



H&A SCIENTIFIC

Better Software. Better Science.

Scientific Software
Developed for Laboratory Professionals
by Laboratory Professionals

P 252.752.4315

F 252.752.9917

www.hascientific.com

hainfo@hascientific.com



SLIMStat


Version 5.0.0

SLIMStat version 5.0.0 is officially released and is now available.

We have been working on this major upgrade since we released SLIMStat version 4.3.0 in 2008. We will send approved *Release Notes* that detail all the improvements and new features to over 200 companies worldwide that have implemented SLIMStat through the years.

To get an idea of what the new version is all about, here is a quick pictorial view of some of the major new features.

Let us be Your...
Better Solution.

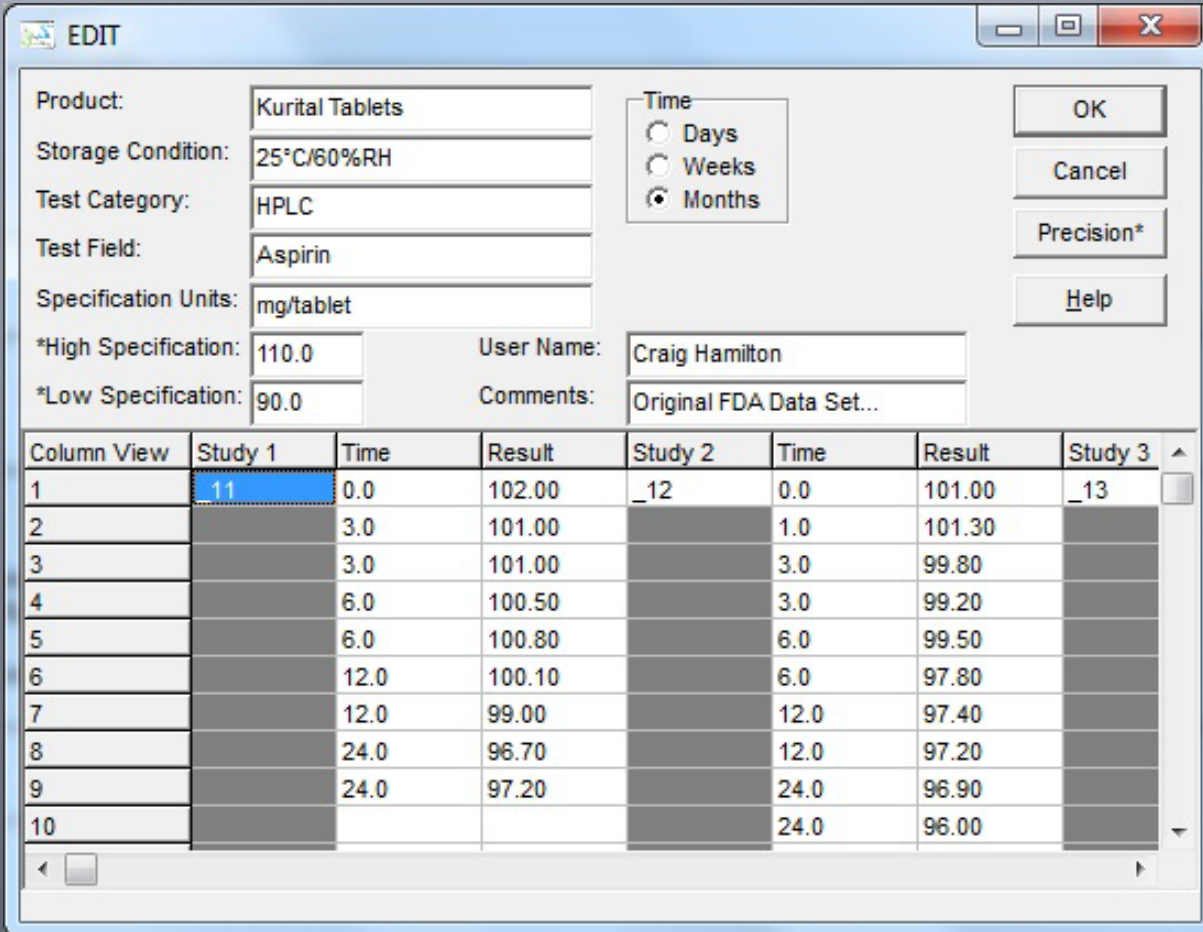


SLIMStat

Version 5.0.0

Perhaps the *most* requested new feature is the ability to enter (or *copy-and-paste* from Excel) results in *column* mode.

Of course, you can still transpose the results back to the traditional *row* view.



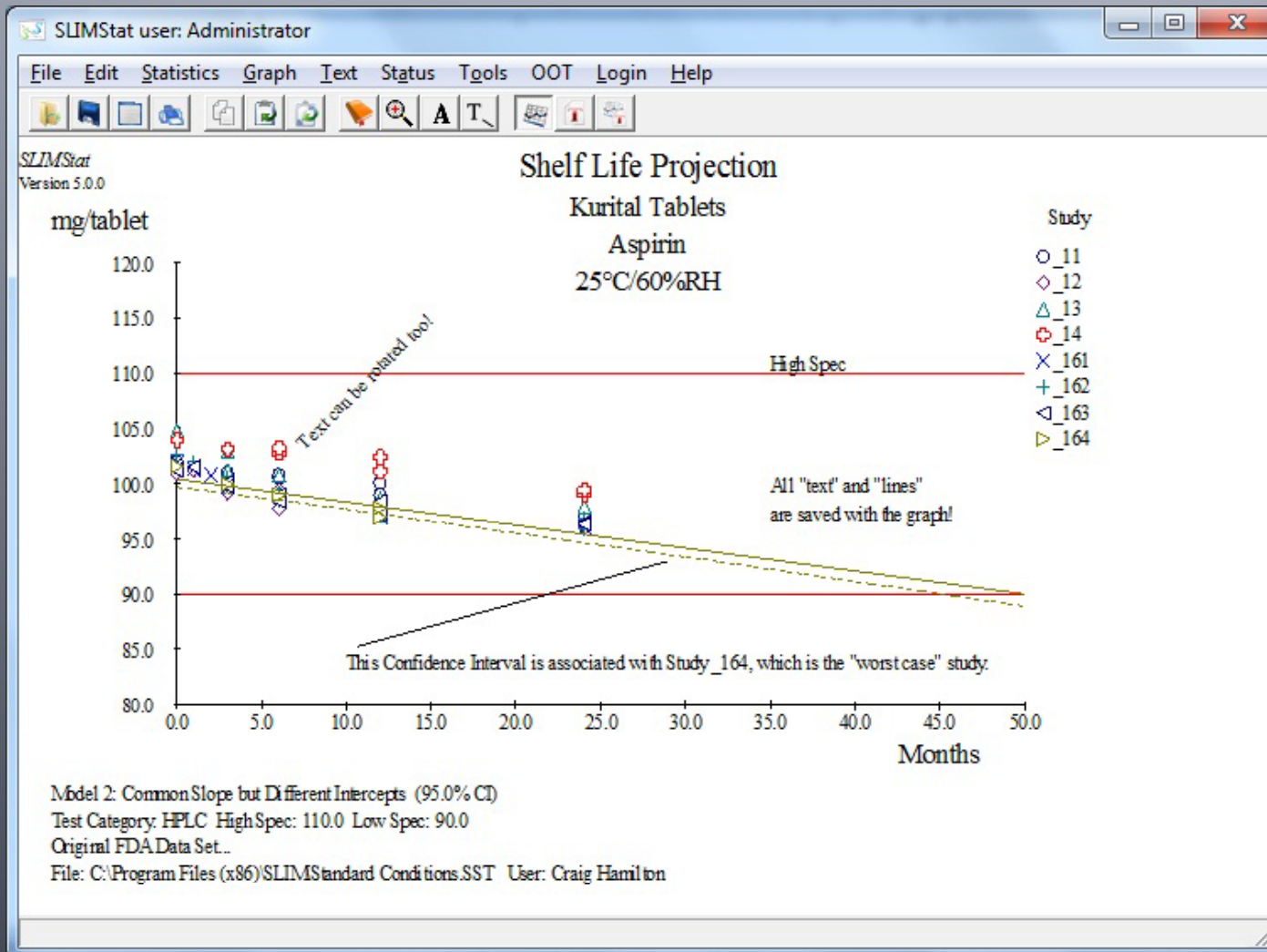
The screenshot shows the 'EDIT' window in SLIMStat. It contains a form for entering test parameters and a data table. The form fields are: Product (Kurital Tablets), Storage Condition (25°C/60%RH), Test Category (HPLC), Test Field (Aspirin), Specification Units (mg/tablet), *High Specification (110.0), *Low Specification (90.0), User Name (Craig Hamilton), and Comments (Original FDA Data Set...). The 'Time' section has radio buttons for Days, Weeks, and Months (selected). Buttons for OK, Cancel, Precision*, and Help are on the right. The data table is in column view, with columns for Column View, Study 1, Time, Result, Study 2, Time, Result, and Study 3. The first row is highlighted.

Column View	Study 1	Time	Result	Study 2	Time	Result	Study 3
1	11	0.0	102.00	_12	0.0	101.00	_13
2		3.0	101.00		1.0	101.30	
3		3.0	101.00		3.0	99.80	
4		6.0	100.50		3.0	99.20	
5		6.0	100.80		6.0	99.50	
6		12.0	100.10		6.0	97.80	
7		12.0	99.00		12.0	97.40	
8		24.0	96.70		12.0	97.20	
9		24.0	97.20		24.0	96.90	
10					24.0	96.00	



SLIMStat

Version 5.0.0

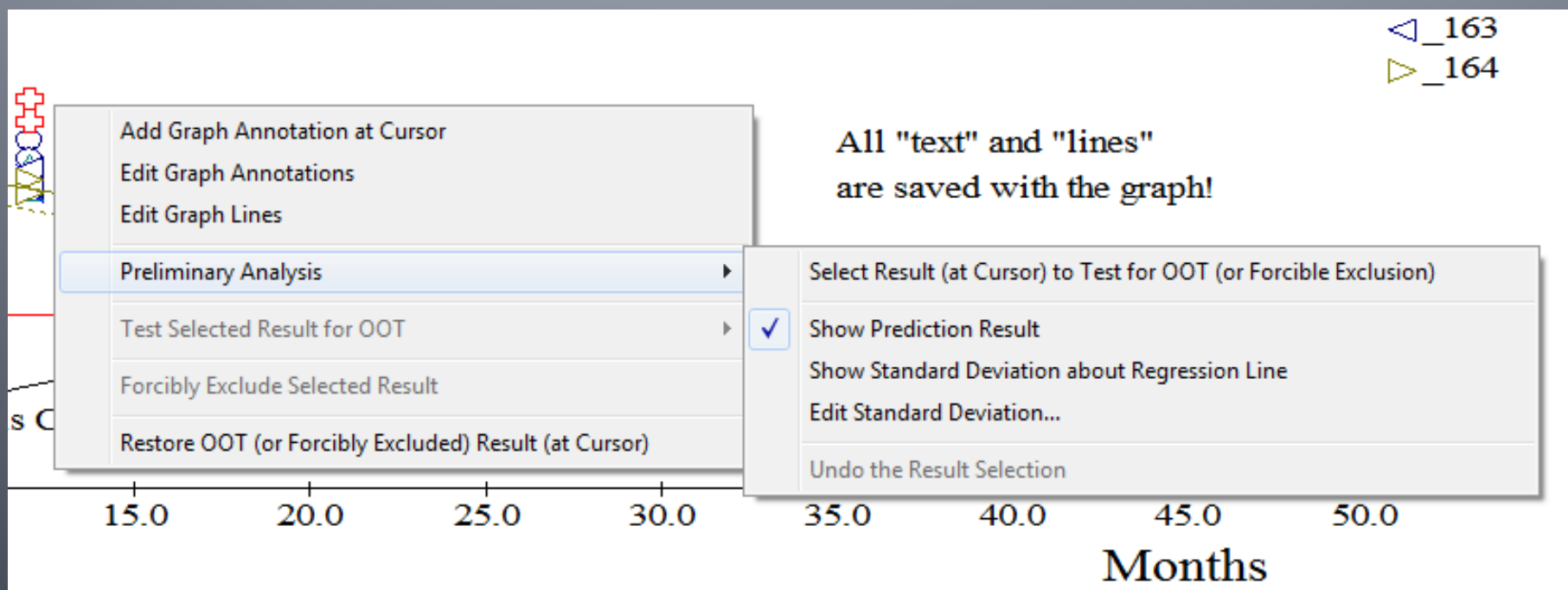


Another much requested feature is the ability to write and draw lines directly on the graph, as seen here.

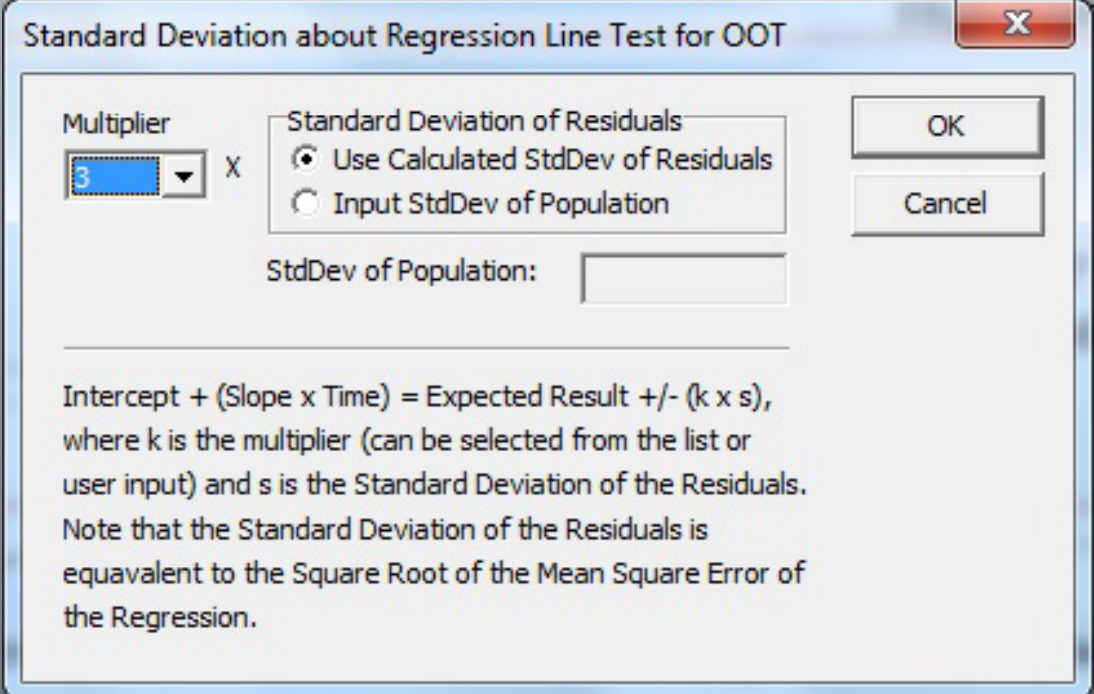
SLIMStat

Version 5.0.0

SLIMStat now has the ability to statistically detect OOT (Out of Trend) results, and mark them as such. SLIMStat provides the user the choice of using the *Prediction Interval* or using the *Standard Deviation about the Regression Line* to determine if a result value (data point) is statistically OOT.



If you choose to use the *Standard Deviation about Regression Line Test for OOT*, you can use either the actual calculated *Standard Deviation of the Residuals* or you may input the known *Standard Deviation of the Population*.



Standard Deviation about Regression Line Test for OOT

Multiplier: 3 x

Standard Deviation of Residuals

Use Calculated StdDev of Residuals

Input StdDev of Population

StdDev of Population:

Intercept + (Slope x Time) = Expected Result +/- (k x s),
where k is the multiplier (can be selected from the list or user input) and s is the Standard Deviation of the Residuals.
Note that the Standard Deviation of the Residuals is equivalent to the Square Root of the Mean Square Error of the Regression.

OK Cancel

It is very user friendly, simply select a result (data point) to examine, and you can immediately determine if it is OOT or not.




SLIMStat

Version 5.0.0

```
Study: _164
Linear Least Squares: Y = -0.33021x + 101.25940 (n = 5)
Residual Sum of Squares = 0.60687
R^2 (Coefficient of Determination) = 0.95391
Standard Deviation of Residuals = 0.44977 mg/tablet
Standard Error of Slope = 0.04190
P Value of Slope = 0.00426. Slope significant (user selected P = 0.25).
Two Sided Confidence Interval (95.0% CI).
The expiration date was determined when the low specification was exceeded.
Expiration Date = 26 Months.
Trend (Prediction Interval) at 36 Months = 89.4 +/- 4.2 (85.1 to 93.6) mg/tablet.
```


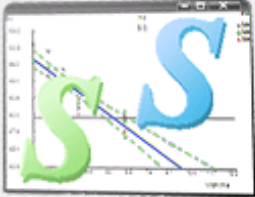
It is also easy to determine the *trend* at some future date too, either using the *Confidence Interval*, the *Prediction Interval*, or using the *Standard Deviation about the Regression Line*. Above is an example using the *Prediction Interval*.



SLIMStat

Version 5.0.0

About SLIMStat



Version 5.0.0
SLIMStat Security Model
Copyright 1997-2011 by
H&A Scientific, Inc. and Metrics, Inc.
Licensed to: Craig Hamilton / H&A Scientific
Product ID: 1000008

H&A Scientific, Inc. website: <http://www.hascientific.com>
Check for updates and Service Packs: <http://www.hascientific.com/releases.php>
Support Information: <http://www.hascientific.com/support.php>

USA Support:
Mailing Address: H&A Scientific, Inc.
PO Box 8133
Greenville, NC 27835 USA
Phone: +1.252.752.4315 Fax: +1.252.752.9917
e-mail: hainfo@hascientific.com

Shipping Address: H&A Scientific, Inc.
105 A Regency Blvd.
Greenville, NC 27834 USA

European Support:
H&A Scientific, Inc.
Mainzer Landstrasse 176
60327 Frankfurt am Main / Germany
Phone: +49(0)69.97358.261 Fax: +49(0)69.97358.101

Significant Statistical Contributions by:
Raphael (Raphy) Bar, PhD
Website: [BR Consulting](http://BRConsulting.com)

OK

Please contact us for
a copy of the
Release Notes
for all the
new features in
SLIMStat version 5.0.0

Let us be Your...
Better Solution.