**United States Environmental Protection Agency**

**CatReg 3.1.0.7 Read Me**

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**CATREG SYSTEM REQUIREMENTS**
- 16 Megabytes of RAM
- Microsoft Windows 7 or higher
- Microsoft .NET 4.5 or later. If your computer is set up to allow or be notified of downloads of Microsoft software, then it is likely that that version of the .NET framework is already installed. Otherwise, you can download and install Microsoft's latest version of .NET for client desktops.
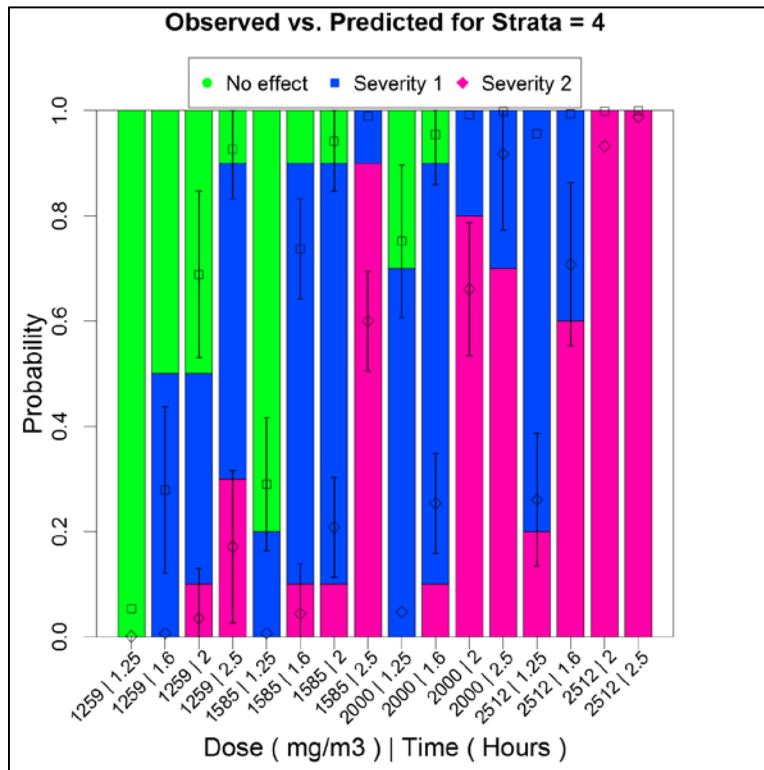- R for Windows version 3.4 or later (either 32- or 64-bit).

**NOTE:** There are no plans for Mac or Linux versions of CatReg at this time.

**WHAT'S NEW IN THIS VERSION**
CatReg 3.1.0.7 includes several new and improved features:
- CatReg performs strengthened input file validation to ensure correctly structured data for analysis.
  - The checks include removing blank rows, ensuring that specific columns contain numeric values, and verifying that treatment groups are properly defined.
  - CatReg displays a dialog box notifying the user of input file validation errors that should be corrected before running an analysis. (See section 4.0 "Input file Formatting Checklist" in the User Guide for more information.)
  - CatReg allows users to specify input file columns that identify unique treatment groups, and CatReg displays the reordered data without changing or rewriting the original input file. To save the sorted treatment data as displayed in CatReg, right-click in the CatReg dataset window and select "Save Dataset As…"
- CatReg's output (.otx) file now reflects all user-specified model parameters and settings.
- In addition to the .otx file, CatReg automatically saves the summary output to a .csv file.
- CatReg's results files are now saved to the directory holding the input file.
- CatReg adds a new bar plot: Observed and Predicted Probability Versus Dose/Time combination. The stacked bar plot shows the observed probability of each severity level for a given dose/time combination. The plot overlays each bar with predicted

probability points for each dose/time value at each severity level (except the "no effect" level) along with error bars to represent the prediction's standard error.



CatReg 3.1.0.7 also includes these fixes and enhancements to:
- Work with whatever version(s) of R – 32- and/or 64-bit – is installed and inform the user if there is a problem.
- Fix an error where optimization parameters that were too close to zero would cause 64-bit R to fail.
- Replace several cryptic warnings from R with improved error messages, which are also now written to the output (.otx) file.
- Correctly interpret embedded commas within a field when a dataset is loaded.
- Check the prplot() time column to see if all the values are the same (this occurs if no time column is mapped). If so, and group is specified as "Dose," then a warning appears on the screen and the probability curve is not plotted.
- Print the ERC standard error values in the ERC summary section.
- Fix the Print menu item on the result screen.
- Allow users to save and load analysis settings using .anx files
- Set the output file name to match the new input file name when a new input file is loaded into an existing analysis that is onscreen.
- Resolve miscellaneous interface and code issues.

## INSTALLING AND UNINSTALLING CATREG

You do not need to uninstall previous versions of CatReg. You can run this version of CatReg alongside earlier versions.

1. Download the CatReg31.msi Windows Installer file.
2. Run the CatReg31.msi file. ***Your system's antivirus program may warn you about the file***; if so, approve or allow the file so the install can continue.
3. Step through the install wizard. You can enter a different install directory or accept the default.
4. Navigate to the install directory and select the CatReg.exe file to start the program.

When installing the CatReg application folder, you should:
- Place the folder in the simplest, shortest directory possible. For most EPA users, the preferred path would be C:\Users\[EPA user's LAN ID]; for non-EPA users, this could be as simple as C:\.
- Have administrative rights for the folder.
- Ensure there are no special characters or spaces in the folder names.

If you have problems or concerns, please contact us using our Help Desk Form.

To uninstall CatReg, use the Windows' Settings > System > Apps & features tool to find the list of installed programs. Select the CatReg entry and select Uninstall. The uninstall will not delete data files from the Data folder. You can remove the folders, if desired, after uninstalling CatReg.

## UNINSTALLING OLDER CATREG VERSIONS (OPTIONAL)

You do not need to uninstall previous versions of CatReg. However, if you want to uninstall previous versions of CatReg, it is recommended that you retain the directory structure for the folders holding your previous model runs' input and output data files. Keeping those files and folders in place will maintain the functionality of your previous CatReg sessions.

## KNOWN CATREG ISSUES
- CatReg does not have international capabilities at this time. You must set your Windows Region and Language control panel to "English (United States)."
- Directory and file names should avoid the following Windows reserved characters that may cause problems when CatReg tries to open those files: < > : " / \ | ? *
- The path+filename should not exceed 255 characters.

## CATREG SUPPORT

If you have problems or concerns, please contact us using our Help Desk Form. Or, from within CatReg, select Help > CatReg Support to open a support ticket.

## RECEIVE UPDATES ON NEW RELEASES

Registration is not required to download the software. However, you can receive [email updates](#) to learn about new releases or important information.