

PDF**Evaluating Probabilities from Various Distribution:**

This workbook can be used to evaluate probabilities for various probabilities: Select the appropriate sheet and enter your parameters, etc, in place of the example data. Various probabilities, etc, are computed.

Sheets

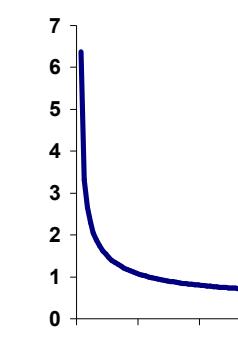
- Beta:** Beta distribution
- Bino:** Binomial distribution
- Chisq:** Chisquare distribution
- Exp:** Exponential distribution
- F:** F distribution
- Gamma:** Gamma distribution
- Hypgeom:** Hypergeometric distribution
- Lognormal:** Lognormal distribution
- Normal:** Normal distribution
- Poisson:** Poisson distribution
- T:** T distribution
- Weibull:** Weibull distribution
- User defined:** User defined (discrete) distribution

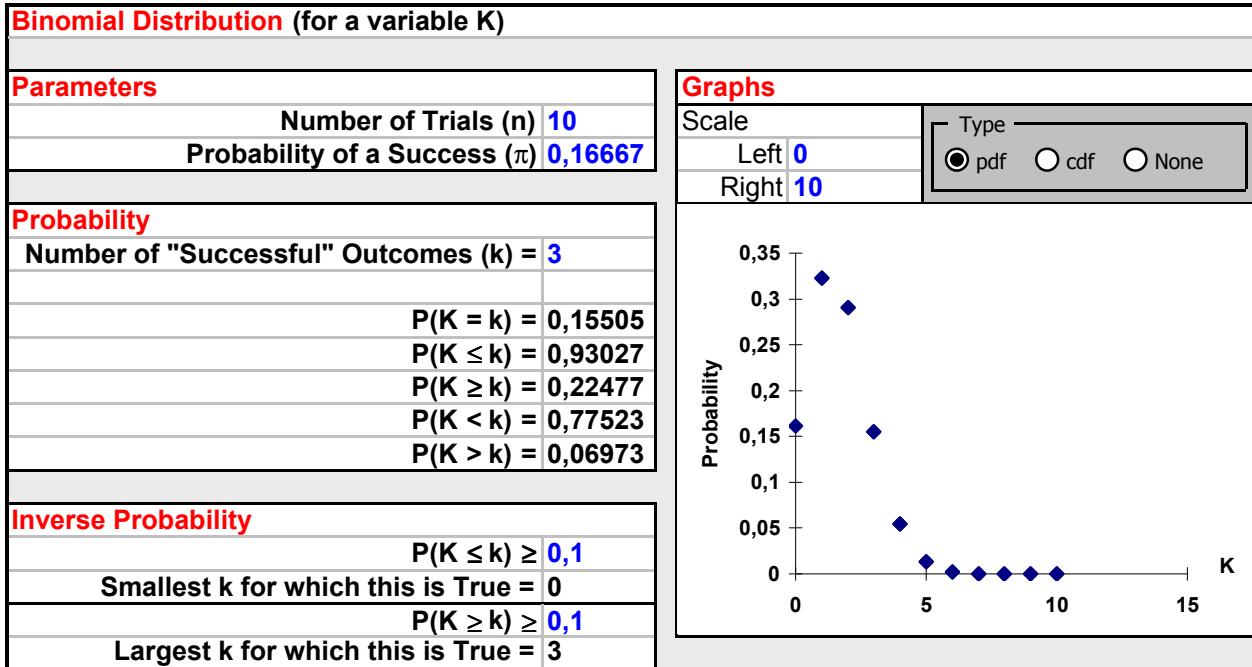
Cells that you may alter are **blue** - others should not be changed. Do not Cut, Move or Delete cells. Do not change the name of the workbook.

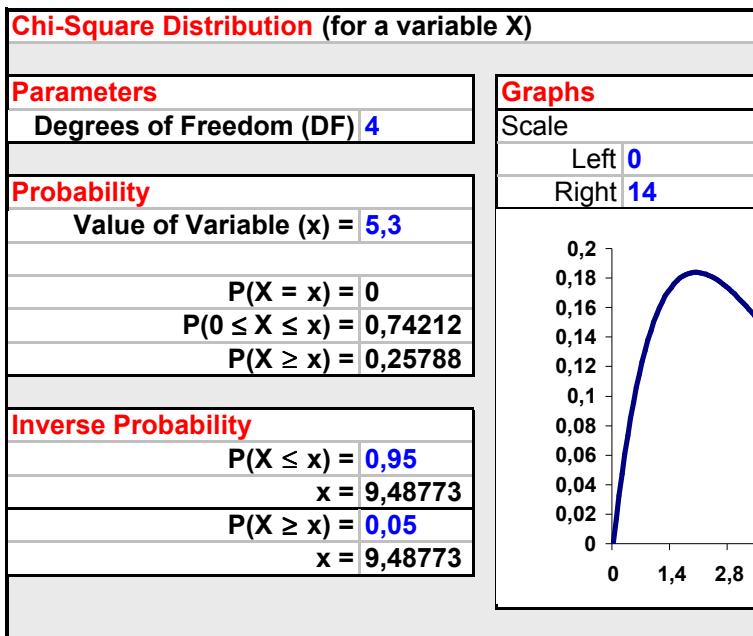
Help is obtained by double-clicking on any**red** cell. Read XLStats.doc for more information and examples.

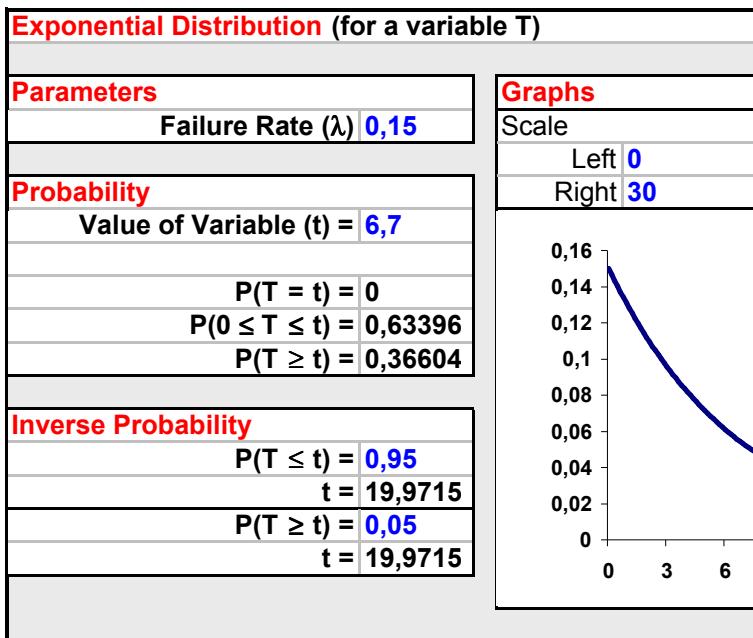
You can speed up calculations on a sheet by choosing not to draw graphs of the probability function.

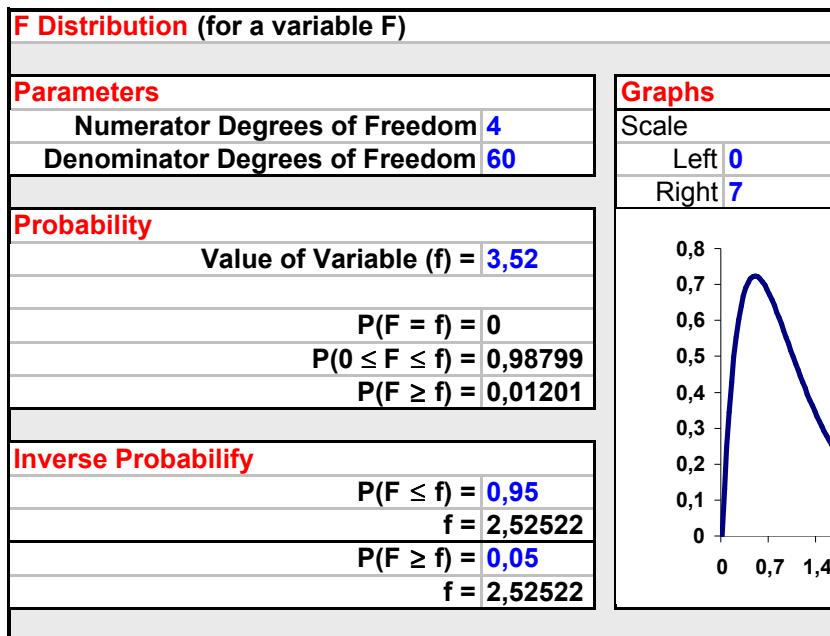
Rodney Carr, 1997-2005

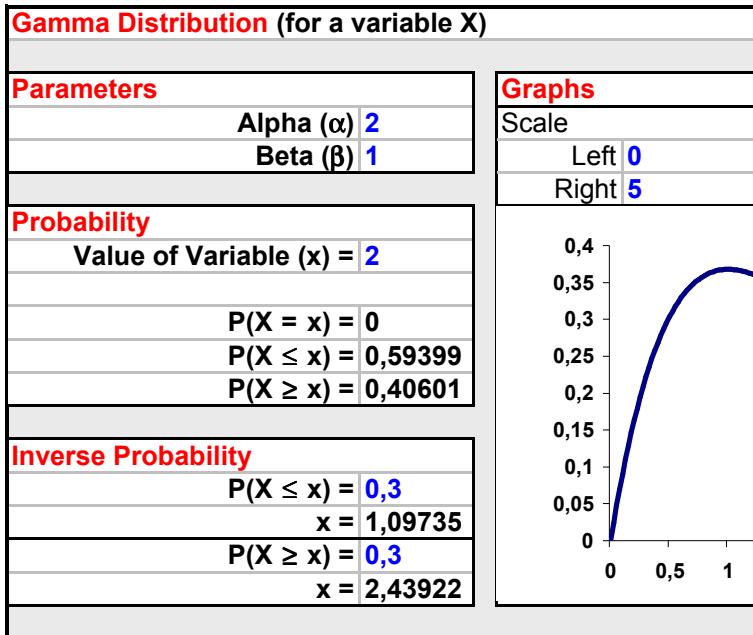
Beta Distribution (for a variable X)	
Parameters	
Alpha (α)	0,5
Beta (β)	0,5
A	0
B	1
Probability	
Value of Variable (x) = 0,5	
$P(X = x) =$	0
$P(X \leq x) =$	0,5
$P(X \geq x) =$	0,5
Inverse Probability	
$P(X \leq x) =$	0,3
x =	0,20611
$P(X \geq x) =$	0,3
x =	0,79389
Graphs	
Scale	
Left	0
Right	1
	
Extra Tools	

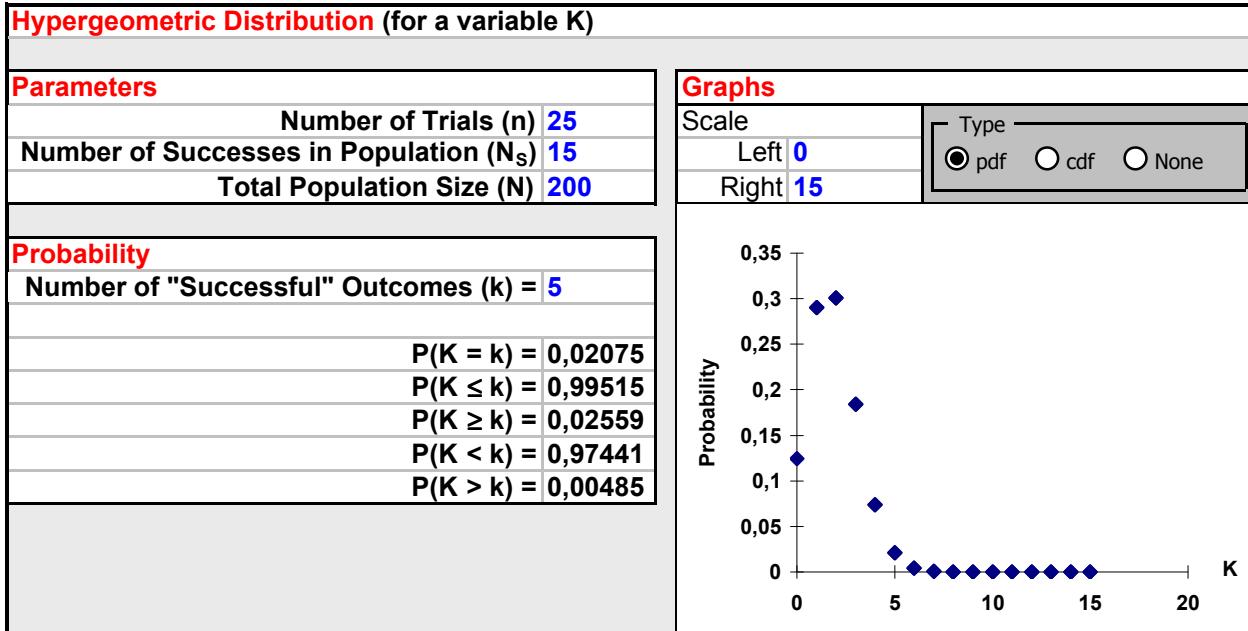












Lognormal Distribution (for a variable X)	
Parameters Mean of $\ln(X)$ (μ) 3,5 Standard Deviation of $\ln(X)$ (σ) 1,2	
Probability Value of Variable (x) = 60 $P(X = x) = 0$ $P(X \leq x) = 0,6898$ $P(X \geq x) = 0,3102$	
Inverse Probability $P(X \leq x) = 0,3$ $x = 17,6497$ $P(X \geq x) = 0,3$ $x = 62,1332$	
Graphs	Scale Left 0 Right 200 