WinSLAMM v 9.4
User's Guide

New Features

This User's Guide shows only the updated or new features available in Version 9.4.

Start-Up Hints

Press F1 on any screen within the program to see the corresponding Help File Topic

Throughout this User's Guide, the text in red walks you through the program

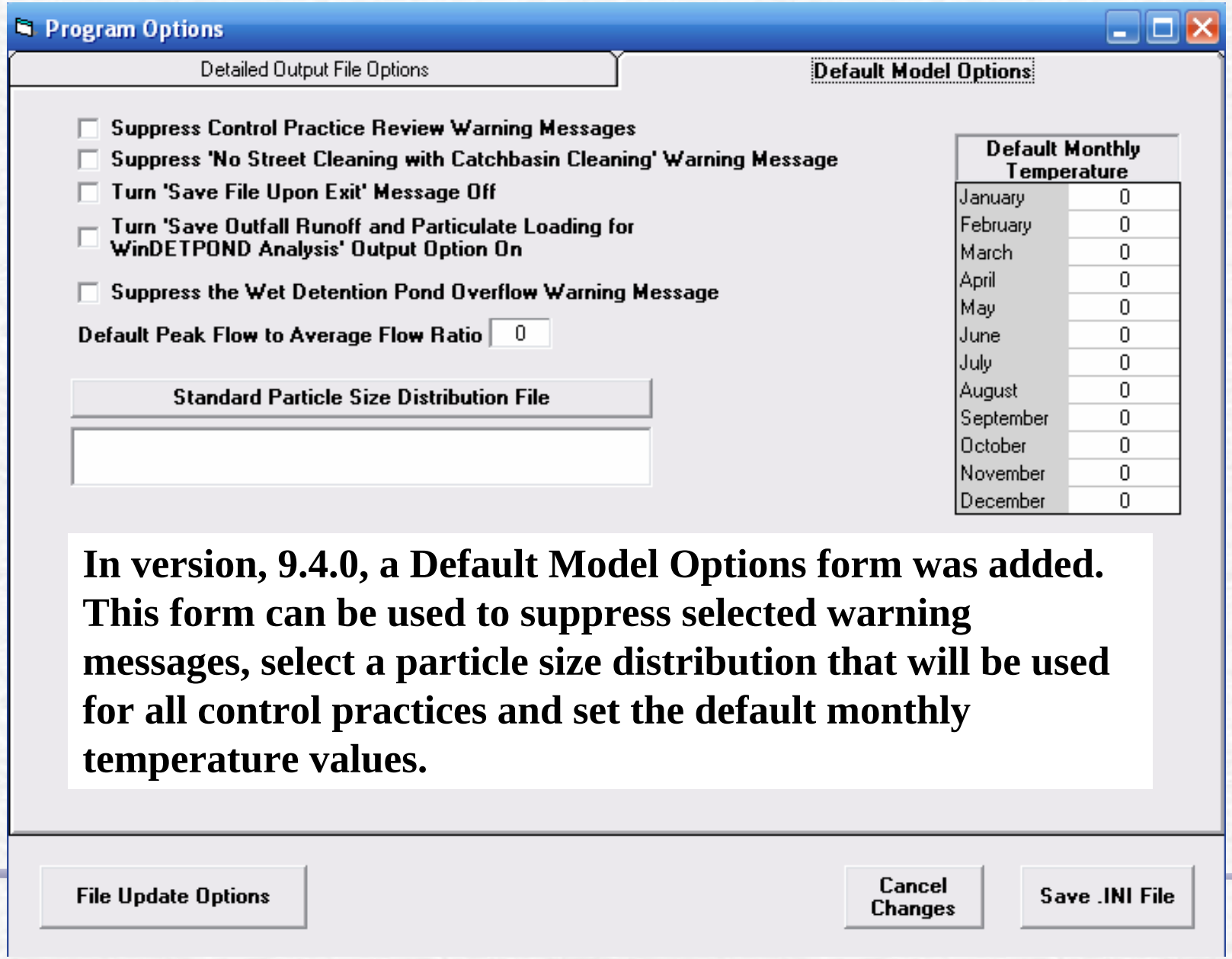
The User may need to press Enter in various input screens to activate the next data input

Summary of New Features

- Default Model Options - Added
- Saving to an Earlier Version - Added
- File Update Options – Automatically updates v 9.0 – 9.3 files to v 9.4
- Detailed Output Options – Additional output added for various control practices
- Lamella Plates – Added to the Hydrodynamic Control Device and the Catchbasin Control Device
- Wet Detention Pond to Biofiltration Routing – Added (hydrograph and particle size distribution)

Default Model Options

Default Model Options



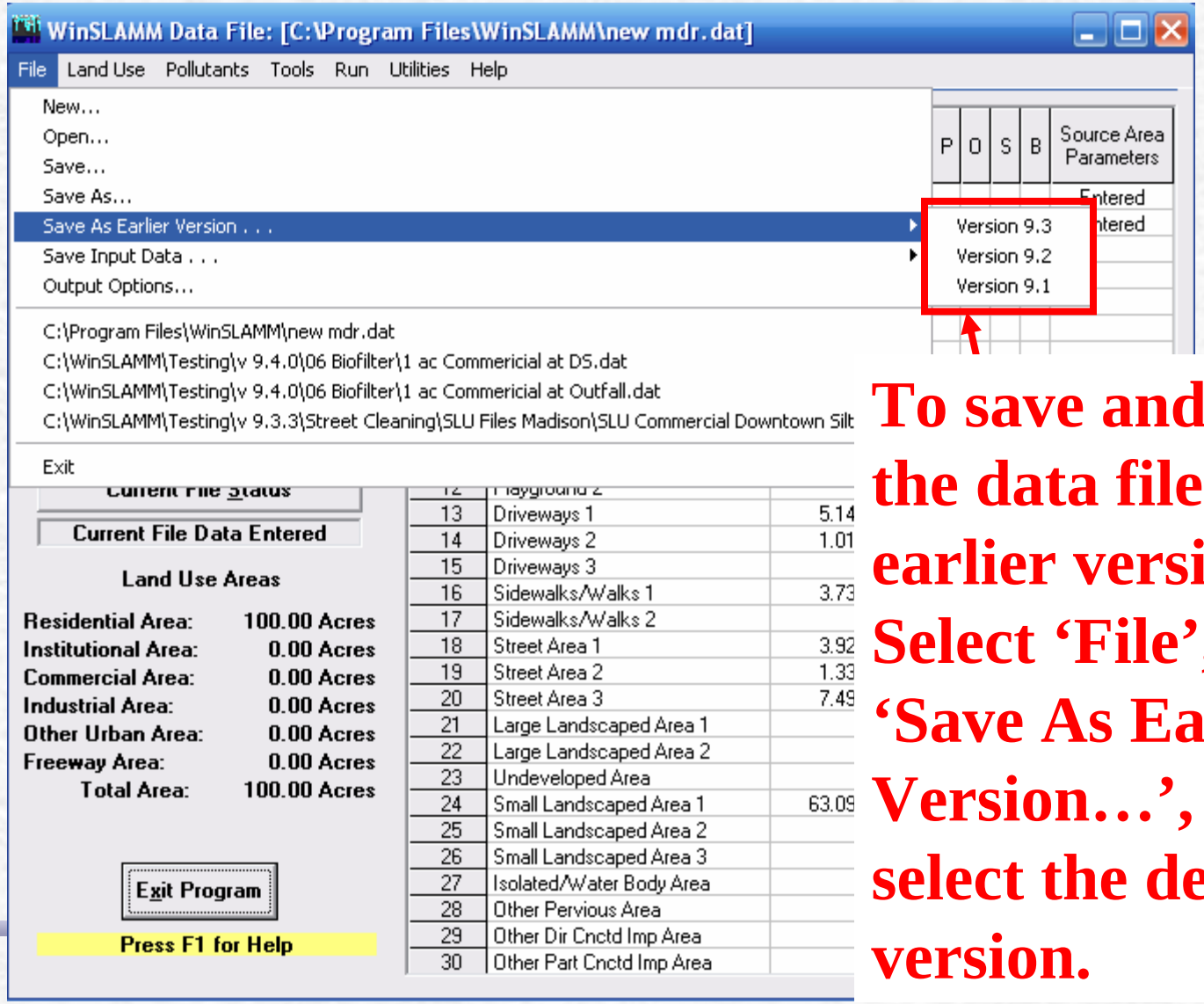
In version, 9.4.0, a Default Model Options form was added. This form can be used to suppress selected warning messages, select a particle size distribution that will be used for all control practices and set the default monthly temperature values.

Saving to an Earlier Version

New

Saving Down to an Earlier Version

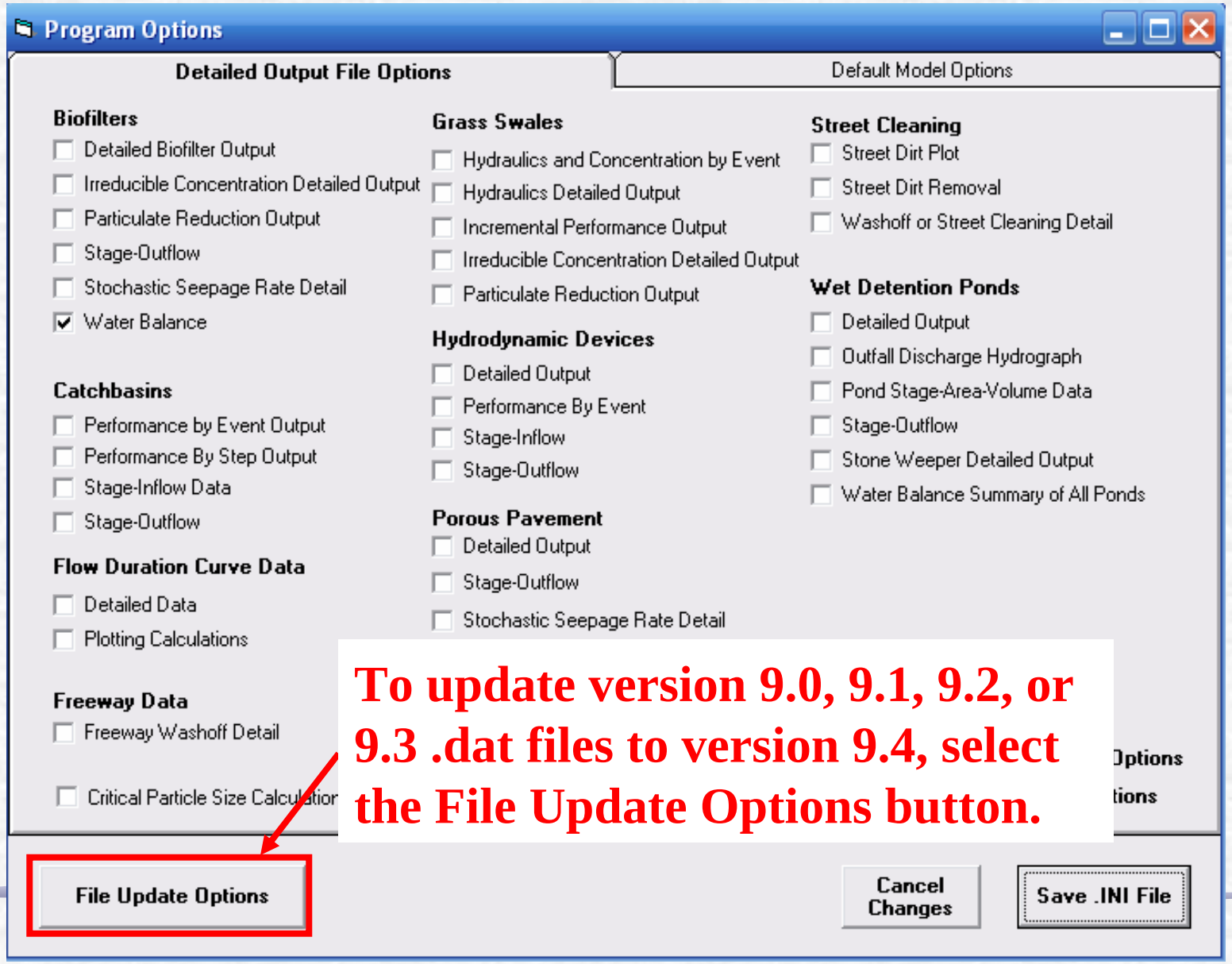
New



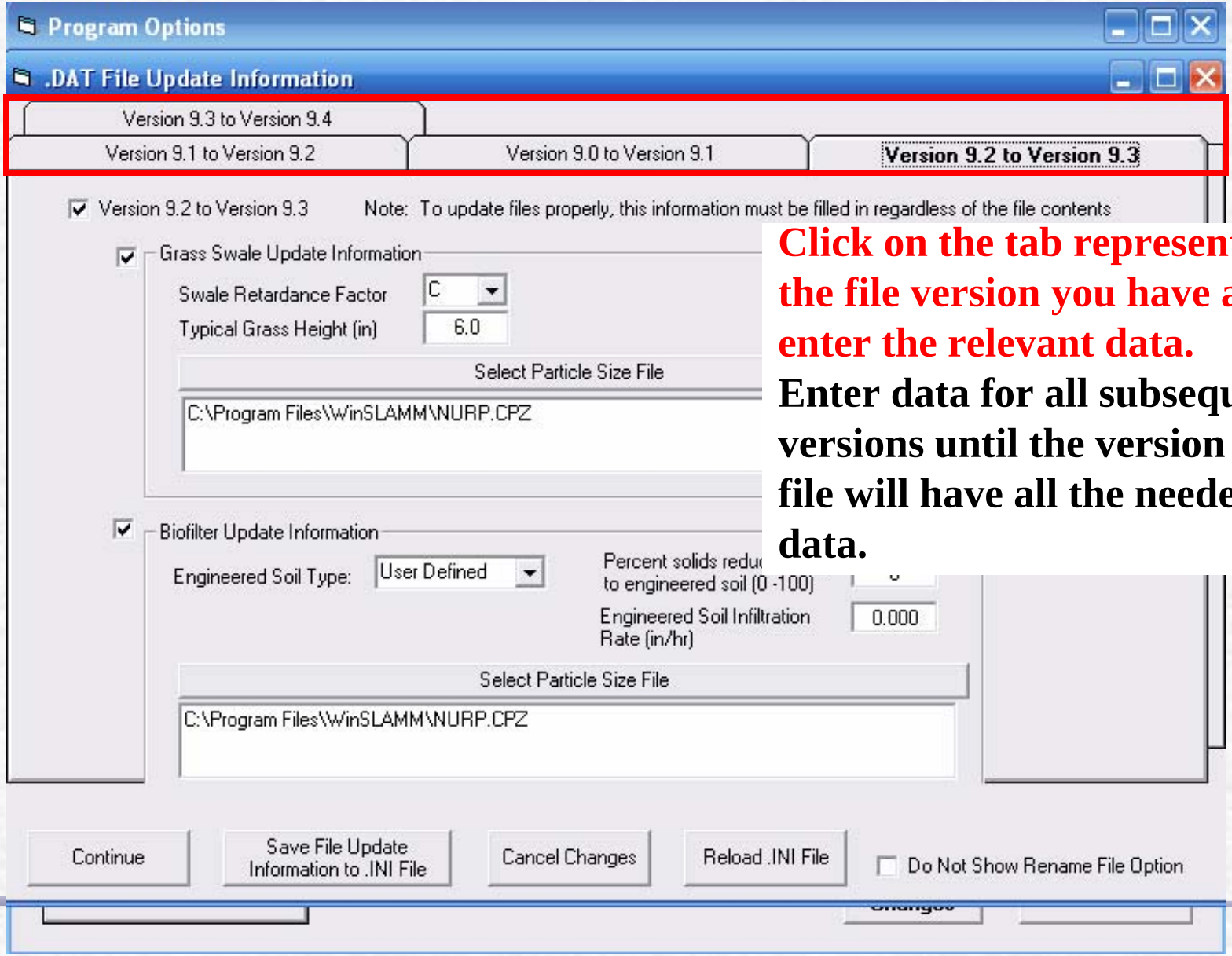
To save and run the data file in an earlier version, Select ‘File’, then ‘Save As Earlier Version…’, then select the desired version.

File Update Options

File Update Options



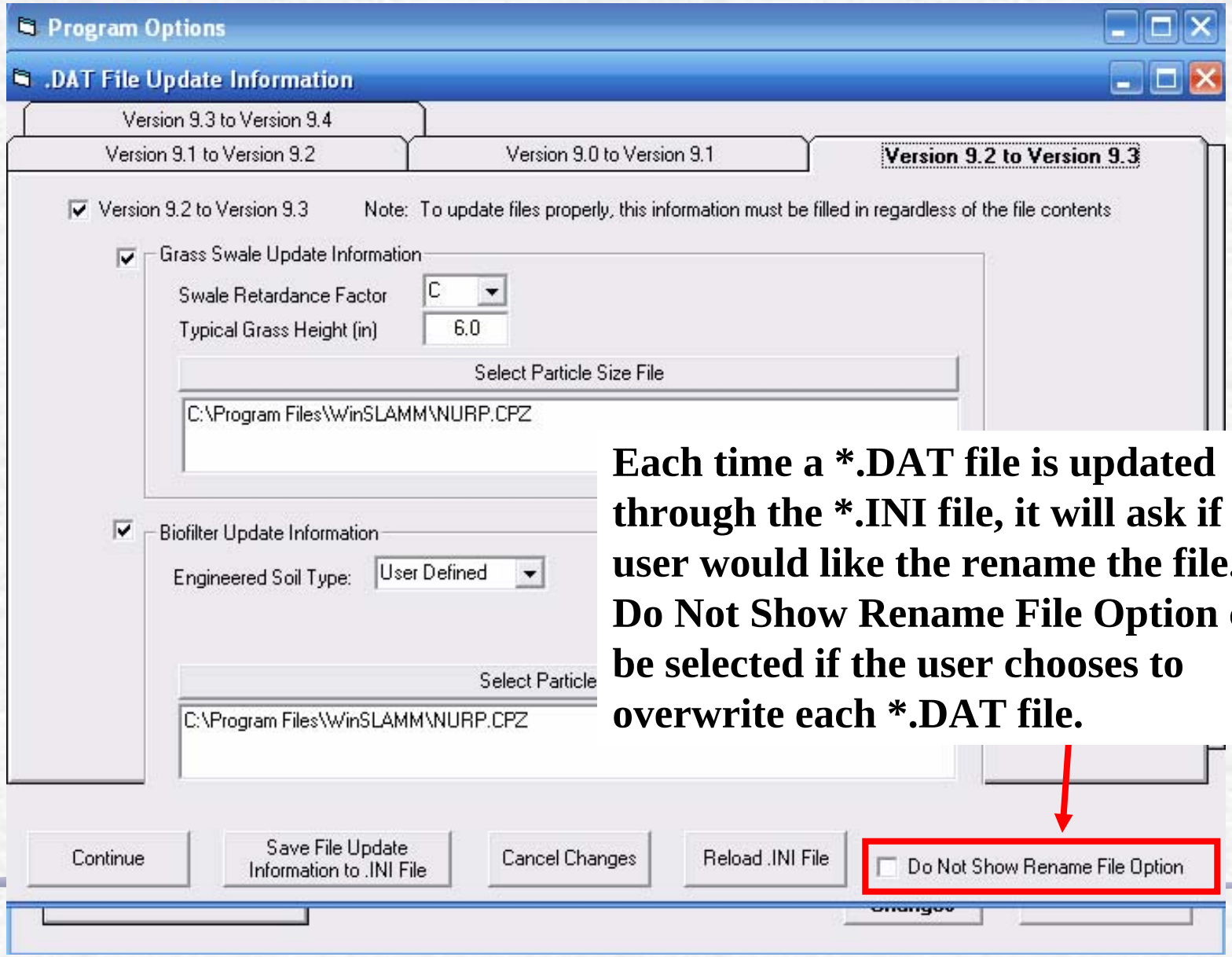
File Update Options



Click on the tab representing the file version you have and enter the relevant data.

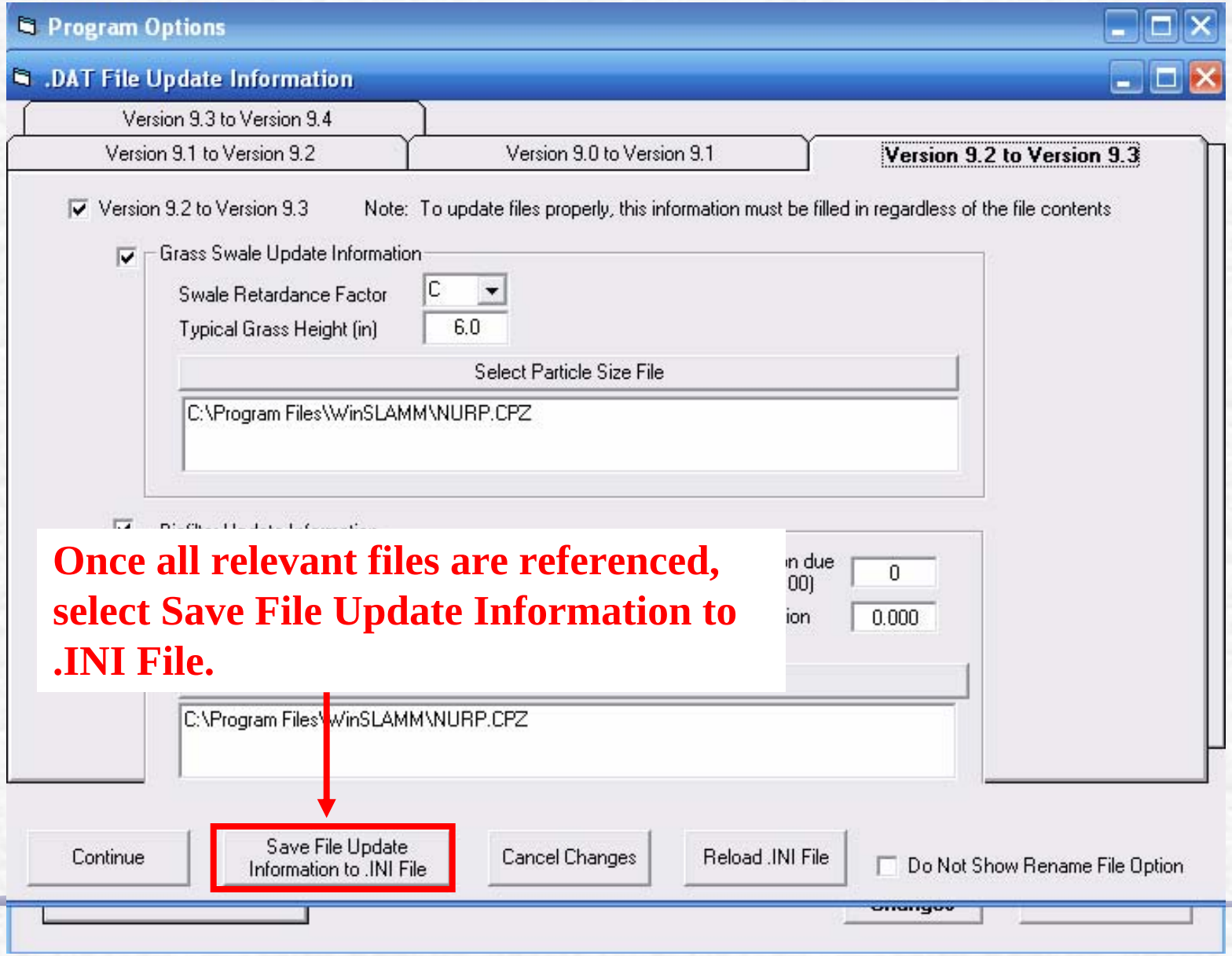
Enter data for all subsequent versions until the version 9.4 file will have all the needed data.

File Update Options

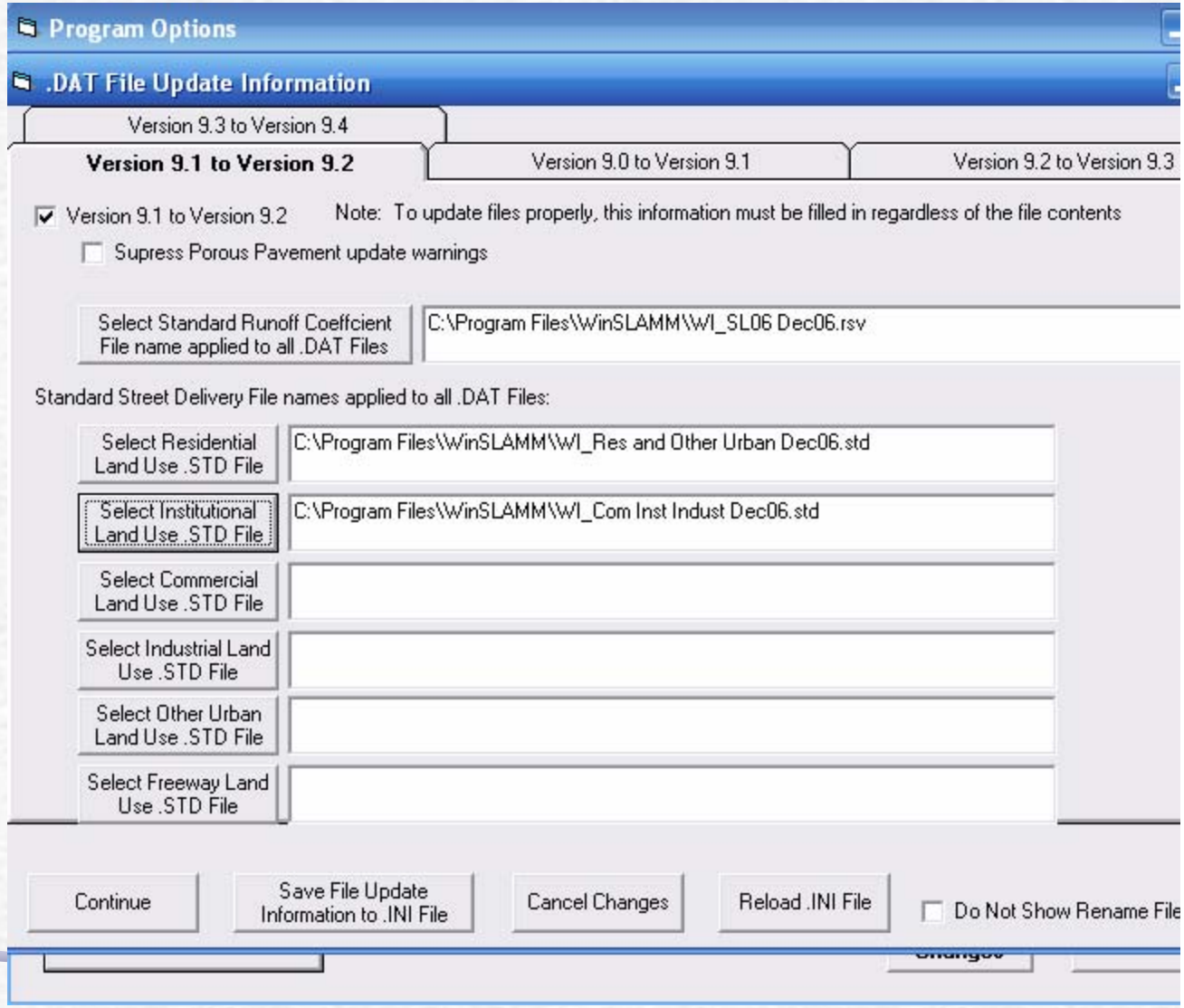


Each time a *.DAT file is updated through the *.INI file, it will ask if the user would like the rename the file. The Do Not Show Rename File Option can be selected if the user chooses to overwrite each *.DAT file.

File Update Options



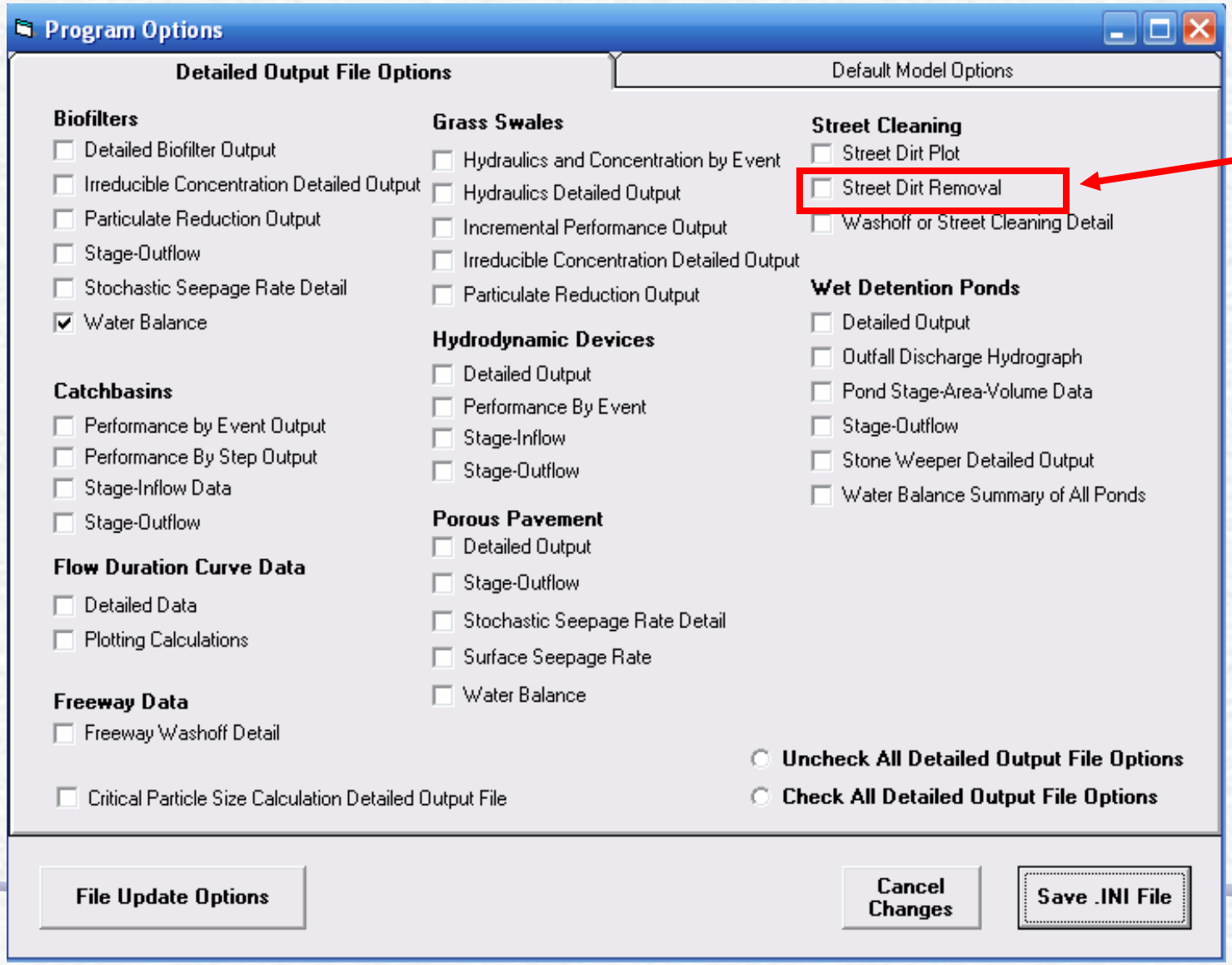
File Update Options



An *.INI file was distributed with the latest version of WinSLAMM containing all the updated default parameters. Therefore, unless there is a special situation, the user should not have to modify these files. This slide shows some of the files specified in the distributed *.INI file. See the "Updating .dat Files" Help File Topic for more information.

Detailed Output Options

Detailed Output Options for Control Devices



Select the Detailed Output needed by checking the box next to the output.

The Output List has been updated for version 9.4.0.

Lamella Plates

New Hydrodynamic Device New

Hydrodynamic Device

Land Use: Residential
Source Area: Roofs 1
Device Number 1

Hydrodynamic Control Device General Information - Enter for Both Single Chamber and Proprietary Devices

Total Source Area (ac)	2.06
Area Served by Device (ac)	2.06
Number of Devices	1
Device Density (units/ac)	0.500

Select Critical Particle Size file name:
C:\Program Files\WinSLAMM\NURP.CPZ

Model Hydrodynamic Device with Lamella Plates or Settling Tubes

Fraction of device area with plates or tubes	0.80
Average tube diameter or distance between plates (ft)	1.00
Number of plates or tubes a vertical line will intersect	3

For Device Cleaning, Select Either

Device Cleaning Dates

Device Cleaning No.	Device Cleaning Date (mm/dd/yy)
1	
2	
3	
4	
5	

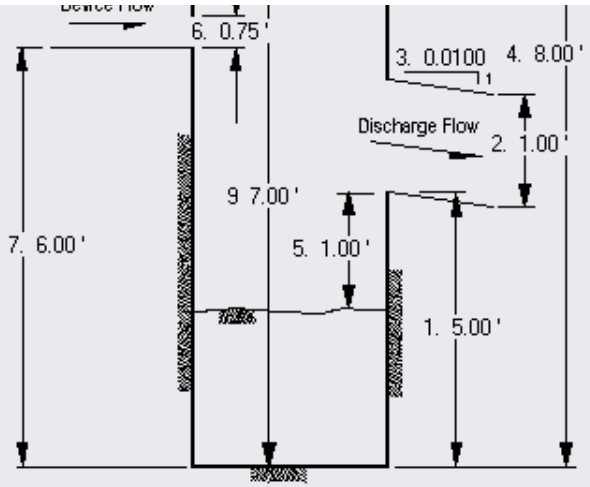
OR

Device Cleaning Frequency
- Monthly
- Three Times per Year
- Semi-Annually
- Annually
- Every Two Years
- Every Three Years
- Every Four Years
- Every Five Years
- Never

Lamella plates can now be modeled using version 9.4.0.
Enter the data describing the plates.
A schematic is available in the Help File to illustrate each data value.

Single Chamber Device Characteristics

Typical Device Sump Surface Area (sf)	28.0
4 - Device Depth from Sump Bottom to Street Level (ft)	8.00
Inflow Hydrograph Peak to Average Flow Ratio	3.8
5 - Minimum Allowable Scour Depth Below Outlet Invert (ft)	1.0
Maximum Flow to In-Line Sump (cfs)	N/A - Click to Activate
6 - Diameter of Orifice that Controls Flow to In-Line Sump (ft)	0.75
7 - Inflow Orifice Invert Elevation (ft)	6.00
8 - Length (ft) of Overflow Structure Acting as a Sharp-Crested Weir	5.00
9 - Elevation of Overflow Structure to Bypass In-Line Sump (ft above sump base)	7.00

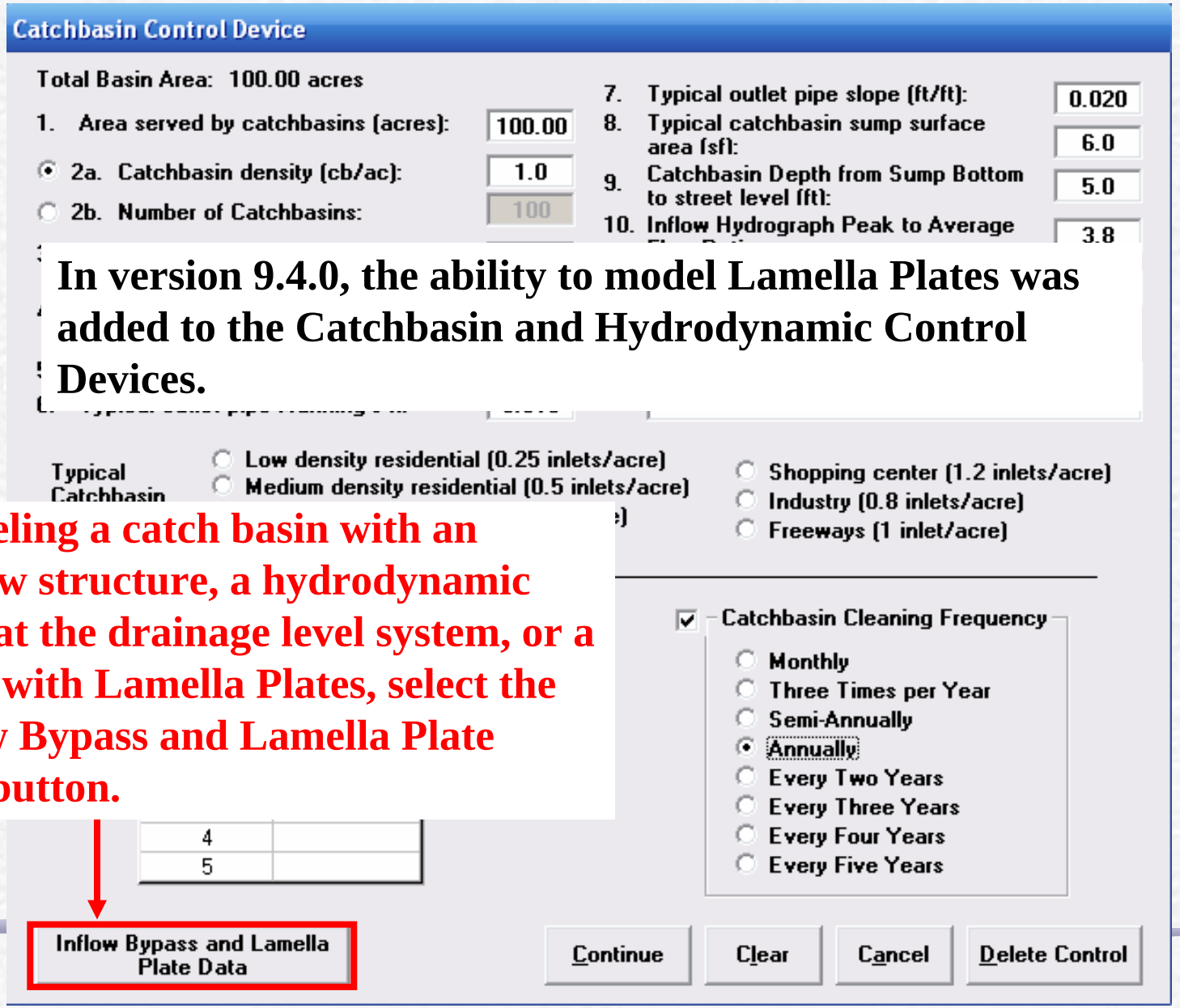


Or Use Proprietary

Device Outlet Invert (ft)	
Depth of Sediment in Device at Beginning of Study Period (ft)	
2 - Typical Outlet Pipe Diameter (ft)	
Typical Outlet Pipe Manning's n	
3 - Typical Outlet Pipe Slope (ft/ft)	
Inflow Hydrograph Peak to Average Flow Ratio	
5 - Minimum Allowable Scour Depth Below Outlet Invert (ft)	
Device Sump Surface Area (sf)	

Delete Control | Cancel | Continue

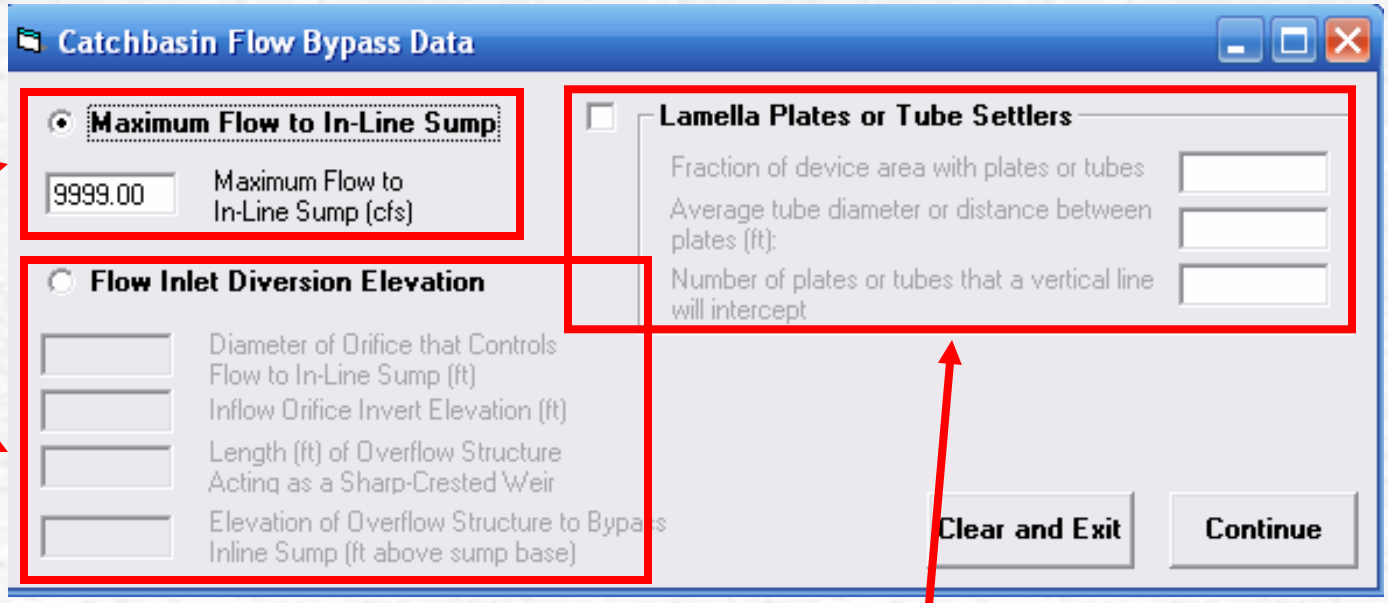
Catchbasin Control Device



Catchbasin Control Device

The data required for this control device when using the bypass is the same data required for the hydrodynamic device.

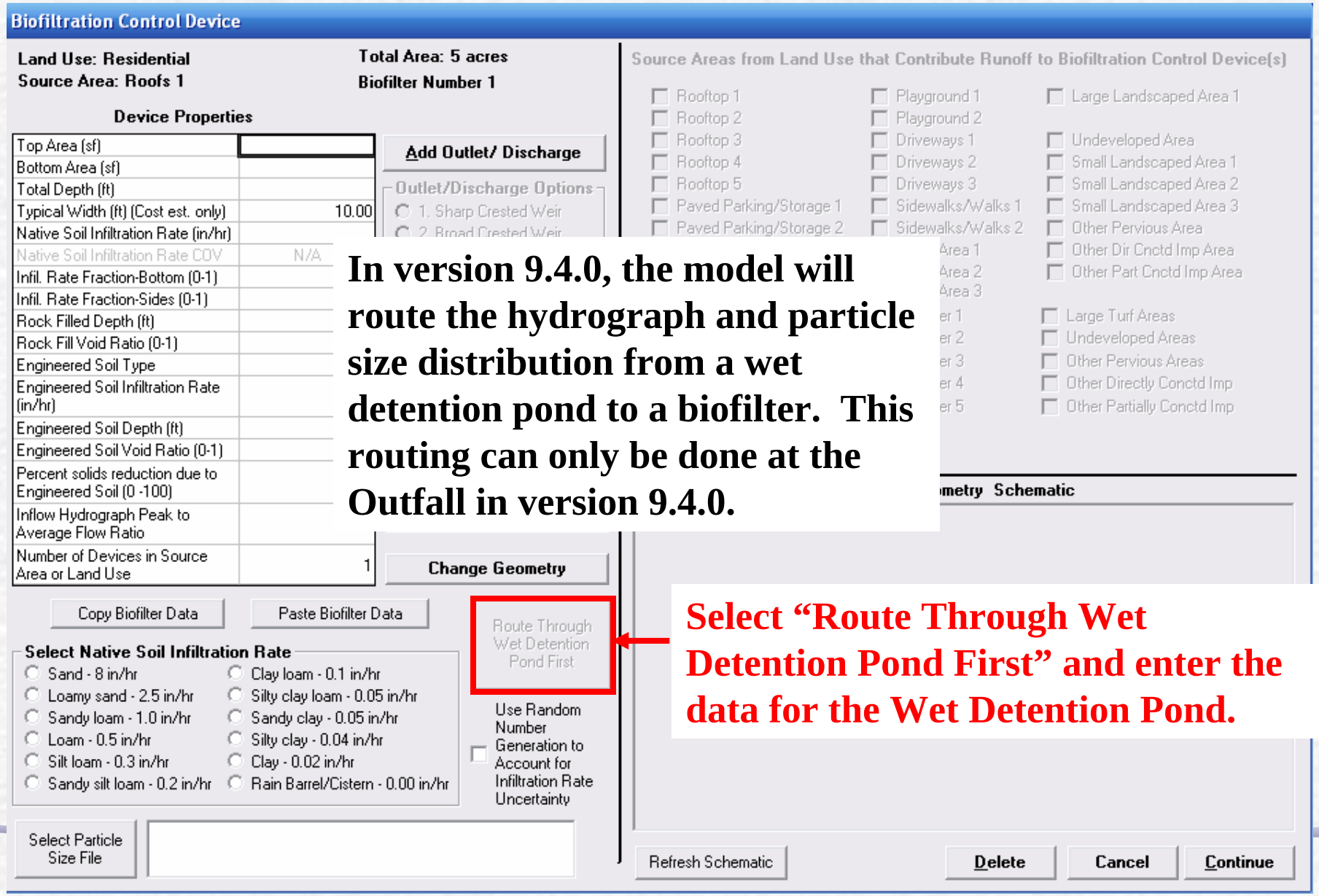
Enter the Maximum Flow to the In-Line Sump if known.
Or enter the characteristics of the diversion and the program will calculate the maximum flow.



Enter the data for the Lamella Plates if relevant.

Wet Detention Pond to Biofiltration Hydrograph and Particle Size Routing

Biofiltration Control Device

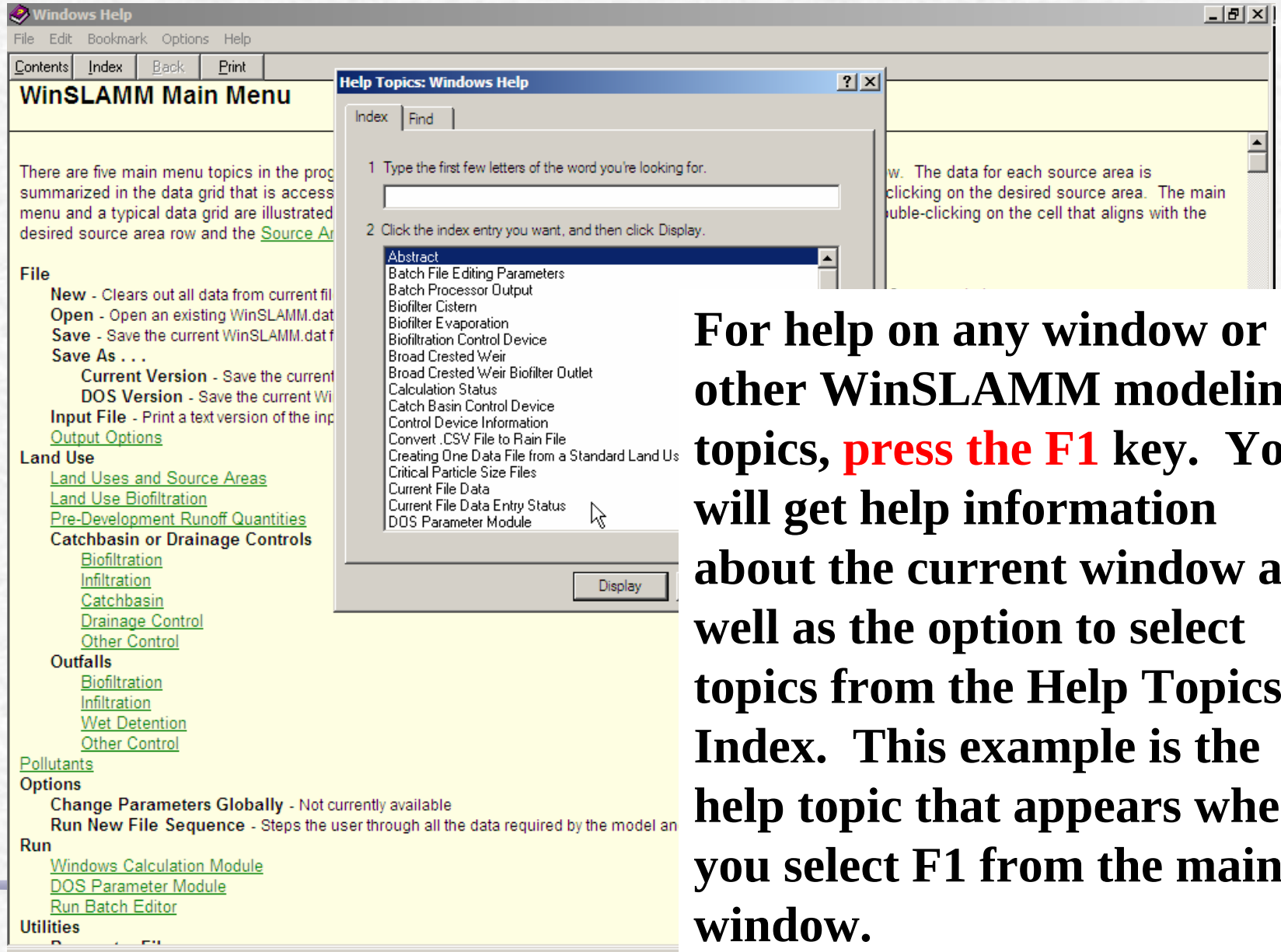


In version 9.4.0, the model will route the hydrograph and particle size distribution from a wet detention pond to a biofilter. This routing can only be done at the Outfall in version 9.4.0.

Select "Route Through Wet Detention Pond First" and enter the data for the Wet Detention Pond.

For Additional Information See . . .

The Context-Sensitive Help in the Program



For help on any window or on other WinSLAMM modeling topics, press the F1 key. You will get help information about the current window as well as the option to select topics from the Help Topics Index. This example is the help topic that appears when you select F1 from the main window.

Model Documentation Included on the CD

- WinSLAMM Introduction and Basics
- Integration of Water Quality and Design Objectives
- Sources of Stormwater Pollutants
- Stormwater Quality Controls in WinSLAMM
- Using SLAMM
- Biofiltration Example
- Detention Pond Design
- National Stormwater Quality Database (NSQD, version 1.1)