

Windows XP - Parallels De  
Chi-sq - Microsoft Excel

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Calibri 11

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Formattazione condizionale Formatta come tabella Calcolo

M6 fx 34

Excel Template for Chi-square Test of Indipendence, by Gianmarco Alberti

Have you found find this Template useful? Feel free to leave a message in my Guestbook

User guide :

Just paste your data in the table to the right, starting from the upper-left cell. Please, do not leave empty cells.

Obviously, equal numbers of rows and columns are required. The template can handle up to 50 rows and 20 columns.

After pasting, you can check the statistical outputs automatically provided; a verbal description of the test's results is provided as well. Signif. p values are highlighted in red.

Fisher's p provided for 2x2 tab. Min. exp. value and % of exp. values <5 are provided: take them into account in order to use Fisher's p instead of Chi-square p, or (for table > than 2x2) to evaluate the reliability of Chi-square.

	col 1	col 2	col 3	col 4	col 5	col 6
row 1	54,00	43,00	56,00			
row 2	21,00	13,00	43,00			
row 3	50,00	11,00	21,00			
row 4	34,00	3,00	12,00			
row 5						
row 6						
row 7						
row 8						
row 9						
row 10						
row 11						
row 12						
row 13						
row 14						
row 15						
row 16						
row 17						
row 18						
row 19						
row 20						
row 21						
row 22						

rows number 4

columns number 3

df 6

Chi-square critical (alpha=0.05) 12,592

Observed Chi-square 35,113

p-value 0,000

confidence% 100,000

Fisher's exact p (only for 2x2)

min. exp. value 12,28

% of exp. values < than 5

Pearson's Phi

Yule's Q

Pearson's C 0,281

Cramer's V 0,413

Goodman-Kruskal's tau 0,025

XLIRS (Excel Template for Robust Statistics)

Excel Chi-square Template

Excel Kruskal-Wallis Template

Hi! Thanks for your interest in my Template.

If you need a quick and affordable tool to perform some of your Statistical analysis in Excel with just a couple of clicks, the above Templates are the right choice.

You can buy each Template for \$6 (US), two for \$10, all for \$15.

You will receive the file directly at your favorite email address. The submission of the file will take place *right away* upon payment (allowing for time-zone differential). More importantly, you will be entitled of receiving news and information about improvements, bug fixes, and other aspects relevant to the use of the Templates. Future improvements are planned...so let's keep in touch.

Payment can be done via [PayPal](#)



Please, use the following email address to make your payment:  
[gianmarcoalberti@tin.it](mailto:gianmarcoalberti@tin.it)

Thank you again and enjoy your Excel Templates !!!

## XLTRS Features:

-Number of Samples handled (entered by user): 2 (up to 1000 observations)

-Operations on entered samples:

Automatically provided: sorted sample, Trimmed sample, Winsorized sample, random sample.

-Descriptive statistics:

Number of observations, min., max., sum, range, arithmetic mean, variance, standard deviation, mean absolute deviation, standard error, x% confidence interval for population mean, x% lower confidence limit, x% upper confidence limit, 1 quartile, median, 3 quartile, midspread, median absolute deviation, x% confidence interval for population median, x% lower confidence limit, x% upper confidence limit, Tukey's trimean, skewness, kurtosis.

-Outliers detection:

Mean, Median, Inter Quartile Range methods.

-Hypothesis Testing:

t-Test for independent samples: t-Test (for the original samples), "Robust" t-Test (for Trimmed samples, using trimmed estimators) (+ Bullet Graphs comparing 80, 95 and 99% Confidence Interval for population Mean).

Welch't (for both original and trimmed samples).

F-Test for difference in variance (for both original and Trimmed samples).

Midspread comparison: for both original and Trimmed samples.

Mann-Whitney test (+ Bullet Graphs comparing 80, 95 and 99% Confidence Interval for population Median).

Kolmogorov-Smirnov test (for both original and Trimmed samples) (+ plot of cumulative distribution of the samples being compared).

-Correlation:

Pearson's  $r$ , with confidence interval for population's  $r$  (for both original and Trimmed samples).

Spearman's  $r$  (for both original and Trimmed samples).

Scattergrams of Sample 1 vs Sample 2, Trimmed Sample 1 vs Trimmed Sample 2 (+ regression equation).

-Graphics:

Box-plots for original, trimmed, winsorized and random samples.

Box-plots for original and trimmed samples with indication of median, mean, 1 quartile, 3 quartile, smallest&largest non-outlier observations.

Histograms of frequency distribution for original, trimmed, winsorized and random samples.

Histograms of frequency and cumulative distribution for original, trimmed, winsorized and random samples.

Histograms for Confidence Range of population mean for original, trimmed, winsorized and random samples.

Back-to-back frequency distribution histograms for original, Trimmed and random samples.

Bullet graphs for comparing 80%, 95% and 99% Confidence Range for Population Mean (for original and trimmed samples).

Bullet graphs for comparing 80%, 95% and 99% Confidence Range for Population Median (for original and trimmed samples).

Plot of cumulative distribution of the samples being compared.

Scattergrams of correlation between Samples.

Video tutorial at this link:

<http://www.youtube.com/watch?v=uppOS9iKCoc>

#### Chi square Template Features:

The template can handle data organized as a contingency table, with up to 60 rows and 20 columns.

Fisher's exact p is provided for 2x2 tables.

The template also provides the smallest number expected value, and the % of expected values that are < 5. The figures should guide the user in the evaluation of the reliability of chi-square test (and, in case of 2x2 table, should inform the user whether or not use Fisher's p vs Chi-square p).

A verbal explanation of the test's results is also provided.

The Template provides tables with:

expected values,

chi-square values

standardized residuals

p values of standardized residuals

adjusted standardized residuals

p values of adj standardized residuals

The Template also provides:

Cohen's w index (effect size)

Pearson's Phi

Pearson's C

Pearson's C adjusted

Cramer's V

Yule's Q

Goodman-Kendal's tau

index of dispersion

index of qualitative variation

bar chart for chi-square residuals

One sheet provides some quick web references to topics related to the chi-square test and related coefficients.

Video tutorial at this link:

<http://www.youtube.com/watch?v=F6Zg38Nj9aM>

Excel Template for Kruskal-Wallis test:

Template to perform Kruskal-Wallis Test in Excel.

It can handle up to 20 samples; each sample's size can be up to 100 observations.

Test's results:

- test statistic (H)
- test statistic corrected for ties
- p value

Post-hoc test provided: Dunn's Test for multiple pairwise comparisons. Features:

- Bonferroni correction
- rank differences between samples
- absolute standardized rank differences
- significance of the absolute standardized differences

Video tutorial at this link:

<http://www.youtube.com/watch?v=eLYBDocC6bw>