



WISE Release 2.0.2
November 7, 2003

WISE Users,

WISE Version 2.0.2 continues the changes that were begun with WISE 2.0.1. All functionality has been returned to the Closed Inventory, and we think you'll be impressed with the faster processing time for merges and QA functions in this module. We've also been working on adding enhancements that were submitted to the WISEbugs database. If you haven't tried submitting requests for new features through the streamlined web site, you're missing a great opportunity. Try it at www.watershedconcepts.com/software/Support/Request.html

Projected Coordinate System added to Project Options

This version of WISE requires you to specify the Projected Coordinate System for each WISE project on the Project tab of Project Options. When you set up a new project in Project Options, you'll need to identify the Projected Coordinate System for the project. If your WISE license includes geographic limitations (you can only work in a specific area) or if you change Project Options or set up a new module for an existing project, you'll be prompted to specify the Projected Coordinate System. However, if you don't have any geographic limitations and don't make any changes in Project Options, you can continue to work on an existing project without completing this step.

For example, if you are working on the North Carolina Floodplain Mapping Project and need to change Project Options, you would select **NAD 1983 StatePlane North Carolina FIPS 3200 Feet** from the middle of the list. (Be careful to not to select the nearly identical option that is based on metric measurement.) All of the tutorials available on the web site are set up to use this projection as well.

Converting Projects from 2.0.x and 1.9.x

As was the case with WISE 2.0.1, we've built in an automatic conversion that starts as soon as you select a project built with previous versions. If you're converting a project from 2.0.0 or 2.0.1, you'll be asked if you want to convert the project and presented with the option to create a backup copy of the project. If you're converting a project from 1.9.x, then a backup copy of the project will automatically be created in the project folder (by default). The converted project will open in the plan view.

After the conversion, you should re-create the photo and Approximate Structures shapefiles and all shapefiles for Closed Inventory or Open Inventory projects.

Here's how to re-create your shapefiles.

1. Open the project in WISE 2.0.2. When the Project Conversion prompt is shown, click Yes to convert the project. Note that conversion was successful.
2. To re-create shapefiles, click File and then click Project Options. Click the tab for the Closed Inventory or Open Inventory or Hydraulics module.
3. In Closed Inventory or Open Inventory, click the Setup Shapefiles button and click Yes. Replace all existing shapefiles.
4. In Hydraulics, click the open folder beside the Approximate Structure shapefile. Select the shapefile and click Yes.

New Features by Module

A summary of new features in 2.0.2 by individual module follows these general notes.

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General

- The symbol properties form has been enhanced in several ways.
- When placing a profile along a transect using the general profile tool, the first plotted point will be at station 0 and will be saved as such in the shapefile.

Closed Inventory Module

- The merge routine has been rewritten to coincide with the new database structure for Closed Inventory. The new merge routine considers the most recent ChangeDate in determining which record for a feature is more current, except for deleted features. The user can specify how to handle deleted features. WISE now ensures that there are no dangling stubs, pipes, or channels if a node is deleted.
- Full functionality has been restored to this module.

Open Inventory Module

- Average rail height and the elevation for the top of rail is now calculated during import of Total Station data, if the shots are present.
- Rails now display properly for bridges, culverts and dams.
- A new feature has been added for batch editing datum text.
- For bridges without TOE shots, a Fill Station value of +/- .1 from the Abutment Station is provided for the Bridge Attributes and Reports.
- Sketches can now be either .jpg or .bmp files and can be enlarged.
- Arched decks for bridges are now displayed in the structure viewer.
- When the user enters the stream name for structure attributes, the stream name is automatically added to associated cross sections.
- If USSTRUCT and DSSTRUCT codes are used for a bridge, culvert, or dam, WISE will now use the midpoint of that line for the northing and easting centerline coordinates. These coordinates are copied to the field and TOR cross sections. If one or more pipelines are included in a bridge or culvert survey, they also get the same x and y coordinates as the bridge or culvert.

An individual pipeline survey has its midpoint calculated based on the PL shots.

If the USSTRUCT or DSSTRUCT codes are missing, the shape that the user draws is used to find the midpoint. For surveyed cross sections, only the points in the plan view are used.

- In exports to the North Carolina database, the shape of piers is now being exported, the structure length of culverts and bridges is being calculated, and the orientation for text fields is set to "DS" as the default.

Hydrology Module

- When importing a gridded land use set of data for a TC rating curve, WISE now updates the existing table with imported values. This retains the existing userID for each land use.

Hydraulics Module

- When basin connectivity is run, key problems are identified and displayed.
- The automatic cross section placement tool has been significantly improved to increase the number of cross sections successfully placed.
- Create Floodway Markers now places floodway tics at structure-related cross sections. The minimum floodway width and search tolerance can be specified.
- The overbank calculation routine now works with detailed models. The user will need to select the model type (Detailed/Approximate) and the width of the structure will be retrieved from the appropriate table in WISE.
- The origin of the y-axis in the FEMA-style profile can now be adjusted between one and four inches with the default value of two inches.

Water Quality Module

- The Water Quality module now is fully functional to work with the WinHSPF modeling software. The menu has been reorganized to lead the user through the process of preparing and exporting files for use in WinHSPF and then importing them for viewing.
- Added tool to create a BMP shapefile automatically.