Statistical Tables for Students Chi-square

 ${\bf Table~8~~Chi\text{-}square~distribution-inverse~cdf}$

	1													
df	0.005	0.010	0.025	0.050	0.100	0.250	<i>P</i> 0.500	0.750	0.900	0.950	0.975	0.990	0.995	0.999
- ui	0.000	0.010	0.025	0.000	0.100	0.250	0.000	0.750	0.700	0.700	0.770	0.770	0.770	0.777
1	0.000	0.000	0.001	0.004	0.016	0.102	0.455	1.323	2.706	3.841	5.024	6.635	7.879	10.83
2	0.010	0.020	0.051	0.103	0.211	0.575	1.386	2.773	4.605	5.991	7.378	9.210	10.60	13.82
3	0.072	0.115	0.216	0.352	0.584	1.213	2.366	4.108	6.251	7.815	9.348	11.34	12.84	16.27
4	0.207	0.297	0.484	0.711	1.064	1.923	3.357	5.385	7.779	9.488	11.14	13.28	14.86	18.47
5	0.412	0.554	0.831	1.145	1.610	2.675	4.351	6.626	9.236	11.07	12.83	15.09	16.75	20.51
6	0.676	0.872	1.237	1.635	2.204	3.455	5.348	7.841	10.64	12.59	14.45	16.81	18.55	22.46
7	0.989	1.239	1.690	2.167	2.833	4.255	6.346	9.037	12.02	14.07	16.01	18.48	20.28	24.32
8	1.344	1.647	2.180	2.733	3.490	5.071	7.344	10.22	13.36	15.51	17.53	20.09	21.95	26.12
9	1.735	2.088	2.700	3.325	4.168	5.899	8.343	11.39	14.68	16.92	19.02	21.67	23.59	27.88
10	2.156	2.558	3.247	3.940	4.865	6.737	9.342	12.55	15.99	18.31	20.48	23.21	25.19	29.59
11	2.603	3.053	3.816	4.575	5.578	7.584	10.34	13.70	17.28	19.68	21.92	24.73	26.76	31.26
12	3.074	3.571	4.404	5.226	6.304	8.438	11.34	14.85	18.55	21.03	23.34	26.22	28.30	32.91
13	3.565	4.107	5.009	5.892	7.041	9.299	12.34	15.98	19.81	22.36	24.74	27.69	29.82	34.53
14	4.075	4.660	5.629	6.571	7.790	10.17	13.34	17.12	21.06	23.68	26.12	29.14	31.32	36.12
15	4.601	5.229	6.262	7.261	8.547	11.04	14.34	18.25	22.31	25.00	27.49	30.58	32.80	37.70
16	5.142	5.812	6.908	7.962	9.312	11.91	15.34	19.37	23.54	26.30	28.85	32.00	34.27	39.25
17	5.697	6.408	7.564	8.672	10.09	12.79	16.34	20.49	24.77	27.59	30.19	33.41	35.72	40.79
18	6.265	7.015	8.231	9.390	10.86	13.68	17.34	21.60	25.99	28.87	31.53	34.81	37.16	42.31
19 20	6.844 7.434	7.633 8.260	8.907 9.591	10.12 10.85	11.65 12.44	14.56 15.45	18.34 19.34	22.72 23.83	27.20 28.41	30.14 31.41	32.85 34.17	36.19 37.57	38.58 40.00	43.82 45.31
21	8.034	8.897	10.28	11.59	13.24	16.34	20.34	24.93	29.62	32.67	35.48	38.93	41.40	46.80
22	8.643	9.542	10.98	12.34	14.04	17.24	21.34	26.04	30.81	33.92	36.78	40.29	42.80	48.27
23	9.260	10.20	11.69	13.09	14.85	18.14	22.34	27.14	32.01	35.17	38.08	41.64	44.18	49.73
24	9.886	10.86	12.40	13.85	15.66	19.04	23.34	28.24	33.20	36.42	39.36	42.98	45.56	51.18
25	10.52 11.16	11.52	13.12 13.84	14.61	16.47	19.94	24.34	29.34	34.38	37.65	40.65	44.31	46.93	52.62
26 27	11.10	12.20 12.88	14.57	15.38 16.15	17.29 18.11	20.84 21.75	25.34 26.34	30.43 31.53	35.56 36.74	38.89 40.11	41.92 43.19	45.64 46.96	48.29 49.65	54.05 55.48
28	12.46	13.56	15.31	16.13	18.94	22.66	27.34	32.62	37.92	41.34	43.19	48.28	50.99	56.89
29	13.12	14.26	16.05	17.71	19.77	23.57	28.34	33.71	39.09	42.56	45.72	49.59	52.34	58.30
30	13.79	14.95	16.79	18.49	20.60	24.48	29.34	34.80	40.26	43.77	46.98	50.89	53.67	59.70
31	14.46	15.66	17.54	19.28	21.43	25.39	30.34	35.89	41.42	44.99	48.23	52.19	55.00	61.10
32	15.13	16.36	18.29	20.07	22.27	26.30	31.34	36.97	42.58	46.19	49.48	53.49	56.33	62.49
33 34	15.82 16.50	17.07 17.79	19.05 19.81	20.87 21.66	23.11 23.95	27.22 28.14	32.34 33.34	38.06 39.14	43.75 44.90	47.40 48.60	50.73 51.97	54.78 56.06	57.65 58.96	63.87 65.25
35	17.19 17.89	18.51 19.23	20.57 21.34	22.47 23.27	24.80	29.05 29.97	34.34	40.22	46.06	49.80 51.00	53.20 54.44	57.34	60.27	66.62
36 37	18.59	19.23	21.34	24.07	25.64 26.49	30.89	35.34 36.34	41.30 42.38	47.21 48.36	52.19	55.67	58.62 59.89	61.58 62.88	67.98 69.35
38	19.29	20.69	22.11	24.07	27.34	31.81	37.34	43.46	49.51	53.38	56.90	61.16	64.18	70.70
39	20.00	21.43	23.65	25.70	28.20	32.74	38.34	44.54	50.66	54.57	58.12	62.43	65.48	72.06
40	20.71	22.16	24.43	26.51	29.05	33.66	39.34	45.62	51.81	55.76	59.34	63.69	66.77	73.40
50	27.99	29.71	32.36	34.76	37.69	42.94	49.33	56.33	63.17	67.50	71.42	76.15	79.49	86.66
60 70	35.53 43.28	37.48 45.44	40.48 48.76	43.19 51.74	46.46 55.33	52.29 61.70	59.33 69.33	66.98 77.58	74.40 85.53	79.08 90.53	83.30 95.02	88.38 100.4	91.95 104.2	99.61 112.3
80	43.28 51.17	45.44 53.54	48.76 57.15	60.39	55.33 64.28	61.70 71.14	69.33 79.33	88.13	96.58	90.53 101.9	95.02 106.6	112.3	116.3	112.3
90	59.20	61.75	65.65	69.13	73.29	80.62	89.33	98.65	107.6	113.1	118.1	124.1	128.3	137.2
100	67.33	70.06	74.22	77.93	82.36	90.13	99.33	109.1	118.5	124.3	129.6	135.8	140.2	149.4
120	83.85	86.92	91.57	95.70	100.6	109.2	119.3	130.1	140.2	146.6	152.2	159.0	163.6	173.6
140	100.7	104.0	109.1	113.7	119.0	128.4	139.3	150.1	161.8	168.6	174.6	181.8	186.8	197.4
160	117.7	121.3	126.9	131.8	137.5	147.6	159.3	171.7	183.3	190.5	196.9	204.5	209.8	221.0
180	134.9	138.8	144.7	150.0	156.2	166.9	179.3	192.4	204.7	212.3	219.0	227.1	232.6	244.4
200	152.2	156.4	162.7	168.3	174.8	186.2	199.3	213.1	226.0	234.0	241.1	249.4	255.3	267.5
240	187.3	192.0	199.0	205.1	212.4	224.9	239.3	254.4	268.5	277.1	284.8	293.9	300.2	313.4
300 400	240.7 330.9	246.0 337.2	253.9 346.5	260.9 354.6	269.1 364.2	283.1 380.6	299.3 399.3	316.1 418.7	331.8 436.6	341.4 447.6	349.9 457.3	359.9 468.7	366.8 476.6	381.4 493.1
400	330.9	JJ1.Z	340.3	334.0	304.2	300.0	J77.J	410.7	430.0	447.0	457.3	400.7	470.0	47J. I
i	i													