

Tabla 2. Valores de X de la distribución Ji-cuadra

$$1 - \alpha = P (X \leq x_{\alpha, v})$$

$v \backslash 1 - \alpha$	0.001	0.002	0.0025	0.005	0.01	0.02	0.025	0.05	0.1	0.2	0.25	0.3	0.4	0.5
1	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.004	0.016	0.064	0.102	0.148	0.275	0.455
2	0.002	0.004	0.005	0.010	0.020	0.040	0.051	0.103	0.211	0.446	0.575	0.713	1.022	1.386
3	0.024	0.039	0.045	0.072	0.115	0.185	0.216	0.352	0.584	1.005	1.213	1.424	1.869	2.366
4	0.091	0.129	0.145	0.207	0.297	0.429	0.484	0.711	1.064	1.649	1.923	2.195	2.753	3.357
5	0.210	0.280	0.307	0.412	0.554	0.752	0.831	1.145	1.610	2.343	2.675	3.000	3.656	4.351
6	0.381	0.486	0.527	0.676	0.872	1.134	1.237	1.635	2.204	3.070	3.455	3.828	4.570	5.348
7	0.599	0.741	0.794	0.989	1.239	1.564	1.690	2.167	2.833	3.822	4.255	4.671	5.493	6.346
8	0.857	1.038	1.104	1.344	1.647	2.032	2.180	2.733	3.490	4.594	5.071	5.527	6.423	7.344
9	1.152	1.370	1.450	1.735	2.088	2.532	2.700	3.325	4.168	5.380	5.899	6.393	7.357	8.343
10	1.479	1.734	1.827	2.156	2.558	3.059	3.247	3.940	4.865	6.179	6.737	7.267	8.295	9.342
11	1.834	2.126	2.232	2.603	3.053	3.609	3.816	4.575	5.578	6.989	7.584	8.148	9.237	10.341
12	2.214	2.543	2.661	3.074	3.571	4.178	4.404	5.226	6.304	7.807	8.438	9.034	10.182	11.340
13	2.617	2.982	3.112	3.565	4.107	4.765	5.009	5.892	7.041	8.634	9.299	9.926	11.129	12.340
14	3.041	3.440	3.582	4.075	4.660	5.368	5.629	6.571	7.790	9.467	10.165	10.821	12.078	13.339
15	3.483	3.916	4.070	4.601	5.229	5.985	6.262	7.261	8.547	10.307	11.037	11.721	13.030	14.339
16	3.942	4.408	4.573	5.142	5.812	6.614	6.908	7.962	9.312	11.152	11.912	12.624	13.983	15.338
17	4.416	4.915	5.092	5.697	6.408	7.255	7.564	8.672	10.085	12.002	12.792	13.531	14.937	16.338
18	4.905	5.436	5.623	6.265	7.015	7.906	8.231	9.390	10.865	12.857	13.675	14.440	15.893	17.338
19	5.407	5.970	6.167	6.844	7.633	8.567	8.907	10.117	11.651	13.716	14.562	15.352	16.850	18.338
20	5.921	6.514	6.723	7.434	8.260	9.237	9.591	10.851	12.443	14.578	15.452	16.266	17.809	19.337
21	6.447	7.070	7.289	8.034	8.897	9.915	10.283	11.591	13.240	15.445	16.344	17.182	18.768	20.337
22	6.983	7.636	7.865	8.643	9.542	10.600	10.982	12.338	14.041	16.314	17.240	18.101	19.729	21.337
23	7.529	8.211	8.450	9.260	10.196	11.293	11.689	13.091	14.848	17.187	18.137	19.021	20.690	22.337
24	8.085	8.796	9.044	9.886	10.856	11.992	12.401	13.848	15.659	18.062	19.037	19.943	21.652	23.337
25	8.649	9.388	9.646	10.520	11.524	12.697	13.120	14.611	16.473	18.940	19.939	20.867	22.616	24.337
26	9.222	9.989	10.256	11.160	12.198	13.409	13.844	15.379	17.292	19.820	20.843	21.792	23.579	25.336
27	9.803	10.597	10.873	11.808	12.878	14.125	14.573	16.151	18.114	20.703	21.749	22.719	24.544	26.336
28	10.391	11.212	11.497	12.461	13.565	14.847	15.308	16.928	18.939	21.588	22.657	23.647	25.509	27.336
29	10.986	11.833	12.128	13.121	14.256	15.574	16.047	17.708	19.768	22.475	23.567	24.577	26.475	28.336
30	11.588	12.461	12.765	13.787	14.953	16.306	16.791	18.493	20.599	23.364	24.478	25.508	27.442	29.336
35	14.688	15.686	16.032	17.192	18.509	20.027	20.569	22.465	24.797	27.836	29.054	30.178	32.282	34.336
40	17.917	19.032	19.417	20.707	22.164	23.838	24.433	26.509	29.051	32.345	33.660	34.872	37.134	39.335
45	21.251	22.477	22.899	24.311	25.901	27.720	28.366	30.612	33.350	36.884	38.291	39.585	41.995	44.335
50	24.674	26.006	26.464	27.991	29.707	31.664	32.357	34.764	37.689	41.449	42.942	44.313	46.864	49.335
55	28.173	29.605	30.097	31.735	33.571	35.659	36.398	38.958	42.060	46.036	47.610	49.055	51.739	54.335
60	31.738	33.267	33.791	35.534	37.485	39.699	40.482	43.188	46.459	50.641	52.294	53.809	56.620	59.335
65	35.362	36.983	37.538	39.383	41.444	43.779	44.603	47.450	50.883	55.262	56.990	58.573	61.506	64.335
70	39.036	40.747	41.332	43.275	45.442	47.893	48.758	51.739	55.329	59.898	61.698	63.346	66.396	69.334
75	42.757	44.554	45.169	47.206	49.475	52.039	52.942	56.054	59.795	64.547	66.417	68.127	71.290	74.334
80	46.520	48.400	49.043	51.172	53.540	56.213	57.153	60.391	64.278	69.207	71.145	72.915	76.188	79.334
85	50.320	52.282	52.952	55.170	57.634	60.412	61.389	64.749	68.777	73.878	75.881	77.710	81.089	84.334
90	54.156	56.196	56.892	59.196	61.754	64.635	65.647	69.126	73.291	78.558	80.625	82.511	85.993	89.334
95	58.022	60.140	60.861	63.250	65.898	68.879	69.925	73.520	77.818	83.248	85.376	87.317	90.899	94.334
100	61.918	64.110	64.857	67.328	70.065	73.142	74.222	77.929	82.358	87.945	90.133	92.129	95.808	99.334

Elaborada por Irene Patricia Valdez y Alfaro.

Tabla 2. Valores de X de la distribución Ji-cuadra

$$1 - \alpha = P (X \leq x_{\alpha, v})$$

(continuaci. n)

$v \backslash 1 - \alpha$	0.6	0.7	0.75	0.8	0.9	0.95	0.975	0.98	0.99	0.995	0.9975	0.998	0.999
1	0.708	1.074	1.323	1.642	2.706	3.841	5.024	5.412	6.635	7.879	9.140	9.549	10.827
2	1.833	2.408	2.773	3.219	4.605	5.991	7.378	7.824	9.210	10.597	11.983	12.429	13.815
3	2.946	3.665	4.108	4.642	6.251	7.815	9.348	9.837	11.345	12.838	14.320	14.796	16.266
4	4.045	4.878	5.385	5.989	7.779	9.488	11.143	11.668	13.277	14.860	16.424	16.923	18.466
5	5.132	6.064	6.626	7.289	9.236	11.070	12.832	13.388	15.086	16.750	18.385	18.908	20.515
6	6.211	7.231	7.841	8.558	10.645	12.592	14.449	15.033	16.812	18.548	20.249	20.791	22.457
7	7.283	8.383	9.037	9.803	12.017	14.067	16.013	16.622	18.475	20.278	22.040	22.601	24.321
8	8.351	9.524	10.219	11.030	13.362	15.507	17.535	18.168	20.090	21.955	23.774	24.352	26.124
9	9.414	10.656	11.389	12.242	14.684	16.919	19.023	19.679	21.666	23.589	25.463	26.056	27.877
10	10.473	11.781	12.549	13.442	15.987	18.307	20.483	21.161	23.209	25.188	27.112	27.721	29.588
11	11.530	12.899	13.701	14.631	17.275	19.675	21.920	22.618	24.725	26.757	28.729	29.354	31.264
12	12.584	14.011	14.845	15.812	18.549	21.026	23.337	24.054	26.217	28.300	30.318	30.957	32.909
13	13.636	15.119	15.984	16.985	19.812	22.362	24.736	25.471	27.688	29.819	31.883	32.536	34.527
14	14.685	16.222	17.117	18.151	21.064	23.685	26.119	26.873	29.141	31.319	33.426	34.091	36.124
15	15.733	17.322	18.245	19.311	22.307	24.996	27.488	28.259	30.578	32.801	34.949	35.627	37.698
16	16.780	18.418	19.369	20.465	23.542	26.296	28.845	29.633	32.000	34.267	36.456	37.146	39.252
17	17.824	19.511	20.489	21.615	24.769	27.587	30.191	30.995	33.409	35.718	37.946	38.648	40.791
18	18.868	20.601	21.605	22.760	25.989	28.869	31.526	32.346	34.805	37.156	39.422	40.136	42.312
19	19.910	21.689	22.718	23.900	27.204	30.144	32.852	33.687	36.191	38.582	40.885	41.610	43.819
20	20.951	22.775	23.828	25.038	28.412	31.410	34.170	35.020	37.566	39.997	42.336	43.072	45.314
21	21.992	23.858	24.935	26.171	29.615	32.671	35.479	36.343	38.932	41.401	43.775	44.522	46.796
22	23.031	24.939	26.039	27.301	30.813	33.924	36.781	37.659	40.289	42.796	45.204	45.961	48.268
23	24.069	26.018	27.141	28.429	32.007	35.172	38.076	38.968	41.638	44.181	46.623	47.392	49.728
24	25.106	27.096	28.241	29.553	33.196	36.415	39.364	40.270	42.980	45.558	48.034	48.811	51.179
25	26.143	28.172	29.339	30.675	34.382	37.652	40.646	41.566	44.314	46.928	49.435	50.223	52.619
26	27.179	29.246	30.435	31.795	35.563	38.885	41.923	42.856	45.642	48.290	50.829	51.627	54.051
27	28.214	30.319	31.528	32.912	36.741	40.113	43.195	44.140	46.963	49.645	52.215	53.022	55.475
28	29.249	31.391	32.620	34.027	37.916	41.337	44.461	45.419	48.278	50.994	53.594	54.411	56.892
29	30.283	32.461	33.711	35.139	39.087	42.557	45.722	46.693	49.588	52.335	54.966	55.792	58.301
30	31.316	33.530	34.800	36.250	40.256	43.773	46.979	47.962	50.892	53.672	56.332	57.167	59.702
35	36.475	38.859	40.223	41.778	46.059	49.802	53.203	54.244	57.342	60.275	63.076	63.955	66.619
40	41.622	44.165	45.616	47.269	51.805	55.758	59.342	60.436	63.691	66.766	69.699	70.617	73.403
45	46.761	49.452	50.985	52.729	57.505	61.656	65.410	66.555	69.957	73.166	76.223	77.179	80.078
50	51.892	54.723	56.334	58.164	63.167	67.505	71.420	72.613	76.154	79.490	82.664	83.656	86.660
55	57.016	59.980	61.665	63.577	68.796	73.311	77.380	78.619	82.292	85.749	89.034	90.061	93.167
60	62.135	65.226	66.981	68.972	74.397	79.082	83.298	84.580	88.379	91.952	95.344	96.403	99.608
65	67.249	70.462	72.285	74.351	79.973	84.821	89.177	90.501	94.422	98.105	101.600	102.691	105.988
70	72.358	75.689	77.577	79.715	85.527	90.531	95.023	96.387	100.425	104.215	107.808	108.930	112.317
75	77.464	80.908	82.858	85.066	91.061	96.217	100.839	102.243	106.393	110.285	113.974	115.124	118.599
80	82.566	86.120	88.130	90.405	96.578	101.879	106.629	108.069	112.329	116.321	120.102	121.280	124.839
85	87.665	91.325	93.394	95.734	102.079	107.522	112.393	113.871	118.236	122.324	126.194	127.401	131.043
90	92.761	96.524	98.650	101.054	107.565	113.145	118.136	119.648	124.116	128.299	132.255	133.489	137.208
95	97.855	101.717	103.899	106.364	113.038	118.752	123.858	125.405	129.973	134.247	138.288	139.546	143.343
100	102.946	106.906	109.141	111.667	118.498	124.342	129.561	131.142	135.807	140.170	144.292	145.576	149.449

Elaborada por Irene Patricia Valdez y Alfaro.