

SuperSMITH Revisions: (As shown in Help file)

(Full previous revision history is available from our website listed in [Product Support](#))

6.0AZ - 30 Jul 2026 (File version 6.0.0.126)

- Add checks to suppress plot label leader line if end is not on plot
- Monte Carlo Sample routine seed menu updated
- Updated 3D plot so height stays same when re-opening
- Fixed issue with Histograms and Total Picture in SSV
- On menus, removed the "End" icons when scrolled to the end of icons
- Fixed recursive call in Plot Report Table
- Fixed Loop error if new user clicked Exit instead of Agree on 1st Splash screen
- Added logic in Optimization, Risk, .. reports to avoid overwriting data file
- Life Remaining from Abernethy Risk was calling Calculator when ending.
- Setup menu fixed items with language and Weibayes issues.
- Made error handling more consistent. Reduced File open errors with bad filenames.
- Fixed Weibull Dice call in Sample menu
- Fixed Test menu items where font color didn't return after mouse-over
- Some menus, such as plot Label/Style now have X to exit all menus, while clicking on the X icon or selecting Escape goes to the previous menu.
- Rounding removed when zooming with mouse click/drag. Sometimes rounded to invalid values.
- When maximum marker lines, a new marker line is ignored. Was replacing an earlier marker line.
- Barringer Process option K for line colors corrected.
- Converted "static" menus to SingleSection format to reduce file size and minor efficiency improvement.
- Boltzmann constant for Arrhenius (For accelerated testing) changed to double precision and more digits included.
- Single color plot color changed to black on Report menu.
- Low beta values that can cause out of range error now detected and show warning message that data has been truncated.
- Added clipboard checks when copying a file name from a document, like PlayTIME(tm)

6.0AY - 18 Apr 2026 (File version 6.0.0.125)

Improved precise readings and calculations with small values.

Added words Thick/Thin/Wide/Narrow/Hatching to languages

Added option on Weibayes menu to switch to Weibayes equation, instead of just marker line

Eliminated ghost icon on left of main menu on SSV

Adjusted main form to show plot and data grid if user starts at mid-size

File open now checks for file name on clipboard

When starting, FileOpen refers to last file used
Label/Style icon adds X, Y scaling options which were only available under main Zoom icon
Label/Style menu positioned to right so changes to X,Y axis can be seen without exiting menu
Click-drag for zoom rounded so not extra digits
Barringer Process Reliability updated so changing Production or Nameplate lines doesn't add additional Production/Nameplate lines

6.0AX - 31 Dec 2025 (File version 6.0.0.124)

Fixed issues that could cause SSW to show in front of SSV when SSV plot was called.

Fixed Zoom issue when Y scale = U 1000-Occurrence /K [Reliability]

Reduced Flicker on Menu Resize.

Added checks on DIR() and Close commands to match recent Windows changes.

Added checks on ClipboardClear to reduce "Unable to Open Clipboard" errors

Updated Barringer Process Reliability (BPR) menu.

BPR Change points can now be selected rapidly (Was a delay)

BPR change points on plot now round to 0.2%

They can be entered in more detail by selecting "F At Value" option

Added limits during sampling to prevent too many data sets

Updated copy data to clipboard to work faster with large sets

Added links for upcoming graphics improvements (No impact current users)

Fixed issue when resizing menu where header may overwrite menu items

Adjusted Program Full Screen/Midsized defaults to show entire plot at midsized

Added Error log tracker under Setup menu to track internal errors and command line directives. (to be used for Tech Support troubleshooting.)

6.0AW - 06 Nov 2025 (File version 6.0.0.123)

Updates to comply with Windows Updates 2025-10

- Added checks on files opened with double click
- Added checks on file names opened with drag/drop

- Separate Directory routine for handling DIR errors

- Option V in Former Files lists Command string or drag/drop file

Updated Timegauge on top of plot for long calculations

Estimates from Mixtures are now recalculated once

Several menus updated for easier use

Added option V in former files to show names of files that were drag and dropped on program

Rewrite Weibull Library INI file if missing, corrupt, or partial

Common routine for fit and y plotting positions (rr, rrs, mle, etc)

Turn off hourglass (or Spinny circle) icon if routine exits due to error

Several icons updated

Symbols "®" and "r²" changed to "(R)" and r² for international use

Updates and icons on Barringer Process Reliability Menu

Added error logic when reading INI file if line width was set to 0.

HELPPFILE:

- Left Pane: New Order
- Separate Benchmarking section
- Added detail in System File Check
- Search/Find can now be activated with <Enter> key

6.0AV - 28 Apr 2025 (File version 6.0.0.122)

Updated file import routines for old .Y files made with YBath 5.0

YBath reverts to W2P if data grid entries changed

Turn off Confidence when mixture selected.

Update Results menus to show more lines of results

Menu updates to improve load speed, formatting, and resizing. Now follow main program if moved to another screen.

Updates for pdf in SSY if data has suspensions
Batch Processing (MOLE) added Rank Table to file option [tfxxx].

6.0AU - 15 Apr 2025 (File version 6.0.0.121)

File Import will show a preview of the data before you select the format.

Calculation Improvements for accuracy or timing.

- e.g. *1.442 instead of /Log(2)

Updated Menu Structure and Icon layouts

- Weibull Dice moved to Sample

- File Comment (Under Options) content moved to Logbook

- Lock/Start from various menus moved to Setup Menu

- Logbook and Additional+ icons moved to "tombstones" above plot

- Orange highlight adjusted to clear tombstones

- Menu Format: "**= *YES (/ No)**" changed to "**= YES (/ no)**" format

Selection **ALL CAPS, Bold** Font, No *, Other options lower case.in ().

- Menus changed from all **bold** font

- Menu load routines optimized to be approximately 40% faster

- On large Icon menu, Up arrow to Home tab was replaced with Setup icon

- Fixed issue where menu items would be full height after a small menu was used

- Updated Test menu (L/N/R options) for if Test Type Changes

HELP FILE: Updated Icon Map. Added section for Icons in HELP program

Update references from WeibullNews.com to FultonFindings.com

Fixed issue where drag/drop file sometimes could not be saved with same name

Fixed issue where multiple files drag/drop to on desktop icon wouldn't load

Automatic Inspection #1 Updated.

- If data entry has many occurrences, such as "12x50000",

Inspection Option #1 is suggested, but user can decline.

- Was Automatic for large quantities of occurrences OR suspensions.

6.0AT - 23 Jan 2025 (File version 6.0.0.120)

Removed errant message code from logbook.

Return to Normal Window state when menus exit.

6.0AS - 16 Jan 2025 (File Version 6.0.0.119)

Mixture Distribution Analysis Updated to use "Goal" instead of "Limit".

Also added check for at least 3 occurrences in subpopulation.

Library can now store files with just lines (no data sets)

Added MedRankDemo.xlsx to demonstrate

Median Ranks to SMITHdat directory

HELP FILE: Updated Icon Map, Added <alt> menu functionality

Added more New Weibull Handbook figures to SMITHdat, now 127 figures.

Also updated WLR_Smithdat.csv to show current files.

Moved *PlotsNotinHandbook.pdf* from help file to pdf in SMITHdat

Update Special Sample menu for correct text

Update Method menu so top icons can switch from KM to Probit easily

Eliminated blank page on print plot to PDF

Updated SSDice (wire fatigue Monte Carlo) with ability to set seeds

Fixed Button highlight issues when equation Label changed.

Locked out Dauser Shift if data set has suspensions

Updated Visual Reports

Updated Abernethy Risk Planned Replacement menu

Add check for pve if $r^2=1.00$

Removed several public variables and routines that were no longer used

If current method is Probit, now can generate a Probit Sample with dice icon

Updated Language for "Seed", "Background", and "Transparent"

Updated Marker Line selection and label

Updated several secondary menus so they didn't have to be converted. Slightly faster menus.

6.0AR - 24 August 2024 (File Version 6.0.0.118)

Updated warranty input formats
Icon Mixture labels updated to be consistent between SSW and SSY
Life-Usage Interaction updated for SSV plot
Forty plots from New Weibull Handbook added to SMITHdat directory
Allow Big Titles in SSV for plots called from SSW (such as pdf/cdf plots).
File Open will paste clipboard text if valid file name (Useful for PlayTIME)
Can select FileName in Library to fill prompt on file open (useful for finding/reviewing a file)
Add default B values for Report Table
Updated error handling to reduce cryptic responses
Added Timegage to Mixture calculations
Updated mixture calculations for improved efficiency
Updated LogNormal and Interval MLE for special test data sets.
Confidence Menu now shows when Automatic Confidence is turned off
Added "(Gaussian)" to Normal Equation selections
Corrected Mixture Time Limit
HELP File: Updated Crow/AMSAA Barringer Fit
HELP File: Updated Barringer Process Reliability(Output)

6.0AQ - Skipped

6.0AP - 24 Apr 2024 (File Version 6.0.0.116)

Update initial plot that sometimes had black plot background
Update Batch commands for -a, -k license key options
Added header to results when copying to clipboard, logbook, or printing
Mixtures now default to mle, improved exit criteria and speed
Update data grid vertical scroll bar when data pasted or deleted; or dragging to select
On Logbook paste, made Rich Text Format the default (Was plain text)

Updated mixture estimates. Restricted early Likelihood Ratio Tests.
Mixture Distribution Analysis. Detail on comparing yb7, yb5, yb4, and SSW/wm.
- Added underlines for easier comparison of parameters
- Add note if <40 occurrences
- Use LR Test % selected on Mixture Icon
Update header placement on midsize results
Updated calls to equation selection to one common form
Updated Calculator Option V
Add checks when Mixture is active, equation is Weibull
Add error handling if file path is invalid
Minor updates in Languages
Update Report and Dist Analysis if showing pve% and r^2
HELP: Add Fulton Findings Logo splash at startup while file loads

6.0AO - Skipped

6.0AN - 18 Mar 2024 (File Version 6.0.0.114)

Update Abernethy Risk and Fulton Risk for other time periods (Days, weeks, etc)
Update Missing Data to allow Interval MLE for Source data
Missing Data summary now in Report
Update report formats in SSV
Added option for $pve\%/r^2$ on plot. Show more digits on r^2 on report
Update printer setup for portrait/landscape options
Updates on Nelson Recurrent Events grid updates and precise reading exit
Auto-hide simple Print/Export OK messages ("Plot on clipboard") after 1 second
Assurance Add'l Plot Display: Clarified set label
lr Confidence w/ 3p solution: Gives message to change confidence method
Fit Method: Added logic to ensure recalculation upon change
Updated simple Results form (Like Binomial Output) with icons
Added checks for when user turns tablet to portrait orientation.
HELP: Updated Printer options
HELP: Add big Highlight under Home Icon
HELP: Press <enter> while entering search text to start search
HELP: System Files Check lists API files: advapi32, gdi32, kernel32, shell32, user32
HELP: System Files check shows Windows 10 or Windows 11 versions of files provided by Microsoft.
HELP: Updates to text for Missing Data, Weibull Library, and Mixtures.

6.0AM - 11 Jan 2024 (File Version 6.0.0.113)

Updated Mixture menu for consistency between SSW and SSY
Fixed "Results header overwrites OK button" on some screen resolutions.
<ctrl> mouse wheel now adjusts font size on grid, library, and most Result screens
Updated Barringer Process Reliability menus and results screens

Data Grid height now consistent with plot height for various screen resolutions
Fixed file dialog box flag which sometimes showed Win 3.1 dialog box
Fixed SSV plot which was blank for some confidence changes
Updated data Grid Vertical Scroll bar range
Update Export/Report menu for Plot, Rank Table options
Changed Menu preload (6.0AK), which sometimes caused phantom menus and unexpected messages
Moved many buttons from "MouseDown" to "MouseUp" to reduce phantom menus
Updated Weibull Library menu load
Most main menus now have a static menu preloaded to improve menu speed.
Restored Method/Input menu to way it was in 6.0AJ
Menu preload re-done if language changes
Update message box to show truncated message, instead of no message if too long.
Last file opened is now listed in header of Former Files List.
Binomial Routine: Upgraded to avoid nuisance messages
Method/Input Menu: Menu item "J" wording sequence clarified
Data Format: Automatic conversion from Grouped to Inspect Option 1 improved
Parameter Input: Restored ability for Normal/Gumbel negative central tendency
Parameter Input: Restored true bottom limit for SigF to 1.0
Parameter Input: Added message to clarify when input outside acceptable range
X-Value Input: Restored ability to analyze true negative values for Normal/Gumbel
Demo Code Message box updated if 5.0 code used

6.0AL - 26 Aug 2023 (File Version 6.0.0.112)

HELP: If search canceled, show "Search: (Click Here)" instead of null line in Tree View

HELP: Added note on life cycle support

HELP: Removed contact information for Dr. Abernethy (1930-2021)

Updated Mixtures in Report and Distribution Analysis

Add Error checking to license processing

Help File: Updated links on [Missing Data](#)

Update "No Data" message

Added /C to Data Wizard Transform to Divide by Constant

ACH added solution for 4 parameter mixture

Updated Fisher Matrix menu heading

Crow-AMSAA report - Fit info on separate line

Update screen variables for larger than 2560x1440 screen resolution

- (was not showing zoom/label/print icons on plot)

Added drag/drop files on grid or plot to open them

Double-click file now opens with confidence bounds in file

- (was opening file, but not showing confidence bounds)

Updates on license management

- Site License with exe files

- Check license date and software compile date

- Can revert to site license file with blank license key

6.0AK - 14 Jul 2023 (File Version 6.0.0.111)

[Abernethy Risk](#): Added Event Probability to option B

"Standard" adds a unit when probability >0.5

"Event Probability" adds a unit when probability > 1

SSHelp: Updated version check in Help/System File Check

YBath: Improved mixture initial estimates, solution speed, pdf plots, parameters to clipboard

Add capability for timed licenses. [View/Change with Setup Option W](#)

Created Student Version via license key

Improved SSV for startup data set manipulation

Several items added on calculator

Increased # occurrences to 1,000,000 per data set

Add Units option on test menu

Start pre-loading menus with mouse move for faster menu displays

Improved label and icon layout alignment

HDF (Hazard Distribution Function) can now be on log-log scaling

Improved menu navigation for arrow keys, Home/End/PgUp/PgDn

Alt Key menus can now cycle with left/right arrows

Minor updates to Weibull Dice form and message boxes

6.0AJ - 11 Jan 2023 (File Version 6.0.0.110)

SSHelp: Add version check to Help/System File Check

SSHelp: Updated menus to match "look and feel" of main program

Add EULA to About dialog box, updated FF Logo
<alt> keys now turn off after 3 seconds of no action

6.0AI - Skipped

6.0AH - 14 Dec 2022 (File Version 6.0.0.108)

SSHelp: Add 000 separator and decimal separator to System File Check, Update Plots not in handbook

Fixed error with decimal/comma for decimal separator in version number

Improved response for file drag/drop on smithw.exe, or -H (Linger) in batch call

Set colors don't change when new file is opened with existing data

AR (Abernethy Risk) set Wauben Modified if in a batch call

Updated Curve Fit in SSV (cubic, polynomial, etc)

6.0AG - 19 Nov 2022 (File Version 6.0.0.107)

BatchOp - Duplicated batch operation code from Sub-FylDin to Sub-FylDinSSW
 Dice Icon - Special MC - Menu item "F" made active again for MC type MPV
 AR (Abernethy Risk) - Removed leading and trailing spaces for variable sequence input
 NRE (Nelson Recurrent Events) - Added box around "Nelson" on plot
 Set Delete - Removed requirement to recalc for remaining data sets
 BPR (Barringer Process Reliability) - Deleted "Wilkins Modified" option
 Menu Update - Allow 1- and 2-line menu items if short list to avoid need to scroll

6.0AF - 01 Nov 2022 (File Version 6.0.0.106)

Marker line logic improved to see added line immediately
 Batch operation speed improved

6.0AE - 20 Sep 2022 (File Version 6.0.0.105)

Commercial Release (6.0AA-6.0AD were beta versions)

Updated Sample Menu - show parameter values, list options.
 Updated YBath estimates for faster solutions.
 Likelihood ratio check updated
 SSV report shows corresponding axis info
 SSV Optimum Replacement shows Optimum, Planned, and Unplanned
 Optimum Replacement Value plot now includes planned and unplanned costs.
 Monte Carlo Sample from Sample updated for Interval MLE and print to file
 On Screen Keyboard icon added on main input menus
 Updated User display options and allow user to save 2 configurations
 Weibull Dice updated for languages, and saving data when exiting.
 Data paste from clipboard defaults to next set.
 Updated Abernethy Risk and Optimum Replacement headers.
 Larger menu symbols in Weibull Library.
 Updated number menu for data input symbols

Hide Form2 during batch processing.

6.0AD - 24 Jun 2022 (File Version 6.0.0.104)

Added click menus on tab labels when small icons showing
 Add setup items to switch between Touch and Device (mouse) quickly
 Changed default to small icons (not Big Touch screen)
 pAD now indicates "---", not "0.100" when Suspensions
 Reduced menu flicker
 Improved Batch operation

6.0AC - 06 May 2022 (File Version 6.0.0.103)

Added Filipino, Romanian Language
 Added <alt> menu so most actions can be done with keyboard
 See [First Time User](#) for details
 Reduced messagebox size
 Updates to Windows Batch functions
 Updated Print/Export Menu
 Add space on menu so Touch/Drag can highlight choice
 Large Tool-tips when small icon is active
 Updated Rank Table output for better alignment
 Help program updated for start-up

6.0AB - 11 Apr 2022 (File Version 6.0.0.102)

Added White on Blue Menu highlights with mouse movement

<Enter> on main form will do Monte Carlo, even if Monte Carlo is not on the visible tab

Options on Setup, Main Display Options

- Big/Small icons
- Select tab with mouseover
- Data grid edit Keyboard/Menu
- Windows OSK (On Screen Keyboard) for text editing
- Menu bar size Normal or 1 line
- Options on Big Plot (Was on Setup menu)

- Show Y value on Data grid (Was on Setup menu)
Reviewed Font names/sizes, Aligned font on main tabs.

Results window can be resized

Updated yellow highlight feature

Changed default start to full screen. (Change in Setup, Start/Lock)

Common File Open/Close Routine

Updated Monte Carlo Parameter selection for mixtures

Improved Likelihood Contours

6.0AA - 31 Dec 2021 (File Version 6.0.0.101)

This is a major upgrade which includes:

Overall Program:

Improved touch-screen usage with common large icon interface and large scroll bars

- Menu scrolling with mouse wheel, touch/drag, or arrow keys

Number input includes on-screen number pad

Integration of SSW/SSV/SSY/SmithDice/HPGL2WMF/YBMacro into one core program.

Menu forms remember last screen and location

Updated Playtime with new cases

Software Functions/Features

New Missing Data Estimate

New Library Features

New Logbook to store notes and results

New Report Form for tables of data output, rather than overwriting plot.

Improved MLE t0 calculations

New Path of Steepest Ascent algorithm for Mixture analysis

New Inspect Option #1 for Mixture Analysis

Improved Mixture analysis/choices in SSW

Combine data sets for overall reliability

Updated r^2 calculation for Weibayes plots

SuperSMITH Key for Full/Demo/Student use.

Special Instructor features for class use.

Increased points for contour plots

Help file shows current screen resolution

Plotting:

Common plot layout in all 3 programs