

Adding a trend line – plus Equation & R-squared value

Microsoft Excel 2007

Adding a trend line

1. Select the chart, go to Chart tools > Layout > Trendline > Select a Trendline

Chart Tools										-	•	x			
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a Data Data Labels + Table + Axes Gridlines els Axes					Gridlines	Plot Area •	Properties								
								<u>⁄x</u>	Removes the selected Trendline or all Trendlines if none are selected						
J	K	L	Μ	N	0	Р	Q	1	Linear Trendline						
ΞP	ОСТ	NOV	DEC					<u>×</u>	e for the						
!.9	14.3	16.4	18.2						Exponential Trendline						
0	12.7	14.3	16.3					/	Adds/sets an Exponential T	endline	for				
.3	10.9	12.4	13.9						Linear Forecast Trendline						
									Adds/sets a Linear Trendling forecast for the selected ch	e with 2 art series	perioc ;	ł			
									Two Period Moving Average Adds/sets a 2 Period Movin Trendline for the selected c	je g Averag hart seri	je es				
								M	ore Trendline Options						

2. Choose the series for the trendline > Click OK





Alternatively, **RIGHT** click on the series that you wish to add > **Add Trendline**



Displaying equation / R-squared value on chart (optional)

3. Select the chart > Chart Tools > Layout > Select the trendline from the chart elements

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Vertical (Value) Axis Major Gridlines	ИAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC			
Series "WHANGAREI " Trendline 1	9.0	16.5	14.0	12.2	11.2	11.7	12.9	14.3	16.4	18.2			
Series "PALMERSTON N" Series "DUNEDIN"	.6.6 13.7	14.1 11.9	11.3 9.2	9.2 7.0	8.6 6.5	9.3 7.5	11.0 9.3	12.7 10.9	14.3 12.4	16.3 13.9			

4. Click on Format Selection





5. Tick Display equation on chart / Display R-squared value on chart > Click Close

Format Trendline								
Trendline Options	Trendline Options							
Line Color	Trend/Regression Type							
Line Style	Exponential							
Shadow	🗾 💿 Linear							
	C Logarithmic							
	O Polynomial Order: 2							
	Power							
	✓ Moving Average Period: 2 ♦							
	Trendline Name							
	Automatic : Linear (WHANGAREI)							
	O <u>C</u> ustom:							
	Forecast							
	Eorward: 0.0 periods							
	Backward: 0.0 periods							
	Set Intercept = 0.0							
	Display R-squared value on chart							
	Close							

Equation R-squared value **Mean Monthly Tempreature** 25.0 20.0 y = -0.3843x + 18.023 $R^2 = 0.1833$ 15.0 WHANGAREI Ē PALMERSTON N 10.0 -DUNEDIN 5.0 Linear (WHANGAREI) 0.0 OCT DEC JAN FEB MAR APR APR JUN JUN JUL AUG SEP

Legend box is automatically updated for the trend line.