



WISE Release 2.0.7
July 27, 2004

WISE Users,

WISE Version 2.0.7 is the newest release of WISE to be distributed to users and installed on Citrix. WISE 2.0.7 has some powerful new features particularly in the Scoping and Hydraulics modules. These release notes describe what's new in WISE since WISE 2.0.3 and information on upgrading existing WISE projects.

Upgrading to WISE 2.0.7

If you are using a stand-alone installation of WISE, you should uninstall the previous version and then install WISE 2.0.7. You will need to produce a new .rgf file and obtain a new .rgg to get the full functionality of this version, but you can use a previous password file to retain previous users and teams. Refer to Getting Started with WISE for instructions on installing, registering and configuring WISE.

If you are using WISE through Citrix, you can log in as usual.

Converting Projects from Previous Versions

The automatic conversion starts as soon as you open a project built with previous versions. If you're converting a project from 2.0.x, you'll be 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, historical interview and Approximate Structures shapefiles and all shapefiles for Closed Inventory or Open Inventory projects. You should also re-create all created shapefiles Scoping projects.

1. Open the project in WISE 2.0.7. When the Project Conversion prompt is shown, click Yes to convert the project. Note that conversion was successful.
2. If you are working with a Closed Inventory, Open Inventory, Hydraulics or Scoping project, go to Project Options.
3. To re-create Closed Inventory or Open Inventory shapefiles, 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.
5. If you are working with a Scoping project, go to the Tools menu, select Study Settings, click the Setup Shapefiles button on the Created Shapefiles tab. Click Yes to All to replace all existing created shapefiles.

New Features by Module

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

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New Features in WISE

Documentation Updates

Download documentation from

http://www.watershedconcepts.com/software/documentation_general.html

- Getting Started with WISE and the WISE online Help can now be opened from the Start menu under the WISE program. Getting Started with WISE walks you through installation and setting yourself up as a user (for either a stand-alone or Citrix installation). The WISE online Help is organized as individual topics that describe what you can do and the steps to do it.
- Survey Manual – addition of an optional downstream cross section for bridges, culverts and dams.

Terrain Module

- A new tool has been added to display flow vectors as arrows. The tool creates flow vector arrows with color coding by direction and allows them to be tuned on or off.
- New functionality has been added to create contours from TINS. Upon input of contour interval, minimum area, and selection of an output folder and major grids, a shapefile containing contours is created.

Closed Inventory Module

- Creation of an Approximate Structure for culverts has been enhanced to provide a 'list' of validations. Each validation now includes the data field label to assist with identification and correction of the error.
- The precision of the N-value input for Calculating Pipe Capacities has been increased from two decimal places to three decimal places.
- An option to work in Inventory Manager mode has been added to the Project Options for the Closed Inventory tab.
- Selection of a Channel Shapefile in Project Options will now add it to the planview.

Hydraulics Module

- The ability to create closed polyline flood boundaries is now an option for Flood Boundary Mapping. Both closed and unclosed polylines are written to a .dxf file.
- A new tool called HydraMAX, an XML based hydraulic model editor, has been added. Both the detailed and approximate model builder forms in WISE can be used to create HydraMAX models. The HydraMAX editor is used for fine-tuning of the model before it is exported to a HEC-RAS project.
- Rural regression equations for the entire United States can now be chosen when creating Hydraulic models.
- New Cross Section shapefiles in WISE are created with a "BY_" field instead of a "By" field to avoid reserved word compatibility issues with ArcMap.

Scoping Module

- An automatic compact and repair of the Scoping database is now done on each project upgrade.
- Functionality has been added to export scoping data to a Microsoft Access database (.mdb).
- The Import Repetitive Loss tool has been enhanced to allow the user to import selected data by relating fields from their Repetitive Loss Database to our Scoping Repetitive Loss table.
- A 'Hydro Reach' tool has been added to identify flooding sources by user-defined area. This polygon reach tool assists the user in recording reach study requests for alluvial fan areas, lacustrine areas, and areas for which stream and coastal reaches need to be defined but the source stream shapefile does not include segments for the flooding source.
- A 'Basin Reach' tool has been added to define study requests by basin area. The Basin Reach tool is used when there are no distinct stream channels.
- Switching between studies on the Planview no longer resets theme settings.
- A tool has been added to enter MNUSS data related to map panel maintenance needs. The MNUSS Map Maintenance tool intersects the community boundary file with a DFIRM Map Panel file and presents the user with a list of community panels for MNUSS Map Maintenance Update need definition. Study Settings has been enhanced to accept a DFIRM Map Panel File for use with this tool.
- Functionality has been added to enter MNUSS data related to flood data update needs. This feature is available from the Reach Information form. It automatically intersects a user defined reach with a DFIRM Map Panel file to identify map panels that are affected by the reach. Study Settings has been enhanced to accept a DFIRM Map Panel File for use with this tool.
- The Ordinance Details form for the Ordinance Checklist has been enhanced to allow the reference of electronic copies of ordinances. Referenced files can be packaged for Upload from Satellite or Download to New Satellite.
- The Add LOMC tool has been enhanced to collect information on LOMC Type, Effective Date, Panel, and other attributes. An electronic LOMC report can also be referenced. Referenced LOMC reports can be packaged with the Upload from Satellite or Download to New Satellite tools.
- An "EffDate" field has been added to reach shapefiles attributes to enable theme rendering based on effective date.
- Study Settings has been enhanced to allow multi-state capacity.
- Study Settings has been enhanced to include Study Options for Area reaches.
- Study Settings has been enhanced to allow the user to specify which sets of created shapefiles will be required and set up for a scoping study.
- Validation on Study Settings has been enhanced to alert the user if their selected source Stream Shapefile has null shapes, multi-part shapes, and the correct data type for the stream name field. The enhanced validation now displays a detailed error list that shows which records are causing the error and includes print functionality.

- Validation on Study Settings has been enhanced to alert the user if their Panel Shapefile has null shapes, the correct data type for the CoFips field, and null values for CoFips. The enhanced validation now displays a detailed error list that shows which records are causing the error and includes print functionality.
- Validation on Study Settings has been enhanced to alert the user if the Community Shapefile has null shapes, invalid CID values (must be 4-6 characters), an incorrect data type for the community name field. The enhanced validation now displays a detailed error list that shows which records are causing the error and includes print functionality.
- The Modify Reaches form has been enhanced to improve workflow.
- The Download to New Satellite functionality has been optimized to increase performance, ease of use, and to allow creation of a scoping package (.ncz file extension). The scoping package includes a new satellite project and copies of all the files referenced to the study. When the .ncz package is opened all referenced files selected for inclusion in the package will be remapped and theme settings will remain intact. Download to New Satellite should be used to make a working satellite copy of your study.
- The Upload from Satellite tool has been optimized to increase performance.
- A utility has been added to package a scoping project for relocation to another directory. The Package Scoping Project utility creates a scoping package (.ncz file extension) which includes all files referenced in the current project. When the .ncz package is opened all referenced files selected for inclusion in the package will be remapped and theme settings will remain intact.
- The Reach Summary report has been redesigned to summarize reach data in a table format. This report has also been enhanced to summarize reach data for the effective layers by effective zone.
- The domain table for GIS delivery format has been appended to include Enterprise Geodatabase, Personal Geodatabase, and DVD.
- In describing the Effective Flood Insurance Study for a reach, the domain table for Hydrologic model and Hydraulic model has been appended to include all the Hydrologic and Hydraulic models accepted by FEMA.
- The ability to sort by column headers has been added to the Manage Domains form.