TABLE 3: CHI-SQUARED DISTRIBUTION: CRITICAL VALUES

For a particular number of degrees of freedom V, each entry represents the value of χ^2_{ν} corresponding to a specified upper tail area a.



Upper Tail Areas, a											
ν	0.995	0.99	0.975	0.95	0.99	0.1	0.05	0.025	0.01	0.005	ν
1	0.000039	0.000157	0.000982	0.003932	0.000157	2.70554	3.84146	5.02390	6.63489	7.87940	1
2	0.010025	0.020100	0.050636	0.102586	0.020100	4.60518	5.99148	7.37778	9.21035	10.59653	2
3	0.071723	0.114832	0.215795	0.351846	0.114832	6.25139	7.81472	9.34840	11.34488	12.83807	3
4	0.20698	0.29711	0.48442	0.71072	0.29711	7.77943	9.48773	11.14326	13.27670	14.86017	4
5	0.41175	0.55430	0.83121	1.14548	0.55430	9.23635	11.07048	12.83249	15.08632	16.74965	5
6	0.67573	0.87208	1.23734	1.63538	0.87208	10.64464	12.59158	14.44935	16.81187	18.54751	6
7	0.98925	1.23903	1.68986	2.16735	1.23903	12.01703	14.06713	16.01277	18.47532	20.27774	7
8	1.34440	1.64651	2.17972	2.73263	1.64651	13.36156	15.50731	17.53454	20.09016	21.95486	8
9	1.73491	2.08789	2.70039	3.32512	2.08789	14.68366	16.91896	19.02278	21.66605	23.58927	9
10	2.15585	2.55820	3.24696	3.94030	2.55820	15.98717	18.30703	20.48320	23.20929	25.18805	10
11	2.60320	3.05350	3.81574	4.57481	3.05350	17.27501	19.67515	21.92002	24.72502	26.75686	11
12	3.07379	3.57055	4.40378	5.22603	3.57055	18.54934	21.02606	23.33666	26.21696	28.29966	12
13	3.56504	4.10690	5.00874	5.89186	4.10690	19.81193	22.36203	24.73558	27.68818	29.81932	13
14	4.07466	4.66042	5.62872	6.57063	4.66042	21.06414	23.68478	26.11893	29.14116	31.31943	14
15	4.60087	5.22936	6.26212	7.26093	5.22936	22.30712	24.99580	27.48836	30.57795	32.80149	15
16	5.14216	5.81220	6,90766	7.96164	5.81220	23,54182	26.29622	28.84532	31.99986	34.26705	16
17	5.69727	6.40774	7.56418	8.67175	6.40774	24.76903	27.58710	30.19098	33.40872	35.71838	17
18	6.26477	7.01490	8.23074	9.39045	7.01490	25.98942	28.86932	31.52641	34.80524	37.15639	18
19	6.84392	7.63270	8.90651	10.11701	7.63270	27.20356	30.14351	32.85234	36.19077	38.58212	19
20	7.43381	8.26037	9.59077	10.85080	8.26037	28.41197	31.41042	34.16958	37.56627	39.99686	20
21	8.03360	8.89717	10.28291	11.59132	8.89717	29.61509	32.67056	35.47886	38.93223	41,40094	21
22	8.64268	9.54249	10.98233	12.33801	9.54249	30.81329	33.92446	36.78068	40.28945	42.79566	22