

D. of F.	p									
	0.001	0.005	0.010	0.025	0.050	0.950	0.975	0.990	0.995	0.999
1	0.000	0.000	0.000	0.001	0.004	3.841	5.024	6.635	7.879	10.827
2	0.002	0.010	0.020	0.051	0.103	5.991	7.378	9.210	10.597	13.815
3	0.024	0.072	0.115	0.216	0.352	7.815	9.348	11.345	12.838	16.266
4	0.091	0.207	0.297	0.484	0.711	9.488	11.143	13.277	14.860	18.466
5	0.210	0.412	0.554	0.831	1.145	11.070	12.832	15.086	16.750	20.515
6	0.381	0.676	0.872	1.237	1.635	12.592	14.449	16.812	18.548	22.457
7	0.599	0.989	1.239	1.690	2.167	14.067	16.013	18.475	20.278	24.321
8	0.857	1.344	1.647	2.180	2.733	15.507	17.535	20.090	21.955	26.124
9	1.152	1.735	2.088	2.700	3.325	16.919	19.023	21.666	23.589	27.877
10	1.479	2.156	2.558	3.247	3.940	18.307	20.483	23.209	25.188	29.588
11	1.834	2.603	3.053	3.816	4.575	19.675	21.920	24.725	26.757	31.264
12	2.214	3.074	3.571	4.404	5.226	21.026	23.337	26.217	28.300	32.909
13	2.617	3.565	4.107	5.009	5.892	22.362	24.736	27.688	29.819	34.527
14	3.041	4.075	4.660	5.629	6.571	23.685	26.119	29.141	31.319	36.124
15	3.483	4.601	5.229	6.262	7.261	24.996	27.488	30.578	32.801	37.698
16	3.942	5.142	5.812	6.908	7.962	26.296	28.845	32.000	34.267	39.252
17	4.416	5.697	6.408	7.564	8.672	27.587	30.191	33.409	35.718	40.791
18	4.905	6.265	7.015	8.231	9.390	28.869	31.526	34.805	37.156	42.312
19	5.407	6.844	7.633	8.907	10.117	30.144	32.852	36.191	38.582	43.819
20	5.921	7.434	8.260	9.591	10.851	31.410	34.170	37.566	39.997	45.314
21	6.447	8.034	8.897	10.283	11.591	32.671	35.479	38.932	41.401	46.796
22	6.983	8.643	9.542	10.982	12.338	33.924	36.781	40.289	42.796	48.268
23	7.529	9.260	10.196	11.689	13.091	35.172	38.076	41.638	44.181	49.728
24	8.085	9.886	10.856	12.401	13.848	36.415	39.364	42.980	45.558	51.179
25	8.649	10.520	11.524	13.120	14.611	37.652	40.646	44.314	46.928	52.619
26	9.222	11.160	12.198	13.844	15.379	38.885	41.923	45.642	48.290	54.051
27	9.803	11.808	12.878	14.573	16.151	40.113	43.195	46.963	49.645	55.475
28	10.391	12.461	13.565	15.308	16.928	41.337	44.461	48.278	50.994	56.892
29	10.986	13.121	14.256	16.047	17.708	42.557	45.722	49.588	52.335	58.301
30	11.588	13.787	14.953	16.791	18.493	43.773	46.979	50.892	53.672	59.702
31	12.196	14.458	15.655	17.539	19.281	44.985	48.232	52.191	55.002	61.098
32	12.810	15.134	16.362	18.291	20.072	46.194	49.480	53.486	56.328	62.487
33	13.431	15.815	17.073	19.047	20.867	47.400	50.725	54.775	57.648	63.869
34	14.057	16.501	17.789	19.806	21.664	48.602	51.966	56.061	58.964	65.247
35	14.688	17.192	18.509	20.569	22.465	49.802	53.203	57.342	60.275	66.619
36	15.324	17.887	19.233	21.336	23.269	50.998	54.437	58.619	61.581	67.985
37	15.965	18.586	19.960	22.106	24.075	52.192	55.668	59.893	62.883	69.348
38	16.611	19.289	20.691	22.878	24.884	53.384	56.895	61.162	64.181	70.704
39	17.261	19.996	21.426	23.654	25.695	54.572	58.120	62.428	65.475	72.055
40	17.917	20.707	22.164	24.433	26.509	55.758	59.342	63.691	66.766	73.403
41	18.576	21.421	22.906	25.215	27.326	56.942	60.561	64.950	68.053	74.744
42	19.238	22.138	23.650	25.999	28.144	58.124	61.777	66.206	69.336	76.084
43	19.905	22.860	24.398	26.785	28.965	59.304	62.990	67.459	70.616	77.418
44	20.576	23.584	25.148	27.575	29.787	60.481	64.201	68.710	71.892	78.749
45	21.251	24.311	25.901	28.366	30.612	61.656	65.410	69.957	73.166	80.078
46	21.929	25.041	26.657	29.160	31.439	62.830	66.616	71.201	74.437	81.400
47	22.610	25.775	27.416	29.956	32.268	64.001	67.821	72.443	75.704	82.720
48	23.294	26.511	28.177	30.754	33.098	65.171	69.023	73.683	76.969	84.037
49	23.983	27.249	28.941	31.555	33.930	66.339	70.222	74.919	78.231	85.350
50	24.674	27.991	29.707	32.357	34.764	67.505	71.420	76.154	79.490	86.660
55	28.173	31.735	33.571	36.398	38.958	73.311	77.380	82.292	85.749	93.167
60	31.738	35.534	37.485	40.482	43.188	79.082	83.298	88.379	91.952	99.608
65	35.362	39.383	41.444	44.603	47.450	84.821	89.177	94.422	98.105	105.988
70	39.036	43.275	45.442	48.758	51.739	90.531	95.023	100.425	104.215	112.317
75	42.757	47.206	49.475	52.942	56.054	96.217	100.839	106.393	110.285	118.599
80	46.520	51.172	53.540	57.153	60.391	101.879	106.629	112.329	116.321	124.839
85	50.320	55.170	57.634	61.389	64.749	107.522	112.393	118.236	122.324	131.043
90	54.156	59.196	61.754	65.647	69.126	113.145	118.136	124.116	128.299	137.208
95	58.022	63.250	65.898	69.925	73.520	118.752	123.858	129.973	134.247	143.343
100	61.918	67.328	70.065	74.222	77.929	124.342	129.561	135.807	140.170	149.449
150	102.113	109.142	112.668	117.985	122.692	179.581	185.800	193.207	198.360	209.265
200	143.842	152.241	156.432	162.728	168.279	233.994	241.058	249.445	255.264	267.539
250	186.554	196.160	200.939	208.098	214.392	287.882	295.689	304.939	311.346	324.831

Tables of the Chi-Squared distribution