z	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
-3.4	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002
-3.3	0.0005	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0003
-3.2	0.0007	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0005	0.0005	0.0005
-3.1	0.0010	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007
-3.0	0.0013	0.0013	0.0013	0.0012	0.0012	0.0011	0.0011	0.0011	0.0010	0.0010
-2.9	0.0019	0.0018	0.0018	0.0017	0.0016	0.0016	0.0015	0.0015	0.0014	0.0014
-2.8	0.0026	0.0025	0.0024	0.0023	0.0023	0.0022	0.0021	0.0021	0.0020	0.0019
-2.7	0.0035	0.0034	0.0033	0.0032	0.0031	0.0030	0.0029	0.0028	0.0027	0.0026
-2.6	0.0047	0.0045	0.0044	0.0043	0.0041	0.0040	0.0039	0.0038	0.0037	0.0036
-2.5	0.0062	0.0060	0.0059	0.0057	0.0055	0.0054	0.0052	0.0051	0.0049	0.0048
-2.4	0.0082	0.0080	0.0078	0.0075	0.0073	0.0071	0.0069	0.0068	0.0066	0.0064
-2.3	0.0107	0.0104	0.0102	0.0099	0.0096	0.0094	0.0091	0.0089	0.0087	0.0084
-2.2	0.0139	0.0136	0.0132	0.0129	0.0125	0.0122	0.0119	0.0116	0.0113	0.0110
-2.1	0.0179	0.0174	0.0170	0.0166	0.0162	0.0158	0.0154	0.0150	0.0146	0.0143
-2.0	0.0228	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0188	0.0183
-1.9	0.0287	0.0281	0.0274	0.0268	0.0262	0.0256	0.0250	0.0244	0.0239	0.0233
-1.8	0.0359	0.0351	0.0344	0.0336	0.0329	0.0322	0.0314	0.0307	0.0301	0.0294
-1.7	0.0446	0.0436	0.0427	0.0418	0.0409	0.0401	0.0392	0.0384	0.0375	0.0367
-1.6	0.0548	0.0537	0.0526	0.0516	0.0505	0.0495	0.0485	0.0475	0.0465	0.0455
-1.5	0.0668	0.0655	0.0643	0.0630	0.0618	0.0606	0.0594	0.0582	0.0571	0.0559
-1.4	0.0808	0.0793	0.0778	0.0764	0.0749	0.0735	0.0721	0.0708	0.0694	0.0681
-1.3	0.0968	0.0951	0.0934	0.0918	0.0901	0.0885	0.0869	0.0853	0.0838	0.0823
-1.2	0.1151	0.1131	0.1112	0.1093	0.1075	0.1056	0.1038	0.1020	0.1003	0.0985
-1.1	0.1357	0.1335	0.1314	0.1292	0.1271	0.1251	0.1230	0.1210	0.1190	0.1170
-1.0	0.1587	0.1562	0.1539	0.1515	0.1492	0.1469	0.1446	0.1423	0.1401	0.1379
-0.9	0.1841	0.1814	0.1788	0.1762	0.1736	0.1711	0.1685	0.1660	0.1635	0.1611
-0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867
-0.7	0.2420	0.2389	0.2358	0.2327	0.2296	0.2266	0.2236	0.2206	0.2177	0.2148
-0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.2451
-0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.2776
-0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.3121
-0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.3483
-0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859
-0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.4247
0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.4641

z	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9987	0.9987	0.9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990
3.1	0.9990	0.9991	0.9991	0.9991	0.9992	0.9992	0.9992	0.9992	0.9993	0.9993
3.2	0.9993	0.9993	0.9994	0.9994	0.9994	0.9994	0.9994	0.9995	0.9995	0.9995
3.3	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	0.9996	0.9996	0.9997
3.4	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998

Distribución Ji cuadrada

	α																						
ν	**0.999**	**0.995**	**0.99**	**0.98**	**0.975**	**0.95**	**0.9**	**0.8**	**0.75**	**0.7**	**0.6**	**0.5**	**0.4**	**0.3**	**0.25**	**0.2**	**0.1**	**0.05**	**0.025**	**0.02**	**0.01**	**0.005**	**0.001**
1	2E-06	.00004	.00016	0.001	0.001	0.004	0.016	0.064	0.102	0.148	0.275	0.455	0.708	1.074	1.323	1.642	2.706	3.841	5.024	5.412	6.635	7.879	10.828
2	0.002	0.010	0.020	0.040	0.051	0.103	0.211	0.446	0.575	0.713	1.022	1.386	1.833	2.408	2.773	3.219	4.605	5.991	7.378	7.824	9.210	10.597	13.815
3	0.024	0.072	0.115	0.185	0.216	0.352	0.584	1.005	1.213	1.424	1.869	2.366	2.946	3.665	4.108	4.642	6.251	7.815	9.348	9.837	11.345	12.838	16.267
4	0.091	0.207	0.297	0.429	0.484	0.711	1.064	1.649	1.923	2.195	2.753	3.357	4.045	4.878	5.385	5.989	7.779	9.488	11.143	11.668	13.277	14.860	18.467
5	0.210	0.412	0.554	0.752	0.831	1.145	1.610	2.343	2.675	3.000	3.656	4.351	5.132	6.064	6.626	7.289	9.236	11.070	12.832	13.388	15.086	16.750	20.515
6	0.381	0.676	0.872	1.134	1.237	1.635	2.204	3.070	3.455	3.828	4.570	5.348	6.211	7.231	7.841	8.558	10.645	12.592	14.449	15.033	16.812	18.548	22.458
7	0.599	0.989	1.239	1.564	1.690	2.167	2.833	3.822	4.255	4.671	5.493	6.346	7.283	8.383	9.037	9.803	12.017	14.067	16.013	16.622	18.475	20.278	24.321
8	0.857	1.344	1.646	2.032	2.180	2.733	3.490	4.594	5.071	5.527	6.423	7.344	8.351	9.524	10.219	11.030	13.362	15.507	17.535	18.168	20.090	21.955	26.125
9	1.152	1.735	2.088	2.532	2.700	3.325	4.168	5.380	5.899	6.393	7.357	8.343	9.414	10.656	11.389	12.242	14.684	16.919	19.023	19.679	21.666	23.589	27.877
10	1.479	2.156	2.558	3.059	3.247	3.940	4.865	6.179	6.737	7.267	8.295	9.342	10.473	11.781	12.549	13.442	15.987	18.307	20.483	21.161	23.209	25.188	29.588
11	1.834	2.603	3.054	3.609	3.816	4.575	5.578	6.989	7.584	8.148	9.237	10.341	11.530	12.899	13.701	14.631	17.275	19.675	21.920	22.618	24.725	26.757	31.264
12	2.214	3.074	3.571	4.178	4.404	5.226	6.304	7.807	8.438	9.034	10.182	11.340	12.584	14.011	14.845	15.812	18.549	21.026	23.337	24.054	26.217	28.299	32.909
13	2.617	3.565	4.107	4.765	5.009	5.892	7.042	8.634	9.299	9.926	11.129	12.340	13.636	15.119	15.984	16.985	19.812	22.362	24.736	25.472	27.688	29.819	34.529
14	3.041	4.075	4.660	5.368	5.629	6.571	7.790	9.467	10.165	10.821	12.078	13.339	14.685	16.222	17.117	18.151	21.064	23.685	26.119	26.873	29.141	31.319	36.124
15	3.483	4.601	5.229	5.985	6.262	7.261	8.547	10.307	11.037	11.721	13.030	14.339	15.733	17.322	18.245	19.311	22.307	24.996	27.488	28.260	30.578	32.801	37.698
16	3.942	5.142	5.812	6.614	6.908	7.962	9.312	11.152	11.912	12.624	13.983	15.339	16.780	18.418	19.369	20.465	23.542	26.296	28.845	29.633	32.000	34.267	39.253
17	4.416	5.697	6.408	7.255	7.564	8.672	10.085	12.002	12.792	13.531	14.937	16.338	17.824	19.511	20.489	21.615	24.769	27.587	30.191	30.995	33.409	35.719	40.790
18	4.905	6.265	7.015	7.906	8.231	9.390	10.865	12.857	13.675	14.440	15.893	17.338	18.868	20.601	21.605	22.760	25.989	28.869	31.526	32.346	34.805	37.156	42.312
19	5.407	6.844	7.633	8.567	8.906	10.117	11.651	13.716	14.562	15.352	16.850	18.338	19.910	21.689	22.718	23.900	27.204	30.144	32.852	33.687	36.191	38.582	43.821
20	5.921	7.434	8.260	9.237	9.591	10.851	12.443	14.578	15.452	16.266	17.809	19.337	20.951	22.775	23.828	25.037	28.412	31.410	34.170	35.020	37.566	39.997	45.315
21	6.446	8.034	8.897	9.915	10.283	11.591	13.240	15.445	16.344	17.182	18.768	20.337	21.992	23.858	24.935	26.171	29.615	32.671	35.479	36.343	38.932	41.401	46.797
22	6.983	8.643	9.542	10.600	10.982	12.338	14.041	16.314	17.240	18.101	19.729	21.337	23.031	24.939	26.039	27.301	30.813	33.924	36.781	37.659	40.289	42.796	48.268
23	7.529	9.260	10.196	11.293	11.689	13.091	14.848	17.187	18.137	19.021	20.690	22.337	24.069	26.018	27.141	28.429	32.007	35.172	38.076	38.968	41.638	44.181	49.728
24	8.085	9.886	10.856	11.992	12.401	13.848	15.659	18.062	19.037	19.943	21.652	23.337	25.106	27.096	28.241	29.553	33.196	36.415	39.364	40.270	42.980	45.559	51.179
25	8.649	10.520	11.524	12.697	13.120	14.611	16.473	18.940	19.939	20.867	22.616	24.337	26.143	28.172	29.339	30.675	34.382	37.652	40.646	41.566	44.314	46.928	52.620
26	9.222	11.160	12.198	13.409	13.844	15.379	17.292	19.820	20.843	21.792	23.579	25.336	27.179	29.246	30.435	31.795	35.563	38.885	41.923	42.856	45.642	48.290	54.052
27	9.803	11.808	12.879	14.125	14.573	16.151	18.114	20.703	21.749	22.719	24.544	26.336	28.214	30.319	31.528	32.912	36.741	40.113	43.195	44.140	46.963	49.645	55.477
28	10.391	12.461	13.565	14.847	15.308	16.928	18.939	21.588	22.657	23.647	25.509	27.336	29.249	31.391	32.621	34.027	37.916	41.337	44.461	45.419	48.278	50.993	56.892
29	10.986	13.121	14.256	15.574	16.047	17.708	19.768	22.475	23.567	24.577	26.475	28.336	30.283	32.461	33.711	35.139	39.087	42.557	45.722	46.693	49.588	52.336	58.301
30	11.588	13.787	14.953	16.306	16.791	18.493	20.599	23.364	24.478	25.508	27.442	29.336	31.316	33.530	34.800	36.250	40.256	43.773	46.979	47.962	50.892	53.672	59.702
31	12.196	14.458	15.655	17.042	17.539	19.281	21.434	24.255	25.390	26.440	28.409	30.336	32.349	34.598	35.887	37.359	41.422	44.985	48.232	49.226	52.191	55.003	61.098
32	12.810	15.134	16.362	17.783	18.291	20.072	22.271	25.148	26.304	27.373	29.376	31.336	33.381	35.665	36.973	38.466	42.585	46.194	49.480	50.487	53.486	56.328	62.487
33	13.431	15.815	17.073	18.527	19.047	20.867	23.110	26.042	27.219	28.307	30.344	32.336	34.413	36.731	38.058	39.572	43.745	47.400	50.725	51.743	54.775	57.648	63.870
34	14.057	16.501	17.789	19.275	19.806	21.664	23.952	26.938	28.136	29.242	31.313	33.336	35.444	37.795	39.141	40.676	44.903	48.602	51.966	52.995	56.061	58.964	65.246
35	14.688	17.192	18.509	20.027	20.569	22.465	24.797	27.836	29.054	30.178	32.282	34.336	36.475	38.859	40.223	41.778	46.059	49.802	53.203	54.244	57.342	60.275	66.620
40	17.916	20.707	22.164	23.838	24.433	26.509	29.051	32.345	33.660	34.872	37.134	39.335	41.622	44.165	45.616	47.269	51.805	55.759	59.342	60.436	63.691	66.766	73.402
45	21.250	24.311	25.901	27.720	28.366	30.612	33.350	36.884	38.291	39.585	41.995	44.335	46.761	49.452	50.985	52.729	57.505	61.656	65.410	66.555	69.957	73.166	80.077
50	24.674	27.991	29.707	31.664	32.357	34.764	37.689	41.449	42.942	44.313	46.864	49.335	51.892	54.723	56.334	58.164	63.167	67.505	71.420	72.613	76.154	79.490	86.660
55	28.174	31.735	33.570	35.659	36.398	38.958	42.060	46.036	47.610	49.055	51.739	54.335	57.016	59.980	61.665	63.577	68.796	73.311	77.380	78.619	82.292	85.749	93.167
60	31.738	35.535	37.485	39.699	40.482	43.188	46.459	50.641	52.294	53.809	56.620	59.335	62.135	65.227	66.981	68.972	74.397	79.082	83.298	84.580	88.379	91.952	99.607
65	35.361	39.383	41.444	43.779	44.603	47.450	50.883	55.262	56.990	58.573	61.506	64.335	67.249	70.462	72.285	74.351	79.973	84.821	89.177	90.501	94.422	98.105	105.99
70	39.036	43.275	45.442	47.893	48.758	51.739	55.329	59.898	61.698	63.346	66.396	69.334	72.358	75.689	77.577	79.715	85.527	90.531	95.023	96.388	100.43	104.21	112.32
75	42.757	47.206	49.475	52.039	52.942	56.054	59.795	64.547	66.417	68.127	71.290	74.334	77.464	80.908	82.858	85.066	91.061	96.217	100.84	102.24	106.39	110.29	118.60
80	46.520	51.172	53.540	56.213	57.153	60.391	64.278	69.207	71.145	72.915	76.188	79.334	82.566	86.120	88.130	90.405	96.578	101.88	106.63	108.07	112.33	116.32	124.84
90	54.155	59.196	61.754	64.635	65.647	69.126	73.291	78.558	80.625	82.511	85.993	89.334	92.761	96.524	98.650	101.05	107.56	113.15	118.14	119.65	124.12	128.30	137.21
100	61.918	67.328	70.065	73.142	74.222	77.929	82.358	87.945	90.133	92.129	95.808	99.334	102.95	106.91	109.14	111.67	118.50	124.34	129.56	131.14	135.81	140.17	149.45
150	102.11	109.14	112.67	116.61	117.98	122.69	128.28	135.26	137.98	140.46	145.00	149.33	153.75	158.58	161.29	164.35	172.58	179.58	185.80	187.68	193.21	198.36	209.26

Distribución t de Student

	α														
ν	**0.001**	**0.002**	**0.003**	**0.004**	**0.005**	**0.01**	**0.015**	**0.02**	**0.025**	**0.05**	**0.075**	**0.1**	**0.2**	**0.3**	**0.4**
1	318.29	159.14	106.10	79.572	63.656	31.821	21.205	15.894	12.706	6.314	4.165	3.078	1.376	0.727	0.325
2	22.328	15.764	12.852	11.113	9.925	6.965	5.643	4.849	4.303	2.920	2.282	1.886	1.061	0.617	0.289
3	10.214	8.052	6.994	6.322	5.841	4.541	3.896	3.482	3.182	2.353	1.924	1.638	0.978	0.584	0.277
4	7.173	5.951	5.321	4.908	4.604	3.747	3.298	2.999	2.776	2.132	1.778	1.533	0.941	0.569	0.271
5	5.894	5.030	4.570	4.262	4.032	3.365	3.003	2.757	2.571	2.015	1.699	1.476	0.920	0.559	0.267
6	5.208	4.524	4.152	3.898	3.707	3.143	2.829	2.612	2.447	1.943	1.650	1.440	0.906	0.553	0.265
7	4.785	4.207	3.887	3.667	3.499	2.998	2.715	2.517	2.365	1.895	1.617	1.415	0.896	0.549	0.263
8	4.501	3.991	3.705	3.507	3.355	2.896	2.634	2.449	2.306	1.860	1.592	1.397	0.889	0.546	0.262
9	4.297	3.835	3.573	3.390	3.250	2.821	2.574	2.398	2.262	1.833	1.574	1.383	0.883	0.543	0.261
10	4.144	3.716	3.472	3.301	3.169	2.764	2.527	2.359	2.228	1.812	1.559	1.372	0.879	0.542	0.260
11	4.025	3.624	3.393	3.231	3.106	2.718	2.491	2.328	2.201	1.796	1.548	1.363	0.876	0.540	0.260
12	3.930	3.550	3.330	3.175	3.055	2.681	2.461	2.303	2.179	1.782	1.538	1.356	0.873	0.539	0.259
13	3.852	3.489	3.278	3.128	3.012	2.650	2.436	2.282	2.160	1.771	1.530	1.350	0.870	0.538	0.259
14	3.787	3.438	3.234	3.089	2.977	2.624	2.415	2.264	2.145	1.761	1.523	1.345	0.868	0.537	0.258
15	3.733	3.395	3.197	3.056	2.947	2.602	2.397	2.249	2.131	1.753	1.517	1.341	0.866	0.536	0.258
16	3.686	3.358	3.165	3.028	2.921	2.583	2.382	2.235	2.120	1.746	1.512	1.337	0.865	0.535	0.258
17	3.646	3.326	3.138	3.003	2.898	2.567	2.368	2.224	2.110	1.740	1.508	1.333	0.863	0.534	0.257
18	3.610	3.298	3.113	2.982	2.878	2.552	2.356	2.214	2.101	1.734	1.504	1.330	0.862	0.534	0.257
19	3.579	3.273	3.092	2.962	2.861	2.539	2.346	2.205	2.093	1.729	1.500	1.328	0.861	0.533	0.257
20	3.552	3.251	3.073	2.945	2.845	2.528	2.336	2.197	2.086	1.725	1.497	1.325	0.860	0.533	0.257
21	3.527	3.231	3.056	2.930	2.831	2.518	2.328	2.189	2.080	1.721	1.494	1.323	0.859	0.532	0.257
22	3.505	3.214	3.041	2.916	2.819	2.508	2.320	2.183	2.074	1.717	1.492	1.321	0.858	0.532	0.256
23	3.485	3.198	3.027	2.904	2.807	2.500	2.313	2.177	2.069	1.714	1.489	1.319	0.858	0.532	0.256
24	3.467	3.183	3.014	2.892	2.797	2.492	2.307	2.172	2.064	1.711	1.487	1.318	0.857	0.531	0.256
25	3.450	3.170	3.003	2.882	2.787	2.485	2.301	2.167	2.060	1.708	1.485	1.316	0.856	0.531	0.256
26	3.435	3.158	2.992	2.873	2.779	2.479	2.296	2.162	2.056	1.706	1.483	1.315	0.856	0.531	0.256
27	3.421	3.146	2.982	2.864	2.771	2.473	2.291	2.158	2.052	1.703	1.482	1.314	0.855	0.531	0.256
28	3.408	3.136	2.973	2.856	2.763	2.467	2.286	2.154	2.048	1.701	1.480	1.313	0.855	0.530	0.256
29	3.396	3.127	2.965	2.848	2.756	2.462	2.282	2.150	2.045	1.699	1.479	1.311	0.854	0.530	0.256
30	3.385	3.118	2.957	2.841	2.750	2.457	2.278	2.147	2.042	1.697	1.477	1.310	0.854	0.530	0.256
31	3.375	3.109	2.950	2.835	2.744	2.453	2.275	2.144	2.040	1.696	1.476	1.309	0.853	0.530	0.256
32	3.365	3.102	2.943	2.829	2.738	2.449	2.271	2.141	2.037	1.694	1.475	1.309	0.853	0.530	0.255
33	3.356	3.094	2.937	2.823	2.733	2.445	2.268	2.138	2.035	1.692	1.474	1.308	0.853	0.530	0.255
34	3.348	3.088	2.931	2.818	2.728	2.441	2.265	2.136	2.032	1.691	1.473	1.307	0.852	0.529	0.255
35	3.340	3.081	2.926	2.813	2.724	2.438	2.262	2.133	2.030	1.690	1.472	1.306	0.852	0.529	0.255
40	3.307	3.055	2.902	2.792	2.704	2.423	2.250	2.123	2.021	1.684	1.468	1.303	0.851	0.529	0.255
45	3.281	3.034	2.884	2.776	2.690	2.412	2.241	2.115	2.014	1.679	1.465	1.301	0.850	0.528	0.255
50	3.261	3.018	2.870	2.763	2.678	2.403	2.234	2.109	2.009	1.676	1.462	1.299	0.849	0.528	0.255
55	3.245	3.004	2.859	2.752	2.668	2.396	2.228	2.104	2.004	1.673	1.460	1.297	0.848	0.527	0.255
60	3.232	2.994	2.849	2.744	2.660	2.390	2.223	2.099	2.000	1.671	1.458	1.296	0.848	0.527	0.254
65	3.220	2.984	2.841	2.736	2.654	2.385	2.219	2.096	1.997	1.669	1.457	1.295	0.847	0.527	0.254
70	3.211	2.977	2.834	2.730	2.648	2.381	2.215	2.093	1.994	1.667	1.456	1.294	0.847	0.527	0.254
75	3.202	2.970	2.828	2.725	2.643	2.377	2.212	2.090	1.992	1.665	1.454	1.293	0.846	0.527	0.254
80	3.195	2.964	2.823	2.720	2.639	2.374	2.209	2.088	1.990	1.664	1.453	1.292	0.846	0.526	0.254
90	3.183	2.954	2.815	2.713	2.632	2.368	2.205	2.084	1.987	1.662	1.452	1.291	0.846	0.526	0.254
100	3.174	2.946	2.808	2.706	2.626	2.364	2.201	2.081	1.984	1.660	1.451	1.290	0.845	0.526	0.254
150	3.145	2.923	2.787	2.688	2.609	2.351	2.191	2.072	1.976	1.655	1.447	1.287	0.844	0.526	0.254
∞	3.090	2.878	2.748	2.652	2.576	2.326	2.170	2.054	1.960	1.645	1.440	1.282	0.842	0.524	0.253

Tabla 5. VALORES F DE LA DISTRIBUCIÓN F DE FISHER

$1 - \alpha = 0.9$ ν_1 = grados de libertad del numerador

$1 - \alpha = P (F \leq f_{\alpha,\nu1,\nu2})$ ν_2 = grados de libertad del denominador

ν_2 \ ν_1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	39.864	49.500	53.593	55.833	57.240	58.204	58.906	59.439	59.857	60.195	60.473	60.705	60.902	61.073	61.220	61.350	61.465	61.566	61.658	61.740
2	8.526	9.000	9.162	9.243	9.293	9.326	9.349	9.367	9.381	9.392	9.401	9.408	9.415	9.420	9.425	9.429	9.433	9.436	9.439	9.441
3	5.538	5.462	5.391	5.343	5.309	5.285	5.266	5.252	5.240	5.230	5.222	5.216	5.210	5.205	5.200	5.196	5.193	5.190	5.187	5.184
4	4.545	4.325	4.191	4.107	4.051	4.010	3.979	3.955	3.936	3.920	3.907	3.896	3.886	3.878	3.870	3.864	3.858	3.853	3.848	3.844
5	4.060	3.780	3.619	3.520	3.453	3.405	3.368	3.339	3.316	3.297	3.282	3.268	3.257	3.247	3.238	3.230	3.223	3.217	3.212	3.207
6	3.776	3.463	3.289	3.181	3.108	3.055	3.014	2.983	2.958	2.937	2.920	2.905	2.892	2.881	2.871	2.863	2.855	2.848	2.842	2.836
7	3.589	3.257	3.074	2.961	2.883	2.827	2.785	2.752	2.725	2.703	2.684	2.668	2.654	2.643	2.632	2.623	2.615	2.607	2.601	2.595
8	3.458	3.113	2.924	2.806	2.726	2.668	2.624	2.589	2.561	2.538	2.519	2.502	2.488	2.475	2.464	2.454	2.446	2.438	2.431	2.425
9	3.360	3.006	2.813	2.693	2.611	2.551	2.505	2.469	2.440	2.416	2.396	2.379	2.364	2.351	2.340	2.330	2.320	2.312	2.305	2.298
10	3.285	2.924	2.728	2.605	2.522	2.461	2.414	2.377	2.347	2.323	2.302	2.284	2.269	2.255	2.244	2.233	2.224	2.215	2.208	2.201
11	3.225	2.860	2.660	2.536	2.451	2.389	2.342	2.304	2.274	2.248	2.227	2.209	2.193	2.179	2.167	2.156	2.147	2.138	2.130	2.123
12	3.177	2.807	2.606	2.480	2.394	2.331	2.283	2.245	2.214	2.188	2.166	2.147	2.131	2.117	2.105	2.094	2.084	2.075	2.067	2.060
13	3.136	2.763	2.560	2.434	2.347	2.283	2.234	2.195	2.164	2.138	2.116	2.097	2.080	2.066	2.053	2.042	2.032	2.023	2.014	2.007
14	3.102	2.726	2.522	2.395	2.307	2.243	2.193	2.154	2.122	2.095	2.073	2.054	2.037	2.022	2.010	1.998	1.988	1.978	1.970	1.962
15	3.073	2.695	2.490	2.361	2.273	2.208	2.158	2.119	2.086	2.059	2.037	2.017	2.000	1.985	1.972	1.961	1.950	1.941	1.932	1.924
16	3.048	2.668	2.462	2.333	2.244	2.178	2.128	2.088	2.055	2.028	2.005	1.985	1.968	1.953	1.940	1.928	1.917	1.908	1.899	1.891
17	3.026	2.645	2.437	2.308	2.218	2.152	2.102	2.061	2.028	2.001	1.978	1.958	1.940	1.925	1.912	1.900	1.889	1.879	1.870	1.862
18	3.007	2.624	2.416	2.286	2.196	2.130	2.079	2.038	2.005	1.977	1.954	1.933	1.916	1.900	1.887	1.875	1.864	1.854	1.845	1.837
19	2.990	2.606	2.397	2.266	2.176	2.109	2.058	2.017	1.984	1.956	1.932	1.912	1.894	1.878	1.865	1.852	1.841	1.831	1.822	1.814
20	2.975	2.589	2.380	2.249	2.158	2.091	2.040	1.999	1.965	1.937	1.913	1.892	1.875	1.859	1.845	1.833	1.821	1.811	1.802	1.794
21	2.961	2.575	2.365	2.233	2.142	2.075	2.023	1.982	1.948	1.920	1.896	1.875	1.857	1.841	1.827	1.815	1.803	1.793	1.784	1.776
22	2.949	2.561	2.351	2.219	2.128	2.060	2.008	1.967	1.933	1.904	1.880	1.859	1.841	1.825	1.811	1.798	1.787	1.777	1.768	1.759
23	2.937	2.549	2.339	2.207	2.115	2.047	1.995	1.953	1.919	1.890	1.866	1.845	1.827	1.811	1.796	1.784	1.772	1.762	1.753	1.744
24	2.927	2.538	2.327	2.195	2.103	2.035	1.983	1.941	1.906	1.877	1.853	1.832	1.814	1.797	1.783	1.770	1.759	1.748	1.739	1.730
25	2.918	2.528	2.317	2.184	2.092	2.024	1.971	1.929	1.895	1.866	1.841	1.820	1.802	1.785	1.771	1.758	1.746	1.736	1.726	1.718
26	2.909	2.519	2.307	2.174	2.082	2.014	1.961	1.919	1.884	1.855	1.830	1.809	1.790	1.774	1.760	1.747	1.735	1.724	1.715	1.706
27	2.901	2.511	2.299	2.165	2.073	2.005	1.952	1.909	1.874	1.845	1.820	1.799	1.780	1.764	1.749	1.736	1.724	1.714	1.704	1.695
28	2.894	2.503	2.291	2.157	2.064	1.996	1.943	1.900	1.865	1.836	1.811	1.790	1.771	1.754	1.740	1.726	1.715	1.704	1.694	1.685
29	2.887	2.495	2.283	2.149	2.057	1.988	1.935	1.892	1.857	1.827	1.802	1.781	1.762	1.745	1.731	1.717	1.705	1.695	1.685	1.676
30	2.881	2.489	2.276	2.142	2.049	1.980	1.927	1.884	1.849	1.819	1.794	1.773	1.754	1.737	1.722	1.709	1.697	1.686	1.676	1.667
40	2.835	2.440	2.226	2.091	1.997	1.927	1.873	1.829	1.793	1.763	1.737	1.715	1.695	1.678	1.662	1.649	1.636	1.625	1.615	1.605
50	2.809	2.412	2.197	2.061	1.966	1.895	1.840	1.796	1.760	1.729	1.703	1.680	1.660	1.643	1.627	1.613	1.600	1.588	1.578	1.568
60	2.791	2.393	2.177	2.041	1.946	1.875	1.819	1.775	1.738	1.707	1.680	1.657	1.637	1.619	1.603	1.589	1.576	1.564	1.553	1.543
70	2.779	2.380	2.164	2.027	1.931	1.860	1.804	1.760	1.723	1.691	1.665	1.641	1.621	1.603	1.587	1.572	1.559	1.547	1.536	1.526
80	2.769	2.370	2.154	2.016	1.921	1.849	1.793	1.748	1.711	1.680	1.653	1.629	1.609	1.590	1.574	1.559	1.546	1.534	1.523	1.513
90	2.762	2.363	2.146	2.008	1.912	1.841	1.785	1.739	1.702	1.670	1.643	1.620	1.599	1.581	1.564	1.550	1.536	1.524	1.513	1.503
100	2.756	2.356	2.139	2.002	1.906	1.834	1.778	1.732	1.695	1.663	1.636	1.612	1.592	1.573	1.557	1.542	1.528	1.516	1.505	1.494
200	2.731	2.329	2.111	1.973	1.876	1.804	1.747	1.701	1.663	1.631	1.603	1.579	1.558	1.539	1.522	1.507	1.493	1.480	1.468	1.458
500	2.716	2.313	2.095	1.956	1.859	1.786	1.729	1.683	1.644	1.612	1.583	1.559	1.537	1.518	1.501	1.485	1.471	1.458	1.446	1.435
1000	2.711	2.308	2.089	1.950	1.853	1.780	1.723	1.676	1.638	1.605	1.577	1.552	1.531	1.511	1.494	1.478	1.464	1.451	1.439	1.428

Elaborada por Irene Patricia Valdez y Alfaro.

Tabla 5. VALORES F DE LA DISTRIBUCIÓN F DE FISHER

$1 - \alpha = 0.9$

$1 - \alpha = P (F \leq f_{\alpha,\nu_1,\nu_2})$

ν_2 \ ν_1	21	22	23	24	25	26	27	28	29	30	40	50	60	70	80	90	100	200	500	1000
1	61.815	61.883	61.945	62.002	62.055	62.103	62.148	62.189	62.229	62.265	62.529	62.688	62.794	62.871	62.927	62.972	63.007	63.167	63.264	63.296
2	9.444	9.446	9.448	9.450	9.451	9.453	9.454	9.456	9.457	9.458	9.466	9.471	9.475	9.477	9.479	9.480	9.481	9.486	9.489	9.490
3	5.182	5.180	5.178	5.176	5.175	5.173	5.172	5.170	5.169	5.168	5.160	5.155	5.151	5.149	5.147	5.145	5.144	5.139	5.136	5.135
4	3.841	3.837	3.834	3.831	3.828	3.826	3.823	3.821	3.819	3.817	3.804	3.795	3.790	3.786	3.782	3.780	3.778	3.769	3.764	3.762
5	3.202	3.198	3.194	3.191	3.187	3.184	3.181	3.179	3.176	3.174	3.157	3.147	3.140	3.135	3.132	3.129	3.126	3.116	3.109	3.107
6	2.831	2.827	2.822	2.818	2.815	2.811	2.808	2.805	2.803	2.800	2.781	2.770	2.762	2.756	2.752	2.749	2.746	2.734	2.727	2.725
7	2.589	2.584	2.580	2.575	2.571	2.568	2.564	2.561	2.558	2.555	2.535	2.523	2.514	2.508	2.504	2.500	2.497	2.484	2.476	2.473
8	2.419	2.414	2.409	2.404	2.400	2.396	2.392	2.389	2.386	2.383	2.361	2.348	2.339	2.333	2.328	2.324	2.321	2.307	2.298	2.295
9	2.292	2.287	2.282	2.277	2.272	2.268	2.265	2.261	2.258	2.255	2.232	2.218	2.208	2.202	2.196	2.192	2.189	2.174	2.165	2.162
10	2.194	2.189	2.183	2.178	2.174	2.170	2.166	2.162	2.159	2.155	2.132	2.117	2.107	2.100	2.095	2.090	2.087	2.071	2.062	2.059
11	2.117	2.111	2.105	2.100	2.095	2.091	2.087	2.083	2.080	2.076	2.052	2.036	2.026	2.019	2.013	2.009	2.005	1.989	1.979	1.975
12	2.053	2.047	2.041	2.036	2.031	2.027	2.022	2.019	2.015	2.011	1.986	1.970	1.960	1.952	1.946	1.942	1.938	1.921	1.911	1.907
13	2.000	1.994	1.988	1.983	1.978	1.973	1.969	1.965	1.961	1.958	1.931	1.915	1.904	1.896	1.890	1.886	1.882	1.864	1.853	1.850
14	1.955	1.949	1.943	1.938	1.933	1.928	1.923	1.919	1.916	1.912	1.885	1.869	1.857	1.849	1.843	1.838	1.834	1.816	1.805	1.801
15	1.917	1.911	1.905	1.899	1.894	1.889	1.885	1.880	1.876	1.873	1.845	1.828	1.817	1.808	1.802	1.797	1.793	1.774	1.763	1.759
16	1.884	1.877	1.871	1.866	1.860	1.855	1.851	1.847	1.843	1.839	1.811	1.793	1.782	1.773	1.766	1.761	1.757	1.738	1.726	1.722
17	1.855	1.848	1.842	1.836	1.831	1.826	1.821	1.817	1.813	1.809	1.781	1.763	1.751	1.742	1.735	1.730	1.726	1.706	1.694	1.690
18	1.829	1.823	1.816	1.810	1.805	1.800	1.795	1.791	1.787	1.783	1.754	1.736	1.723	1.714	1.707	1.702	1.698	1.678	1.665	1.661
19	1.807	1.800	1.793	1.787	1.782	1.777	1.772	1.767	1.763	1.759	1.730	1.711	1.699	1.690	1.683	1.677	1.673	1.652	1.639	1.635
20	1.786	1.779	1.773	1.767	1.761	1.756	1.751	1.746	1.742	1.738	1.708	1.690	1.677	1.667	1.660	1.655	1.650	1.629	1.616	1.612
21	1.768	1.761	1.754	1.748	1.742	1.737	1.732	1.728	1.723	1.719	1.689	1.670	1.657	1.647	1.640	1.634	1.630	1.608	1.595	1.591
22	1.751	1.744	1.737	1.731	1.726	1.720	1.715	1.711	1.706	1.702	1.671	1.652	1.639	1.629	1.622	1.616	1.611	1.590	1.576	1.571
23	1.736	1.729	1.722	1.716	1.710	1.705	1.700	1.695	1.691	1.686	1.655	1.636	1.622	1.613	1.605	1.599	1.594	1.572	1.558	1.554
24	1.722	1.715	1.708	1.702	1.696	1.691	1.686	1.681	1.676	1.672	1.641	1.621	1.607	1.597	1.590	1.584	1.579	1.556	1.542	1.538
25	1.710	1.702	1.695	1.689	1.683	1.678	1.672	1.668	1.663	1.659	1.627	1.607	1.593	1.583	1.576	1.569	1.565	1.542	1.527	1.523
26	1.698	1.690	1.683	1.677	1.671	1.666	1.660	1.656	1.651	1.647	1.615	1.594	1.581	1.570	1.562	1.556	1.551	1.528	1.514	1.509
27	1.687	1.680	1.673	1.666	1.660	1.655	1.649	1.645	1.640	1.636	1.603	1.583	1.569	1.558	1.550	1.544	1.539	1.515	1.501	1.496
28	1.677	1.669	1.662	1.656	1.650	1.644	1.639	1.634	1.630	1.625	1.592	1.572	1.558	1.547	1.539	1.533	1.528	1.504	1.489	1.484
29	1.668	1.660	1.653	1.647	1.640	1.635	1.630	1.625	1.620	1.616	1.583	1.562	1.547	1.537	1.529	1.522	1.517	1.493	1.478	1.472
30	1.659	1.651	1.644	1.638	1.632	1.626	1.621	1.616	1.611	1.606	1.573	1.552	1.538	1.527	1.519	1.512	1.507	1.482	1.467	1.462
40	1.596	1.588	1.581	1.574	1.568	1.562	1.556	1.551	1.546	1.541	1.506	1.483	1.467	1.455	1.447	1.439	1.434	1.406	1.389	1.383
50	1.559	1.551	1.543	1.536	1.529	1.523	1.517	1.512	1.507	1.502	1.465	1.441	1.424	1.412	1.402	1.395	1.388	1.359	1.340	1.333
60	1.534	1.526	1.518	1.511	1.504	1.498	1.492	1.486	1.481	1.476	1.437	1.413	1.395	1.382	1.372	1.364	1.358	1.326	1.306	1.299
70	1.517	1.508	1.500	1.493	1.486	1.479	1.473	1.467	1.462	1.457	1.418	1.392	1.374	1.361	1.350	1.342	1.335	1.302	1.281	1.273
80	1.503	1.495	1.487	1.479	1.472	1.465	1.459	1.453	1.448	1.443	1.403	1.377	1.358	1.344	1.334	1.325	1.318	1.284	1.261	1.253
90	1.493	1.484	1.476	1.468	1.461	1.455	1.448	1.442	1.437	1.432	1.391	1.365	1.346	1.332	1.321	1.312	1.304	1.269	1.245	1.237
100	1.485	1.476	1.468	1.460	1.453	1.446	1.440	1.434	1.428	1.423	1.382	1.355	1.336	1.321	1.310	1.301	1.293	1.257	1.232	1.223
200	1.448	1.438	1.430	1.422	1.414	1.407	1.400	1.394	1.388	1.383	1.339	1.310	1.289	1.273	1.261	1.250	1.242	1.199	1.168	1.157
500	1.425	1.416	1.407	1.399	1.391	1.384	1.377	1.370	1.364	1.358	1.313	1.282	1.260	1.243	1.229	1.218	1.209	1.160	1.122	1.106
1000	1.418	1.408	1.399	1.391	1.383	1.376	1.369	1.362	1.356	1.350	1.304	1.273	1.250	1.232	1.218	1.207	1.197	1.145	1.103	1.084

Elaborada por Irene Patricia Valdez y Alfaro.

Tabla 5. VALORES F DE LA DISTRIBUCIÓN F DE FISHER

$1 - \alpha = 0.95$ ν_1 = grados de libertad del numerador

$1 - \alpha = P (F \leq f_{\alpha,\nu_1,\nu_2})$ ν_2 = grados de libertad del denominador

ν_2 \ ν_1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	161.446	199.499	215.707	224.583	230.160	233.988	236.767	238.884	240.543	241.882	242.981	243.905	244.690	245.363	245.949	246.466	246.917	247.324	247.688	248.016
2	18.513	19.000	19.164	19.247	19.296	19.329	19.353	19.371	19.385	19.396	19.405	19.412	19.419	19.424	19.429	19.433	19.437	19.440	19.443	19.446
3	10.128	9.552	9.277	9.117	9.013	8.941	8.887	8.845	8.812	8.785	8.763	8.745	8.729	8.715	8.703	8.692	8.683	8.675	8.667	8.660
4	7.709	6.944	6.591	6.388	6.256	6.163	6.094	6.041	5.999	5.964	5.936	5.912	5.891	5.873	5.858	5.844	5.832	5.821	5.811	5.803
5	6.608	5.786	5.409	5.192	5.050	4.950	4.876	4.818	4.772	4.735	4.704	4.678	4.655	4.636	4.619	4.604	4.590	4.579	4.568	4.558
6	5.987	5.143	4.757	4.534	4.387	4.284	4.207	4.147	4.099	4.060	4.027	4.000	3.976	3.956	3.938	3.922	3.908	3.896	3.884	3.874
7	5.591	4.737	4.347	4.120	3.972	3.866	3.787	3.726	3.677	3.637	3.603	3.575	3.550	3.529	3.511	3.494	3.480	3.467	3.455	3.445
8	5.318	4.459	4.066	3.838	3.688	3.581	3.500	3.438	3.388	3.347	3.313	3.284	3.259	3.237	3.218	3.202	3.187	3.173	3.161	3.150
9	5.117	4.256	3.863	3.633	3.482	3.374	3.293	3.230	3.179	3.137	3.102	3.073	3.048	3.025	3.006	2.989	2.974	2.960	2.948	2.936
10	4.965	4.103	3.708	3.478	3.326	3.217	3.135	3.072	3.020	2.978	2.943	2.913	2.887	2.865	2.845	2.828	2.812	2.798	2.785	2.774
11	4.844	3.982	3.587	3.357	3.204	3.095	3.012	2.948	2.896	2.854	2.818	2.788	2.761	2.739	2.719	2.701	2.685	2.671	2.658	2.646
12	4.747	3.885	3.490	3.259	3.106	2.996	2.913	2.849	2.796	2.753	2.717	2.687	2.660	2.637	2.617	2.599	2.583	2.568	2.555	2.544
13	4.667	3.806	3.411	3.179	3.025	2.915	2.832	2.767	2.714	2.671	2.635	2.604	2.577	2.554	2.533	2.515	2.499	2.484	2.471	2.459
14	4.600	3.739	3.344	3.112	2.958	2.848	2.764	2.699	2.646	2.602	2.565	2.534	2.507	2.484	2.463	2.445	2.428	2.413	2.400	2.388
15	4.543	3.682	3.287	3.056	2.901	2.790	2.707	2.641	2.588	2.544	2.507	2.475	2.448	2.424	2.403	2.385	2.368	2.353	2.340	2.328
16	4.494	3.634	3.239	3.007	2.852	2.741	2.657	2.591	2.538	2.494	2.456	2.425	2.397	2.373	2.352	2.333	2.317	2.302	2.288	2.276
17	4.451	3.592	3.197	2.965	2.810	2.699	2.614	2.548	2.494	2.450	2.413	2.381	2.353	2.329	2.308	2.289	2.272	2.257	2.243	2.230
18	4.414	3.555	3.160	2.928	2.773	2.661	2.577	2.510	2.456	2.412	2.374	2.342	2.314	2.290	2.269	2.250	2.233	2.217	2.203	2.191
19	4.381	3.522	3.127	2.895	2.740	2.628	2.544	2.477	2.423	2.378	2.340	2.308	2.280	2.256	2.234	2.215	2.198	2.182	2.168	2.155
20	4.351	3.493	3.098	2.866	2.711	2.599	2.514	2.447	2.393	2.348	2.310	2.278	2.250	2.225	2.203	2.184	2.167	2.151	2.137	2.124
21	4.325	3.467	3.072	2.840	2.685	2.573	2.488	2.420	2.366	2.321	2.283	2.250	2.222	2.197	2.176	2.156	2.139	2.123	2.109	2.096
22	4.301	3.443	3.049	2.817	2.661	2.549	2.464	2.397	2.342	2.297	2.259	2.226	2.198	2.173	2.151	2.131	2.114	2.098	2.084	2.071
23	4.279	3.422	3.028	2.796	2.640	2.528	2.442	2.375	2.320	2.275	2.236	2.204	2.175	2.150	2.128	2.109	2.091	2.075	2.061	2.048
24	4.260	3.403	3.009	2.776	2.621	2.508	2.423	2.355	2.300	2.255	2.216	2.183	2.155	2.130	2.108	2.088	2.070	2.054	2.040	2.027
25	4.242	3.385	2.991	2.759	2.603	2.490	2.405	2.337	2.282	2.236	2.198	2.165	2.136	2.111	2.089	2.069	2.051	2.035	2.021	2.007
26	4.225	3.369	2.975	2.743	2.587	2.474	2.388	2.321	2.265	2.220	2.181	2.148	2.119	2.094	2.072	2.052	2.034	2.018	2.003	1.990
27	4.210	3.354	2.960	2.728	2.572	2.459	2.373	2.305	2.250	2.204	2.166	2.132	2.103	2.078	2.056	2.036	2.018	2.002	1.987	1.974
28	4.196	3.340	2.947	2.714	2.558	2.445	2.359	2.291	2.236	2.190	2.151	2.118	2.089	2.064	2.041	2.021	2.003	1.987	1.972	1.959
29	4.183	3.328	2.934	2.701	2.545	2.432	2.346	2.278	2.223	2.177	2.138	2.104	2.075	2.050	2.027	2.007	1.989	1.973	1.958	1.945
30	4.171	3.316	2.922	2.690	2.534	2.421	2.334	2.266	2.211	2.165	2.126	2.092	2.063	2.037	2.015	1.995	1.976	1.960	1.945	1.932
40	4.085	3.232	2.839	2.606	2.449	2.336	2.249	2.180	2.124	2.077	2.038	2.003	1.974	1.948	1.924	1.904	1.885	1.868	1.853	1.839
50	4.034	3.183	2.790	2.557	2.400	2.286	2.199	2.130	2.073	2.026	1.986	1.952	1.921	1.895	1.871	1.850	1.831	1.814	1.798	1.784
60	4.001	3.150	2.758	2.525	2.368	2.254	2.167	2.097	2.040	1.993	1.952	1.917	1.887	1.860	1.836	1.815	1.796	1.778	1.763	1.748
70	3.978	3.128	2.736	2.503	2.346	2.231	2.143	2.074	2.017	1.969	1.928	1.893	1.863	1.836	1.812	1.790	1.771	1.753	1.737	1.722
80	3.960	3.111	2.719	2.486	2.329	2.214	2.126	2.056	1.999	1.951	1.910	1.875	1.845	1.817	1.793	1.772	1.752	1.734	1.718	1.703
90	3.947	3.098	2.706	2.473	2.316	2.201	2.113	2.043	1.986	1.938	1.897	1.861	1.830	1.803	1.779	1.757	1.737	1.720	1.703	1.688
100	3.936	3.087	2.696	2.463	2.305	2.191	2.103	2.032	1.975	1.927	1.886	1.850	1.819	1.792	1.768	1.746	1.726	1.708	1.691	1.676
200	3.888	3.041	2.650	2.417	2.259	2.144	2.056	1.985	1.927	1.878	1.837	1.801	1.769	1.742	1.717	1.694	1.674	1.656	1.639	1.623
500	3.860	3.014	2.623	2.390	2.232	2.117	2.028	1.957	1.899	1.850	1.808	1.772	1.740	1.712	1.686	1.664	1.643	1.625	1.607	1.592
1000	3.851	3.005	2.614	2.381	2.223	2.108	2.019	1.948	1.889	1.840	1.798	1.762	1.730	1.702	1.676	1.654	1.633	1.614	1.597	1.581

Elaborada por Irene Patricia Valdez y Alfaro.

Tabla 5. VALORES F DE LA DISTRIBUCIÓN F DE FISHER

$1 - \alpha = 0.95$

$1 - \alpha = P (F \leq f_{\alpha,\nu_1,\nu_2})$

ν_2 \ ν_1	21	22	23	24	25	26	27	28	29	30	40	50	60	70	80	90	100	200	500	1000
1	248.307	248.579	248.823	249.052	249.260	249.453	249.631	249.798	249.951	250.096	251.144	251.774	252.196	252.498	252.723	252.898	253.043	253.676	254.062	254.186
2	19.448	19.450	19.452	19.454	19.456	19.457	19.459	19.460	19.461	19.463	19.471	19.476	19.479	19.481	19.483	19.485	19.486	19.491	19.494	19.495
3	8.654	8.648	8.643	8.638	8.634	8.630	8.626	8.623	8.620	8.617	8.594	8.581	8.572	8.566	8.561	8.557	8.554	8.540	8.532	8.529
4	5.795	5.787	5.781	5.774	5.769	5.763	5.759	5.754	5.750	5.746	5.717	5.699	5.688	5.679	5.673	5.668	5.664	5.646	5.635	5.632
5	4.549	4.541	4.534	4.527	4.521	4.515	4.510	4.505	4.500	4.496	4.464	4.444	4.431	4.422	4.415	4.409	4.405	4.385	4.373	4.369
6	3.865	3.856	3.849	3.841	3.835	3.829	3.823	3.818	3.813	3.808	3.774	3.754	3.740	3.730	3.722	3.716	3.712	3.690	3.678	3.673
7	3.435	3.426	3.418	3.410	3.404	3.397	3.391	3.386	3.381	3.376	3.340	3.319	3.304	3.294	3.286	3.280	3.275	3.252	3.239	3.234
8	3.140	3.131	3.123	3.115	3.108	3.102	3.095	3.090	3.084	3.079	3.043	3.020	3.005	2.994	2.986	2.980	2.975	2.951	2.937	2.932
9	2.926	2.917	2.908	2.900	2.893	2.886	2.880	2.874	2.869	2.864	2.826	2.803	2.787	2.776	2.768	2.761	2.756	2.731	2.717	2.712
10	2.764	2.754	2.745	2.737	2.730	2.723	2.716	2.710	2.705	2.700	2.661	2.637	2.621	2.609	2.601	2.594	2.588	2.563	2.548	2.543
11	2.636	2.626	2.617	2.609	2.601	2.594	2.588	2.582	2.576	2.570	2.531	2.507	2.490	2.478	2.469	2.462	2.457	2.431	2.415	2.410
12	2.533	2.523	2.514	2.505	2.498	2.491	2.484	2.478	2.472	2.466	2.426	2.401	2.384	2.372	2.363	2.356	2.350	2.323	2.307	2.302
13	2.448	2.438	2.429	2.420	2.412	2.405	2.398	2.392	2.386	2.380	2.339	2.314	2.297	2.284	2.275	2.267	2.261	2.234	2.218	2.212
14	2.377	2.367	2.357	2.349	2.341	2.333	2.326	2.320	2.314	2.308	2.266	2.241	2.223	2.210	2.201	2.193	2.187	2.159	2.142	2.136
15	2.316	2.306	2.297	2.288	2.280	2.272	2.265	2.259	2.253	2.247	2.204	2.178	2.160	2.147	2.137	2.130	2.123	2.095	2.078	2.072
16	2.264	2.254	2.244	2.235	2.227	2.220	2.212	2.206	2.200	2.194	2.151	2.124	2.106	2.093	2.083	2.075	2.068	2.039	2.022	2.016
17	2.219	2.208	2.199	2.190	2.181	2.174	2.167	2.160	2.154	2.148	2.104	2.077	2.058	2.045	2.035	2.027	2.020	1.991	1.973	1.967
18	2.179	2.168	2.159	2.150	2.141	2.134	2.126	2.119	2.113	2.107	2.063	2.035	2.017	2.003	1.993	1.985	1.978	1.948	1.929	1.923
19	2.144	2.133	2.123	2.114	2.106	2.098	2.090	2.084	2.077	2.071	2.026	1.999	1.980	1.966	1.955	1.947	1.940	1.910	1.891	1.884
20	2.112	2.102	2.092	2.082	2.074	2.066	2.059	2.052	2.045	2.039	1.994	1.966	1.946	1.932	1.922	1.913	1.907	1.875	1.856	1.850
21	2.084	2.073	2.063	2.054	2.045	2.037	2.030	2.023	2.016	2.010	1.965	1.936	1.916	1.902	1.891	1.883	1.876	1.845	1.825	1.818
22	2.059	2.048	2.038	2.028	2.020	2.012	2.004	1.997	1.990	1.984	1.938	1.909	1.889	1.875	1.864	1.856	1.849	1.817	1.797	1.790
23	2.036	2.025	2.014	2.005	1.996	1.988	1.981	1.973	1.967	1.961	1.914	1.885	1.865	1.850	1.839	1.830	1.823	1.791	1.771	1.764
24	2.015	2.003	1.993	1.984	1.975	1.967	1.959	1.952	1.945	1.939	1.892	1.863	1.842	1.828	1.816	1.808	1.800	1.768	1.747	1.740
25	1.995	1.984	1.974	1.964	1.955	1.947	1.939	1.932	1.926	1.919	1.872	1.842	1.822	1.807	1.796	1.787	1.779	1.746	1.725	1.718
26	1.978	1.966	1.956	1.946	1.938	1.929	1.921	1.914	1.907	1.901	1.853	1.823	1.803	1.788	1.776	1.767	1.760	1.726	1.705	1.698
27	1.961	1.950	1.940	1.930	1.921	1.913	1.905	1.898	1.891	1.884	1.836	1.806	1.785	1.770	1.758	1.749	1.742	1.708	1.686	1.679
28	1.946	1.935	1.924	1.915	1.906	1.897	1.889	1.882	1.875	1.869	1.820	1.790	1.769	1.754	1.742	1.733	1.725	1.691	1.669	1.662
29	1.932	1.921	1.910	1.901	1.891	1.883	1.875	1.868	1.861	1.854	1.806	1.775	1.754	1.738	1.726	1.717	1.710	1.675	1.653	1.645
30	1.919	1.908	1.897	1.887	1.878	1.870	1.862	1.854	1.847	1.841	1.792	1.761	1.740	1.724	1.712	1.703	1.695	1.660	1.637	1.630
40	1.826	1.814	1.803	1.793	1.783	1.775	1.766	1.759	1.751	1.744	1.693	1.660	1.637	1.621	1.608	1.597	1.589	1.551	1.526	1.517
50	1.771	1.759	1.748	1.737	1.727	1.718	1.710	1.702	1.694	1.687	1.634	1.599	1.576	1.558	1.544	1.534	1.525	1.484	1.457	1.448
60	1.735	1.722	1.711	1.700	1.690	1.681	1.672	1.664	1.656	1.649	1.594	1.559	1.534	1.516	1.502	1.491	1.481	1.438	1.409	1.399
70	1.709	1.696	1.685	1.674	1.664	1.654	1.646	1.637	1.629	1.622	1.566	1.530	1.505	1.486	1.471	1.459	1.450	1.404	1.374	1.364
80	1.689	1.677	1.665	1.654	1.644	1.634	1.626	1.617	1.609	1.602	1.545	1.508	1.482	1.463	1.448	1.436	1.426	1.379	1.347	1.336
90	1.675	1.662	1.650	1.639	1.629	1.619	1.610	1.601	1.593	1.586	1.528	1.491	1.465	1.445	1.429	1.417	1.407	1.358	1.326	1.314
100	1.663	1.650	1.638	1.627	1.616	1.607	1.598	1.589	1.581	1.573	1.515	1.477	1.450	1.430	1.415	1.402	1.392	1.342	1.308	1.296
200	1.609	1.596	1.583	1.572	1.561	1.551	1.542	1.533	1.524	1.516	1.455	1.415	1.386	1.364	1.346	1.332	1.321	1.263	1.221	1.205
500	1.577	1.563	1.551	1.539	1.528	1.518	1.508	1.499	1.490	1.482	1.419	1.376	1.345	1.322	1.303	1.288	1.275	1.210	1.159	1.138
1000	1.566	1.553	1.540	1.528	1.517	1.507	1.497	1.488	1.479	1.471	1.406	1.363	1.332	1.308	1.289	1.273	1.260	1.190	1.134	1.110

Elaborada por Irene Patricia Valdez y Alfaro.

Tabla 5. VALORES F DE LA DISTRIBUCIÓN F DE FISHER

$1 - \alpha = 0.975$ ν_1 = grados de libertad del numerador

$1 - \alpha = P (F \leq f_{\alpha,\nu_1,\nu_2})$ ν_2 = grados de libertad del denominador

ν_2 \ ν_1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	647.793	799.482	864.151	899.599	921.835	937.114	948.203	956.643	963.279	968.634	973.028	976.725	979.839	982.545	984.874	986.911	988.715	990.345	991.800	993.081
2	38.506	39.000	39.166	39.248	39.298	39.331	39.356	39.373	39.387	39.398	39.407	39.415	39.421	39.427	39.431	39.436	39.439	39.442	39.446	39.448
3	17.443	16.044	15.439	15.101	14.885	14.735	14.624	14.540	14.473	14.419	14.374	14.337	14.305	14.277	14.253	14.232	14.213	14.196	14.181	14.167
4	12.218	10.649	9.979	9.604	9.364	9.197	9.074	8.980	8.905	8.844	8.794	8.751	8.715	8.684	8.657	8.633	8.611	8.592	8.575	8.560
5	10.007	8.434	7.764	7.388	7.146	6.978	6.853	6.757	6.681	6.619	6.568	6.525	6.488	6.456	6.428	6.403	6.381	6.362	6.344	6.329
6	8.813	7.260	6.599	6.227	5.988	5.820	5.695	5.600	5.523	5.461	5.410	5.366	5.329	5.297	5.269	5.244	5.222	5.202	5.184	5.168
7	8.073	6.542	5.890	5.523	5.285	5.119	4.995	4.899	4.823	4.761	4.709	4.666	4.628	4.596	4.568	4.543	4.521	4.501	4.483	4.467
8	7.571	6.059	5.416	5.053	4.817	4.652	4.529	4.433	4.357	4.295	4.243	4.200	4.162	4.130	4.101	4.076	4.054	4.034	4.016	3.999
9	7.209	5.715	5.078	4.718	4.484	4.320	4.197	4.102	4.026	3.964	3.912	3.868	3.831	3.798	3.769	3.744	3.722	3.701	3.683	3.667
10	6.937	5.456	4.826	4.468	4.236	4.072	3.950	3.855	3.779	3.717	3.665	3.621	3.583	3.550	3.522	3.496	3.474	3.453	3.435	3.419
11	6.724	5.256	4.630	4.275	4.044	3.881	3.759	3.664	3.588	3.526	3.474	3.430	3.392	3.359	3.330	3.304	3.282	3.261	3.243	3.226
12	6.554	5.096	4.474	4.121	3.891	3.728	3.607	3.512	3.436	3.374	3.321	3.277	3.239	3.206	3.177	3.152	3.129	3.108	3.090	3.073
13	6.414	4.965	4.347	3.996	3.767	3.604	3.483	3.388	3.312	3.250	3.197	3.153	3.115	3.082	3.053	3.027	3.004	2.983	2.965	2.948
14	6.298	4.857	4.242	3.892	3.663	3.501	3.380	3.285	3.209	3.147	3.095	3.050	3.012	2.979	2.949	2.923	2.900	2.879	2.861	2.844
15	6.200	4.765	4.153	3.804	3.576	3.415	3.293	3.199	3.123	3.060	3.008	2.963	2.925	2.891	2.862	2.836	2.813	2.792	2.773	2.756
16	6.115	4.687	4.077	3.729	3.502	3.341	3.219	3.125	3.049	2.986	2.934	2.889	2.851	2.817	2.788	2.761	2.738	2.717	2.698	2.681
17	6.042	4.619	4.011	3.665	3.438	3.277	3.156	3.061	2.985	2.922	2.870	2.825	2.786	2.753	2.723	2.697	2.673	2.652	2.633	2.616
18	5.978	4.560	3.954	3.608	3.382	3.221	3.100	3.005	2.929	2.866	2.814	2.769	2.730	2.696	2.667	2.640	2.617	2.596	2.576	2.559
19	5.922	4.508	3.903	3.559	3.333	3.172	3.051	2.956	2.880	2.817	2.765	2.720	2.681	2.647	2.617	2.591	2.567	2.546	2.526	2.509
20	5.871	4.461	3.859	3.515	3.289	3.128	3.007	2.913	2.837	2.774	2.721	2.676	2.637	2.603	2.573	2.547	2.523	2.501	2.482	2.464
21	5.827	4.420	3.819	3.475	3.250	3.090	2.969	2.874	2.798	2.735	2.682	2.637	2.598	2.564	2.534	2.507	2.483	2.462	2.442	2.425
22	5.786	4.383	3.783	3.440	3.215	3.055	2.934	2.839	2.763	2.700	2.647	2.602	2.563	2.528	2.498	2.472	2.448	2.426	2.407	2.389
23	5.750	4.349	3.750	3.408	3.183	3.023	2.902	2.808	2.731	2.668	2.615	2.570	2.531	2.497	2.466	2.440	2.416	2.394	2.374	2.357
24	5.717	4.319	3.721	3.379	3.155	2.995	2.874	2.779	2.703	2.640	2.586	2.541	2.502	2.468	2.437	2.411	2.386	2.365	2.345	2.327
25	5.686	4.291	3.694	3.353	3.129	2.969	2.848	2.753	2.677	2.613	2.560	2.515	2.476	2.441	2.411	2.384	2.360	2.338	2.318	2.300
26	5.659	4.265	3.670	3.329	3.105	2.945	2.824	2.729	2.653	2.590	2.536	2.491	2.452	2.417	2.387	2.360	2.335	2.314	2.294	2.276
27	5.633	4.242	3.647	3.307	3.083	2.923	2.802	2.707	2.631	2.568	2.514	2.469	2.429	2.395	2.364	2.337	2.313	2.291	2.271	2.253
28	5.610	4.221	3.626	3.286	3.063	2.903	2.782	2.687	2.611	2.547	2.494	2.448	2.409	2.374	2.344	2.317	2.292	2.270	2.251	2.232
29	5.588	4.201	3.607	3.267	3.044	2.884	2.763	2.669	2.592	2.529	2.475	2.430	2.390	2.355	2.325	2.298	2.273	2.251	2.231	2.213
30	5.568	4.182	3.589	3.250	3.026	2.867	2.746	2.651	2.575	2.511	2.458	2.412	2.372	2.338	2.307	2.280	2.255	2.233	2.213	2.195
40	5.424	4.051	3.463	3.126	2.904	2.744	2.624	2.529	2.452	2.388	2.334	2.288	2.248	2.213	2.182	2.154	2.129	2.107	2.086	2.068
50	5.340	3.975	3.390	3.054	2.833	2.674	2.553	2.458	2.381	2.317	2.263	2.216	2.176	2.140	2.109	2.081	2.056	2.033	2.012	1.993
60	5.286	3.925	3.343	3.008	2.786	2.627	2.507	2.412	2.334	2.270	2.216	2.169	2.129	2.093	2.061	2.033	2.008	1.985	1.964	1.944
70	5.247	3.890	3.309	2.975	2.754	2.595	2.474	2.379	2.302	2.237	2.183	2.136	2.095	2.059	2.028	1.999	1.974	1.950	1.929	1.910
80	5.218	3.864	3.284	2.950	2.730	2.571	2.450	2.355	2.277	2.213	2.158	2.111	2.071	2.035	2.003	1.974	1.948	1.925	1.904	1.884
90	5.196	3.844	3.265	2.932	2.711	2.552	2.432	2.336	2.259	2.194	2.140	2.092	2.051	2.015	1.983	1.955	1.929	1.905	1.884	1.864
100	5.179	3.828	3.250	2.917	2.696	2.537	2.417	2.321	2.244	2.179	2.124	2.077	2.036	2.000	1.968	1.939	1.913	1.890	1.868	1.849
200	5.100	3.758	3.182	2.850	2.630	2.472	2.351	2.256	2.178	2.113	2.058	2.010	1.969	1.932	1.900	1.870	1.844	1.820	1.798	1.778
500	5.054	3.716	3.142	2.811	2.592	2.434	2.313	2.217	2.139	2.074	2.019	1.971	1.929	1.892	1.859	1.830	1.803	1.779	1.757	1.736
1000	5.039	3.703	3.129	2.799	2.579	2.421	2.300	2.204	2.126	2.061	2.006	1.958	1.916	1.879	1.846	1.816	1.789	1.765	1.743	1.722

Elaborada por Irene Patricia Valdez y Alfaro.

Tabla 5. VALORES F DE LA DISTRIBUCIÓN F DE FISHER

$1 - \alpha = 0.975$

$1 - \alpha = P (F \leq f_{\alpha,\nu_1,\nu_2})$

ν_2 \ ν_1	21	22	23	24	25	26	27	28	29	30	40	50	60	70	80	90	100	200	500	1000
1	994.303	995.351	996.341	997.272	998.087	998.843	999.542	1000.240	1000.823	1001.405	1005.596	1008.098	1009.787	1011.009	1011.911	1012.610	1013.163	1015.724	1017.237	1017.761
2	39.450	39.452	39.455	39.457	39.458	39.459	39.461	39.462	39.463	39.465	39.473	39.478	39.481	39.484	39.486	39.487	39.488	39.493	39.496	39.497
3	14.155	14.144	14.134	14.124	14.115	14.107	14.100	14.093	14.086	14.081	14.036	14.010	13.992	13.979	13.970	13.962	13.956	13.929	13.913	13.908
4	8.546	8.533	8.522	8.511	8.501	8.492	8.483	8.475	8.468	8.461	8.411	8.381	8.360	8.346	8.335	8.326	8.319	8.288	8.270	8.264
5	6.314	6.301	6.289	6.278	6.268	6.258	6.250	6.242	6.234	6.227	6.175	6.144	6.123	6.107	6.096	6.087	6.080	6.048	6.028	6.022
6	5.154	5.141	5.128	5.117	5.107	5.097	5.088	5.080	5.072	5.065	5.012	4.980	4.959	4.943	4.932	4.923	4.915	4.882	4.862	4.856
7	4.452	4.439	4.426	4.415	4.405	4.395	4.386	4.378	4.370	4.362	4.309	4.276	4.254	4.239	4.227	4.218	4.210	4.176	4.156	4.149
8	3.985	3.971	3.959	3.947	3.937	3.927	3.918	3.909	3.901	3.894	3.840	3.807	3.784	3.768	3.756	3.747	3.739	3.705	3.684	3.677
9	3.652	3.638	3.626	3.614	3.604	3.594	3.584	3.576	3.568	3.560	3.505	3.472	3.449	3.433	3.421	3.411	3.403	3.368	3.347	3.340
10	3.403	3.390	3.377	3.365	3.355	3.345	3.335	3.327	3.319	3.311	3.255	3.221	3.198	3.182	3.169	3.160	3.152	3.116	3.094	3.087
11	3.211	3.197	3.184	3.173	3.162	3.152	3.142	3.133	3.125	3.118	3.061	3.027	3.004	2.987	2.974	2.964	2.956	2.920	2.898	2.890
12	3.057	3.043	3.031	3.019	3.008	2.998	2.988	2.979	2.971	2.963	2.906	2.871	2.848	2.831	2.818	2.808	2.800	2.763	2.740	2.733
13	2.932	2.918	2.905	2.893	2.882	2.872	2.862	2.853	2.845	2.837	2.780	2.744	2.720	2.703	2.690	2.680	2.671	2.634	2.611	2.603
14	2.828	2.814	2.801	2.789	2.778	2.767	2.758	2.749	2.740	2.732	2.674	2.638	2.614	2.597	2.583	2.573	2.565	2.526	2.503	2.495
15	2.740	2.726	2.713	2.701	2.689	2.679	2.669	2.660	2.652	2.644	2.585	2.549	2.524	2.506	2.493	2.482	2.474	2.435	2.411	2.403
16	2.665	2.651	2.637	2.625	2.614	2.603	2.594	2.584	2.576	2.568	2.509	2.472	2.447	2.429	2.415	2.405	2.396	2.357	2.333	2.324
17	2.600	2.585	2.572	2.560	2.548	2.538	2.528	2.519	2.510	2.502	2.442	2.405	2.380	2.362	2.348	2.337	2.329	2.289	2.264	2.256
18	2.543	2.529	2.515	2.503	2.491	2.481	2.471	2.461	2.453	2.445	2.384	2.347	2.321	2.303	2.289	2.278	2.269	2.229	2.204	2.195
19	2.493	2.478	2.465	2.452	2.441	2.430	2.420	2.411	2.402	2.394	2.333	2.295	2.270	2.251	2.237	2.226	2.217	2.176	2.150	2.142
20	2.448	2.434	2.420	2.408	2.396	2.385	2.375	2.366	2.357	2.349	2.287	2.249	2.223	2.205	2.190	2.179	2.170	2.128	2.103	2.094
21	2.409	2.394	2.380	2.368	2.356	2.345	2.335	2.325	2.317	2.308	2.246	2.208	2.182	2.163	2.148	2.137	2.128	2.086	2.060	2.051
22	2.373	2.358	2.344	2.332	2.320	2.309	2.299	2.289	2.280	2.272	2.210	2.171	2.145	2.125	2.111	2.099	2.090	2.047	2.021	2.012
23	2.340	2.325	2.312	2.299	2.287	2.276	2.266	2.256	2.247	2.239	2.176	2.137	2.111	2.091	2.077	2.065	2.056	2.013	1.986	1.977
24	2.311	2.296	2.282	2.269	2.257	2.246	2.236	2.226	2.217	2.209	2.146	2.107	2.080	2.060	2.045	2.034	2.024	1.981	1.954	1.945
25	2.284	2.269	2.255	2.242	2.230	2.219	2.209	2.199	2.190	2.182	2.118	2.079	2.052	2.032	2.017	2.005	1.996	1.952	1.924	1.915
26	2.259	2.244	2.230	2.217	2.205	2.194	2.184	2.174	2.165	2.157	2.093	2.053	2.026	2.006	1.991	1.979	1.969	1.925	1.897	1.888
27	2.237	2.222	2.208	2.195	2.183	2.171	2.161	2.151	2.142	2.133	2.069	2.029	2.002	1.982	1.966	1.954	1.945	1.900	1.872	1.862
28	2.216	2.201	2.187	2.174	2.161	2.150	2.140	2.130	2.121	2.112	2.048	2.007	1.980	1.959	1.944	1.932	1.922	1.877	1.848	1.839
29	2.196	2.181	2.167	2.154	2.142	2.131	2.120	2.110	2.101	2.092	2.028	1.987	1.959	1.939	1.923	1.911	1.901	1.855	1.827	1.817
30	2.178	2.163	2.149	2.136	2.124	2.112	2.102	2.092	2.083	2.074	2.009	1.968	1.940	1.920	1.904	1.892	1.882	1.835	1.806	1.797
40	2.051	2.035	2.020	2.007	1.994	1.983	1.972	1.962	1.952	1.943	1.875	1.832	1.803	1.781	1.764	1.751	1.741	1.691	1.659	1.648
50	1.976	1.960	1.945	1.931	1.919	1.907	1.895	1.885	1.875	1.866	1.796	1.752	1.721	1.698	1.681	1.667	1.656	1.603	1.569	1.557
60	1.927	1.911	1.896	1.882	1.869	1.857	1.845	1.835	1.825	1.815	1.744	1.699	1.667	1.643	1.625	1.611	1.599	1.543	1.507	1.495
70	1.892	1.876	1.861	1.847	1.833	1.821	1.810	1.799	1.789	1.779	1.707	1.660	1.628	1.604	1.585	1.570	1.558	1.500	1.463	1.449
80	1.866	1.850	1.835	1.820	1.807	1.795	1.783	1.772	1.762	1.752	1.679	1.632	1.599	1.574	1.555	1.540	1.527	1.467	1.428	1.414
90	1.846	1.830	1.814	1.800	1.787	1.774	1.763	1.752	1.741	1.731	1.657	1.610	1.576	1.551	1.531	1.516	1.503	1.441	1.401	1.386
100	1.830	1.814	1.798	1.784	1.770	1.758	1.746	1.735	1.725	1.715	1.640	1.592	1.558	1.532	1.512	1.496	1.483	1.420	1.378	1.363
200	1.759	1.742	1.726	1.712	1.698	1.685	1.673	1.661	1.650	1.640	1.562	1.511	1.474	1.447	1.425	1.407	1.393	1.320	1.269	1.250
500	1.717	1.700	1.684	1.669	1.655	1.641	1.629	1.617	1.606	1.596	1.515	1.462	1.423	1.394	1.370	1.351	1.336	1.254	1.192	1.166
1000	1.703	1.686	1.670	1.654	1.640	1.627	1.614	1.603	1.591	1.581	1.499	1.445	1.406	1.376	1.352	1.332	1.316	1.230	1.162	1.132

Elaborada por Irene Patricia Valdez y Alfaro.

Tabla 5. VALORES F DE LA DISTRIBUCIÓN F DE FISHER

$1 - \alpha = 0.99$ $\quad \nu_1$ = grados de libertad del numerador

$1 - \alpha = P (F \leq f_{\alpha,\nu_1,\nu_2})$ $\quad \nu_2$ = grados de libertad del denominador

ν_2 \ ν_1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	4052.185	4999.340	5403.534	5624.257	5763.955	5858.950	5928.334	5980.954	6022.397	6055.925	6083.399	6106.682	6125.774	6143.004	6156.974	6170.012	6181.188	6191.432	6200.746	6208.662
2	98.502	99.000	99.164	99.251	99.302	99.331	99.357	99.375	99.390	99.397	99.408	99.419	99.422	99.426	99.433	99.437	99.441	99.444	99.448	99.448
3	34.116	30.816	29.457	28.710	28.237	27.911	27.671	27.489	27.345	27.228	27.132	27.052	26.983	26.924	26.872	26.826	26.786	26.751	26.719	26.690
4	21.198	18.000	16.694	15.977	15.522	15.207	14.976	14.799	14.659	14.546	14.452	14.374	14.306	14.249	14.198	14.154	14.114	14.079	14.048	14.019
5	16.258	13.274	12.060	11.392	10.967	10.672	10.456	10.289	10.158	10.051	9.963	9.888	9.825	9.770	9.722	9.680	9.643	9.609	9.580	9.553
6	13.745	10.925	9.780	9.148	8.746	8.466	8.260	8.102	7.976	7.874	7.790	7.718	7.657	7.605	7.559	7.519	7.483	7.451	7.422	7.396
7	12.246	9.547	8.451	7.847	7.460	7.191	6.993	6.840	6.719	6.620	6.538	6.469	6.410	6.359	6.314	6.275	6.240	6.209	6.181	6.155
8	11.259	8.649	7.591	7.006	6.632	6.371	6.178	6.029	5.911	5.814	5.734	5.667	5.609	5.559	5.515	5.477	5.442	5.412	5.384	5.359
9	10.562	8.022	6.992	6.422	6.057	5.802	5.613	5.467	5.351	5.257	5.178	5.111	5.055	5.005	4.962	4.924	4.890	4.860	4.833	4.808
10	10.044	7.559	6.552	5.994	5.636	5.386	5.200	5.057	4.942	4.849	4.772	4.706	4.650	4.601	4.558	4.520	4.487	4.457	4.430	4.405
11	9.646	7.206	6.217	5.668	5.316	5.069	4.886	4.744	4.632	4.539	4.462	4.397	4.342	4.293	4.251	4.213	4.180	4.150	4.123	4.099
12	9.330	6.927	5.953	5.412	5.064	4.821	4.640	4.499	4.388	4.296	4.220	4.155	4.100	4.052	4.010	3.972	3.939	3.910	3.883	3.858
13	9.074	6.701	5.739	5.205	4.862	4.620	4.441	4.302	4.191	4.100	4.025	3.960	3.905	3.857	3.815	3.778	3.745	3.716	3.689	3.665
14	8.862	6.515	5.564	5.035	4.695	4.456	4.278	4.140	4.030	3.939	3.864	3.800	3.745	3.698	3.656	3.619	3.586	3.556	3.529	3.505
15	8.683	6.359	5.417	4.893	4.556	4.318	4.142	4.004	3.895	3.805	3.730	3.666	3.612	3.564	3.522	3.485	3.452	3.423	3.396	3.372
16	8.531	6.226	5.292	4.773	4.437	4.202	4.026	3.890	3.780	3.691	3.616	3.553	3.498	3.451	3.409	3.372	3.339	3.310	3.283	3.259
17	8.400	6.112	5.185	4.669	4.336	4.101	3.927	3.791	3.682	3.593	3.518	3.455	3.401	3.353	3.312	3.275	3.242	3.212	3.186	3.162
18	8.285	6.013	5.092	4.579	4.248	4.015	3.841	3.705	3.597	3.508	3.434	3.371	3.316	3.269	3.227	3.190	3.158	3.128	3.101	3.077
19	8.185	5.926	5.010	4.500	4.171	3.939	3.765	3.631	3.523	3.434	3.360	3.297	3.242	3.195	3.153	3.116	3.084	3.054	3.027	3.003
20	8.096	5.849	4.938	4.431	4.103	3.871	3.699	3.564	3.457	3.368	3.294	3.231	3.177	3.130	3.088	3.051	3.018	2.989	2.962	2.938
21	8.017	5.780	4.874	4.369	4.042	3.812	3.640	3.506	3.398	3.310	3.236	3.173	3.119	3.072	3.030	2.993	2.960	2.931	2.904	2.880
22	7.945	5.719	4.817	4.313	3.988	3.758	3.587	3.453	3.346	3.258	3.184	3.121	3.067	3.019	2.978	2.941	2.908	2.879	2.852	2.827
23	7.881	5.664	4.765	4.264	3.939	3.710	3.539	3.406	3.299	3.211	3.137	3.074	3.020	2.973	2.931	2.894	2.861	2.832	2.805	2.780
24	7.823	5.614	4.718	4.218	3.895	3.667	3.496	3.363	3.256	3.168	3.094	3.032	2.977	2.930	2.889	2.852	2.819	2.789	2.762	2.738
25	7.770	5.568	4.675	4.177	3.855	3.627	3.457	3.324	3.217	3.129	3.056	2.993	2.939	2.892	2.850	2.813	2.780	2.751	2.724	2.699
26	7.721	5.526	4.637	4.140	3.818	3.591	3.421	3.288	3.182	3.094	3.021	2.958	2.904	2.857	2.815	2.778	2.745	2.715	2.688	2.664
27	7.677	5.488	4.601	4.106	3.785	3.558	3.388	3.256	3.149	3.062	2.988	2.926	2.872	2.824	2.783	2.746	2.713	2.683	2.656	2.632
28	7.636	5.453	4.568	4.074	3.754	3.528	3.358	3.226	3.120	3.032	2.959	2.896	2.842	2.795	2.753	2.716	2.683	2.653	2.626	2.602
29	7.598	5.420	4.538	4.045	3.725	3.499	3.330	3.198	3.092	3.005	2.931	2.868	2.814	2.767	2.726	2.689	2.656	2.626	2.599	2.574
30	7.562	5.390	4.510	4.018	3.699	3.473	3.305	3.173	3.067	2.979	2.906	2.843	2.789	2.742	2.700	2.663	2.630	2.600	2.573	2.549
40	7.314	5.178	4.313	3.828	3.514	3.291	3.124	2.993	2.888	2.801	2.727	2.665	2.611	2.563	2.522	2.484	2.451	2.421	2.394	2.369
50	7.171	5.057	4.199	3.720	3.408	3.186	3.020	2.890	2.785	2.698	2.625	2.563	2.508	2.461	2.419	2.382	2.348	2.318	2.290	2.265
60	7.077	4.977	4.126	3.649	3.339	3.119	2.953	2.823	2.718	2.632	2.559	2.496	2.442	2.394	2.352	2.315	2.281	2.251	2.223	2.198
70	7.011	4.922	4.074	3.600	3.291	3.071	2.906	2.777	2.672	2.585	2.512	2.450	2.395	2.348	2.306	2.268	2.234	2.204	2.176	2.150
80	6.963	4.881	4.036	3.563	3.255	3.036	2.871	2.742	2.637	2.551	2.478	2.415	2.361	2.313	2.271	2.233	2.199	2.169	2.141	2.115
90	6.925	4.849	4.007	3.535	3.228	3.009	2.845	2.715	2.611	2.524	2.451	2.389	2.334	2.286	2.244	2.206	2.172	2.142	2.114	2.088
100	6.895	4.824	3.984	3.513	3.206	2.988	2.823	2.694	2.590	2.503	2.430	2.368	2.313	2.265	2.223	2.185	2.151	2.120	2.092	2.067
200	6.763	4.713	3.881	3.414	3.110	2.893	2.730	2.601	2.497	2.411	2.338	2.275	2.220	2.172	2.129	2.091	2.057	2.026	1.997	1.971
500	6.686	4.648	3.821	3.357	3.054	2.838	2.675	2.547	2.443	2.356	2.283	2.220	2.166	2.117	2.075	2.036	2.002	1.970	1.942	1.915
1000	6.660	4.626	3.801	3.338	3.036	2.820	2.657	2.529	2.425	2.339	2.265	2.203	2.148	2.099	2.056	2.018	1.983	1.952	1.923	1.897

Elaborada por Irene Patricia Valdez y Alfaro.

Tabla 5. VALORES F DE LA DISTRIBUCIÓN F DE FISHER

$1 - \alpha = 0.99$

$1 - \alpha = P (F \leq f_{\alpha,\nu1,\nu2})$

ν_2 \ ν_1	21	22	23	24	25	26	27	28	29	30	40	50	60	70	80	90	100	200	500	1000
1	6216.113	6223.097	6228.685	6234.273	6239.861	6244.518	6249.174	6252.900	6257.091	6260.350	6286.427	6302.260	6312.970	6320.886	6326.474	6330.665	6333.925	6349.757	6359.536	6362.796
2	99.451	99.455	99.455	99.455	99.459	99.462	99.462	99.462	99.462	99.466	99.477	99.477	99.484	99.484	99.484	99.488	99.491	99.491	99.499	99.499
3	26.664	26.639	26.617	26.597	26.579	26.562	26.546	26.531	26.517	26.504	26.411	26.354	26.316	26.289	26.269	26.253	26.241	26.183	26.148	26.137
4	13.994	13.970	13.949	13.929	13.911	13.894	13.878	13.864	13.850	13.838	13.745	13.690	13.652	13.626	13.605	13.590	13.577	13.520	13.486	13.475
5	9.528	9.506	9.485	9.466	9.449	9.433	9.418	9.404	9.391	9.379	9.291	9.238	9.202	9.176	9.157	9.142	9.130	9.075	9.042	9.032
6	7.372	7.351	7.331	7.313	7.296	7.281	7.266	7.253	7.240	7.229	7.143	7.091	7.057	7.032	7.013	6.998	6.987	6.934	6.901	6.891
7	6.132	6.111	6.092	6.074	6.058	6.043	6.029	6.016	6.003	5.992	5.908	5.858	5.824	5.799	5.781	5.766	5.755	5.702	5.671	5.660
8	5.336	5.316	5.297	5.279	5.263	5.248	5.234	5.221	5.209	5.198	5.116	5.065	5.032	5.007	4.989	4.975	4.963	4.911	4.880	4.869
9	4.786	4.765	4.746	4.729	4.713	4.698	4.684	4.672	4.660	4.649	4.567	4.517	4.483	4.459	4.441	4.426	4.415	4.363	4.332	4.321
10	4.383	4.363	4.344	4.327	4.311	4.296	4.283	4.270	4.258	4.247	4.165	4.115	4.082	4.058	4.039	4.025	4.014	3.962	3.930	3.920
11	4.077	4.057	4.038	4.021	4.005	3.990	3.977	3.964	3.952	3.941	3.860	3.810	3.776	3.752	3.734	3.719	3.708	3.656	3.624	3.613
12	3.836	3.816	3.798	3.780	3.765	3.750	3.736	3.724	3.712	3.701	3.619	3.569	3.535	3.511	3.493	3.478	3.467	3.414	3.382	3.372
13	3.643	3.622	3.604	3.587	3.571	3.556	3.543	3.530	3.518	3.507	3.425	3.375	3.341	3.317	3.298	3.284	3.272	3.219	3.187	3.176
14	3.483	3.463	3.444	3.427	3.412	3.397	3.383	3.371	3.359	3.348	3.266	3.215	3.181	3.157	3.138	3.124	3.112	3.059	3.026	3.015
15	3.350	3.330	3.311	3.294	3.278	3.264	3.250	3.237	3.225	3.214	3.132	3.081	3.047	3.022	3.004	2.989	2.977	2.923	2.891	2.880
16	3.237	3.216	3.198	3.181	3.165	3.150	3.137	3.124	3.112	3.101	3.018	2.967	2.933	2.908	2.889	2.875	2.863	2.808	2.775	2.764
17	3.139	3.119	3.101	3.083	3.068	3.053	3.039	3.026	3.014	3.003	2.920	2.869	2.835	2.810	2.791	2.776	2.764	2.709	2.676	2.664
18	3.055	3.035	3.016	2.999	2.983	2.968	2.955	2.942	2.930	2.919	2.835	2.784	2.749	2.724	2.705	2.690	2.678	2.623	2.589	2.577
19	2.981	2.961	2.942	2.925	2.909	2.894	2.880	2.868	2.855	2.844	2.761	2.709	2.674	2.649	2.630	2.614	2.602	2.547	2.512	2.501
20	2.916	2.895	2.877	2.859	2.843	2.829	2.815	2.802	2.790	2.778	2.695	2.643	2.608	2.582	2.563	2.548	2.535	2.479	2.445	2.433
21	2.857	2.837	2.818	2.801	2.785	2.770	2.756	2.743	2.731	2.720	2.636	2.584	2.548	2.523	2.503	2.488	2.476	2.419	2.384	2.372
22	2.805	2.785	2.766	2.749	2.733	2.718	2.704	2.691	2.679	2.667	2.583	2.531	2.495	2.469	2.450	2.434	2.422	2.365	2.329	2.317
23	2.758	2.738	2.719	2.702	2.686	2.671	2.657	2.644	2.632	2.620	2.536	2.483	2.447	2.421	2.401	2.386	2.373	2.316	2.280	2.268
24	2.716	2.695	2.676	2.659	2.643	2.628	2.614	2.601	2.589	2.577	2.492	2.440	2.403	2.377	2.357	2.342	2.329	2.271	2.235	2.223
25	2.677	2.657	2.638	2.620	2.604	2.589	2.575	2.562	2.550	2.538	2.453	2.400	2.364	2.337	2.317	2.302	2.289	2.230	2.194	2.182
26	2.642	2.621	2.602	2.585	2.569	2.554	2.540	2.526	2.514	2.503	2.417	2.364	2.327	2.301	2.281	2.265	2.252	2.193	2.156	2.144
27	2.609	2.589	2.570	2.552	2.536	2.521	2.507	2.494	2.481	2.470	2.384	2.330	2.294	2.267	2.247	2.231	2.218	2.159	2.122	2.109
28	2.579	2.559	2.540	2.522	2.506	2.491	2.477	2.464	2.451	2.440	2.354	2.300	2.263	2.236	2.216	2.200	2.187	2.127	2.090	2.077
29	2.552	2.531	2.512	2.495	2.478	2.463	2.449	2.436	2.423	2.412	2.325	2.271	2.234	2.207	2.187	2.171	2.158	2.097	2.060	2.047
30	2.526	2.506	2.487	2.469	2.453	2.437	2.423	2.410	2.398	2.386	2.299	2.245	2.208	2.181	2.160	2.144	2.131	2.070	2.032	2.019
40	2.346	2.325	2.306	2.288	2.271	2.256	2.241	2.228	2.215	2.203	2.114	2.058	2.019	1.991	1.969	1.952	1.938	1.874	1.833	1.819
50	2.242	2.221	2.202	2.183	2.167	2.151	2.136	2.123	2.110	2.098	2.007	1.949	1.909	1.880	1.857	1.839	1.825	1.757	1.713	1.698
60	2.175	2.153	2.134	2.115	2.098	2.083	2.068	2.054	2.041	2.028	1.936	1.877	1.836	1.806	1.783	1.764	1.749	1.678	1.633	1.617
70	2.127	2.106	2.086	2.067	2.050	2.034	2.019	2.005	1.992	1.980	1.886	1.826	1.785	1.754	1.730	1.711	1.695	1.622	1.574	1.558
80	2.092	2.070	2.050	2.032	2.015	1.999	1.983	1.969	1.956	1.944	1.849	1.788	1.746	1.714	1.690	1.671	1.655	1.579	1.530	1.512
90	2.065	2.043	2.023	2.004	1.987	1.971	1.956	1.942	1.928	1.916	1.820	1.759	1.716	1.684	1.659	1.639	1.623	1.546	1.494	1.476
100	2.043	2.021	2.001	1.983	1.965	1.949	1.934	1.919	1.906	1.893	1.797	1.735	1.692	1.659	1.634	1.614	1.598	1.518	1.466	1.447
200	1.947	1.925	1.905	1.886	1.868	1.851	1.836	1.821	1.807	1.794	1.694	1.629	1.583	1.548	1.521	1.499	1.481	1.391	1.328	1.304
500	1.891	1.869	1.848	1.829	1.810	1.794	1.778	1.763	1.749	1.735	1.633	1.566	1.517	1.481	1.452	1.428	1.408	1.308	1.232	1.201
1000	1.872	1.850	1.829	1.810	1.791	1.774	1.758	1.743	1.729	1.716	1.613	1.544	1.495	1.458	1.428	1.404	1.383	1.278	1.195	1.159

Elaborada por Irene Patricia Valdez y Alfaro.