

Cut-off points for "equal-tail" (eL and eU) and "shortest-length" (sL and sU) confidence intervals for the Chi-square distributon with "v" degrees of freedom
 ("Med" is the median of the distribution)

Computed by David E. Giles (dgiles@uvic.ca), using the R code in "chi_square.R", 11 February 2012

v	eL	eU	90% Med	sL	sU
3	0.35185	7.81473	2.36597	0.01212	6.25947
4	0.71072	9.48773	3.35669	0.16763	7.86429
5	1.14548	11.07050	4.35146	0.47639	9.43382
6	1.63538	12.59159	5.34812	0.88265	10.95835
7	2.16735	14.06714	6.34581	1.35469	12.44235
8	2.73264	15.50731	7.34412	1.87459	13.89223
9	3.32511	16.91898	8.34283	2.43126	15.31356
10	3.94030	18.30704	9.34182	3.01733	16.71080
15	7.26094	24.99579	14.33886	6.24623	23.43616
20	10.85081	31.41043	19.33734	9.78589	29.87586
25	14.61141	37.65248	24.33659	13.51387	36.13614
30	18.49266	43.77297	29.33603	17.37183	42.27060
40	26.50930	55.75848	39.33534	25.35682	54.27643
50	34.76425	67.50481	49.33494	33.59082	66.03706
100	77.92947	124.34210	99.33413	76.70612	122.91132
250	214.39160	287.88150	249.33370	213.12620	286.48520
500	449.14680	553.12680	499.33350	447.86090	551.74840
1000	927.59440	1074.67000	999.33340	926.29440	1073.31400
5000	4836.65900	5165.61500	4999.33300	4835.34100	5164.26700

v	eL	eU	95% Med	sL	sU
3	0.21580	9.34840	2.36597	0.00316	7.81683
4	0.48442	11.14329	3.35669	0.08473	9.53034
5	0.83121	12.83250	4.35146	0.29624	11.19146
6	1.23734	14.44938	5.34812	0.60700	12.80244
7	1.68970	16.01276	6.34581	0.98923	14.36861
8	2.17973	17.53455	7.34412	1.42500	15.89659
9	2.70039	19.02277	8.34283	1.90259	17.39227
10	3.24697	20.48318	9.34182	2.41392	18.86043
15	6.26214	27.48839	14.33886	5.31713	25.90030
20	9.59078	34.16961	19.33734	8.58417	32.60723
25	13.11972	40.64647	24.33659	12.07306	39.10345
30	16.79077	46.97924	29.33603	15.71551	45.45135
40	24.43304	59.34171	39.33534	23.31895	57.83618
50	32.35736	71.42020	49.33494	31.21761	69.93065
100	74.22193	129.56120	99.33413	73.02124	128.11363
250	208.09780	295.68860	249.33370	206.84610	294.28100
500	439.93600	563.85150	499.33350	438.65960	562.46490
1000	914.25720	1089.53100	999.33340	912.96370	1088.15950
5000	4805.90500	5197.88400	4999.33300	4804.58900	5196.53400

v	eL	eU	99% Med	sL	sU
3	0.07172	12.83816	2.36597	0.00001	11.34996
4	0.20699	14.86026	3.35669	0.01747	13.28545
5	0.41174	16.74960	4.35146	0.10105	15.12695
6	0.67573	18.54758	5.34812	0.26396	16.90132
7	0.98926	20.27774	6.34581	0.49623	18.62131
8	1.34441	21.95495	7.34412	0.78565	20.29555
9	1.73493	23.58935	8.34283	1.12212	21.93088
10	2.15586	25.18818	9.34182	1.49785	23.53277
15	4.60092	32.80132	14.33886	3.79433	31.17033
20	7.43384	39.99685	19.33734	6.54441	38.38952
25	10.51965	46.92789	24.33659	9.57551	45.34013
30	13.78620	53.67196	29.33603	12.80339	52.10028
40	20.70654	66.76596	39.33534	19.66992	65.21903
50	27.99075	79.48998	49.33494	26.91891	77.96134
100	67.32756	140.16950	99.33413	66.17236	138.69083
250	196.16060	311.34620	249.33370	194.93610	309.91700
500	422.30340	585.20660	499.33350	421.04570	583.80410
1000	888.56350	1118.94800	999.33340	887.28300	1117.56500
5000	4746.17500	5261.33800	4999.33300	4744.86500	5259.98300