export > Structures.
7. Added File > Export > Library.
8. Added File > Export > Electronics.
9. Added Query to all export options.
10. Fixed resize of photographs when added.
11. Disabled View Photo button when adding new record.
12.Main program window is now resizable.

Beta 5.3 2/03/2010
1. Updated user manual and help files.

Beta 5.2 1/29/2010
1. Added NMRA weight calculator.

Beta 5.1 1/27/2010
1. When importing defaulted date fields to today.

Beta 5.0 1/27/2010
1. Variation text field skipped to allow Enter key to function correctly.
2. Fixed help on structure update window.
3. Fixed help on electronics update window.
4. Changed length of address on NMRA form.
5. Added hot keys to the tabs of the both rolling stock update forms.
6. Removed the date field requirement.

Beta 4.0
1. Added checkbox to freight record - Meets NMRA weight standard.
2. Redesigned freight maintenance window.
3. Redesigned locomotive maintenance window.
4. Added scale distance calculator.
5. Added scale speed calculator.
6. Added NMRA Insurance form.
7. Added Is Deleted field to freight and loco file.
8. Added OrigRefin field to freight and loco file to match NMRA.
9. Added Is Deleted field to library file to match NMRA.
10. Added Is Deleted field to structure file to match NMRA.
11. Added Is Deleted field to electronics file to match NMRA.
12. Added field Number of Wheels to AAR Type file to be used in freight record to match NMRA.
13. Added field Variation to freight and loco record to match NMRA.
14. Added additional default fields to Preferences window.
15. Added photograph option to structure file.
16. Added condition, original/refinish, and is deleted to structures for insurance compliance.
17. Added condition, original/refinish, and is deleted to electronics for insurance compliance.
18. Added condition, original/refinish, and is deleted to library for insurance compliance.
19. Remove distributor file and fields.

Beta 3.0 12/08/2009
1. Added structure file import.
2. Added electronics file import.
3. Changed structure desc/name caption of desc/name to title.
4. Increased field length of title to 40 characters.
5. Fixed background of Out of Production checkbox on loco.
6. Fixed background of Out of Production checkbox on freight.
7. Changed Road Number to Reporting Mark.
8. Added spreadsheet export for structure data.
9. Added spreadsheet export for electronic data.

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Beta 2.2 12/4/2009
1. Corrected refresh of author code.
2. Removed field Suite from Manufacturer.
3. Removed field Suite from Distributor.
4. Added freight report w/photos for insurance purposes.
5. Added locomotive report w/photos for insurance purposes.
6. Added structure file primarily for insurance purposes.
7. Added report designer for structure file.
8. Added electronics file primarily for insurance purposes.
9. Added report designer for electronics file.
10. Added to freight record capacity, tons or gallons.
11. Added to freight record door width.
12. Added to locomotive record AAR Wheel arrangement.
13. Added to locomotive capacity, number of cars on the level.
14. Added to freight and loco checkbox "Out of Production".

Beta 2.1 11/21/2009
1. Coded the loco model Other variable.
2. Coded the loco road name Other variable.
3. Updated backup/restore in manual and help.
4. Made corrects suggest to manual and help.
5. Changed AAR graph label to type instead of short description.
6. Changed loco model graph label to model instead of short description.
7. Destination/consignee In/Out/ByProduct automatically populated.
8. Progress made on import help and user manual.
9. Progress made on library help and user manual.
10. Completed help on backup/restore.

Beta 2.0 11/20/2009
1. Added a library section with a lookup to the Library of Congress.
2. Finished all the equipment imports for each file format.
3. Added AAR type import.
4. Added Road Name import.
5. Corrected captions.

Beta 0.2 11/03/2009
1. Changed Non Revenue to Non-revenue.
2. Corrected the update window captions to match the column captions of the parent window. AAR/Model, or Model, or AAR Type where necessary. All Description captions changed to Short Desc.
3. Add the wheel drop list box to non-locomotive record.
4. File Path to Photo File Path.
5. Changed the import captions.

Beta 0.1 10/30/2009
1. Beta release.

Easy Model Railroad Inventory Home Page or Contact RCL Software

26 Contact Bob

Bob can be contacted by:
Mail:
Robert Langer

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Visit Easy Model Railroad Inventory on the Web:
http://easy-model-railroad-inventory.rclsoftware.com/

Email for:
support: support@rclsoftware.com see Help > Contact for link

Easy Model Railroad Inventory Home Page

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Service Type: Freight, Passenger, MOW, Non-revenue

Reporting Mark: _____ Road#: _____ AAR Code: ____

Coupler: _____ Trucks: _____

Details Tab:

Purchase Date: ____/____/_____ Scale: ____

Wheels/Axles: Metal, Plastic, Both

Weathered: Yes or No

Meets NMRA Weight Standard: Yes or No

Construction: _____

Routing/Operations Tab:

Available: Yes or No Print Car Card: Yes or No

Location:_____ Status:_____

Length: _____ Color:_____ Door Width: ____.____

Capacity: _____ Tons or Gallons Return To: _____

Build Date:_____/_____ Rebuild Date: _____/_____

Insurance Tab:

Manufacturer:_____ Part No:_____

Cost:_____ Value:_____

Condition: Mint, Like New, Excellent, Good, Fair

Is Deleted: Yes or No

Collectable: Yes or No

Out of Production: Yes or No

Purchased As: New or Used

Orig or Refin: Original or Refinished

Variation:

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Index

- 9 -

97 - 2003 Workbook 54

- A -

A2T column caption 124
AAR 70, 73
AAR code 115
AAR Code Graph Settings 138
AAR type 6, 60, 69, 70, 76, 78
AAR wheel arrangement 73
AAR/Model 76
Add button 15
Additional Use
  Maintenance 98
  RIP Track 98
ASCII Delimited 54
assign a locomotive 124
Assign Cars 122
Assigned to Train flag 124
assigning cars 119
Assigning locomotives 119, 124
Authors 159
auto complete 7
auto complete function 7
AV 69
Available 69, 122, 124
Average 22
Avery 8167 Return address sheets 164
Avery 8167 Spine Label 163
Axles 70

- B -

Backup 180, 181
Bar chart 138
Bar graph 138
Batch Assign Cars 106
Begins With 28
Bob Langer 197
bookmark 172
bridges 147
Build Trains 119
Button Definitions 15

- C -

cabooses 69
Calculate Length 151
Calculate speed 153
Calculate weight 153
Calculation Functions
  Length 151
  Speed 151
  Weight 151
Cancel button 15
CAP 69
Capacity 69
CAPS LOCK 7
Car cards 114
Car class color codes 114
catalog 154
Class 69
classification number 156
Close button 15
COL 69
Collectable 69
color 115
Color codes 114
column header 19
condition 69, 143
Consignee 106, 122
  Hidden 99
  Storage 99
  Visible 99
  Yards 99
Construction 69
Contact Bob 197
containers 147
Contains 28
Cost 22, 69
Count 22
coupler 69, 83
Coupler Type 83
Coupler Types 83
Credit 172, 174
Cross Reference 22
Cross Tab 22
Current condition 143

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- D -

Data backup 181
Data Element 22
Data Element to be tabulated 22
Data restore 183
Date 21
Date Shortcuts 21, 92
Datebase backup 181
Dbase 3 54
Dbase 4 54
DCC 73, 145
Default AAR Types 78
default filter 96
default Internet browser 172
Default Road Names 85
default sort 18
Default window position 10
DEL 69
Delete button 15
Deleted 69
Departure Time 119
Destination 122
Destinations
  Hidden 99
  Storage 99
  Visible 99
  Yards 99
Detail part 169
detail parts 149
Development History 186
Dewey decimal 161
Dewey decimal system 161
digital 172
digital command control 145
digital pictures 172
Distributor 69
Do Maintenance Check 92
Does Not Begin With 28
Does NOT Contain 28
Door Width 70
downloaded 172
DW 70

- E -

Edit button 15
Engine Type 73
Equal To 28
Error codes 184
Error messages 184
errors 156
Excel 2007 54
export 65
extra 119

- F -

F1 key 15
Fast Clock 133
Favorite 172
Favorite Internet sites 172
Favorite pictures 174
Favorites 172
Figures 169
filter 92, 96
Flat ASCII 54
freight cars 69

- G -

Getting started 6
Graph 138
Graph AAR Distribution 139
Graph Equipment Service 140
Graph Freight by Railroad 139
Graph Locomotive by Railroad 142
Graph Locomotive Model 141
Graphing 138
Greater Than 28

- H -

Help button 15
Hide ID Number when printing Car Card 115
History 92, 96, 186
HTML export 65

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- I -

imperial 151
import 63
Importing your library 64
inches 151
industry 106
Initialize Equipment 63
Internet 172
Internet browser 172
Internet Explorer 172
Is Deleted 69
ISBN 156
Item 143

- K -

kit built 147
kit-bashed 147

- L -

Length 70
Length Wizard 151
Less Than 28
library 154, 155, 164
Library of Congress 154, 156, 161
library resource 164
Library Resources 155
library-cataloging 154
Line chart 138
Line graph 138
location 69, 122
location type 122, 124
Loco Model 69
Locomotive Graph Settings 138
Locomotives 69, 136
lookups 17

- M -

Maintain Consignees 99
Maintain Destinations 99
Maintain Industries 112
Maintain Industry Products 112
Maintain Library Resource 160
Maintain Library Resources 155
Maintain Products 112, 114
Maintain Shippers 110
Maintain Trains 122
Maintain Yards 99
maintenance 96
  History 92
  Locomotive 92
  Preventive 92
  Rolling Stock 92
  Scheduling 92
  Tasks 92
maintenance schedule 96
Maintenance View/Print 96
Manufacturer 69, 83
Manufacturer part number 69
Manufacturers name 143
Manufacturers number 143
MARC 156
MARC function 154, 156
megabytes 91
Model 69, 73
Model railroad operations 98
model train show 54
movies 172
MOW 69
MS Excel 54
Multiple Pages 125
MWS 70

- N -

NMRA 76, 98, 99, 110, 112, 114, 143
NMRA Instructions 143
NMRA Insurance Form 164
NMRA Operation SIG 76, 98, 99, 110, 112, 114
NMRA Operations SIG site 6
NMRA weight standard 153
NMRA weight standards 70
non-revenue cars 69
'Not Done' 92
Note 69, 76
Number of Wheels 76
NW 76

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- O -

Official Railroad Equipment Register 70
OOP 69
Operating using car cards 114
Operating using waybills 114
Operating your model railroad 98
Operation 98
Operations 106, 119, 122, 136
OR 69
ORER 70
Original 69, 143
Original or Refinished 69
Out of Production 69
Outlook style menu 9

- P -

PA 69
paint 149
parameters 133
Pareto chart 138
Pareto graph 138
part number 69
Parts 169
passenger cars 69
Pause 133
percent of Total 22
personal information 6
photograph 69, 91
photographs 91
pickups 122
Picture button 15
pictures 172
Pie chart 138
Pie graph 138
pixels 91
Planning 166
power drills 149
Preferences 6, 92, 115
Print Schedule 125
Print Spine Labels 163, 164
Print Switch List 135
Printing Car cards 114, 115
Printing Waybills 114, 117
Process Train 136
progress percentage 166
project description 166
project end date 166
Project Planning 166
Project Report options 170
project start date 166
Project Steps 166, 169, 170
Protecting your data 181
Prototype 69
Prototype Note 69
publisher 160
Purchase date 69
Purchased As 69

- Q -

query 172
Query Button 28
Query Designer 28
Quick List 170
Quick List button 15

- R -

railroad names 6
Railroad System Class 70
Refinished 69, 143
Report Designer 42
Reporting Mark 60, 62, 69, 70, 73
Reports 8
resource 164
Resources 155
Restart 133, 134
Restore 180, 183
Road Name 143
Road Names 84, 85
Road number 62, 69, 70
Robert Langer 197
Rolling Stock 136

- S -

Save button 15
Scale 69
scale people 149
schedule 119
scheduled 119

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Scheduling 119, 136
scratch built 147
Select button 15
Service type 60, 62, 69, 70, 76, 122, 124
set outs 122
Shipper 110
Short Description 76
Shortcuts 21
show 54
Show List 54
side axis 22
Side Axis Element 22
signals 147
Single Page 125
SOU 73
Sound 73
Special Interest Group 76, 98, 99, 110, 112, 114
speed 153
Speed Wizard 153
Spine Labels 164
spray booth 149
spreadsheet 35
standards 70
Start button 133
Start Time 133
Status 69, 90
status bar 133
Status Options 90
Steps 166
stop number 122
stop number order 135
Stop Watch 134
Storage 122, 124
structures 147
Subject 172, 174
Switch List 135
System Class 70

- T -

Tabulation Filter 22
Time Order 125
timetable 119
title page 156
tools 149
top axis 22
trailers 147
Truck 69, 90
Truck Type 90
Truck Types 90

- U -

URL 172
USB drive 172
Use Color for Car Cards and Waybills 115

- V -

valid car 122
valid location 122, 124
Valuation Sheet 143
Value 22, 69, 143
Variation 69, 143
vehicles 147, 149
Version History 186
View Designer 18

- W -

waybills 114, 117
WEA 69
Weathered 69
Web Site 172
Weight 70, 153
weight standards 70
wheel 73
wheel arrangement 73
Wheels 70
Wheels and Axles 70
Window position 10
Wish List 171
Wizard 151

- Y -

yard 106
Yards 99

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Back Cover