

Critical values of the Chi-square distribution with d degrees of freedom

| Probability of exceeding the critical value | | | | | | | |
|---|--------|--------|--------|-----|--------|--------|--------|
| d | 0.05 | 0.01 | 0.001 | d | 0.05 | 0.01 | 0.001 |
| 1 | 3.841 | 6.635 | 10.828 | 11 | 19.675 | 24.725 | 31.264 |
| 2 | 5.991 | 9.210 | 13.816 | 12 | 21.026 | 26.217 | 32.910 |
| 3 | 7.815 | 11.345 | 16.266 | 13 | 22.362 | 27.688 | 34.528 |
| 4 | 9.488 | 13.277 | 18.467 | 14 | 23.685 | 29.141 | 36.123 |
| 5 | 11.070 | 15.086 | 20.515 | 15 | 24.996 | 30.578 | 37.697 |
| 6 | 12.592 | 16.812 | 22.458 | 16 | 26.296 | 32.000 | 39.252 |
| 7 | 14.067 | 18.475 | 24.322 | 17 | 27.587 | 33.409 | 40.790 |
| 8 | 15.507 | 20.090 | 26.125 | 18 | 28.869 | 34.805 | 42.312 |
| 9 | 16.919 | 21.666 | 27.877 | 19 | 30.144 | 36.191 | 43.820 |
| 10 | 18.307 | 23.209 | 29.588 | 20 | 31.410 | 37.566 | 45.315 |

INTRODUCTION TO POPULATION GENETICS, Table D.1
© 2013 Sinauer Associates, Inc.

Probability level (alpha)

| df | 0.5 | 0.10 | 0.05 | 0.02 | 0.01 | 0.001 |
|-----------|------------|-------------|-------------|-------------|-------------|--------------|
| 1 | 0.455 | 2.706 | 3.841 | 5.412 | 6.635 | 10.827 |
| 2 | 1.386 | 4.605 | 5.991 | 7.824 | 9.210 | 13.815 |
| 3 | 2.366 | 6.251 | 7.815 | 9.837 | 11.345 | 16.268 |
| 4 | 3.357 | 7.779 | 9.488 | 11.668 | 13.277 | 18.465 |
| 5 | 4.351 | 9.236 | 11.070 | 13.388 | 15.086 | 20.517 |