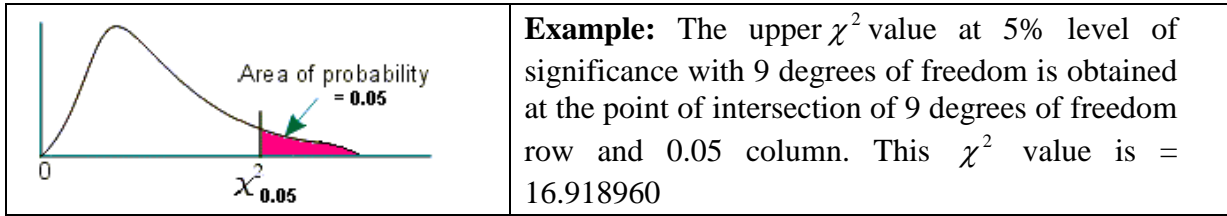


## Appendix F- Chi-Square Distribution Table



Upper Chi-Square Value					
Degrees of freedom	0.1	0.05	0.025	0.01	0.005
1	2.705541	3.841455	5.023903	6.634891	7.879400
2	4.605176	5.991476	7.377779	9.210351	10.596530
3	6.251394	7.814725	9.348404	11.344882	12.838073
4	7.779434	9.487728	11.143262	13.276699	14.860166
5	9.236349	11.070483	12.832492	15.086317	16.749648
6	10.644637	12.591577	14.449355	16.811872	18.547513
7	12.017031	14.067127	16.012774	18.475324	20.277738
8	13.361562	15.507312	17.534545	20.090159	21.954861
9	14.683663	16.918960	19.022778	21.666048	23.589275
10	15.987175	18.307029	20.483201	23.209287	25.188055
11	17.275007	19.675153	21.920023	24.725022	26.756864
12	18.549340	21.026055	23.336660	26.216964	28.299660
13	19.811933	22.362027	24.735581	27.688184	29.819318
14	21.064141	23.684782	26.118935	29.141163	31.319425
15	22.307121	24.995797	27.488365	30.577951	32.801491
16	23.541821	26.296221	28.845325	31.999861	34.267053
17	24.769028	27.587100	30.190983	33.408717	35.718378
18	25.989418	28.869321	31.526410	34.805237	37.156386
19	27.203565	30.143505	32.852337	36.190775	38.582122
20	28.411970	31.410420	34.169581	37.566272	39.996856
21	29.615086	32.670558	35.478856	38.932232	41.400943
22	30.813285	33.924460	36.780678	40.289448	42.795664
23	32.006890	35.172460	38.075609	41.638334	44.181385
24	33.196235	36.415026	39.364060	42.979781	45.558363
25	34.381583	37.652489	40.646498	44.314014	46.927966
26	35.563164	38.885130	41.923138	45.641636	48.289777
27	36.741228	40.113266	43.194521	46.962837	49.645035
28	37.915907	41.337152	44.460790	48.278166	50.993559
29	39.087475	42.556948	45.722279	49.587829	52.335495
30	40.256017	43.772954	46.979218	50.892181	53.671868
40	51.805044	55.758487	59.341679	63.690771	66.766047
50	63.167113	67.504805	71.420194	76.153802	79.489839
60	74.396999	79.081954	83.297706	88.379430	91.951806
70	85.527036	90.531262	95.023149	100.425051	104.214769
80	96.578196	101.879472	106.628542	112.328791	116.320928
90	107.565010	113.145234	118.135908	124.116195	128.298676
100	118.498002	124.342101	129.561252	135.806891	140.169714

Upper Chi-Square Value					
Degrees of freedom	0.995	0.99	0.975	0.95	0.9
1	0.000039	0.000157	0.000982	0.003932	0.015791
2	0.010025	0.020100	0.050636	0.102586	0.210721
3	0.071723	0.114832	0.215795	0.351846	0.584375
4	0.206984	0.297107	0.484419	0.710724	1.063624
5	0.411751	0.554297	0.831209	1.145477	1.610309
6	0.675733	0.872083	1.237342	1.635380	2.204130
7	0.989251	1.239032	1.689864	2.167349	2.833105
8	1.344403	1.646506	2.179725	2.732633	3.489537
9	1.734911	2.087889	2.700389	3.325115	4.168156
10	2.155845	2.558199	3.246963	3.940295	4.865178
11	2.603202	3.053496	3.815742	4.574809	5.577788
12	3.073785	3.570551	4.403778	5.226028	6.303796
13	3.565042	4.106900	5.008738	5.891861	7.041500
14	4.074659	4.660415	5.628724	6.570632	7.789538
15	4.600874	5.229356	6.262123	7.260935	8.546753
16	5.142164	5.812197	6.907664	7.961639	9.312235
17	5.697274	6.407742	7.564179	8.671754	10.085183
18	6.264766	7.014903	8.230737	9.390448	10.864937
19	6.843923	7.632698	8.906514	10.117006	11.650912
20	7.433811	8.260368	9.590772	10.850799	12.442601
21	8.033602	8.897172	10.282907	11.591316	13.239596
22	8.642681	9.542494	10.982330	12.338009	14.041490
23	9.260383	10.195689	11.688534	13.090505	14.847954
24	9.886199	10.856349	12.401146	13.848422	15.658679
25	10.519647	11.523951	13.119707	14.611396	16.473405
26	11.160218	12.198177	13.843881	15.379163	17.291880
27	11.807655	12.878468	14.573373	16.151395	18.113889
28	12.461281	13.564666	15.307854	16.927876	18.939235
29	13.121067	14.256406	16.047051	17.708381	19.767740
30	13.786682	14.953464	16.790756	18.492667	20.599245
40	20.706577	22.164201	24.433058	26.509296	29.050516
50	27.990825	29.706725	32.357385	34.764236	37.688637
60	35.534397	37.484796	40.481707	43.187966	46.458885
70	43.275305	45.441700	48.757536	51.739263	55.328945
80	51.171933	53.539983	57.153152	60.391459	64.277842
90	59.196327	61.754019	65.646592	69.126018	73.291079
100	67.327533	70.064995	74.221882	77.929442	82.358127