

= SREGR = Copyright (c) 1984, Wildfire Technology Inc. =

- SIMPLE LINEAR REGRESSION WORKSHEET -
=

Regression Line is $Y =$ #DIV/0! $+ X *$

Correlation Coefficient (r) is
r-squared is

Significance Test of Regression:
(Testing the hypothesis that the slope is zero.)

Student's t-statistic
Number of Degrees of Freedom

Intermediate Results Area

Number of Observations

Mean Value of X
Mean Value of Y
Mean Value of (X*Y)

Corrected Sum of Squares of X
Corrected Sum of Squares of Y
Corrected Sum of Cross-Products (X*Y)

Variance of X
Variance of Y
Unexplained Variance of Y, Given X
Standard Deviation of Y, Given X

Standard Deviation of Slope (b)

DATA INPUT AREA
Enter Pairs of Values Below

Observation Number	Y-Value	X-Value	Y-Estimate #DIV/0!
-----------------------	---------	---------	-----------------------

```
=          \0: \B:                                TEMP:                0
          /dfobsnos~1~~~                        {esc} {esc} {esc} {esc} {esc}
-          /ruinputarea~/wgpe                    {esc} {esc} {esc} {esc} {esc}
          {home}/xmmenu~                          {home}/ruinputarea~/xmment
```

MENU:

```
#DIV/O!Input      Blank      Calc      Results
      Input Data  Clear Input FileCalculate ResuShow Results
#DIV/O!/xminptmenu~/xmblank~/xgcalc~/xmresults~
#DIV/O!
```

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BLANK:

```
No          Yes
#DIV/O!Leave Data IntErase All X-Y Data Values.
0/xmmenu~   /reinputarea~
           /xmmenu~
```

INPTMENU:

```
XYPairs      YXPairs      Est-X      Range
Enter Data in XEnter Data in YEnter X-ValueUse Standard 'l
/ruinstr~/cinpu/ruinstr~/cinpu/ruinstr~/cinpu/ruinstr~/cinpu
{goto} temp~@{goto} temp~@{goto} temp~@/riinputarea~
1 {home} {pgdn}{home} {pgdn}{home} {pgdn}/xminptmenu~
/xitemp=2~{en/xitemp=2~{en/xitemp=2~{end} {down}
#DIV/O!/xitemp>0~{dc/xitemp>0~{dc/xitemp>0~{down}
#DIV/O!{right}      {?} {right} {?} {{right}
#DIV/O! {?} {left} {?} {r/xgg27~      {?} {down}/xgh28~
```

#DIV/O!CALC:

```
#DIV/O!/xi@count(b46.b48)<3~/xlInsufficient Data entered.~temp~
#DIV/O!/wgpd/recalcarea~
      {home} {pgdn} {pgdn} {goto} input~/rncyinput~{bs}. {end} {
#DIV/O!{right}/rncxinput~{bs}. {left} {end} {down} {right}~/rncxval
#DIV/O!{right}/rncyest~{bs}. {left} {end} {down} {right}~
#DIV/O!/wgpd/c~.yest~
#DIV/O!{right}/rncxy~{bs}. {left} {left} {left} {end} {down} {right} {1
/c~.xy~
#DIV/O!{home} {pgdn} {goto} n~@count(yinput)~
      {down} {down} @avg(xinput)~
```

{down}@avg(yinput)~
 {down}@avg(xy)~
 {down}{down}+n*@var(xinput)~
 {down}+n*@var(yinput)~
 Y*X{down}@sum(xy)~
 #DIV/0!/wgpe{home}{calc}
 /xmmenu~

RESULTS:

Final	Intermed	Rawdata	Quit
View Regressi	View Intermed	View Raw Dat	Return to Main
{goto}a1~	{goto}a21~	{goto}a41~	{gc}{home}/xmme
/xmresults~	/xmresults~	/xmupdown~	

UPDOWN:

Down	Up	Quit
Go Down to N	Go Up to Previ	Return to Results Menu.
{pgdn}/xmupd	{pgup}/xmupd	wtc/xmresults~

GRAPHMENU:

Rawdata	Options	View	Quit
Plot Raw Data	Set Graph Opti	Re-display the	Return to Main
/gtxxxvalues~	a/xmgraphopt~	/gvq	{home}/xmme
ola{esc}	Regre/xmgraphmenu	xmgraphmenu~	
falbsq			
ts{esc}	Raw Data & Regression Line~		
qv{esc}{esc}			
/xmgraphmenu~			

GRAPHOPT:

Color	B&W	Quit
Show Graphs i	Show Graphs i	Return to Graph Menu.
/gocqq	/gobqq	/xmgraphmenu~
/xmgraphopt~	/xmgraphopt~	

\P:

/recopyright_p1~
 /xmprint~

PALIGN:

/xIAlign Paper then Press ENTER~temp~
/xr

PRINT:

Results Data Quit
Print RegressicPrint Raw DataReturn to Main Menu.
/xcpalign~ /xcpalign~ /ccopyright~copyright_p1~/ru
/ppra1.e40~cbz{goto}a46~ {home}/xmmenu~
/xmprint~ /ppr{bs}.{right}{right}{right}{right}{end}{
cbobra41.e45~qagpq
/xmprint~

NUMBERCONF:

No Yes
Do not erase arErase and resize input area, th/xnEnter Max.
/xminptmenu~ /xgnumber~

NUMBER:

/wgpd
{goto}temp~{ε
/xcdefobsnos~
/xcdefinputarea~
/xcdefcalcare~
{home}/wgpe
/xminptmenu~

DEFOBSNOS:

/reobsnos~/ctemp~f111~
{goto}f111~{edit}{home}a~
/rncobsnos~a46.
a245
~/dfobsnos~1~~~/xr

DEFINPUTAREA:

/reinputarea~/rpinputarea~/cte
{goto}h111~{edit}{home}c~
/rncinputarea~b46.
d245
~/ruinputarea~/xr

\I:

{esc} {esc} {esc} {esc} {esc}

{esc} {esc} {esc} {esc} {esc}

1~ {home}/ruinputarea~/xminptmenu~

Graph	Print	Agenda	Quit
Show Graphs	Print Results	Return to WorlExit to 1-2-3	
/xi@count(e46/xg\P~	/xmagen~	/xq	
/XGgraph~			

AGEN:

No Yes

Return to MainExit to Worksheet Selection Agenda.

/xmmenu~ /fragenda~

Number	Quit
Set Maximum	Return to Main Menu
/xmnumbercon/xmmenu~	

INPUTINSTR:INPUTINSTR2:

Enter Y-Value:Press Ctrl-Break to Stop.

Enter X-Value:Then Press Alt-M to Get Menu.

/xmmenu~

down}~

ues~{bs} . {end} {down}~

ight} {right}~

| Menu.
nu~

GRAPH:

| Menu.
nu~
{goto}setskip~{down}
@MAX(1,@INT(@COUNT(xvalues)/5))
{calc}~{edit} {home}'~
/XCsetskip~
{home}/XMgraphmenu~

SETSKIP:

/GOSS
1
~QQ/XR

copyright_p1~

down}~

Number of Observations ~temp~

:dit} {home}45+@max(20,@min(2000,@int({end}))) {calc}~

r~

.

DEFCALCAREA:

/recalcarea~/ctemp~j111~

{goto}j111~{edit} {home}e~

/rnccalcarea~d47.

p245

~/xr