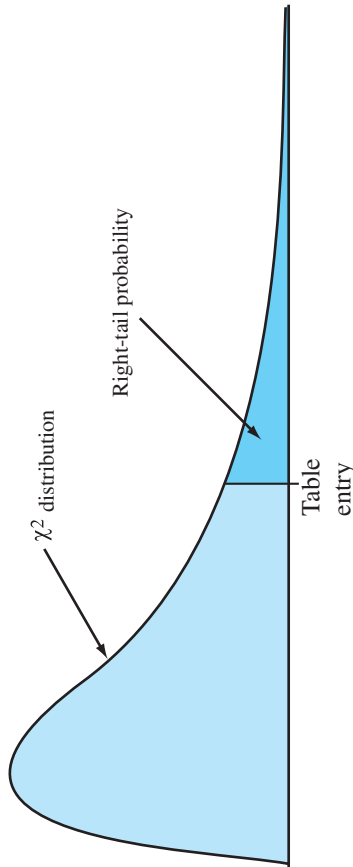


Table E. Chi-square table

Table entries are chi-square values with right-tail probability  $P$ .



df	Probability in right tail											
	0.975	0.25	0.20	0.15	0.10	0.05	0.025	0.01	0.005	0.001	0.0005	
1	0.00098	1.32	1.64	2.07	2.71	3.84	5.02	6.63	7.88	10.83	12.12	
2	0.051	2.77	3.22	3.79	4.61	5.99	7.38	9.21	10.60	13.82	15.20	
3	0.216	4.11	4.64	5.32	6.25	7.81	9.35	11.34	12.84	16.27	17.73	
4	0.48	5.39	5.99	6.74	7.78	9.49	11.14	13.28	14.86	18.47	20.00	
5	0.83	6.63	7.29	8.12	9.24	11.07	12.83	15.09	16.75	20.52	22.11	
6	1.24	7.84	8.56	9.45	10.64	12.59	14.45	16.81	18.55	22.46	24.10	
7	1.69	9.04	9.80	10.75	12.02	14.07	16.01	18.48	20.28	24.32	26.02	
8	2.18	10.22	11.03	12.03	13.36	15.51	17.53	20.09	21.95	26.12	27.87	
9	2.70	11.39	12.24	13.29	14.68	16.92	19.02	21.67	23.59	27.88	29.67	
10	3.25	12.55	13.44	14.53	15.99	18.31	20.48	23.21	25.19	29.59	31.42	
11	3.82	13.70	14.63	15.77	17.28	19.68	21.92	24.72	26.76	31.26	33.14	
12	4.40	14.85	15.81	16.99	18.55	21.03	23.34	26.22	28.30	32.91	34.82	
13	5.01	15.98	16.98	18.20	19.81	22.36	24.74	27.69	29.82	34.53	36.48	
14	5.63	17.12	18.15	19.41	21.06	23.68	26.12	29.14	31.32	36.12	38.11	
15	6.26	18.25	19.31	20.60	22.31	25.00	27.49	30.58	32.80	37.70	39.72	

Table E. Chi-square table

df	Probability in right tail										
	0.975	0.25	0.20	0.15	0.10	0.05	0.025	0.01	0.005	0.001	0.0005
16	6.91	19.37	20.47	21.79	23.54	26.30	28.85	32.00	34.27	39.25	41.31
17	7.56	20.49	21.61	22.98	24.77	27.59	30.19	33.41	35.72	40.79	42.88
18	8.23	21.60	22.76	24.16	25.99	28.87	31.53	34.81	37.16	42.31	44.43
19	8.91	22.72	23.90	25.33	27.20	30.14	32.85	36.19	38.58	43.82	45.97
20	9.59	23.83	25.04	26.50	28.41	31.41	34.17	37.57	40.00	45.31	47.50
21	10.28	24.93	26.17	27.66	29.62	32.67	35.48	38.93	41.40	46.80	49.01
22	10.98	26.04	27.30	28.82	30.81	33.92	36.78	40.29	42.80	48.27	50.51
23	11.69	27.14	28.43	29.98	32.01	35.17	38.08	41.64	44.18	49.73	52.00
24	12.40	28.24	29.55	31.13	33.20	36.42	39.36	42.98	45.56	51.18	53.48
25	13.12	29.34	30.68	32.28	34.38	37.65	40.65	44.31	46.93	52.62	54.95
26	13.84	30.43	31.79	33.43	35.56	38.89	41.92	45.64	48.29	54.05	56.41
27	14.57	31.53	32.91	34.57	36.74	40.11	43.19	46.96	49.64	55.48	57.86
28	15.31	32.62	34.03	35.71	37.92	41.34	44.46	48.28	50.99	56.89	59.30
29	16.05	33.71	35.14	36.85	39.09	42.56	45.72	49.59	52.34	58.30	60.7
30	16.79	34.80	36.25	37.99	40.26	43.8	47.0	50.9	53.7	59.7	62.2
40	24.43	45.62	47.27	49.24	51.81	55.76	59.34	63.69	66.77	73.40	76.09
50	32.36	56.33	58.16	60.35	63.17	67.50	71.42	76.15	79.49	86.66	89.56
60	40.48	66.98	68.97	71.34	74.40	79.08	83.30	88.38	91.95	99.61	102.69
80	57.15	88.13	90.41	93.11	96.58	101.88	106.63	112.33	116.32	124.84	128.26
100	74.22	109.1	111.7	114.7	118.5	124.3	129.6	135.8	140.2	149.4	153.2

Note: Chi-square values computed with Microsoft Excel 9.0 CHINV function.