

TABLA A-7c. PERCENTILES DE LA DISTRIBUCIÓN $F(\nu_1, \nu_2)$ CON ν_1 GRADOS DE LIBERTAD PARA EL NUMERADOR Y. ν_2 PARA EL DENOMINADOR

ν_2	ν_1	1	2	3	4	5	6	7	8	9	10	11	12	Prop. Acum.
1	.0005	.062	.050	.038	.094	.016	.022	.027	.032	.036	.039	.042	.045	.0005
	.001	.025	.010	.060	.013	.021	.028	.034	.039	.044	.048	.051	.054	.001
	.005	.062	.051	.018	.032	.044	.054	.062	.068	.073	.078	.082	.085	.005
	.010	.025	.010	.029	.047	.062	.073	.082	.089	.095	.100	.104	.107	.010
	.025	.015	.026	.057	.082	.100	.113	.124	.132	.139	.144	.149	.153	.025
	.05	.062	.054	.099	.130	.151	.167	.179	.188	.195	.201	.207	.211	.05
	.10	.025	.117	.181	.220	.246	.265	.279	.289	.298	.304	.310	.315	.10
	.25	.172	.389	.494	.553	.591	.617	.637	.650	.661	.670	.680	.684	.25
	.50	1.00	1.50	1.71	1.82	1.89	1.94	1.98	2.00	2.03	2.04	2.05	2.07	.50
	.75	5.83	7.50	8.20	8.58	8.82	8.98	9.10	9.19	9.26	9.32	9.36	9.41	.75
	.90	39.9	49.5	53.6	55.8	57.2	58.2	58.9	59.4	59.9	60.2	60.5	60.7	.90
	.95	161	200	216	225	230	234	237	239	241	242	243	244	.95
	.975	648	800	864	900	922	937	948	957	963	969	973	977	.975
	.99	405 ¹	500 ¹	540 ¹	562 ¹	576 ¹	586 ¹	593 ¹	598 ¹	602 ¹	606 ¹	608 ¹	611 ¹	.99
	.995	162 ²	200 ²	216 ²	225 ²	231 ²	234 ²	237 ²	239 ²	241 ²	242 ²	243 ²	244 ²	.995
	.999	406 ³	500 ³	540 ³	562 ³	576 ³	586 ³	593 ³	598 ³	602 ³	606 ³	609 ³	611 ³	.999
	.9995	162 ⁴	200 ⁴	216 ⁴	225 ⁴	231 ⁴	234 ⁴	237 ⁴	239 ⁴	241 ⁴	242 ⁴	243 ⁴	244 ⁴	.9995
2	.0005	.050	.050	.042	.011	.020	.029	.037	.044	.050	.056	.061	.065	.0005
	.001	.020	.010	.068	.016	.027	.037	.046	.054	.061	.067	.072	.077	.001
	.005	.040	.050	.020	.038	.055	.069	.081	.091	.099	.106	.112	.118	.005
	.01	.020	.010	.032	.056	.075	.092	.105	.116	.125	.132	.139	.144	.01
	.025	.013	.026	.062	.094	.119	.138	.153	.165	.175	.183	.190	.196	.025
	.05	.050	.053	.105	.144	.173	.194	.211	.224	.235	.244	.251	.257	.05
	.10	.020	.111	.183	.231	.265	.289	.307	.321	.333	.342	.350	.356	.10
	.25	.133	.333	.439	.500	.540	.568	.588	.604	.616	.626	.633	.641	.25
	.50	.667	1.00	1.13	1.21	1.25	1.28	1.30	1.32	1.33	1.34	1.35	1.36	.50
	.75	2.57	3.00	3.15	3.23	3.28	3.31	3.34	3.35	3.37	3.38	3.39	3.39	.75
	.90	8.53	9.00	9.16	9.24	9.29	9.33	9.35	9.37	9.38	9.39	9.40	9.41	.90
	.95	18.5	19.0	19.2	19.2	19.3	19.3	19.4	19.4	19.4	19.4	19.4	19.4	.95
	.975	38.5	39.0	39.2	39.2	39.3	39.3	39.4	39.4	39.4	39.4	39.4	39.4	.975
	.99	98.5	99.0	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	.99
	.995	198	199	199	199	199	199	199	199	199	199	199	199	.995
	.999	998	999	999	999	999	999	999	999	999	999	999	999	.999
	.9995	200 ¹	.9995											
3	.0005	.046	.050	.044	.012	.023	.033	.043	.052	.060	.067	.074	.079	.0005
	.001	.019	.010	.071	.018	.030	.042	.053	.063	.072	.079	.086	.093	.001
	.005	.046	.050	.021	.041	.060	.077	.092	.104	.115	.124	.132	.138	.005
	.01	.019	.010	.034	.060	.083	.102	.118	.132	.143	.153	.161	.168	.01
	.025	.012	.026	.065	.100	.129	.152	.170	.185	.197	.207	.216	.224	.025
	.05	.046	.052	.108	.152	.185	.210	.230	.246	.259	.270	.279	.287	.05
	.10	.019	.109	.185	.239	.276	.304	.325	.342	.356	.367	.376	.384	.10
	.25	.122	.317	.424	.489	.531	.561	.582	.600	.613	.624	.633	.641	.25
	.50	.585	.881	1.00	1.06	1.10	1.13	1.15	1.16	1.17	1.18	1.19	1.20	.50
	.75	2.02	2.28	2.36	2.39	2.41	2.42	2.43	2.44	2.44	2.45	2.45	2.45	.75
	.90	5.54	5.46	5.39	5.34	5.31	5.28	5.27	5.25	5.24	5.23	5.22	5.22	.90
	.95	10.1	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81	8.79	8.76	8.74	.95
	.975	17.4	16.0	15.4	15.1	14.9	14.7	14.6	14.5	14.5	14.4	14.4	14.3	.975
	.99	34.1	30.8	29.5	28.7	28.2	27.9	27.7	27.5	27.3	27.2	27.1	27.1	.99
	.995	55.6	49.8	47.5	46.2	45.4	44.8	44.4	44.1	43.9	43.7	43.5	43.4	.995
	.999	167	149	141	137	135	133	132	131	130	129	128	128	.999
	.9995	266	237	225	218	214	211	209	208	207	206	204	204	.9995

.0⁵⁶ debe leerse como .00056; 200¹ como 2000, 162⁴ como 1620000, etc.

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(\nu_1, \nu_2)$ (Continuación)

ν_2	ν_1	15	20	24	30	40	50	60	100	120	200	500	∞	Prop. Acum.	ν_2
	.0005	.051	.058	.062	.066	.069	.072	.074	.077	.078	.080	.081	.083	.0005	1
	.001	.060	.067	.071	.075	.079	.082	.084	.087	.088	.091	.092	.094	.001	
	.005	.093	.101	.105	.109	.113	.116	.118	.121	.122	.124	.126	.127	.005	
	.01	.115	.124	.128	.132	.137	.139	.141	.145	.146	.148	.150	.151	.01	
	.025	.161	.170	.175	.180	.184	.187	.189	.193	.194	.196	.198	.199	.025	
	.05	.220	.230	.235	.240	.245	.248	.250	.254	.255	.257	.259	.261	.05	
	.10	.325	.336	.342	.347	.353	.356	.358	.362	.364	.366	.368	.370	.10	
	.25	.698	.712	.719	.727	.734	.738	.741	.747	.749	.752	.754	.756	.25	
	.50	2.09	2.12	2.13	2.15	2.16	2.17	2.17	2.18	2.18	2.19	2.19	2.20	.50	
	.75	9.49	9.58	9.63	9.67	9.71	9.74	9.76	9.78	9.80	9.82	9.84	9.85	.75	
	.90	61.2	61.7	62.0	62.3	62.5	62.7	62.8	63.0	63.1	63.3	63.3	63.3	.90	
	.95	246	248	249	250	251	252	253	253	254	254	254	254	.95	
	.975	985	993	997	100 ¹	101 ¹	102 ¹	102 ¹	102 ¹	.975					
	.99	616 ¹	621 ¹	623 ¹	626 ¹	629 ¹	630 ¹	631 ¹	633 ¹	634 ¹	635 ¹	636 ¹	637 ¹	.99	
	.995	616 ²	621 ²	623 ²	626 ²	629 ²	630 ²	631 ²	633 ²	634 ²	635 ²	636 ²	637 ²	.995	
	.9995	246 ⁴	248 ⁴	249 ⁴	250 ⁴	251 ⁴	252 ⁴	253 ⁴	254 ⁴	255 ⁴	256 ⁴	257 ⁴	258 ⁴	.9995	
	.0005	.076	.088	.094	.101	.108	.113	.116	.122	.124	.127	.130	.132	.0005	2
	.001	.088	.100	.107	.114	.121	.126	.129	.135	.137	.140	.143	.145	.001	
	.005	.130	.143	.150	.157	.165	.169	.173	.179	.181	.184	.187	.189	.005	
	.01	.157	.171	.178	.186	.193	.198	.201	.207	.209	.212	.215	.217	.01	
	.025	.210	.224	.232	.239	.247	.251	.255	.261	.263	.266	.269	.271	.025	
	.05	.272	.286	.294	.302	.309	.314	.317	.324	.326	.329	.332	.334	.05	
	.10	.371	.386	.394	.402	.410	.415	.418	.424	.426	.429	.433	.434	.10	
	.25	.657	.672	.680	.689</td										

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$ (Continuación)

v_2	v_1	1	2	3	4	5	6	7	8	9	10	11	12	Prop. Acum.
4	.0005	.0544	.0550	.0546	.013	.024	.036	.047	.057	.066	.075	.082	.089	.0005
	.001	.0518	.0510	.0573	.019	.032	.046	.058	.069	.079	.089	.097	.104	.001
	.005	.0444	.0550	.022	.043	.064	.083	.100	.114	.126	.137	.145	.153	.005
	.01	.0518	.0510	.035	.063	.088	.109	.127	.143	.156	.167	.176	.185	.01
	.025	.0211	.026	.066	.104	.135	.161	.181	.198	.212	.224	.234	.243	.025
	.05	.0544	.052	.110	.157	.193	.221	.243	.261	.275	.288	.298	.307	.05
	.10	.018	.108	.187	.243	.284	.314	.338	.356	.371	.384	.394	.403	.10
	.25	.117	.309	.418	.484	.528	.560	.583	.601	.615	.627	.637	.645	.25
	.50	.549	.828	.941	1.00	1.04	1.06	1.08	1.09	1.10	1.11	1.12	1.13	.50
	.75	1.81	2.00	2.05	2.06	2.07	2.08	2.08	2.08	2.08	2.08	2.08	2.08	.75
	.90	4.54	4.32	4.19	4.11	4.05	4.01	3.98	3.95	3.94	3.92	3.91	3.90	.90
	.95	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00	5.96	5.94	5.91	.95
	.975	12.2	10.6	9.98	9.60	9.36	9.20	9.07	8.98	8.90	8.84	8.79	8.75	.975
	.99	21.2	18.0	16.7	16.0	15.5	15.2	15.0	14.8	14.7	14.5	14.4	14.4	.99
	.995	31.3	26.3	24.3	23.2	22.5	22.0	21.6	21.4	21.1	21.0	20.8	20.7	.995
	.999	74.1	61.2	56.2	53.4	51.7	50.5	49.7	49.0	48.5	48.0	47.7	47.4	.999
	.9995	106	87.4	80.1	76.1	73.6	71.9	70.6	69.7	68.9	68.3	67.8	67.4	.9995
5	.0005	.0543	.0550	.0547	.014	.025	.038	.050	.061	.070	.081	.089	.096	.0005
	.001	.0517	.0510	.0575	.019	.034	.048	.062	.074	.085	.095	.104	.112	.001
	.005	.0443	.0550	.022	.045	.067	.087	.105	.120	.134	.146	.156	.165	.005
	.01	.0517	.0510	.035	.064	.091	.114	.134	.151	.165	.177	.188	.197	.01
	.025	.0211	.028	.067	.107	.140	.167	.189	.208	.223	.236	.248	.257	.025
	.05	.0543	.052	.111	.160	.198	.228	.252	.271	.287	.301	.313	.322	.05
	.10	.017	.108	.188	.247	.290	.322	.347	.367	.383	.397	.408	.418	.10
	.25	.113	.305	.415	.483	.528	.560	.584	.604	.618	.631	.641	.650	.25
	.50	.528	.799	.907	.965	1.00	1.02	1.04	1.05	1.06	1.07	1.08	1.09	.50
	.75	1.69	1.85	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	.75
	.90	4.06	3.78	3.62	3.52	3.45	3.40	3.37	3.34	3.32	3.30	3.28	3.27	.90
	.95	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77	4.74	4.71	4.68	.95
	.975	10.0	8.43	7.76	7.39	7.15	6.98	6.85	6.76	6.68	6.62	6.57	6.52	.975
	.99	16.3	13.3	12.1	11.4	11.0	10.7	10.5	10.3	10.2	10.1	9.96	9.89	.99
	.995	22.8	18.3	16.5	15.6	14.9	14.5	14.2	14.0	13.8	13.6	13.5	13.4	.995
	.999	47.2	37.1	33.2	31.1	29.7	28.8	28.2	27.6	27.2	26.9	26.6	26.4	.999
	.9995	63.6	49.8	44.4	41.5	39.7	38.5	37.6	36.9	36.4	35.9	35.6	35.2	.9995
6	.0005	.0543	.0550	.0547	.014	.026	.039	.052	.064	.075	.085	.094	.103	.0005
	.001	.0517	.0510	.0575	.020	.035	.050	.064	.078	.090	.101	.111	.119	.001
	.005	.0443	.0550	.022	.045	.069	.090	.109	.126	.140	.153	.164	.174	.005
	.01	.0517	.0510	.036	.066	.094	.118	.139	.157	.172	.186	.197	.207	.01
	.025	.0211	.025	.068	.109	.143	.172	.195	.215	.231	.246	.258	.268	.025
	.05	.0543	.052	.112	.162	.202	.233	.259	.279	.296	.311	.324	.334	.05
	.10	.017	.107	.189	.249	.294	.327	.354	.375	.392	.406	.418	.429	.10
	.25	.111	.302	.413	.481	.524	.561	.586	.606	.622	.635	.645	.654	.25
	.50	.515	.780	.886	.942	.977	1.00	1.02	1.03	1.04	1.05	1.05	1.06	.50
	.75	1.62	1.76	1.78	1.79	1.79	1.78	1.78	1.77	1.77	1.77	1.77	1.75	.75
	.90	3.78	3.46	3.29	3.18	3.11	3.05	3.01	2.98	2.96	2.94	2.92	2.90	.90
	.95	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10	4.06	4.03	4.00	.95
	.975	8.81	7.26	6.60	6.23	5.99	5.82	5.70	5.60	5.52	5.46	5.41	5.37	.975
	.99	13.7	10.9	9.78	9.15	8.75	8.47	8.26	8.10	7.98	7.87	7.79	7.72	.99
	.995	18.6	14.5	12.9	12.0	11.5	11.1	10.8	10.6	10.4	10.2	10.1	10.0	.995
	.999	35.5	27.0	23.7	21.9	20.8	20.0	19.5	19.0	18.7	18.4	18.2	18.0	.999
	.9995	46.1	34.8	30.4	28.1	26.6	25.6	24.9	24.3	23.9	23.5	23.2	23.0	.9995

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$ (Continuación)

v_2	v_1	15	20	24	30	40	50	60	80	100	120	200	500	∞	Prop. Acum.	v_2
	.0005	.105	.125	.135	.147	.159	.166	.172	.183	.186	.191	.196	.200	.200	.0005	4
	.001	.121	.141	.152	.163	.176	.183	.188	.200	.202	.208	.213	.217	.217	.001	
	.005	.172	.193	.204	.216	.229	.237	.242	.253	.255	.260	.266	.269	.269	.005	
	.01	.204	.226	.237	.249	.261	.269	.274	.285	.287	.293	.298	.301	.301	.01	
	.025	.263	.284	.296	.308	.320	.327	.332	.342	.346	.351	.356	.359	.359	.025	
	.05	.327	.349	.360	.372	.384	.391	.396	.407	.409	.413	.418	.422	.422	.05	
	.10	.424	.445	.456	.467	.478	.485	.490	.500	.502	.508	.510	.514	.514	.10	
	.25	.664	.683	.692	.702	.712	.718	.722	.731	.733	.737	.740	.743	.743	.25	
	.50	1.14	1.15	1.16	1.16	1.17	1.18	1.18	1.18	1.19	1.19	1.19	1.19	1.19	.50	
	.75	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	.75	
	.90	3.87	3.84	3.83	3.82	3.80	3.79	3.78	3.78	3.77	3.76	3.76	3.76	3.76	.90	
	.95	5.86	5.80	5.77	5.75	5.72	5.70	5.69	5.66	5.66	5.65	5.64	5.63	5.63	.95	
	.975	8.66	8.56	8.51	8.46	8.41	8.38	8.36	8.32	8.31	8.29	8.27	8.26	8.26	.975	
	.99	14.2	14.0	13.9	13.8	13.7	13.7	13.7	13.6	13.6	13.5	13.5	13.5	13.5	.99	
	.995	20.4	20.2	20.0	19.9	19.8	19.7	19.6	19.5	19.5	19.4	19.4	19.4	19.4	.995	
	.999	46.8	46.1	45.8	45.4	45.1	44.9	44.7	44.5	44.4	44.3	44.1	44.0	44.0	.999	
	.9995	66.5	65.5	65	64.6	64.1	63.8	63.6	63.2	63.1	62.9	62.7	62.6	62.6	.9995	
	.0005	.115	.137	.150	.163	.177	.186	.192	.205	.209	.216	.222	.226	.226	.0005	5
	.001	.132	.155	.167	.181	.195	.204	.210	.223	.227	.233	.239	.244	.244	.001	
	.005	.186	.210	.223	.237	.251	.260	.266	.279	.282	.288	.294	.299	.299	.005	
	.01	.219	.244	.257	.270	.285	.293	.299	.312	.315	.322	.328	.331	.331	.01	
	.025	.280	.304	.317	.330	.344	.353	.359	.370	.374	.380	.386	.390	.390	.025	
	.05	.345	.369	.382	.395	.408	.417	.422	.432	.437	.442	.448	.452	.452	.05	
	.10	.440	.463	.476	.488	.501	.508	.514	.524	.527	.532	.538	.541	.541	.10	
	.25	.669	.690	.700	.711	.722	.728	.732	.741	.743	.748	.752	.755	.755	.25	
	.50	1.10	1.11	1.12	1.12	1.13	1.13	1.14	1.14	1.14	1.14	1.15	1.15			

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$. (Continuación)

v_2	v_1	1	2	3	4	5	6	7	8	9	10	11	12	Prop. Acum.
7	.0005	.0642	.050	.0448	.014	.027	.040	.053	.066	.078	.088	.099	.108	.0005
	.001	.0517	.010	.076	.020	.035	.051	.067	.081	.093	.105	.115	.125	.001
	.005	.0442	.050	.023	.046	.070	.093	.113	.130	.145	.159	.171	.181	.005
	.01	.0317	.010	.036	.067	.096	.121	.143	.162	.178	.192	.205	.216	.01
	.025	.0210	.025	.068	.110	.146	.176	.200	.221	.238	.253	.266	.277	.025
	.05	.0442	.052	.113	.164	.205	.238	.264	.286	.304	.319	.332	.343	.05
	.10	.017	.107	.190	.251	.297	.332	.359	.381	.399	.414	.427	.438	.10
	.25	.110	.300	.412	.481	.528	.562	.588	.608	.624	.637	.649	.658	.25
	.50	.506	.767	.871	.926	.960	.983	1.00	1.01	1.02	1.03	1.04	1.04	.50
	.75	1.57	1.70	1.72	1.71	1.71	1.70	1.70	1.69	1.69	1.69	1.68	1.75	
	.90	3.59	3.26	3.07	2.96	2.88	2.83	2.78	2.75	2.72	2.70	2.68	2.67	.90
	.95	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68	3.64	3.60	3.57	.95
.975	8.07	6.54	5.89	5.52	5.29	5.12	4.99	4.90	4.82	4.76	4.71	4.67	.975	
.99	12.2	9.55	8.45	7.85	7.46	7.19	6.99	6.84	6.72	6.62	6.54	6.47	.99	
.995	16.2	12.4	10.9	10.0	9.52	9.16	8.89	8.68	8.51	8.38	8.27	8.18	.995	
.999	29.2	21.7	18.8	17.2	16.2	15.5	15.0	14.6	14.3	14.1	13.9	13.7	.999	
.9995	37.0	27.2	23.5	21.4	20.2	19.3	18.7	18.2	17.8	17.5	17.2	17.0	.9995	
8	.0005	.0442	.050	.048	.014	.027	.041	.055	.068	.081	.092	.102	.112	.0005
	.001	.0317	.010	.076	.020	.036	.053	.068	.083	.096	.109	.120	.130	.001
	.005	.0442	.050	.027	.047	.072	.095	.115	.133	.149	.164	.176	.187	.005
	.01	.0317	.010	.036	.068	.097	.123	.146	.166	.183	.198	.211	.222	.01
	.025	.0210	.025	.069	.111	.148	.179	.204	.226	.244	.259	.273	.285	.025
	.05	.0442	.052	.113	.166	.208	.241	.268	.291	.310	.326	.339	.351	.05
	.10	.017	.107	.190	.253	.299	.335	.363	.386	.405	.421	.435	.445	.10
	.25	.109	.298	.411	.481	.529	.563	.589	.610	.627	.640	.654	.661	.25
	.50	.499	.757	.860	.915	.948	.971	.988	1.00	1.01	1.02	1.02	1.03	.50
	.75	1.54	1.66	1.67	1.66	1.66	1.65	1.64	1.64	1.64	1.63	1.63	1.62	.75
	.90	3.46	3.11	2.92	2.81	2.73	2.67	2.62	2.59	2.56	2.54	2.52	2.50	.90
	.95	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39	3.35	3.31	3.28	.95
.975	7.57	6.06	5.42	5.05	4.82	4.65	4.53	4.43	4.36	4.30	4.24	4.20	.975	
.99	11.3	8.65	7.59	7.01	6.63	6.37	6.18	6.03	5.91	5.81	5.73	5.67	.99	
.995	14.7	11.0	9.60	8.81	8.30	7.95	7.69	7.50	7.34	7.21	7.10	7.01	.995	
.999	25.4	18.5	15.8	14.4	13.5	12.9	12.4	12.0	11.8	11.5	11.4	11.2	.999	
.9995	31.6	22.8	19.4	17.6	16.4	15.7	15.1	14.6	14.3	14.0	13.8	13.6	.9995	
9	.0005	.0441	.050	.048	.015	.027	.042	.056	.070	.083	.094	.105	.115	.0005
	.001	.0317	.010	.077	.021	.037	.054	.070	.085	.099	.112	.123	.134	.001
	.005	.0442	.050	.023	.047	.073	.096	.117	.136	.153	.168	.181	.192	.005
	.01	.0317	.010	.037	.068	.098	.125	.149	.169	.187	.202	.216	.228	.01
	.025	.0210	.025	.069	.112	.150	.181	.207	.230	.248	.265	.279	.291	.025
	.05	.0440	.052	.113	.167	.210	.244	.272	.296	.315	.331	.345	.358	.05
	.10	.017	.107	.191	.254	.302	.338	.367	.390	.410	.426	.441	.452	.10
	.25	.108	.297	.410	.480	.529	.564	.591	.612	.629	.643	.654	.664	.25
	.50	.494	.749	.852	.906	.939	.962	.978	.990	1.00	1.01	1.01	1.02	.50
	.75	1.51	1.62	1.63	1.63	1.62	1.61	1.60	1.60	1.59	1.59	1.58	1.58	.75
	.90	3.36	3.01	2.81	2.69	2.61	2.55	2.51	2.47	2.44	2.42	2.40	2.38	.90
	.95	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18	3.14	3.10	3.07	.95
.975	7.21	5.71	5.08	4.72	4.48	4.32	4.20	4.10	4.03	3.96	3.91	3.87	.975	
.99	10.6	8.02	6.99	6.42	6.06	5.80	5.61	5.47	5.35	5.26	5.18	5.11	.99	
.995	13.6	10.1	8.72	7.96	7.47	7.13	6.88	6.69	6.54	6.42	6.31	6.23	.995	
.999	22.9	16.4	13.9	12.6	11.7	11.1	10.7	10.4	10.1	9.89	9.71	9.57	.999	
.9995	28.0	19.9	16.8	15.1	14.1	13.3	12.8	12.4	12.1	11.8	11.6	11.4	.9995	

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$ (Continuación)

v_2	v_1	15	20	24	30	40	50	60	100	120	200	500	∞	Prop. Acum.	v_2
	.0005	.130	.157	.172	.188	.206	.217	.225	.242	.246	.255	.263	.268	.0005	7
	.001	.148	.176	.191	.208	.225	.237	.245	.261	.266	.274	.282	.288	.001	
	.005	.206	.235	.251	.267	.285	.296	.304	.319	.324	.332	.340	.345	.005	
	.01	.241	.270	.286	.303	.320	.331	.339	.355	.368	.373	.379	.381	.01	
	.025	.304	.333	.348	.364	.381	.392	.399	.413	.418	.426	.433	.437	.025	
	.05	.369	.398	.413	.428	.445	.455	.461	.476	.479	.485	.493	.498	.05	
	.10	.463	.491	.504	.519	.534	.543	.550	.562	.566	.571	.578	.582	.10	
	.25	.679	.702	.713	.725	.737	.745	.749	.760	.762	.767	.772	.775	.25	
	.50	1.05	1.07	1.08	1.09	1.09	1.10	1.10	1.10	1.10	1.10	1.10	1.10	.50	
	.75	1.68	1.67	1.67	1.66	1.66	1.66	1.65	1.65	1.65	1.65	1.65	1.65	.75	
	.90	2.63	2.59	2.58	2.56	2.54	2.52	2.51	2.50	2.49	2.48	2.48	2.47	.90	
	.95	3.51	3.44	3.41	3.38	3.34	3.32	3.30	3.27	3.27	3.25	3.24	3.23	.95	
	.975	4.57	4.47	4.42	4.36	4.31	4.28	4.25	4.21	4.20	4.18	4.16	4.14	.975	
	.99	6.31	6.16	6.07	5.99	5.91	5.86	5.82	5.75	5.74	5.70	5.67	5.65	.99	
	.995	7.97	7.75	7.65	7.53	7.42	7.35	7.31	7.22	7.19	7.15	7.10	7.08	.995	
	.999	13.3	12.9	12.7	12.5	12.3	12.2	12.1	11.9	11.8	11.7	11.7	11.7	.999	
	.9995	16.5	16.0	15.7	15.5	15.2	15.1	15.0	14.7	14.7	14.6	14.5	14.4	.9995	
	.0005	.136	.164	.181	.198	.218	.230	.239	.257	.262	.271	.281	.287	.0005	8
	.001	.155	.184	.200	.218	.238	.250	.259	.277	.282	.292	.300	.306	.001	
	.005	.214	.244	.261	.279	.299	.311	.319	.337	.341	.351	.358	.364	.005	
	.01	.250	.281	.297	.315	.334	.346	.354	.372	.376	.385	.392	.398	.01	
	.025	.313	.343	.360	.377	.395	.407	.415	.431	.435	.442	.450	.456	.025	
	.05	.379	.409	.425	.441	.459	.469	.477	.493	.496	.505	.510	.516	.05	
	.10	.472	.500	.515	.531	.547	.556	.563	.578	.581	.588	.595	.599	.10	
	.25	.684	.707	.718	.730	.743	.751	.758	.767	.769	.775	.780	.783	.25	
	.50	1.04	1.05	1.06	1.07	1.07	1.07	1.08	1.08	1.09	1.09	1.09	1.09	.50	
	.75	1.62	1.61	1.60	1.60	1.59	1.59	1.58	1.58	1.58	1.58	1.58	1.58	.75	
	.90	2.46	2.42	2.40	2.38	2.36	2.35	2.34	2.32	2.31	2.30	2.29	2.29	.90	
	.95	3.22	3.15	3.12	3.08	3.04	3.02	3.01	2.97	2.97	2.95	2.94	2.93	.95	
	.97														

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$ (Continuación)

v_2	v_1	1	2	3	4	5	6	7	8	9	10	11	12	Prop. Acum.
10	.0005	.041	.050	.049	.015	.028	.043	.057	.071	.085	.097	.108	.119	.0005
	.001	.017	.010	.077	.021	.037	.054	.071	.087	.101	.114	.126	.137	.001
	.005	.041	.050	.023	.048	.073	.098	.119	.139	.156	.171	.185	.197	.005
	.01	.017	.010	.037	.069	.100	.127	.151	.172	.190	.206	.220	.233	.01
	.025	.010	.025	.069	.113	.151	.183	.210	.233	.252	.269	.283	.296	.025
	.05	.041	.052	.114	.168	.211	.246	.275	.299	.319	.336	.351	.363	.05
	.10	.017	.106	.191	.255	.303	.340	.370	.394	.414	.430	.444	.457	.10
	.25	.107	.296	.409	.480	.529	.565	.592	.613	.631	.645	.657	.667	.25
	.50	.490	.743	.845	.899	.932	.954	.971	.983	.992	.1.00	.1.01	.1.01	.50
	.75	1.49	1.60	1.60	1.59	1.58	1.57	1.56	1.55	1.55	1.55	1.54	1.54	.75
	.90	3.28	2.92	2.73	2.61	2.52	2.46	2.41	2.38	2.35	2.32	2.30	2.28	.90
	.95	4.96	4.10	3.71	3.483	3.33	3.22	3.14	3.07	3.02	2.98	2.94	2.91	.95
	.975	6.94	5.46	4.83	4.47	4.24	4.07	3.95	3.85	3.78	3.72	3.66	3.62	.975
	.99	10.0	7.56	6.55	5.99	5.64	5.39	5.20	5.05	4.94	4.85	4.77	4.71	.99
	.995	12.8	9.43	8.08	7.34	6.87	6.54	6.30	6.12	5.97	5.85	5.75	5.66	.995
	.999	21.0	14.9	12.6	11.3	10.5	9.92	9.52	9.20	8.96	8.75	8.58	8.44	.999
	.9995	25.5	17.9	15.0	13.4	12.4	11.8	11.3	10.9	10.6	10.3	10.1	9.93	.9995
11	.0005	.041	.050	.049	.015	.028	.043	.058	.072	.086	.099	.111	.121	.0005
	.001	.016	.010	.078	.021	.038	.055	.072	.088	.103	.116	.129	.140	.001
	.005	.040	.050	.023	.048	.074	.099	.121	.141	.158	.174	.188	.200	.005
	.01	.016	.010	.037	.069	.100	.128	.153	.175	.193	.210	.224	.237	.01
	.025	.010	.025	.069	.114	.152	.185	.212	.236	.256	.273	.288	.301	.025
	.05	.041	.052	.114	.168	.212	.248	.278	.302	.323	.340	.355	.368	.05
	.10	.017	.106	.192	.256	.305	.342	.373	.397	.417	.435	.448	.461	.10
	.25	.107	.295	.408	.481	.529	.565	.592	.614	.633	.645	.658	.667	.25
	.50	.486	.739	.840	.893	.926	.948	.964	.977	.986	.994	1.00	1.01	.50
	.75	1.47	1.58	1.58	1.57	1.56	1.55	1.54	1.53	1.53	1.52	1.51	1.51	.75
	.90	3.23	2.86	2.66	2.54	2.45	2.39	2.34	2.30	2.27	2.25	2.23	2.21	.90
	.95	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90	2.85	2.82	2.79	.95
	.975	6.72	5.26	4.63	4.284	4.03	3.883	3.76	3.66	3.59	3.53	3.47	3.43	.975
	.99	9.65	7.21	6.22	5.67	5.32	5.07	4.89	4.74	4.63	4.54	4.46	4.40	.99
	.995	12.2	8.91	7.60	6.886	6.426	10.5	5.86	5.68	5.54	5.42	5.32	5.24	.995
	.999	19.7	13.8	11.6	10.3	9.58	9.05	8.66	8.35	8.12	7.92	7.76	7.62	.999
	.9995	23.6	16.4	13.6	12.2	11.2	10.6	10.1	9.76	9.48	9.24	9.04	8.88	.9995
12	.0005	.041	.050	.049	.015	.028	.044	.058	.073	.087	.101	.113	.124	.0005
	.001	.016	.010	.078	.021	.038	.056	.073	.089	.104	.118	.131	.143	.001
	.005	.039	.050	.023	.048	.075	.100	.122	.143	.161	.177	.191	.204	.005
	.01	.016	.010	.037	.070	.101	.130	.155	.176	.196	.212	.227	.241	.01
	.025	.010	.025	.070	.114	.153	.186	.214	.238	.250	.276	.292	.305	.025
	.05	.041	.052	.114	.169	.214	.250	.280	.305	.325	.343	.358	.372	.05
	.10	.016	.106	.192	.257	.306	.344	.375	.400	.420	.438	.452	.466	.10
	.25	.106	.295	.408	.480	.530	.566	.594	.616	.633	.649	.662	.671	.25
	.50	.484	.735	.835	.888	.921	.943	.959	.972	.981	.989	.995	1.00	.50
	.75	1.46	1.56	1.56	1.55	1.54	1.53	1.52	1.51	1.51	1.50	1.50	1.49	.75
	.90	3.18	2.81	2.61	2.48	2.39	2.33	2.28	2.24	2.21	2.19	2.17	2.15	.90
	.95	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80	2.75	2.72	2.69	.95
	.975	6.55	5.10	4.47	4.128	3.893	3.73	3.61	3.51	3.44	3.37	3.32	3.28	.975
	.99	9.33	6.93	5.95	5.41	5.06	4.82	4.64	4.50	4.39	4.30	4.22	4.16	.99
	.995	11.8	8.51	7.23	6.526	6.075	7.65	5.525	5.35	5.20	5.09	4.99	4.91	.995
	.999	18.6	13.0	10.8	9.63	8.89	8.38	8.00	7.71	7.48	7.29	7.14	7.01	.999
	.9995	22.2	15.3	12.7	11.2	10.4	9.74	9.28	8.94	8.66	8.43	8.24	8.08	.9995

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$ (Continuación)

v_2	v_1	15	20	24	30	40	50	60	100	120	200	500	∞	Prop. Acum.	v_2
	.0005	.145	.177	.195	.215	.238	.251	.262	.282	.288	.299	.311	.319	.0005	10
	.001	.164	.197	.216	.236	.258	.272	.282	.303	.309	.321	.331	.338	.001	
	.005	.226	.260	.279	.299	.321	.334	.344	.365	.370	.380	.391	.397	.005	
	.01	.263	.297	.316	.336	.357	.370	.380	.400	.405	.415	.424	.431	.01	
	.025	.327	.360	.379	.398	.419	.431	.441	.459	.464	.474	.483	.488	.025	
	.05	.393	.426	.444	.462	.481	.493	.502	.518	.523	.532	.541	.546	.05	
	.10	.486	.516	.532	.549	.567	.578	.586	.602	.605	.614	.621	.625	.10	
	.25	.691	.714	.727	.740	.754	.762	.767	.779	.782	.788	.793	.797	.25	
	.50	1.02	1.03	1.04	1.05	1.05	1.06	1.06	1.06	1.06	1.07	1.07	1.07	.50	
	.75	1.53	1.52	1.52	1.51	1.51	1.50	1.50	1.49	1.49	1.48	1.48	1.48	.75	
	.90	2.24	2.20	2.18	2.16	2.13	2.12	2.11	2.09	2.08	2.07	2.06	2.06	.90	
	.95	2.85	2.77	2.74	2.70	2.66	2.64	2.62	2.59	2.58	2.56	2.55	2.54	.95	
	.975	3.523	3.42	3.37	3.31	3.26	3.22	3.20	3.15	3.14	3.12	3.09	3.08	.975	
	.99	4.564	4.41	4.33	4.25	4.17	4.12	4.08	4.04	4.01	4.00	3.96	3.93	.99	
	.995	5.475	5.27	5.17	5.07	4.97	4.90	4.86	4.77	4.75	4.74	4.67	4.64	.995	
	.999	8.137	7.80	7.64	7.47	7.30	7.19	7.12	6.98	6.94	6.87	6.81	6.76	.999	
	.9995	9.56	9.16	8.96	8.75	8.54	8.42	8.33	8.16	8.12	8.04	7.96	7.90	.9995	
	.0005	.148	.182	.201	.222	.246	.261	.271	.293	.299	.312	.324	.331	.0005	11
	.001	.168	.202	.222	.243	.266	.282	.292	.313	.320	.332	.343	.353	.001	
	.005	.231	.266	.286	.303	.320	.345	.355	.376	.382	.394	.403	.412	.005	
	.01	.268	.304	.324	.344	.366	.380	.391	.412	.417	.427	.439	.444	.01	
	.025	.332	.368	.386	.407	.429	.442	.450	.472	.476	.485	.495	.503	.025	
	.05	.398	.433	.452	.469	.490	.503	.513	.529	.535	.543	.552	.559	.05	
	.10	.490	.524	.541	.559	.578	.588	.595	.614	.617	.625	.633	.637	.10	
	.25	.694	.719	.730	.744	.758	.767	.773	.780	.788	.794	.799	.803	.25	
	.50	1.021	1.03	1.04	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	.50	
	.75	1.50	1.49	1.49	1.48	1.47	1.47	1.47	1.47	1.46	1.46	1.46	1.45	.75	
	.90	2.17	2.12	2.10	2.08	2.05	2.04	2.03	2.00	2.00	1.99				

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$ (Continuación)

v_2	v_1	1	2	3	4	5	6	7	8	9	10	11	12	Prop. Acum.
	.0005	.041	.050	.049	.015	.029	.045	.061	.076	.091	.105	.117	.129	.0005
15	.001	.016	.010	.079	.021	.039	.057	.075	.092	.108	.123	.137	.149	.001
	.005	.039	.050	.023	.049	.076	.102	.125	.147	.166	.183	.198	.212	.005
	.01	.016	.010	.037	.070	.103	.132	.158	.181	.202	.219	.235	.249	.01
	.025	.010	.025	.070	.116	.156	.190	.219	.244	.265	.284	.300	.315	.025
	.05	.041	.051	.115	.170	.216	.254	.285	.311	.333	.351	.368	.382	.05
	.10	.016	.106	.192	.258	.309	.348	.380	.406	.427	.446	.461	.475	.10
	.25	.105	.293	.407	.480	.531	.568	.596	.618	.637	.652	.667	.676	.25
	.50	.478	.726	.826	.878	.911	.933	.948	.960	.970	.977	.984	.989	.50
	.75	.143	1.52	1.52	1.51	1.49	1.48	1.47	1.46	1.46	1.45	1.44	1.44	.75
	.90	3.07	2.70	2.49	2.36	2.27	2.21	2.16	2.12	2.09	2.06	2.04	2.02	.90
	.95	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59	2.54	2.51	2.48	.95
	.975	6.20	4.76	4.15	3.80	3.58	3.41	3.29	3.20	3.12	3.06	3.01	2.96	.975
	.99	8.68	6.36	5.42	4.89	4.56	4.32	4.14	4.00	3.89	3.80	3.73	3.67	.99
	.995	10.8	7.70	6.48	5.80	5.37	5.07	4.85	4.67	4.54	4.42	4.33	4.25	.995
	.999	16.6	11.3	9.34	8.25	7.57	7.09	6.74	6.46	6.26	6.08	5.93	5.81	.999
	.9995	19.5	13.2	10.8	9.48	8.66	8.10	7.68	7.36	7.11	6.91	6.75	6.60	.9995
20	.0005	.040	.050	.050	.015	.029	.046	.063	.079	.094	.109	.123	.136	.0005
	.001	.016	.010	.079	.022	.039	.058	.077	.095	.112	.128	.143	.156	.001
	.005	.039	.050	.023	.050	.077	.104	.129	.151	.171	.190	.206	.221	.005
	.01	.016	.010	.037	.071	.105	.135	.162	.187	.208	.227	.244	.259	.01
	.025	.010	.025	.071	.117	.158	.193	.224	.250	.273	.292	.310	.325	.025
	.05	.040	.051	.115	.172	.219	.258	.290	.318	.340	.360	.377	.393	.05
	.10	.016	.106	.193	.260	.312	.353	.385	.412	.435	.454	.472	.485	.10
	.25	.104	.292	.407	.480	.531	.569	.598	.622	.641	.656	.671	.681	.25
	.50	.472	.718	.816	.868	.900	.922	.938	.950	.959	.966	.972	.977	.50
	.75	1.40	1.49	1.48	1.47	1.45	1.44	1.43	1.42	1.41	1.40	1.39	1.39	.75
	.90	2.97	2.59	2.38	2.25	2.16	2.09	2.04	2.00	1.96	1.94	1.91	1.89	.90
	.95	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39	2.35	2.31	2.28	.95
	.975	5.87	4.46	3.86	3.51	3.29	3.13	3.01	2.91	2.84	2.77	2.72	2.68	.975
	.99	8.10	5.85	4.94	4.43	4.10	3.87	3.70	3.56	3.46	3.37	3.29	3.23	.99
	.995	9.94	6.99	5.82	5.17	4.76	4.47	4.26	4.09	3.96	3.85	3.76	3.68	.995
	.999	14.8	9.95	8.10	7.10	6.46	6.02	5.69	5.44	5.24	5.08	4.94	4.82	.999
	.9995	17.2	11.4	9.20	8.02	7.28	6.76	6.38	6.08	5.85	5.66	5.51	5.38	.9995
24	.0005	.040	.050	.050	.015	.030	.046	.064	.080	.096	.112	.126	.139	.0005
	.001	.016	.010	.079	.022	.040	.059	.079	.097	.115	.131	.146	.160	.001
	.005	.040	.050	.023	.050	.078	.106	.131	.154	.175	.193	.210	.226	.005
	.01	.016	.010	.038	.072	.106	.137	.165	.189	.211	.231	.249	.264	.01
	.025	.010	.025	.071	.117	.159	.195	.227	.253	.277	.297	.315	.331	.025
	.05	.040	.051	.116	.173	.221	.260	.293	.321	.345	.365	.383	.399	.05
	.10	.016	.106	.193	.261	.313	.355	.388	.416	.439	.459	.476	.491	.10
	.25	.104	.291	.406	.480	.532	.570	.600	.623	.643	.659	.671	.684	.25
	.50	.469	.714	.812	.863	.895	.917	.932	.944	.953	.961	.967	.972	.50
	.75	1.39	1.47	1.46	1.44	1.43	1.41	1.40	1.39	1.38	1.38	1.37	1.36	.75
	.90	2.93	2.54	2.33	2.19	2.10	2.04	1.98	1.94	1.91	1.88	1.85	1.83	.90
	.95	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30	2.25	2.21	2.18	.95
	.975	5.72	4.32	3.72	3.38	3.15	2.99	2.87	2.78	2.70	2.64	2.59	2.54	.975
	.99	7.82	5.61	4.72	4.22	3.90	3.67	3.50	3.36	3.26	3.17	3.09	3.03	.99
	.995	9.55	6.66	5.52	4.89	4.49	4.20	3.99	3.83	3.69	3.59	3.50	3.42	.995
	.999	14.0	9.34	7.55	6.59	5.98	5.55	5.23	4.99	4.80	4.64	4.50	4.39	.999
	.9995	16.2	10.6	8.52	7.39	6.68	6.18	5.82	5.54	5.31	5.13	4.98	4.85	.9995

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$ (Continuación)

v_2	v_1	15	20	24	30	40	50	60	100	120	200	500	∞	Prop. Acum.	v_2
	.0005	.159	.197	.220	.244	.272	.290	.303	.330	.339	.353	.368	.377	.0005	15
	.001	.181	.219	.242	.266	.294	.313	.325	.352	.360	.375	.388	.398	.001	
	.005	.246	.286	.308	.333	.360	.377	.389	.415	.422	.435	.448	.457	.005	
	.01	.284	.324	.346	.370	.397	.413	.425	.450	.456	.469	.483	.490	.01	
	.025	.349	.389	.410	.433	.458	.474	.485	.508	.514	.526	.538	.546	.025	
	.05	.416	.454	.474	.496	.519	.535	.545	.565	.571	.581	.592	.600	.05	
	.10	.507	.542	.561	.581	.602	.614	.624	.641	.647	.658	.667	.672	.10	
	.25	.701	.728	.742	.757	.772	.782	.788	.802	.805	.812	.818	.822	.25	
	.50	1.00	1.01	1.02	1.02	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.05	.50	
	.75	1.43	1.41	1.41	1.40	1.39	1.39	1.38	1.38	1.37	1.37	1.36	1.36	.75	
	.90	1.97	1.92	1.90	1.87	1.85	1.83	1.82	1.79	1.79	1.77	1.76	1.76	.90	
	.95	2.40	2.33	2.39	2.25	2.20	2.18	2.16	2.12	2.11	2.10	2.08	2.07	.95	
	.975	2.86	2.76	2.70	2.64	2.59	2.55	2.52	2.47	2.46	2.44	2.41	2.40	.975	
	.99	3.52	3.37	3.29	3.21	3.13	3.08	3.05	2.98	2.96	2.92	2.89	2.87	.99	
	.995	4.07	3.88	3.79	3.69	3.59	3.52	3.48	3.39	3.37	3.33	3.29	3.26	.995	
	.999	5.545	5.25	5.10	4.95	4.80	4.70	4.64	4.51	4.47	4.41	4.35	4.31	.999	
	.9995	6.27	5.93	5.75	5.58	5.40	5.29	5.21	5.06	5.02	4.94	4.87	4.83	.9995	
	.0005	.169	.211	.235	.263	.295	.316	.331	.364	.375	.391	.408	.422	.0005	20
	.001	.191	.233	.258	.286	.318	.339	.354	.386	.395	.413	.429	.441	.001	
	.005	.258	.301	.327	.354	.385	.405	.419	.448	.457	.474	.490	.500	.005	
	.01	.297	.340	.365	.392	.422	.441	.455	.483	.491	.508	.521	.532	.01	
	.025	.363	.406	.430	.456	.484	.503	.514	.541	.548	.562	.575	.585	.025	
	.05	.430	.471	.493	.518	.544	.562	.572	.595	.603	.617	.629	.637	.05	
	.10	.520	.557	.578	.600	.623	.637	.648	.671	.675	.685	.694	.704	.10	
	.25	.708	.736	.751	.767	.784	.794	.801	.816	.820	.827	.835	.840	.25	
	.50	1.989	1.001	1.011	1.011	1.021	1.021	1.031	1.031	1.031	1.031	1.031	1.031	.50	
	.75	1.37	1.36	1.35	1.34	1.33	1.33	1.32	1.31	1.31	1.31	1.30	1.30	.75	
	.90	1.84	1.79	1.77	1.74	1.71	1.69	1.68	1.65	1.64	1.63	1.62			

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(\nu_1, \nu_2)$ (Continuación)

ν_2	ν_1	1	2	3	4	5	6	7	8	9	10	11	12	Prop. Acum.
30	.0005	.0 ⁶ 40	.0 ⁵ 50	.0 ⁵ 50	.015	.030	.047	.065	.082	.098	.114	.129	.143	.0005
	.001	.0 ⁶ 16	.0 ⁵ 10	.0 ⁵ 80	.022	.040	.060	.080	.099	.117	.134	.150	.164	.001
	.005	.0440	.0 ⁵ 50	.024	.050	.079	.107	.133	.156	.178	.197	.215	.231	.005
	.01	.0 ⁶ 16	.010	.038	.072	.107	.138	.167	.192	.215	.235	.254	.270	.01
	.025	.0 ² 10	.025	.071	.118	.161	.197	.229	.257	.281	.302	.321	.337	.025
	.05	.0 ² 40	.051	.116	.174	.222	.263	.296	.325	.349	.370	.389	.406	.05
	.10	.016	.106	.193	.262	.315	.357	.391	.420	.443	.464	.481	.497	.10
	.25	.103	.290	.406	.480	.532	.571	.601	.625	.645	.661	.676	.688	.25
	.50	.466	.709	.807	.858	.890	.912	.927	.939	.948	.955	.961	.966	.50
	.75	1.38	1.45	1.44	1.42	1.41	1.39	1.38	1.37	1.36	1.35	1.35	1.34	.75
	.90	2.88	2.49	2.28	2.14	2.05	1.98	1.93	1.88	1.85	1.82	1.79	1.77	.90
	.95	4.17	3.32	2.92	2.60	2.53	2.42	2.33	2.27	2.21	2.16	2.13	2.09	.95
	.975	5.57	4.18	3.59	3.25	3.03	2.87	2.75	2.65	2.57	2.51	2.46	2.41	.975
	.99	7.56	5.39	4.51	4.02	3.70	3.47	3.30	3.17	3.07	2.98	2.91	2.84	.99
	.995	9.18	6.35	5.24	4.62	4.23	3.95	3.74	3.58	3.45	3.34	3.25	3.18	.995
	.999	13.3	8.77	7.05	6.12	5.53	5.12	4.82	4.58	4.39	4.24	4.11	4.00	.999
	.9995	15.2	9.90	7.90	6.82	6.14	5.66	5.31	5.04	4.82	4.65	4.51	4.38	.9995
40	.0005	.0 ⁶ 40	.0 ⁵ 50	.0 ⁵ 50	.016	.030	.048	.066	.084	.100	.117	.132	.147	.0005
	.001	.0 ⁶ 16	.0 ⁵ 10	.0 ⁵ 80	.022	.042	.061	.081	.101	.119	.137	.153	.169	.001
	.005	.0440	.0 ⁵ 50	.024	.051	.080	.108	.135	.159	.181	.201	.220	.237	.005
	.01	.0 ⁶ 16	.010	.038	.073	.108	.140	.169	.195	.219	.240	.259	.276	.01
	.025	.0 ⁹ 99	.025	.071	.119	.162	.199	.232	.260	.285	.307	.327	.344	.025
	.05	.0 ² 40	.051	.116	.175	.224	.265	.299	.329	.354	.376	.395	.412	.05
	.10	.016	.106	.194	.263	.317	.360	.394	.424	.448	.469	.488	.504	.10
	.25	.103	.290	.405	.480	.533	.572	.603	.627	.647	.664	.680	.691	.25
	.50	.463	.705	.802	.854	.885	.907	.922	.934	.943	.950	.956	.961	.50
	.75	1.36	1.44	1.42	1.40	1.39	1.37	1.36	1.35	1.34	1.33	1.32	1.31	.75
	.90	2.84	2.44	2.23	2.09	2.00	1.93	1.87	1.83	1.79	1.76	1.73	1.71	.90
	.95	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.08	2.04	2.00	.95
	.975	5.42	4.05	3.46	3.13	2.90	2.74	2.62	2.53	2.45	2.39	2.33	2.29	.975
	.99	7.31	5.18	4.31	3.83	3.51	3.29	3.12	2.99	2.89	2.80	2.73	2.66	.99
	.995	8.88	6.07	4.98	4.37	3.99	3.71	3.51	3.35	3.22	3.12	3.03	2.95	.995
	.999	12.6	8.25	6.60	5.70	5.13	4.73	4.44	4.21	4.02	3.87	3.75	3.64	.999
	.9995	14.4	9.25	7.33	6.30	5.64	5.19	4.85	4.59	4.38	4.21	4.07	3.95	.9995
60	.0005	.0 ⁶ 40	.0 ⁵ 50	.0 ⁵ 50	.016	.031	.048	.067	.085	.103	.120	.136	.152	.0005
	.001	.0 ⁶ 16	.0 ⁵ 10	.0 ⁵ 80	.022	.041	.062	.083	.103	.122	.140	.157	.174	.001
	.005	.0440	.0 ⁵ 50	.024	.051	.081	.110	.137	.162	.185	.206	.225	.243	.005
	.01	.0 ⁶ 16	.010	.038	.073	.109	.142	.172	.199	.223	.245	.265	.283	.01
	.025	.0 ⁹ 99	.025	.071	.120	.163	.202	.235	.264	.290	.313	.333	.351	.025
	.05	.0 ² 40	.051	.116	.176	.226	.267	.303	.333	.359	.382	.402	.419	.05
	.10	.016	.106	.194	.264	.318	.362	.398	.428	.453	.475	.493	.510	.10
	.25	.102	.289	.405	.480	.534	.573	.604	.629	.650	.667	.680	.695	.25
	.50	.461	.701	.798	.849	.880	.901	.917	.928	.937	.945	.951	.958	.50
	.75	1.35	1.42	1.41	1.38	1.37	1.35	1.33	1.32	1.31	1.30	1.29	1.29	.75
	.90	2.79	2.39	2.18	2.04	1.95	1.87	1.82	1.77	1.74	1.71	1.68	1.66	.90
	.95	4.00	3.15	2.76	2.53	2.37	2.25	2.17	2.10	2.04	1.99	1.95	1.92	.95
	.975	5.29	3.93	3.34	3.01	2.79	2.63	2.51	2.41	2.33	2.27	2.22	2.17	.975
	.99	7.08	4.98	4.13	3.65	3.43	3.12	2.95	2.82	2.72	2.63	2.56	2.50	.99
	.995	8.49	5.80	4.73	4.14	3.76	3.49	3.29	3.13	3.01	2.90	2.82	2.74	.995
	.999	12.0	7.76	6.17	5.31	4.76	4.37	4.09	3.87	3.69	3.54	3.43	3.31	.999
	.9995	13.6	8.65	6.81	5.82	5.20	4.76	4.44	4.18	3.98	3.82	3.69	3.57	.9995

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(\nu_1, \nu_2)$ (Continuación)

ν_2	ν_1	15	20	24	30	40	50	60	100	120	200	500	∞	Prop. Acum.	ν_2
	.0005	.179	.226	.254	.287	.325	.350	.369	.410	.420	.444	.467	.483	.0005	30
	.001	.202	.250	.278	.311	.348	.373	.391	.431	.442	.465	.488	.503	.001	
	.005	.271	.320	.349	.381	.414	.441	.457	.495	.504	.524	.543	.559	.005	
	.01	.311	.360	.388	.419	.454	.476	.493	.529	.538	.559	.575	.590	.01	
	.025	.378	.426	.453	.482	.515	.535	.551	.585	.592	.610	.625	.639	.025	
	.05	.445	.490	.516	.543	.573	.592	.606	.637	.644	.658	.676	.685	.05	
	.10	.534	.575	.598	.623	.649	.667	.678	.704	.710	.725	.735	.746	.10	
	.25	.716	.746	.763	.780	.798	.810	.818	.835	.839	.848	.856	.862	.25	
	.50	.978	.989	.994	1.00	1.01	1.01	1.01	1.02	1.02	1.02	1.02	1.02	.50	
	.75	1.321	1.301	1.291	1.281	1.27	1.26	1.26	1.25	1.24	1.24	1.23	1.23	.75	
	.90	1.721	1.671	1.641	1.611	1.571	1.551	1.541	1.51	1.50	1.48	1.47	1.46	.90	
	.95	2.01	1.931	1.891	1.841	1.791	1.761	1.741	1.701	1.681	1.661	1.641	1.621	.95	
	.975	2.312	2.202	1.142	1.072	1.011	1.071	1.041	1.081	1.071	1.081	1.071	1.071	.975	
	.99	2.70	2.552	2.472	2.39	2.30	2.25	2.21	2.132	2.111	2.071	2.032	2.01	.99	
	.995	3.012	2.822	2.732	2.632	2.522	2.462	2.422	2.322	2.30	2.252	2.212	2.18	.995	
	.999	3.75	3.49	3.36	3.22	3.07	2.98	2.92	2.79	2.76	2.69	2.63	2.59	.999	
	.9995	4.10	3.80	3.65	3.48	3.32	3.22	3.15	3.00	2.97	2.89	2.82	2.78	.9995	
	.0005	.185	.236	.266	.301	.343	.373	.393	.441	.453	.480	.504	.525	.0005	40
	.001	.209	.259	.290	.326	.367	.396	.415	.461	.473	.500	.524	.545	.001	
	.005	.279	.331	.362	.396	.436	.463	.481	.524	.534	.559	.578	.599	.005	
	.01	.319	.371	.401	.435	.473	.498	.516	.556	.567	.592	.613	.628	.01	
	.025	.387	.437	.466	.498	.533	.566	.573	.610	.620	.641	.662	.674	.025	
	.05	.454	.502	.529	.558	.591	.613	.627	.658	.669	.685	.704	.717	.05	
	.10	.542	.585	.609	.636	.664	.683	.696	.724	.731	.747	.762	.772	.10	
	.25	.720	.752	.769	.787	.806	.819	.828	.846	.851	.861	.870	.877	.25	
	.50	.972	.983	.989	.994	1.00	1.00	1.01	1.01	1.01	1.01	1.01	1.02	.5	

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$ (Continuación)

$v_2 \backslash v_1$	1	2	3	4	5	6	7	8	9	10	11	12	Prop. Acum.
120	.0005	.0440	.0550	.0511	.016	.031	.049	.067	.087	.105	.123	.140	.156 .0005
	.001	.016	.010	.081	.023	.042	.063	.084	.105	.125	.144	.162	.179 .001
	.005	.039	.050	.024	.051	.081	.111	.139	.165	.189	.211	.230	.249 .005
	.01	.016	.010	.038	.074	.110	.143	.174	.202	.227	.250	.271	.290 .01
	.025	.099	.025	.072	.120	.165	.204	.238	.268	.295	.318	.340	.359 .025
	.05	.039	.051	.117	.177	.227	.270	.306	.337	.364	.388	.408	.427 .05
	.10	.016	.105	.194	.265	.320	.365	.401	.432	.458	.480	.500	.518 .10
	.25	.102	.288	.405	.481	.534	.574	.606	.631	.652	.670	.685	.699 .25
	.50	.458	.697	.793	.844	.875	.896	.912	.923	.932	.939	.945	.950 .50
	.75	1.34	1.40	1.39	1.37	1.35	1.33	1.31	1.30	1.29	1.28	1.27	1.26 .75
	.90	2.75	2.85	2.13	1.99	1.90	1.82	1.77	1.72	1.68	1.65	1.62	1.60 .90
	.95	3.92	3.07	2.68	2.45	2.29	2.18	2.09	2.02	1.96	1.91	1.87	1.83 .95
	.975	5.15	3.80	3.23	2.89	2.67	2.52	2.39	2.30	2.22	2.16	2.10	2.05 .975
	.99	6.85	4.79	3.95	3.48	3.17	2.96	2.79	2.66	2.56	2.47	2.40	2.34 .99
	.995	8.18	5.54	4.50	3.92	3.53	3.28	3.09	2.93	2.81	2.71	2.62	2.54 .995
	.999	11.4	7.32	5.79	4.95	4.42	4.04	3.77	3.55	3.38	3.24	3.12	3.02 .999
	.9995	12.8	8.10	6.34	5.39	4.79	4.37	4.07	3.82	3.63	3.47	3.34	3.22 .9995
8	.0005	.039	.050	.051	.016	.032	.050	.069	.088	.108	.127	.144	.161 .0005
	.001	.016	.010	.081	.023	.042	.063	.085	.107	.128	.148	.167	.185 .001
	.005	.039	.050	.024	.052	.082	.113	.141	.163	.193	.216	.236	.256 .005
	.01	.016	.010	.038	.074	.111	.145	.177	.206	.232	.256	.278	.298 .01
	.025	.098	.025	.072	.121	.166	.206	.241	.272	.300	.325	.347	.367 .025
	.05	.039	.051	.117	.178	.229	.273	.310	.342	.369	.394	.417	.436 .05
	.10	.016	.105	.195	.266	.322	.367	.405	.436	.463	.487	.508	.525 .10
	.25	.102	.288	.404	.481	.535	.576	.608	.634	.655	.674	.690	.703 .25
	.50	.455	.693	.789	.839	.870	.891	.907	.918	.927	.934	.939	.945 .50
	.75	1.32	1.39	1.37	1.35	1.33	1.31	1.29	1.28	1.27	1.25	1.24	1.24 .75
	.90	2.71	2.30	2.08	1.94	1.85	1.77	1.72	1.67	1.63	1.60	1.57	1.55 .90
	.95	3.84	3.00	2.60	2.37	2.21	2.10	2.01	1.94	1.88	1.83	1.79	1.75 .95
	.975	5.02	3.69	3.12	2.79	2.57	2.41	2.29	2.19	2.11	2.05	1.99	1.94 .975
	.99	6.63	4.61	3.78	3.32	3.02	2.80	2.64	2.51	2.41	2.32	2.25	2.18 .99
	.995	7.88	5.30	4.28	3.72	3.35	3.09	2.90	2.74	2.62	2.52	2.43	2.36 .995
	.999	10.8	6.91	5.42	4.62	4.10	3.74	3.47	3.27	3.10	2.96	2.84	2.74 .999
	.9995	12.1	7.60	5.91	5.00	4.42	4.02	3.72	3.48	3.30	3.14	3.02	2.90 .9995

Para muestras de tamaño superior a 30, se puede obtener una buena aproximación para los percentiles de la distribución F mediante

$$\log_{10} F_\alpha(v_1, v_2) \approx \left(\frac{a}{\sqrt{h - b}} \right) - cg$$

siendo $h = 2v_1v_2/(v_1 + v_2)$, $g = (v_2 - v_1)/v_1v_2$, y a , b , c , funciones de α con los siguientes valores:

α	.50	.75	.90	.95	.975	.99	.995	.999	.9995
a	0	0.5859	1.1131	1.4287	1.7023	2.0206	2.2373	2.6841	2.8580
b	—	0.58	0.77	0.95	1.14	1.40	1.61	2.09	2.30
c	0.290	0.355	0.527	0.681	0.846	1.073	1.250	1.672	1.857

TABLA A-7c. PERCENTILES DE LAS DISTRIBUCIONES $F(v_1, v_2)$ (Continuación)

$v_2 \backslash v_1$	15	20	24	30	40	50	60	100	120	200	500	∞	Prop. Acum.	v_2	
	.0005	.199	.256	.293	.338	.390	.429	.458	.524	.543	.578	.614	.676	.0005	120
	.001	.223	.282	.319	.363	.415	.453	.548	.542	.568	.595	.631	.691	.001	
	.005	.297	.356	.393	.434	.484	.520	.545	.605	.623	.661	.702	.733	.005	
	.01	.338	.397	.433	.474	.522	.556	.579	.636	.652	.688	.725	.755	.01	
	.025	.406	.464	.498	.536	.580	.611	.633	.684	.698	.729	.762	.789	.025	
	.05	.473	.527	.559	.594	.634	.661	.682	.727	.740	.767	.815	.849	.05	
	.10	.560	.609	.636	.667	.702	.726	.742	.781	.791	.815	.838	.855	.10	
	.25	.730	.765	.784	.805	.828	.843	.853	.877	.884	.897	.911	.923	.25	
	.50	.961	.972	.978	.983	.989	.992	.994	1.00	1.00	1.00	1.01	1.01	.50	
	.75	1.24	1.22	1.21	1.19	1.18	1.17	1.16	1.14	1.13	1.12	1.11	1.10	.75	
	.90	1.55	1.48	1.41	1.37	1.34	1.32	1.27	1.26	1.24	1.21	1.19	1.90	.90	
	.95	1.75	1.66	1.61	1.55	1.50	1.46	1.43	1.37	1.32	1.28	1.25	1.95	.95	
	.975	1.95	1.82	1.76	1.69	1.61	1.56	1.53	1.45	1.43	1.39	1.34	1.31	.975	
	.99	2.19	2.03	1.95	1.86	1.76	1.70	1.66	1.61	1.58	1.48	1.42	1.38	.99	
	.995	2.37	2.19	2.09	1.98	1.87	1.80	1.75	1.64	1.61	1.54	1.48	1.43	.995	
	.999	2.78	2.53	2.40	2.26	2.12	2.02	1.95	1.82	1.76	1.70	1.62	1.54	.999	
	.9995	2.96	2.67	2.53	2.38	2.21	2.11	2.01	1.88	1.84	1.75	1.67	1.60	.9995	
	.0005	.207	.270	.311	.360	.422	.469	.505	.559	.624	.704	.804	1.00	.0005	
	.001	.232	.296	.338	.386	.448	.493	.527	.617	.649	.719	.819	1.00	.001	
	.005	.307	.372	.412	.460	.518	.559	.592	.671	.699	.762	.843	1.00	.005	
	.01	.349	.413	.452	.499	.554	.595	.625	.699	.724	.782	.858	1.00	.01	
	.025	.418	.480	.517	.560	.611	.645	.675	.741	.763	.813	.878	1.00	.025	
	.05	.484	.543	.577	.617	.663	.694	.720	.781	.797	.840	.896	1.00	.05	
	.10	.570	.622	.652	.687	.726	.752	.774	.826	.838	.877	.919	1.00	.10	
	.25	.736	.773	.793	.816	.842	.860	.872	.901	.910	.932	.957	1.00	.25	
	.50	.956	.967	.972	.978	.983	.987	.989	.993	.994	.997	.999	1.00	.50	
	.75	1.22	1.19	1.18	1.16	1.14	1.13	1.12	1.09	1.08	1.07	1.04	1.00	.75	
	.90	1.49	1.42	1.38	1.34	1.30	1.26	1.24	1.18	1.17	1.13	1.08	1.00	.90	
	.95	1.67	1.57	1.52	1.46	1.39	1.35	1.32	1.24	1.22	1.17	1.11	1.00	.95	
	.975	1.83	1.71	1.64	1.57	1.48	1.43	1.39	1.30	1.27	1.21	1.13	1.00	.975	
	.99	2.04	1.81	1.79	1.70	1.59	1.52	1.47	1.36	1.32	1.25	1.15	1.00	.99	
	.995	2.19	2.00	1.90	1.79	1.67	1.59	1.53	1.40	1.36	1.28	1.17	1.00	.995	
	.999	2.51	2.27	2.13	1.99	1.84	1.73	1.66	1.49	1.45	1.34	1.21	1.00	.999	
	.9995	2.65	2.37	2.22	2.07	1.91	1.79	1.71	1.53	1.48	1.36	1.22	1.00	.9995	

Los valores de esta tabla se han extractado, con la correspondiente autorización, de las siguientes tablas:

1. Todos los valores de v_1 , v_2 iguales a 50, 100, 200, 500 proceden de A. Hald, *Statistical Tables and Formulas*, John Wiley & Sons, Inc., Nueva York, 1952.

2. Para las proporciones acumulativas .5; .75; .9; .96; .975; .99; .995 la mayoría de los valores proceden de M. Merrington y C. M. Thompson, *Biometrika*, vol. 33 (1943), página 73.

3. Para las proporciones acumulativas .999 los valores proceden de G. Colcord y L. S. Deming, *Sankhyā*, vol. 2 (1938), pág. 423.

4. Para prop. acum. = $a < .5$ los valores son los recíprocos de los correspondientes a 1 — a (con v_1 y v_2 intercambiados). Los valores en Merrington y Thompson, y en Colcord y Deming tienen cinco cifras significativas, y se esperó (pero no se supone) que los recíprocos son exactos tal como se dan. Los valores en Hald tienen tres cifras significativas y