

Release Notes for JMP 12.2

JMP 12.2 is a general maintenance release that contains enhancements and bug fixes. Reproducible crashes and numeric issues have been corrected. Applying this maintenance release is recommended for all sites.

New Features

- The New SQL Query() function supports a Version argument to indicate compatibility with JMP versions. For example, New SQL Query(Version(130) . . .) prints a compatibility message to the log and prevents the query from opening in 12.2.
- The demoElasticNetAlphaLambda.jsl and demoElasticNetAlphaLambda2.jsl sample scripts for Generalized Regression are available. The scripts illustrate the shrinkage effect of varying Alpha and the tuning parameter, Lambda, in the elastic net fit for a single predictor. The scripts are installed in the JMP Samples/Scripts folder.
- The <<Move Tab(*m*, *n*) message for Tab Box() moves the tab from *m* position to *n* position.
- Documentation and online Help are available in Japanese and Simplified Chinese.
- The Simplified Chinese localizations of *Fitting Linear Models*, *Specialized Models*, *Multivariate Methods*, and *Reliability and Survival Methods* are preliminary for 12.2.

General Improvements

Axes

- Label orientation options are available again in the Axis data table column property.
- JMP no longer freezes when the number of tick marks is too large for the range of the axis.
- The Axis font preference is supported again.
- On an axis in Graph Builder, categorical tick marks are no longer hidden.

Column Switcher

- The Column Switcher tries to prevent variable switches that produce incorrect graphs.

Databases

- The Cloudera Impala ODBC driver is supported for database connections.
- Automatic and manual joins have been enhanced. You can edit a join condition as expected while the “Auto join Database Tables” feature is turned off. Auto join works when you add a third table that has foreign keys. Auto join works for compound primary and foreign keys. You can join tables on columns that have variables of different data types. And join conditions that specify an inequality operator (>, >=, <, <=) are now handled correctly.
- In Query Builder, the Prompt on Run options work as expected after you change the filter type.
- In Query Builder, tables imported from Microsoft Access join correctly.

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- Multiple connections to the same datasource are not permitted.
- Composite primary keys are shown as primary keys, not unique keys.

Data Filter

- The data filter for a continuous column with a less than (<) operator restores correctly when saved to the data table and rerun. Previously, the < operator was restored as less than or equal to (<=).

Data Tables

- When you update a table where a main table character column is empty or has short strings and the update table column has very long strings, the values are now updated correctly. This problem could occur with either Update or Join with the Update option.

Graphics

- The right-click menu works as expected after you paste a large background image into a report.
- You can no longer move a locked background image in a report that has been closed and reopened.
- In Graph Builder when using By groups, the Lasso tool selects all points that you draw a box around. Previously, only a small number of points were selected.
- The label for an excluded row appears when you place your cursor over the point.
- You can paste customized graph components when variables are defined as global.
- On Windows, graphics pasted from JMP into Microsoft Paint are pasted intact.

Import and Export

- When a journal that contains large graphs is exported as a PNG, each graph is completely converted.
- JMP on Macintosh no longer freezes if a column header contains a line feed character and the graph is exported as a Microsoft PowerPoint file.
- When you paste a Contingency table into a Microsoft PowerPoint file, the entire table is pasted.
- Column data types are correct when the Excel Import Wizard imports a worksheet that contains hidden rows.
- When you export a report as an Adobe Flash file on Macintosh, the web page opens in the default browser.
- Data can be imported from Minitab version 17.
- When a report that contains the default Japanese font Mairyo is saved as a PDF file, text in the report no longer overlaps.

Macintosh

- Analyses are performed only on the active data table.
- When you open a text file using the Open() function, the Open As behavior that you chose interactively is now honored.

Sample Data Tables

- The On Open script has been removed from the Failure3ID.jmp sample data table. A warning that the script ran no longer appears when you open the data table.

Utilities

- The Make Binning Formula utility works as expected for all computer locale settings.

Windows

- The Japanese version of JMP does not freeze after you double-click a data table and then select an option from a pop-up menu.

Statistics

- When a random seed is divisible by 8,192, the analysis results are different. Previously, seeds that were divisible by 8,192 produced some non-random results, particularly for very large seeds.

Bootstrap

- The Bootstrap feature now correctly supports analyses that use a Freq variable.

Categorical

- The Relaunch Dialog red triangle option works as expected when comparison groups are specified.
- The values for the Top 2 Box and Bottom 2 Box are correct in the Categorical report.
- The Response role is no longer missing when you relaunch the launch window.
- The Share chart appears in saved scripts.
- For structured tables, the comparison tests run when you accept the default comparisons for Specify Comparison Groups.
- Supercategories are included in the report when you request cell comparisons using Compare Each Cell or Specify Comparison Groups.
- When you assign a multiple response item to the columns in a structured table, a First-Order Rao-Scott correction is applied to all statistical tests.
- The Rao-Scott correction uses the correct degrees of freedom.

Control Chart Builder

- Multiple Ys with the Event Chooser no longer creates multiple chart types.
- Graphs in Control Chart Builder are correctly sized when exported as a journal or pasted into another document.

Control Charts

- The correct error message appears in the log when both a phase and a constant sample size are specified for a p chart.

Degradation

- When you enter the time value in the Prediction Settings window, the value shows up in the note under the Prediction Plot.

Design of Experiments

- The Mixture column property is supported even when the factor does not have a lower limit of zero.
- The Dialog script saved to the design data table in Definitive Screening includes the random seed.

Distribution

- The diagonal reference line appears between the confidence interval lines for highly skewed data.

Fit Model

Generalized Regression

- Multiple Y variables are supported in one Generalized Regression report. The same modeling distribution must be fit to all response variables. However, you can fit separate distributions to different response variables in a script.
- When the data contain singularities, details of those singularities are now included in the Generalized Regression report.
- The saved formula for the ZI Gamma takes into account the zero inflation parameter for the mean and the variance formula.

Mixed Models

- The Residual Quantile Plot histogram no longer shows data from hidden rows.
- The saved column for the Standard Error of Predicted no longer shows missing values for rows that have missing responses.

Partial Least Squares

- When you save a prediction formula in the PLS personality and then use the Graph > Profiler option, the profiler shows the Block effects.

Standard Least Squares

- The saved formulas for standard errors with mixture cubic effects are correct.
- p -values are correct in the LSMeans Differences Tukeys HSD table.
- An error appears when the Durbin-Watson p -value cannot be calculated.

- The carets in the Effect Summary report, which indicate the effects that more significant higher-order effects contain, are not affected by the order of terms in the Construct Model Effects box. Previously, lower-order effects had to be added before higher-order effects.

Stepwise

- If the Sum of Squares Error (SSE) is close to zero, the F-value is missing. If the SSE is less than or equal to zero, the F-value is coded as 999999.

Fit Y by X

- Blank Total rows and columns no longer appear in the Contingency table.
- Rows in which the value of a column is 0 are excluded from the quantiles calculations in Oneway.
- In a wide row of plots, the Normal Quantile legend appears to the right of the plot rather than below it.

Life Distribution

- Confidence bands for parametric distributions are updated when you select Change Confidence Level.
- The hazard overlay shading is correct.
- Scrolling issues have been resolved.

Multivariate

- The Wards distance method is applied to clusters in the Multivariate platform (rather than Single Linkage).

Multivariate Control Chart

- Out-of-control points are assigned correctly when a By variable is included.
- The maximum likelihood estimates of covariance matrices (dividing by the sample size rather than the sample size minus one) are now used in the calculation of the likelihood ratio test statistic.

Neural

- The Neural platform supports the Missing Value Codes column property.

Partition

- In Bootstrap Forest, the Cumulative Misclassification Rate (MCR) corresponds to the overall MCR.

Principal Components

- The estimation method that you originally specified is maintained when you relaunch an analysis.

Process Capability

- The menu item name for Process Capability has changed in Japanese. In Japanese JMP 12.0 and JMP 12.1, the menu item name was Process Capability Analysis. In Japanese JMP 12.2, the menu name is Process Capability. If you saved the script for this platform in Japanese JMP 12.1 or JMP 12.2, the script does not work in JMP 12.2 or future releases of JMP. Note that scripts are saved in English according to the default preference setting.

Profilers

- The Custom Profiler applies the Importance value assigned in the Response Limits column property.
- The Defect Profiler and Simulator correctly interpret mixture components.

Response Screening

- When you hide the Quality Engineering group in the Menu preferences, the Response Screening platform is still available in the Analyze > Modeling menu.

Time Series

- When you create a new fit in the Model Comparison report, the Intercept setting is honored. Selecting and deselecting the input series work as expected.

Scripting

- In the Categorical platform, the Responses() arguments are evaluated.
- The Where() string argument is included when generated from an encrypted script.
- The Line Style() argument is no longer reset after drawing dashed lines.
- As SQL Expr() interprets Is Missing() as IS NULL instead of NULLIF.
- When you specify multiple Y columns using Column() in a Control Chart Builder script, all Y charts are created.
- Normal Biv Distribution() returns the correct values. Previously, when x was much larger than y, and the correlation was positive and close to 1, the function returned 0 rather than 0.5.
- To center a child display box, send the <<Horizontal Alignment message to the child display box. The default value is left, or you can specify center or right.
- To ignore formula evaluation errors in a column, send the <<Ignore Errors message to the column. The cell value is set to missing when a formula error occurs.
- Data is successfully sorted and replaced after a window that contains a Filter Col Selector is closed.
- The <<Scale message in a saved script supports legacy scale names. (In JMP 11, some scale names changed.)