

χ^2 PROBABILITY TABLE

INSTRUCTIONS:

- 1) Determine the degrees of freedom (d.f.).
- 2) Calculate χ^2 . (See text)
- 3) Along the row with the appropriate degrees of freedom, find the values of χ^2 in the table which bracket your calculated value.
- 4) Read the range of probabilities (p) at the top of the table.

p = probability of the event occurring by chance.

If less than 0.05, the event is assumed to have occurred by mechanism other than chance.

Table 5-3. Critical Values of the χ^2 Distribution

df \ p	0.995	0.975	0.9	0.5	0.1	0.05	0.025	0.01	0.005	df
1	.000	.000	0.016	0.455	2.706	3.841	5.024	6.635	7.879	1
2	0.010	0.051	0.211	1.386	4.605	5.991	7.378	9.210	10.597	2
3	0.072	0.216	0.584	2.366	6.251	7.815	9.348	11.345	12.838	3
4	0.207	0.484	1.064	3.357	7.779	9.488	11.143	13.277	14.860	4
5	0.412	0.831	1.610	4.351	9.236	11.070	12.832	15.086	16.750	5
6	0.676	1.237	2.204	5.348	10.645	12.592	14.449	16.812	18.548	6
7	0.989	1.690	2.833	6.346	12.017	14.067	16.013	18.475	20.278	7
8	1.344	2.180	3.490	7.344	13.362	15.507	17.535	20.090	21.955	8
9	1.735	2.700	4.168	8.343	14.684	16.919	19.023	21.666	23.589	9
10	2.156	3.247	4.865	9.342	15.987	18.307	20.483	23.209	25.188	10
11	2.603	3.816	5.578	10.341	17.275	19.675	21.920	24.725	26.757	11
12	3.074	4.404	6.304	11.340	18.549	21.026	23.337	26.217	28.300	12
13	3.565	5.009	7.042	12.340	19.812	22.362	24.736	27.688	29.819	13
14	4.075	5.629	7.790	13.339	21.064	23.685	26.119	29.141	31.319	14
15	4.601	6.262	8.547	14.339	22.307	24.996	27.488	30.578	32.801	15

Copied from:

Griffiths, A.J.F., J.H. Miller, David T. Suzuki, R.C. Lewontin, W.M Gilbert,
An Introduction to Genetic Analysis, 5th Ed., W.H. Freeman and Co, (1993).