

Table entry for *z* is the area under the standard Normal curve to the left of *z*.

TABLE A	Standa	rd Normal P	Probabilities	(continued	l)					
z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.5000	.5040	.5080	.5120	.5160	.5199	.5239	.5279	.5319	.5359
0.1	.5398	.5438	.5478	.5517	.5557	.5596	.5636	.5675	.5714	.5753
0.2	.5793	.5832	.5871	.5910	.5948	.5987	.6026	.6064	.6103	.6141
0.3	.6179	.6217	.6255	.6293	.6331	.6368	.6406	.6443	.6480	.6517
0.4	.6554	.6591	.6628	.6664	.6700	.6736	.6772	.6808	.6844	.6879
0.5	.6915	.6950	.6985	.7019	.7054	.7088	.7123	.7157	.7190	.7224
0.6	.7257	.7291	.7324	.7357	.7389	.7422	.7454	.7486	.7517	.7549
0.7	.7580	.7611	.7642	.7673	.7704	.7734	.7764	.7794	.7823	.7852
0.8	.7881	.7910	.7939	.7967	.7995	.8023	.8051	.8078	.8106	.8133
0.9	.8159	.8186	.8212	.8238	.8264	.8289	.8315	.8340	.8365	.8389
1.0	.8413	.8438	.8461	.8485	.8508	.8531	.8554	.8577	.8599	.8621
1.1	.8643	.8665	.8686	.8708	.8729	.8749	.8770	.8790	.8810	.8830
1.2	.8849	.8869	.8888	.8907	.8925	.8944	.8962	.8980	.8997	.9015
1.3	.9032	.9049	.9066	.9082	.9099	.9115	.9131	.9147	.9162	.9177
1.4	.9192	.9207	.9222	.9236	.9251	.9265	.9279	.9292	.9306	.9319
1.5	.9332	.9345	.9357	.9370	.9382	.9394	.9406	.9418	.9429	.9441
1.6	.9452	.9463	.9474	.9484	.9495	.9505	.9515	.9525	.9535	.9545
1.7	.9554	.9564	.9573	.9582	.9591	.9599	.9608	.9616	.9625	.9633
1.8	.9641	.9649	.9656	.9664	.9671	.9678	.9686	.9693	.9699	.9706
1.9	.9713	.9719	.9726	.9732	.9738	.9744	.9750	.9756	.9761	.9767
2.0	.9772	.9778	.9783	.9788	.9793	.9798	.9803	.9808	.9812	.9817
2.1	.9821	.9826	.9830	.9834	.9838	.9842	.9846	.9850	.9854	.9857
2.2	.9861	.9864	.9868	.9871	.9875	.9878	.9881	.9884	.9887	.9890
2.3	.9893	.9896	.9898	.9901	.9904	.9906	.9909	.9911	.9913	.9916
2.4	.9918	.9920	.9922	.9925	.9927	.9929	.9931	.9932	.9934	.9936
2.5	.9938	.9940	.9941	.9943	.9945	.9946	.9948	.9949	.9951	.9952
2.6	.9953	.9955	.9956	.9957	.9959	.9960	.9961	.9962	.9963	.9964
2.7	.9965	.9966	.9967	.9968	.9969	.9970	.9971	.9972	.9973	.9974
2.8	.9974	.9975	.9976	.9977	.9977	.9978	.9979	.9979	.9980	.9981
2.9	.9981	.9982	.9982	.9983	.9984	.9984	.9985	.9985	.9986	.9986
3.0	.9987	.9987	.9987	.9988	.9988	.9989	.9989	.9989	.9990	.9990
3.1	.9990	.9991	.9991	.9991	.9992	.9992	.9992	.9992	.9993	.9993
3.2	.9993	.9993	.9994	.9994	.9994	.9994	.9994	.9995	.9995	.9995
3.3	.9995	.9995	.9995	.9996	.9996	.9996	.9996	.9996	.9996	.9997
3.4	.9997	.9997	.9997	.9997	.9997	.9997	.9997	.9997	.9997	.9998

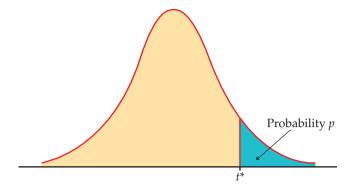
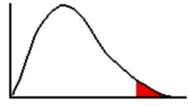


Table entry for p and C is the critical value t^* with probability p lying to its right and probability C lying between $-t^*$ and t^* .

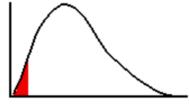
TABLE D	t Dis	tribution	Critical Va	lues								
					U	pper-tail	probabilit	y <i>p</i>				
df	.25	.20	.15	.10	.05	.025	.02	.01	.005	.0025	.001	.0005
1	1.000	1.376	1.963	3.078	6.314	12.71	15.89	31.82	63.66	127.3	318.3	636.6
2	0.816	1.061	1.386	1.886	2.920	4.303	4.849	6.965	9.925	14.09	22.33	31.60
3	0.765	0.978	1.250	1.638	2.353	3.182	3.482	4.541	5.841	7.453	10.21	12.92
4	0.741	0.941	1.190	1.533	2.132	2.776	2.999	3.747	4.604	5.598	7.173	8.610
5	0.727	0.920	1.156	1.476	2.015	2.571	2.757	3.365	4.032	4.773	5.893	6.869
6	0.718	0.906	1.134	1.440	1.943	2.447	2.612	3.143	3.707	4.317	5.208	5.959
7	0.711	0.896	1.119	1.415	1.895	2.365	2.517	2.998	3.499	4.029	4.785	5.408
8	0.706	0.889	1.108	1.397	1.860	2.306	2.449	2.896	3.355	3.833	4.501	5.041
9	0.703	0.883	1.100	1.383	1.833	2.262	2.398	2.821	3.250	3.690	4.297	4.781
10	0.700	0.879	1.093	1.372	1.812	2.228	2.359	2.764	3.169	3.581	4.144	4.587
11	0.697	0.876	1.088	1.363	1.796	2.201	2.328	2.718	3.106	3.497	4.025	4.437
12	0.695	0.873	1.083	1.356	1.782	2.179	2.303	2.681	3.055	3.428	3.930	4.318
13	0.694	0.870	1.079	1.350	1.771	2.160	2.282	2.650	3.012	3.372	3.852	4.221
14	0.692	0.868	1.076	1.345	1.761	2.145	2.264	2.624	2.977	3.326	3.787	4.140
15	0.691	0.866	1.074	1.341	1.753	2.131	2.249	2.602	2.947	3.286	3.733	4.073
16	0.690	0.865	1.071	1.337	1.746	2.120	2.235	2.583	2.921	3.252	3.686	4.015
17	0.689	0.863	1.069	1.333	1.740	2.110	2.224	2.567	2.898	3.222	3.646	3.965
18	0.688	0.862	1.067	1.330	1.734	2.101	2.214	2.552	2.878	3.197	3.611	3.922
19	0.688	0.861	1.066	1.328	1.729	2.093	2.205	2.539	2.861	3.174	3.579	3.883
20	0.687	0.860	1.064	1.325	1.725	2.086	2.197	2.528	2.845	3.153	3.552	3.850
21	0.686	0.859	1.063	1.323	1.721	2.080	2.189	2.518	2.831	3.135	3.527	3.819
22	0.686	0.858	1.061	1.321	1.717	2.074	2.183	2.508	2.819	3.119	3.505	3.792
23	0.685	0.858	1.060	1.319	1.714	2.069	2.177	2.500	2.807	3.104	3.485	3.768
24	0.685	0.857	1.059	1.318	1.711	2.064	2.172	2.492	2.797	3.091	3.467	3.745
25	0.684	0.856	1.058	1.316	1.708	2.060	2.167	2.485	2.787	3.078	3.450	3.725
26	0.684	0.856	1.058	1.315	1.706	2.056	2.162	2.479	2.779	3.067	3.435	3.707
27	0.684 0.683	0.855 0.855	1.057 1.056	1.314 1.313	1.703 1.701	2.052 2.048	2.158 2.154	2.473 2.467	2.771 2.763	3.057 3.047	3.421 3.408	3.690 3.674
28 29	0.683	0.853	1.056	1.313	1.699	2.048	2.154	2.467	2.756	3.047	3.408	3.659
30	0.683	0.854	1.055	1.311	1.699	2.043	2.130	2.462	2.750	3.038	3.385	3.646
40	0.683	0.854	1.055	1.310	1.684	2.042	2.147	2.423	2.704	2.971	3.307	3.551
50	0.681	0.851	1.050	1.303	1.676	2.021	2.123	2.423	2.704	2.971	3.261	3.496
60	0.679	0.849	1.047	1.299	1.676	2.009	2.109	2.403	2.660	2.937	3.232	3.496
80	0.679	0.846	1.043	1.290	1.664	1.990	2.099	2.374	2.639	2.887	3.195	3.416
100	0.678	0.845	1.043	1.292	1.660	1.984	2.088	2.364	2.626	2.871	3.174	3.410
1000	0.675	0.843	1.042	1.282	1.646	1.962	2.056	2.330	2.581	2.813	3.174	3.300
z*	0.674	0.841	1.036	1.282	1.645	1.960	2.054	2.326	2.576	2.807	3.098	3.291
	50%	60%	70%	80%	90%	95%	96%	98%	99%	99.5%	99.8%	99.9%
						Confider	nce level C					

The Chi-Squared Distribution Table

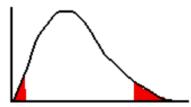
HOW TO USE THIS GRAPH:



To find this region use the value equivalent to α at the top of the table.



To find this region use the value equivalent to $1-\alpha$ at the top of the table.



To find the region to the left, use $1-\alpha/2$.

To find the region to the right, use $\alpha/2$.

degree of freedo	/		An	ea to th	e right	of the (Critical	Value		
ii e euo	<u>0.995</u>	0.99	0.975	0.95	0.90	0.10	0.05	0.025	0.01	0.005
1	-		0.001	0.004	0.016	2.706	3.841	5.024	6.635	7.879
2	0.010	0.020	0.051	0.103	0.211	4.605	5.991	7.378	9.210	10.597
3	0.072	0.115	0.216	0.352	0.584	6.251	7.815	9.348	11.345	12.383
4	0.207	0.297	0.484	0.711	1.064	7.779	9.488	11.143	13.277	14.860
5	0.412	0.544	0.831	1.145	1.610	9.236	11.071	12.833	15.086	16.750
6	0.676	0.872	1.237	1.635	2.204	10.645	12.592	14.449	16.812	18.548
7	0.989	1.239	1.690	2.167	2.833	12.017	14.067	16.013	18.475	20.278
8	1.344	1.646	2.180	2.733	3.490	13.362	15.507	17.535	20.090	21.955
9	1.735	2.088	2.700	3.325	4.168	14.684	16.919	19.023	21.666	23.589
10	2.156	2.558	3.247	3.940	4.865	15.987	18.307	20.483	23.209	25.188
11	2.603	3.053	3.816	4.575	5.578	17.275	19.675	21.920	24.725	26.757
12	3.074	3.571	4.404	5.226	6.304	18.549	21.026	23.337	26.217	28.299
13	3.666	4.107	6.009	6.892	7.042	19.812	22,762	24.706	27.688	29.819
14	4.076	4.660	6.629	6.671	7.790	21.064	23,686	26,119	29.141	31,319
16	4.601	6.229	6.262	7.261	8.647	22,307	24.996	27.488	J0.578	32.801
16	6.142	6.812	6.908	7.862	9.312	23.542	26.296	28.846	J2.000	34.267
17	6.697	6.408	7.664	8.672	10.086	24.769	27.587	30.191	JJ.409	35,718
18	6.266	7.016	8.231	9.390	10.866	25,989	28.869	31.626	J4.806	37.166
19	6.844	7.600	8.907	10.117	11,661	27.204	JO.144	J2.862	J6.191	38.682
20	7.434	8.260	9.691	10.861	12.443	28.412	J1.410	34.170	37.566	J9.997

degree	/		Ar	ea to th	ne right	of the	Critical	Value		
ire edo		0.99	0.975	0.95	0.90	0.10	0.05	0.025	0.01	0.00
21	8.034	8.897	10.283	11.591	13.240	29.615	32.671	35.479	38.932	41.40
22	8.643	9.452	10.982	12.338	14.042	30.813	33.924	36.781	40.289	42.79
23	9.260	10.196	11.689	13.091	14.848	32.007	35.172	38.076	41.638	44.18
24	9.886	10.856	12.401	13.848	15.659	33.196	36.415	39.364	42.980	45.55
25	10.520	11.524	13.120	14.611	16.473	34.382	37.652	40.646	44.314	46.92
26	11.160	12.198	13.844	15.379	17.292	35.563	38.885	41.923	45.642	48.29
27	11.808	12.879	14.573	16.151	18.144	36.741	40.113	43.194	46.963	49.64
28	12.461	13.565	15.308	16.928	18.939	37.196	41.337	44.461	48.278	50.99
29	13.121	14.257	16.047	17.708	19.768	39.087	42.557	45.772	49.588	52.33
30	13.787	14.954	16.791	18.493	20.599	40.256	43.773	46.979	50.892	53.67
40	20.707	22.164	24.433	26.509	29.051	51.805	55.758	59.342	63.691	66.76
50	27.991	29.707	32.357	34.764	37.689	63.167	67.505	71.420	76.154	79.49
60	35.534	37.485	40.482	43.188	46.459	74.397	79.082	83.298	88.379	91.95
70	43.275	45.442	48.758	51.739	55.329	85.527	90.531	95.023	100.43	104.2
80	51.172	53.540	57.153	60.391	64.278	96.578	101.88	106.63	112.33	116.3
90	59.196	61.754	65.647	69.126	73.291	107.57	113.15	118.14	124.12	128.3
100	67.328	70.065	74.222	77.929	82.358	118.50	124.34	129.56	135.81	140.1

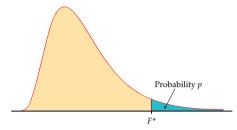


Table entry for *p* is the critical value *F** with probability *p* lying to its right.

	ABLE										
Fc	ritica	al value	es			Degrees of f	reedom in th	e numerator			
		p	1	2	3	4	5	6	7	8	9
	1	.100 .050 .025 .010 .001	39.86 161.45 647.79 4052.2 405284	49.50 199.50 799.50 4999.5 500000	53.59 215.71 864.16 5403.4 540379	55.83 224.58 899.58 5624.6 562500	57.24 230.16 921.85 5763.6 576405	58.20 233.99 937.11 5859.0 585937	58.91 236.77 948.22 5928.4 592873	59.44 238.88 956.66 5981.1 598144	59.86 240.54 963.28 6022.5 602284
	2	.100 .050 .025 .010	8.53 18.51 38.51 98.50 998.50	9.00 19.00 39.00 99.00 999.00	9.16 19.16 39.17 99.17 999.17	9.24 19.25 39.25 99.25 999.25	9.29 19.30 39.30 99.30 999.30	9.33 19.33 39.33 99.33 999.33	9.35 19.35 39.36 99.36 999.36	9.37 19.37 39.37 99.37 999.37	9.38 19.38 39.39 99.39 999.39
nominator	3	.100 .050 .025 .010 .001	5.54 10.13 17.44 34.12 167.03	5.46 9.55 16.04 30.82 148.50	5.39 9.28 15.44 29.46 141.11	5.34 9.12 15.10 28.71 137.10	5.31 9.01 14.88 28.24 134.58	5.28 8.94 14.73 27.91 132.85	5.27 8.89 14.62 27.67 131.58	5.25 8.85 14.54 27.49 130.62	5.24 8.81 14.47 27.35 129.86
Degrees of freedom in the denominator	4	.100 .050 .025 .010 .001	4.54 7.71 12.22 21.20 74.14	4.32 6.94 10.65 18.00 61.25	4.19 6.59 9.98 16.69 56.18	4.11 6.39 9.60 15.98 53.44	4.05 6.26 9.36 15.52 51.71	4.01 6.16 9.20 15.21 50.53	3.98 6.09 9.07 14.98 49.66	3.95 6.04 8.98 14.80 49.00	3.94 6.00 8.90 14.66 48.47
Degrees of fre	5	.100 .050 .025 .010 .001	4.06 6.61 10.01 16.26 47.18	3.78 5.79 8.43 13.27 37.12	3.62 5.41 7.76 12.06 33.20	3.52 5.19 7.39 11.39 31.09	3.45 5.05 7.15 10.97 29.75	3.40 4.95 6.98 10.67 28.83	3.37 4.88 6.85 10.46 28.16	3.34 4.82 6.76 10.29 27.65	3.32 4.77 6.68 10.16 27.24
	6	.100 .050 .025 .010 .001	3.78 5.99 8.81 13.75 35.51	3.46 5.14 7.26 10.92 27.00	3.29 4.76 6.60 9.78 23.70	3.18 4.53 6.23 9.15 21.92	3.11 4.39 5.99 8.75 20.80	3.05 4.28 5.82 8.47 20.03	3.01 4.21 5.70 8.26 19.46	2.98 4.15 5.60 8.10 19.03	2.96 4.10 5.52 7.98 18.69
	7	.100 .050 .025 .010 .001	3.59 5.59 8.07 12.25 29.25	3.26 4.74 6.54 9.55 21.69	3.07 4.35 5.89 8.45 18.77	2.96 4.12 5.52 7.85 17.20	2.88 3.97 5.29 7.46 16.21	2.83 3.87 5.12 7.19 15.52	2.78 3.79 4.99 6.99 15.02	2.75 3.73 4.90 6.84 14.63	2.72 3.68 4.82 6.72 14.33

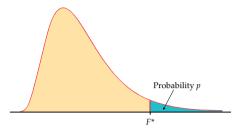


Table entry for p is the critical value F^{*} with probability p lying to its right.

TABLE	E									
F critica	al values	(continued)								
				Degrees of fi	reedom in th	e numeratoi	,			
10	12	15	20	25	30	40	50	60	120	1000
60.19	60.71	61.22	61.74	62.05	62.26	62.53	62.69	62.79	63.06	63.30
241.88	243.91	245.95	248.01	249.26	250.10	251.14	251.77	252.20	253.25	254.19
968.63	976.71	984.87	993.10	998.08	1001.4	1005.6	1008.1	1009.8	1014.0	1017.7
6055.8	6106.3	6157.3	6208.7	6239.8	6260.6	6286.8	6302.5	6313.0	6339.4	6362.7
605621	610668	615764	620908	624017	626099	628712	630285	631337	633972	636301
9.39	9.41	9.42	9.44	9.45	9.46	9.47	9.47	9.47	9.48	9.49
19.40	19.41	19.43	19.45	19.46	19.46	19.47	19.48	19.48	19.49	19.49
39.40	39.41	39.43	39.45	39.46	39.46	39.47	39.48	39.48	39.49	39.50
99.40	99.42	99.43	99.45	99.46	99.47	99.47	99.48	99.48	99.49	99.50
999.40	999.42	999.43	999.45	999.46	999.47	999.47	999.48	999.48	999.49	999.50
5.23	5.22	5.20	5.18	5.17	5.17	5.16	5.15	5.15	5.14	5.13
8.79	8.74	8.70	8.66	8.63	8.62	8.59	8.58	8.57	8.55	8.53
14.42	14.34	14.25	14.17	14.12	14.08	14.04	14.01	13.99	13.95	13.91
27.23	27.05	26.87	26.69	26.58	26.50	26.41	26.35	26.32	26.22	26.14
129.25	128.32	127.37	126.42	125.84	125.45	124.96	124.66	124.47	123.97	123.53
3.92	3.90	3.87	3.84	3.83	3.82	3.80	3.80	3.79	3.78	3.76
5.96	5.91	5.86	5.80	5.77	5.75	5.72	5.70	5.69	5.66	5.63
8.84	8.75	8.66	8.56	8.50	8.46	8.41	8.38	8.36	8.31	8.26
14.55	14.37	14.20	14.02	13.91	13.84	13.75	13.69	13.65	13.56	13.47
48.05	47.41	46.76	46.10	45.70	45.43	45.09	44.88	44.75	44.40	44.09
3.30	3.27	3.24	3.21	3.19	3.17	3.16	3.15	3.14	3.12	3.11
4.74	4.68	4.62	4.56	4.52	4.50	4.46	4.44	4.43	4.40	4.37
6.62	6.52	6.43	6.33	6.27	6.23	6.18	6.14	6.12	6.07	6.02
10.05	9.89	9.72	9.55	9.45	9.38	9.29	9.24	9.20	9.11	9.03
26.92	26.42	25.91	25.39	25.08	24.87	24.60	24.44	24.33	24.06	23.82
2.94	2.90	2.87	2.84	2.81	2.80	2.78	2.77	2.76	2.74	2.72
4.06	4.00	3.94	3.87	3.83	3.81	3.77	3.75	3.74	3.70	3.67
5.46	5.37	5.27	5.17	5.11	5.07	5.01	4.98	4.96	4.90	4.86
7.87	7.72	7.56	7.40	7.30	7.23	7.14	7.09	7.06	6.97	6.89
18.41	17.99	17.56	17.12	16.85	16.67	16.44	16.31	16.21	15.98	15.77
2.70	2.67	2.63	2.59	2.57	2.56	2.54	2.52	2.51	2.49	2.47
3.64	3.57	3.51	3.44	3.40	3.38	3.34	3.32	3.30	3.27	3.23
4.76	4.67	4.57	4.47	4.40	4.36	4.31	4.28	4.25	4.20	4.15
6.62	6.47	6.31	6.16	6.06	5.99	5.91	5.86	5.82	5.74	5.66
14.08	13.71	13.32	12.93	12.69	12.53	12.33	12.20	12.12	11.91	11.72

(Continued)

					I	Degrees of fr	eedom in th	e numerato	r		
		р	1	2	3	4	5	6	7	8	9
		.100	3.46	3.11	2.92	2.81	2.73	2.67	2.62	2.59	2.56
		.050	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39
	8	.025	7.57	6.06	5.42	5.05	4.82	4.65	4.53	4.43	4.3
		.010	11.26	8.65	7.59	7.01	6.63	6.37	6.18	6.03	5.9
		.001	25.41	18.49	15.83	14.39	13.48	12.86	12.40	12.05	11.7
		.100	3.36	3.01	2.81	2.69	2.61	2.55	2.51	2.47	2.4
	9	.050 .025	5.12	4.26 5.71	3.86 5.08	3.63	3.48 4.48	3.37 4.32	3.29 4.20	3.23 4.10	3.1 4.0
	9	.025	7.21 10.56	8.02	6.99	4.72 6.42	6.06	5.80	5.61	4.10 5.47	5.3
		.001	22.86	16.39	13.90	12.56	11.71	11.13	10.70	10.37	10.1
		100	2.20	2.02	2.72	2.61	2.52	2.46	2.41	2 20	2.3
		.100 .050	3.29 4.96	2.92 4.10	2.73 3.71	2.61 3.48	2.52 3.33	2.46 3.22	2.41 3.14	2.38 3.07	3.0
	10	.025	6.94	5.46	4.83	3.46 4.47	4.24	4.07	3.14	3.85	3.7
	10	.010	10.04	7.56	6.55	5.99	5.64	5.39	5.20	5.06	4.9
		.001	21.04	14.91	12.55	11.28	10.48	9.93	9.52	9.20	8.9
		.100	3.23	2.86	2.66	2.54	2.45	2.39	2.34	2.30	2.2
		.050	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.9
	11	.025	6.72	5.26	4.63	4.28	4.04	3.88	3.76	3.66	3.5
<u>5</u>		.010	9.65	7.21	6.22	5.67	5.32	5.07	4.89	4.74	4.6
nna		.001	19.69	13.81	11.56	10.35	9.58	9.05	8.66	8.35	8.1
поп		.100	3.18	2.81	2.61	2.48	2.39	2.33	2.28	2.24	2.2
ë		.050	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.8
Je	12	.025	6.55	5.10	4.47	4.12	3.89	3.73	3.61	3.51	3.4
n T		.010	9.33	6.93	5.95	5.41	5.06	4.82	4.64	4.50	4.3
Ξ		.001	18.64	12.97	10.80	9.63	8.89	8.38	8.00	7.71	7.4
Degrees of freedom in the denominator		.100	3.14	2.76	2.56	2.43	2.35	2.28	2.23	2.20	2.1
He.	4.0	.050	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.7
1	13	.025	6.41	4.97	4.35	4.00	3.77	3.60	3.48	3.39	3.3 4.1
ses		.010 .001	9.07 17.82	6.70 12.31	5.74 10.21	5.21 9.07	4.86 8.35	4.62 7.86	4.44 7.49	4.30 7.21	6.9
egn											
a		.100 .050	3.10 4.60	2.73 3.74	2.52 3.34	2.39 3.11	2.31 2.96	2.24 2.85	2.19 2.76	2.15 2.70	2.1
	14	.025	6.30	4.86	4.24	3.89	3.66	3.50	3.38	3.29	3.2
	17	.010	8.86	6.51	5.56	5.04	4.69	4.46	4.28	4.14	4.0
		.001	17.14	11.78	9.73	8.62	7.92	7.44	7.08	6.80	6.5
		.100	3.07	2.70	2.49	2.36	2.27	2.21	2.16	2.12	2.0
		.050	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.5
	15	.025	6.20	4.77	4.15	3.80	3.58	3.41	3.29	3.20	3.1
		.010	8.68	6.36	5.42	4.89	4.56	4.32	4.14	4.00	3.8
		.001	16.59	11.34	9.34	8.25	7.57	7.09	6.74	6.47	6.2
		.100	3.05	2.67	2.46	2.33	2.24	2.18	2.13	2.09	2.0
		.050	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.5
	16	.025	6.12	4.69	4.08	3.73	3.50	3.34	3.22	3.12	3.0
		.010	8.53	6.23	5.29	4.77	4.44	4.20	4.03	3.89	3.7
		.001	16.12	10.97	9.01	7.94	7.27	6.80	6.46	6.19	5.9
		.100	3.03	2.64	2.44	2.31	2.22	2.15	2.10	2.06	2.0
		.050	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.4
	17	.025	6.04	4.62	4.01	3.66	3.44	3.28	3.16	3.06	2.9
		.010	8.40	6.11	5.19	4.67	4.34	4.10	3.93	3.79	3.6
		.001	15.72	10.66	8.73	7.68	7.02	6.56	6.22	5.96	5.7

TABLE	E									
critica	l values (continued)								
			D	egrees of free	dom in the n	umerator				
10	12	15	20	25	30	40	50	60	120	1000
2.54	2.50	2.46	2.42	2.40	2.38	2.36	2.35	2.34	2.32	2.30
3.35	3.28	3.22	3.15	3.11	3.08	3.04	3.02	3.01	2.97	2.93
4.30	4.20	4.10	4.00	3.94	3.89	3.84	3.81	3.78	3.73	3.68
5.81	5.67	5.52	5.36	5.26	5.20	5.12	5.07	5.03	4.95	4.87
11.54	11.19	10.84	10.48	10.26	10.11	9.92	9.80	9.73	9.53	9.36
2.42	2.38	2.34	2.30	2.27	2.25	2.23	2.22	2.21	2.18	2.16
3.14	3.07	3.01	2.94	2.89	2.86	2.83	2.80	2.79	2.75	2.71
3.96	3.87	3.77	3.67	3.60	3.56	3.51	3.47	3.45	3.39	3.34
5.26	5.11	4.96	4.81	4.71	4.65	4.57	4.52	4.48	4.40	4.32
9.89	9.57	9.24	8.90	8.69	8.55	8.37	8.26	8.19	8.00	7.84
2.32	2.28	2.24	2.20	2.17	2.16	2.13	2.12	2.11	2.08	2.06
2.98	2.91	2.85	2.77	2.73	2.70	2.66	2.64	2.62	2.58	2.54
3.72	3.62	3.52	3.42	3.35	3.31	3.26	3.22	3.20	3.14	3.09
4.85	4.71	4.56	4.41	4.31	4.25	4.17	4.12	4.08	4.00	3.92
8.75	8.45	8.13	7.80	7.60	7.47	7.30	7.19	7.12	6.94	6.78
2.25	2.21	2.17	2.12	2.10	2.08	2.05	2.04	2.03	2.00	1.98
2.85	2.79	2.72	2.65	2.60	2.57	2.53	2.51	2.49	2.45	2.41
3.53	3.43	3.33	3.23	3.16	3.12	3.06	3.03	3.00	2.94	2.89
4.54	4.40	4.25	4.10	4.01	3.94	3.86	3.81	3.78	3.69	3.61
7.92	7.63	7.32	7.01	6.81	6.68	6.52	6.42	6.35	6.18	6.02
2.19	2.15	2.10	2.06	2.03	2.01	1.99	1.97	1.96	1.93	1.91
2.75	2.69	2.62	2.54	2.50	2.47	2.43	2.40	2.38	2.34	2.30
3.37	3.28	3.18	3.07	3.01	2.96	2.91	2.87	2.85	2.79	2.73
4.30	4.16	4.01	3.86	3.76	3.70	3.62	3.57	3.54	3.45	3.37
7.29	7.00	6.71	6.40	6.22	6.09	5.93	5.83	5.76	5.59	5.44
2.14	2.10	2.05	2.01	1.98	1.96	1.93	1.92	1.90	1.88	1.85
2.67	2.60	2.53	2.46	2.41	2.38	2.34	2.31	2.30	2.25	2.21
3.25	3.15	3.05	2.95	2.88	2.84	2.78	2.74	2.72	2.66	2.60
4.10	3.96	3.82	3.66	3.57	3.51	3.43	3.38	3.34	3.25	3.18
6.80	6.52	6.23	5.93	5.75	5.63	5.47	5.37	5.30	5.14	4.99
2.10	2.05	2.01	1.96	1.93	1.91	1.89	1.87	1.86	1.83	1.80
2.60	2.53	2.46	2.39	2.34	2.31	2.27	2.24	2.22	2.18	2.14
3.15	3.05	2.95	2.84	2.78	2.73	2.67	2.64	2.61	2.55	2.50
3.94	3.80	3.66	3.51	3.41	3.35	3.27	3.22	3.18	3.09	3.02
6.40	6.13	5.85	5.56	5.38	5.25	5.10	5.00	4.94	4.77	4.62
2.06	2.02	1.97	1.92	1.89	1.87	1.85	1.83	1.82	1.79	1.76
2.54	2.48	2.40	2.33	2.28	2.25	2.20	2.18	2.16	2.11	2.07
3.06	2.96	2.86	2.76	2.69	2.64	2.59	2.55	2.52	2.46	2.40
3.80	3.67	3.52	3.37	3.28	3.21	3.13	3.08	3.05	2.96	2.88
6.08	5.81	5.54	5.25	5.07	4.95	4.80	4.70	4.64	4.47	4.33
2.03	1.99	1.94	1.89	1.86	1.84	1.81	1.79	1.78	1.75	1.72
2.49	2.42	2.35	2.28	2.23	2.19	2.15	2.12	2.11	2.06	2.02
2.99	2.89	2.79	2.68	2.61	2.57	2.51	2.47	2.45	2.38	2.32
3.69	3.55	3.41	3.26	3.16	3.10	3.02	2.97	2.93	2.84	2.76
5.81	5.55	5.27	4.99	4.82	4.70	4.54	4.45	4.39	4.23	4.08
2.00	1.96	1.91	1.86	1.83	1.81	1.78	1.76	1.75	1.72	1.69
2.45	2.38	2.31	2.23	2.18	2.15	2.10	2.08	2.06	2.01	1.97
2.92	2.82	2.72	2.62	2.55	2.50	2.44	2.41	2.38	2.32	2.26
3.59	3.46	3.31	3.16	3.07	3.00	2.92	2.87	2.83	2.75	2.66

(Continued)

					De	grees of fre	edom in the	numerato	r		
		p	1	2	3	4	5	6	7	8	9
		.100	3.01	2.62	2.42	2.29	2.20	2.13	2.08	2.04	2.00
		.050	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46
	18	.025	5.98	4.56	3.95	3.61	3.38	3.22	3.10	3.01	2.93
		.010 .001	8.29 15.38	6.01 10.39	5.09 8.49	4.58 7.46	4.25 6.81	4.01 6.35	3.84 6.02	3.71 5.76	3.60 5.56
		.100	2.99	2.61	2.40	2.27	2.18	2.11	2.06	2.02	1.98
		.050	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42
	19	.025	5.92	4.51	3.90	3.56	3.33	3.17	3.05	2.96	2.88
		.010	8.18	5.93	5.01	4.50	4.17	3.94	3.77	3.63	3.52
		.001	15.08	10.16	8.28	7.27	6.62	6.18	5.85	5.59	5.39
		.100	2.97	2.59	2.38	2.25	2.16	2.09	2.04	2.00	1.96
	20	.050	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39
	20	.025	5.87	4.46	3.86 4.94	3.51 4.43	3.29 4.10	3.13 3.87	3.01 3.70	2.91	2.84 3.46
		.010 .001	8.10 14.82	5.85 9.95	8.10	7.10	6.46	6.02	5.69	3.56 5.44	5.24
		.100	2.96	2.57	2.36	2.23	2.14	2.08	2.02	1.98	1.95
		.050	4.32	3.47	3.07	2.23	2.68	2.57	2.49	2.42	2.37
	21	.025	5.83	4.42	3.82	3.48	3.25	3.09	2.97	2.87	2.80
OL	21	.010	8.02	5.78	4.87	4.37	4.04	3.81	3.64	3.51	3.40
inat		.001	14.59	9.77	7.94	6.95	6.32	5.88	5.56	5.31	5.11
шоп		.100	2.95	2.56	2.35	2.22	2.13	2.06	2.01	1.97	1.93
de		.050	4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.34
ЭС	22	.025	5.79	4.38	3.78	3.44	3.22	3.05	2.93	2.84	2.76
Ţ.		.010	7.95	5.72	4.82	4.31	3.99	3.76	3.59	3.45	3.35
n ii		.001	14.38	9.61	7.80	6.81	6.19	5.76	5.44	5.19	4.99
edo		.100	2.94	2.55	2.34	2.21	2.11	2.05	1.99	1.95	1.92
μe	23	.050	4.28	3.42	3.03	2.80	2.64 3.18	2.53 3.02	2.44 2.90	2.37	2.32 2.73
Jo	23	.025 .010	5.75 7.88	4.35 5.66	3.75	3.41 4.26	3.18	3.02	3.54	2.81 3.41	3.30
sea		.001	14.20	9.47	4.76 7.67	6.70	6.08	5.65	5.33	5.09	4.89
Degrees of freedom in the denominator		.100	2.93	2.54	2.33	2.19	2.10	2.04	1.98	1.94	1.91
_		.050	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30
	24	.025	5.72	4.32	3.72	3.38	3.15	2.99	2.87	2.78	2.70
		.010	7.82	5.61	4.72	4.22	3.90	3.67	3.50	3.36	3.26
		.001	14.03	9.34	7.55	6.59	5.98	5.55	5.23	4.99	4.80
		.100	2.92	2.53	2.32	2.18	2.09	2.02	1.97	1.93	1.89
		.050	4.24	3.39	2.99	2.76	2.60	2.49	2.40	2.34	2.28
	25	.025	5.69	4.29	3.69	3.35	3.13	2.97	2.85	2.75	2.68
		.010	7.77	5.57	4.68	4.18	3.85	3.63	3.46	3.32	3.22
		.001	13.88	9.22	7.45	6.49	5.89	5.46	5.15	4.91	4.71
		.100	2.91	2.52	2.31	2.17	2.08	2.01	1.96	1.92	1.88
	26	.050	4.23	3.37 4.27	2.98	2.74 3.33	2.59	2.47	2.39	2.32	2.27 2.65
	20	.025 .010	5.66 7.72	5.53	3.67 4.64	3.33 4.14	3.10 3.82	2.94 3.59	2.82 3.42	2.73 3.29	3.18
		.001	13.74	9.12	7.36	6.41	5.80	5.38	5.07	4.83	4.64
		.100	2.90	2.51	2.30	2.17	2.07	2.00	1.95	1.91	1.87
		.050	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.31	2.25
	27	.025	5.63	4.24	3.65	3.31	3.08	2.92	2.80	2.71	2.63
		.010	7.68	5.49	4.60	4.11	3.78	3.56	3.39	3.26	3.15
		.001	13.61	9.02	7.27	6.33	5.73	5.31	5.00	4.76	4.57

TABLE	-									
F critica	al values	(continued)								
				Degrees of f	reedom in th	ne numerato	r			
10	12	15	20	25	30	40	50	60	120	1000
1.98	1.93	1.89	1.84	1.80	1.78	1.75	1.74	1.72	1.69	1.66
2.41	2.34	2.27	2.19	2.14	2.11	2.06	2.04	2.02	1.97	1.92
2.87	2.77	2.67	2.56	2.49	2.11	2.38	2.35	2.32	2.26	2.20
3.51	3.37	3.23	3.08	2.49	2.92	2.84	2.78	2.75	2.66	2.58
5.39	5.13	4.87	4.59	4.42	4.30	4.15	4.06	4.00	3.84	3.69
1.96	1.91	1.86	1.81	1.78	1.76	1.73	1.71	1.70	1.67	1.64
2.38	2.31	2.23	2.16	2.11	2.07	2.03	2.00	1.98	1.93	1.88
2.82	2.72	2.62	2.51	2.44	2.39	2.33	2.30	2.27	2.20	2.14
3.43	3.30	3.15	3.00	2.91	2.84	2.76	2.71	2.67	2.58	2.50
5.22	4.97	4.70	4.43	4.26	4.14	3.99	3.90	3.84	3.68	3.53
1.94	1.89	1.84	1.79	1.76	1.74	1.71	1.69	1.68	1.64	1.61
2.35	2.28	2.20	2.12	2.07	2.04	1.99	1.97	1.95	1.90	1.85
2.77	2.68	2.57	2.46	2.40	2.35	2.29	2.25	2.22	2.16	2.09
3.37	3.23	3.09	2.94	2.84	2.78	2.69	2.64	2.61	2.52	2.43
5.08	4.82	4.56	4.29	4.12	4.00	3.86	3.77	3.70	3.54	3.40
1.92	1.87	1.83	1.78	1.74	1.72	1.69	1.67	1.66	1.62	1.59
2.32	2.25	2.18	2.10	2.05	2.01	1.96	1.94	1.92	1.87	1.82
2.73	2.64	2.53	2.42	2.36	2.31	2.25	2.21	2.18	2.11	2.05
3.31	3.17	3.03	2.88	2.79	2.72	2.64	2.58	2.55	2.46	2.37
4.95	4.70	4.44	4.17	4.00	3.88	3.74	3.64	3.58	3.42	3.28
1.90	1.86	1.81	1.76	1.73	1.70	1.67	1.65	1.64	1.60	1.57
2.30	2.23	2.15	2.07	2.02	1.98	1.94	1.91	1.89	1.84	1.79
2.70	2.60	2.50	2.39	2.32	2.27	2.21	2.17	2.14	2.08	2.01
3.26	3.12	2.98	2.83	2.73	2.67	2.58	2.53	2.50	2.40	2.32
4.83	4.58	4.33	4.06	3.89	3.78	3.63	3.54	3.48	3.32	3.17
1.89	1.84	1.80	1.74	1.71	1.69	1.66	1.64	1.62	1.59	1.55
2.27	2.20	2.13	2.05	2.00	1.96	1.91	1.88	1.86	1.81	1.76
2.67	2.57	2.47	2.36	2.29	2.24	2.18	2.14	2.11	2.04	1.98
3.21	3.07	2.93	2.78	2.69	2.62	2.54	2.48	2.45	2.35	2.27
4.73	4.48	4.23	3.96	3.79	3.68	3.53	3.44	3.38	3.22	3.08
1.88	1.83	1.78	1.73	1.70	1.67	1.64	1.62	1.61	1.57	1.54
2.25	2.18	2.11	2.03	1.97	1.94	1.89	1.86	1.84	1.79	1.74
2.64	2.54	2.44	2.33	2.26	2.21	2.15	2.11	2.08	2.01	1.94
3.17	3.03	2.89	2.74	2.64	2.58	2.49	2.44	2.40	2.31	2.22
4.64	4.39	4.14	3.87	3.71	3.59	3.45	3.36	3.29	3.14	2.99
1.87	1.82	1.77	1.72	1.68	1.66	1.63	1.61	1.59	1.56	1.52
2.24	2.16	2.09	2.01	1.96	1.92	1.87	1.84	1.82	1.77	1.72
2.61	2.51	2.41	2.30	2.23	2.18	2.12	2.08	2.05	1.98	1.91
3.13	2.99	2.85	2.70	2.60	2.54	2.45	2.40	2.36	2.27	2.18
4.56	4.31	4.06	3.79	3.63	3.52	3.37	3.28	3.22	3.06	2.91
1.86	1.81	1.76	1.71	1.67	1.65	1.61	1.59	1.58	1.54	1.51
2.22	2.15	2.07	1.99	1.94	1.90	1.85	1.82	1.80	1.75	1.70
2.59	2.49	2.39	2.28	2.21	2.16	2.09	2.05	2.03	1.95	1.89
3.09	2.96	2.81	2.66	2.57	2.50	2.42	2.36	2.33	2.23	2.14
4.48	4.24	3.99	3.72	3.56	3.44	3.30	3.21	3.15	2.99	2.84
1.85	1.80	1.75	1.70	1.66	1.64	1.60	1.58	1.57	1.53	1.50
2.20	2.13	2.06	1.97	1.92	1.88	1.84	1.81	1.79	1.73	1.68
2.57	2.47	2.36	2.25	2.18	2.13	2.07	2.03	2.00	1.93	1.86
3.06	2.93	2.78	2.63	2.54	2.47	2.38	2.33	2.29	2.20	2.11
	4.17	3.92	3.66	3.49	3.38	3.23	3.14	3.08	2.92	2.78

(Continued)

					De	egrees of fre	edom in th	e numerato	r		
		p	1	2	3	4	5	6	7	8	9
		.100	2.89	2.50	2.29	2.16	2.06	2.00	1.94	1.90	1.87
		.050	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	2.24
	28	.025	5.61	4.22	3.63	3.29	3.06	2.90	2.78	2.69	2.61
		.010	7.64	5.45	4.57	4.07	3.75	3.53	3.36	3.23	3.12
		.001	13.50	8.93	7.19	6.25	5.66	5.24	4.93	4.69	4.50
		.100	2.89	2.50 3.33	2.28 2.93	2.15 2.70	2.06	1.99	1.93	1.89	1.86
		.050	4.18	3.33			2.55	2.43	2.35	2.28	2.22
	29	.025	5.59	4.20	3.61	3.27	3.04	2.88	2.76	2.67	2.59
		.010	7.60	5.42	4.54	4.04	3.73	3.50	3.33	3.20	3.09
		.001	13.39	8.85	7.12	6.19	5.59	5.18	4.87	4.64	4.45
		.100	2.88	2.49	2.28	2.14	2.05	1.98	1.93	1.88	1.85
		.050	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.21
	30	.025	5.57	4.18	3.59	3.25	3.03	2.87	2.75	2.65	2.57
		.010	7.56	5.39	4.51	4.02	3.70	3.47	3.30	3.17	3.07
		.001	13.29	8.77	7.05	6.12	5.53	5.12	4.82	4.58	4.39
		.100	2.84	2.44	2.23	2.09	2.00	1.93	1.87	1.83	1.79
		.050	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12
ii	40	.025	5.42	4.05	3.46	3.13	2.90	2.74	2.62	2.53	2.45
ɓ		.010	7.31	5.18	4.31	3.83	3.51	3.29	3.12	2.99	2.89
nin		.001	12.61	8.25	6.59	5.70	5.13	4.73	4.44	4.21	4.02
nor		.100	2.81	2.41	2.20	2.06	1.97	1.90	1.84	1.80	1.76
de		.050	4.03	3.18	2.79	2.56	2.40	2.29	2.20	2.13	2.07
Je	50	.025	5.34	3.97	3.39	3.05	2.83	2.67	2.55	2.46	2.38
T.		.010	7.17	5.06	4.20	3.72	3.41	3.19	3.02	2.89	2.78
.E B		.001	12.22	7.96	6.34	5.46	4.90	4.51	4.22	4.00	3.82
opa		.100	2.79	2.39	2.18	2.04	1.95	1.87	1.82	1.77	1.74
je,		.050	4.00	3.15	2.76	2.53	2.37	2.25	2.17	2.10	2.04
je	60	.025	5.29	3.93	3.34	3.01	2.79	2.63	2.51	2.41	2.33
SS		.010	7.08	4.98	4.13	3.65	3.34	3.12	2.95	2.82	2.72
Degrees of freedom in the denominator		.001	11.97	7.77	6.17	5.31	4.76	4.37	4.09	3.86	3.69
De		.100	2.76	2.36	2.14	2.00	1.91	1.83	1.78	1.73	1.69
	100	.050	3.94	3.09	2.70	2.46	2.31	2.19	2.10	2.03	1.97
	100	.025	5.18	3.83	3.25	2.92	2.70	2.54	2.42	2.32	2.24
		.010	6.90	4.82	3.98	3.51	3.21	2.99	2.82	2.69	2.59
		.001	11.50	7.41	5.86	5.02	4.48	4.11	3.83	3.61	3.44
		.100	2.73	2.33	2.11	1.97	1.88	1.80	1.75	1.70	1.66
	200	.050	3.89	3.04	2.65	2.42	2.26	2.14	2.06	1.98	1.93
	200	.025	5.10	3.76	3.18	2.85	2.63	2.47	2.35	2.26	2.18
		.010	6.76	4.71	3.88	3.41	3.11	2.89	2.73	2.60	2.50
		.001	11.15	7.15	5.63	4.81	4.29	3.92	3.65	3.43	3.26
		.100	2.71	2.31	2.09	1.95	1.85	1.78	1.72	1.68	1.64
	4000	.050	3.85	3.00	2.61	2.38	2.22	2.11	2.02	1.95	1.89
	1000	.025	5.04	3.70	3.13	2.80	2.58	2.42	2.30	2.20	2.13
		.010 .001	6.66 10.89	4.63 6.96	3.80 5.46	3.34 4.65	3.04 4.14	2.82 3.78	2.66 3.51	2.53 3.30	2.43 3.13

TABLE										
F critica	al values	(continued)								
				Degrees of f	reedom in th	ne numerato	r			
10	12	15	20	25	30	40	50	60	120	1000
1.84	1.79	1.74	1.69	1.65	1.63	1.59	1.57	1.56	1.52	1.48
2.19	2.12	2.04	1.96	1.91	1.87	1.82	1.79	1.77	1.71	1.66
2.55	2.45	2.34	2.23	2.16	2.11	2.05	2.01	1.98	1.91	1.84
3.03	2.90	2.75	2.60	2.51	2.44	2.35	2.30	2.26	2.17	2.08
4.35	4.11	3.86	3.60	3.43	3.32	3.18	3.09	3.02	2.86	2.72
1.83	1.78	1.73	1.68	1.64	1.62	1.58	1.56	1.55	1.51	1.47
2.18	2.10	2.03	1.94	1.89	1.85	1.81	1.77	1.75	1.70	1.65
2.53	2.43	2.32	2.21	2.14	2.09	2.03	1.99	1.96	1.89	1.82
3.00	2.87	2.73	2.57	2.48	2.41	2.33	2.27	2.23	2.14	2.05
4.29	4.05	3.80	3.54	3.38	3.27	3.12	3.03	2.97	2.81	2.66
1.82	1.77	1.72	1.67	1.63	1.61	1.57	1.55	1.54	1.50	1.46
2.16	2.09	2.01	1.93	1.88	1.84	1.79	1.76	1.74	1.68	1.63
2.51	2.41	2.31	2.20	2.12	2.07	2.01	1.97	1.94	1.87	1.80
2.98	2.84	2.70	2.55	2.45	2.39	2.30	2.25	2.21	2.11	2.02
4.24	4.00	3.75	3.49	3.33	3.22	3.07	2.98	2.92	2.76	2.61
1.76	1.71	1.66	1.61	1.57	1.54	1.51	1.48	1.47	1.42	1.38
2.08	2.00	1.92	1.84	1.78	1.74	1.69	1.66	1.64	1.58	1.52
2.39	2.29	2.18	2.07	1.99	1.94	1.88	1.83	1.80	1.72	1.65
2.80	2.66	2.52	2.37	2.27	2.20	2.11	2.06	2.02	1.92	1.82
3.87	3.64	3.40	3.14	2.98	2.87	2.73	2.64	2.57	2.41	2.25
1.73	1.68	1.63	1.57	1.53	1.50	1.46	1.44	1.42	1.38	1.33
2.03	1.95	1.87	1.78	1.73	1.69	1.63	1.60	1.58	1.51	1.45
2.32	2.22	2.11	1.99	1.92	1.87	1.80	1.75	1.72	1.64	1.56
2.70	2.56	2.42	2.27	2.17	2.10	2.01	1.95	1.91	1.80	1.70
3.67	3.44	3.20	2.95	2.79	2.68	2.53	2.44	2.38	2.21	2.05
1.71	1.66	1.60	1.54	1.50	1.48	1.44	1.41	1.40	1.35	1.30
1.99	1.92	1.84	1.75	1.69	1.65	1.59	1.56	1.53	1.47	1.40
2.27	2.17	2.06	1.94	1.87	1.82	1.74	1.70	1.67	1.58	1.49
2.63	2.50	2.35	2.20	2.10	2.03	1.94	1.88	1.84	1.73	1.62
3.54	3.32	3.08	2.83	2.67	2.55	2.41	2.32	2.25	2.08	1.92
1.66	1.61	1.56	1.49	1.45	1.42	1.38	1.35	1.34	1.28	1.22
1.93	1.85	1.77	1.68	1.62	1.57	1.52	1.48	1.45	1.38	1.30
2.18	2.08	1.97	1.85	1.77	1.71	1.64	1.59	1.56	1.46	1.36
2.50	2.37	2.22	2.07	1.97	1.89	1.80	1.74	1.69	1.57	1.45
3.30	3.07	2.84	2.59	2.43	2.32	2.17	2.08	2.01	1.83	1.64
1.63	1.58	1.52	1.46	1.41	1.38	1.34	1.31	1.29	1.23	1.16
1.88	1.80	1.72	1.62	1.56	1.52	1.46	1.41	1.39	1.30	1.21
2.11	2.01	1.90	1.78	1.70	1.64	1.56	1.51	1.47	1.37	1.25
2.41	2.27	2.13	1.97	1.87	1.79	1.69	1.63	1.58	1.45	1.30
3.12	2.90	2.67	2.42	2.26	2.15	2.00	1.90	1.83	1.64	1.43
1.61	1.55	1.49	1.43	1.38	1.35	1.30	1.27	1.25	1.18	1.08
1.84	1.76	1.68	1.58	1.52	1.47	1.41	1.36	1.33	1.24	1.11
2.06	1.96	1.85	1.72	1.64	1.58	1.50	1.45	1.41	1.29	1.13
2.34	2.20	2.06	1.90	1.79	1.72	1.61	1.54	1.50	1.35	1.16
2.99	2.77	2.54	2.30	2.14	2.02	1.87	1.77	1.69	1.49	1.22