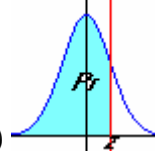


Appendix A Statistical Tables

Appendix A

Statistical Tables

Table A1	The Normal Distribution (Pr. < z) (The Cumulative Standard Normal Distribution)
Table A2	Critical Values of the t-Distribution (Two-Tailed)
Table A3	Critical Values of the t-Distribution (One-Tailed)
Table A4	Upper Percentage Points of the χ^2 Distribution
Table A5	Critical Values for Correlation Coefficient, r
Table A6	Critical Values of the F-Distribution, $\alpha = 0.05$
Table A7	Critical Values of the F-Distribution, $\alpha = 0.10$
Table A8	Fisher Z Correlation Conversion

Table A1. *The Normal Distribution ($Pr < z$)*

z	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
-3.6	0.000 1591 46	0.0001 531	0.00014 734	0.00014 175	0.00013 635	0.00013 115	0.00012 614	0.00012 131	0.00011 665	0.00011 216
-3.5	0.000 2326 73	0.0002 241	0.00021 582	0.00020 782	0.00020 01	0.00019 266	0.00018 547	0.00017 853	0.00017 184	0.00016 538
-3.4	0.000 3369 81	0.0003 249	0.00031 316	0.00030 184	0.00029 091	0.00028 034	0.00027 013	0.00026 028	0.00025 075	0.00024 156
-3.3	0.000 4834 83	0.0004 665	0.00045 014	0.00043 429	0.00041 895	0.00040 411	0.00038 977	0.00037 589	0.00036 248	0.00034 952
-3.2	0.000 6872 02	0.0006 637	0.00064 102	0.00061 901	0.00059 771	0.00057 709	0.00055 712	0.00053 78	0.00051 91	0.00050 1
-3.1	0.000 9676 71	0.0009 355	0.00090 432	0.00087 41	0.00084 481	0.00081 642	0.00078 891	0.00076 226	0.00073 644	0.00071 143
-3	0.001 3499 67	0.0013 063	0.00126 394	0.00122 284	0.00118 296	0.00114 428	0.00110 675	0.00107 036	0.00103 507	0.00100 085
-2.9	0.001 8658 8	0.0018 072	0.00175 022	0.00169 488	0.00164 113	0.00158 894	0.00153 826	0.00148 907	0.00144 131	0.00139 496
-2.8	0.002 5551 91	0.0024 771	0.00240 124	0.00232 746	0.00225 574	0.00218 603	0.00211 827	0.00205 242	0.00198 844	0.00192 628
-2.7	0.003 4670 23	0.0033 642	0.00326 415	0.00316 677	0.00307 201	0.00297 982	0.00289 012	0.00280 287	0.00271 8	0.00263 546
-2.6	0.004 6612 22	0.0045 271	0.00439 653	0.00426 928	0.00414 534	0.00402 463	0.00390 708	0.00379 261	0.00368 115	0.00357 265
-2.5	0.006 2096 8	0.0060 366	0.00586 776	0.00570 315	0.00554 265	0.00538 617	0.00523 363	0.00508 495	0.00494 005	0.00479 883
-2.4	0.008 1975 29	0.0079 763	0.00776 025	0.00754 941	0.00734 363	0.00714 281	0.00694 686	0.00675 566	0.00656 913	0.00638 717
-2.3	0.010 7240 81	0.0104 441	0.01017 041	0.00990 305	0.00964 185	0.00938 669	0.00913 745	0.00889 403	0.00865 631	0.00842 418
-2.2	0.013 9033 99	0.0135 525	0.01320 934	0.01287 368	0.01254 542	0.01222 443	0.01191 059	0.01160 376	0.01130 381	0.01101 063

Table A1. *The Normal Distribution (Pr. < z) cont.*

z	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
-2.1	0.017 8643 57	0.0174 291	0.01700 296	0.01658 575	0.01617 733	0.01577 755	0.01538 628	0.01500 337	0.01462 868	0.01426 207
-2	0.022 7500 62	0.0222 155	0.02169 162	0.02117 82	0.02067 509	0.02018 215	0.01969 92	0.01922 611	0.01876 27	0.01830 884
-1.9	0.028 7164 93	0.0280 665	0.02742 888	0.02680 335	0.02618 978	0.02558 799	0.02499 783	0.02441 912	0.02385 169	0.02329 54
-1.8	0.035 9302 66	0.0351 478	0.03437 945	0.03362 491	0.03288 406	0.03215 671	0.03144 27	0.03074 184	0.03005 397	0.02937 891
-1.7	0.044 5654 32	0.0436 329	0.04271 618	0.04181 51	0.04092 947	0.04005 911	0.03920 386	0.03836 352	0.03753 793	0.03672 69
-1.6	0.054 7992 89	0.0536 989	0.05261 613	0.05155 074	0.05050 257	0.04947 145	0.04845 721	0.04745 966	0.04647 863	0.04551 395
-1.5	0.066 8072 29	0.0655 217	0.06425 551	0.06300 838	0.06178 019	0.06057 077	0.05937 995	0.05820 756	0.05705 344	0.05591 74
-1.4	0.080 7567 11	0.0792 699	0.07780 389	0.07635 856	0.07493 374	0.07352 93	0.07214 508	0.07078 091	0.06943 666	0.06811 215
-1.3	0.096 8005 49	0.0950 98	0.09341 757	0.09175 92	0.09012 273	0.08850 805	0.08691 502	0.08534 351	0.08379 338	0.08226 449
-1.2	0.115 0697 32	0.1131 395	0.11123 25	0.10934 862	0.10748 776	0.10564 984	0.10383 475	0.10204 238	0.10027 263	0.09852 539
-1.1	0.135 6661 02	0.1334 996	0.13135 693	0.12923 816	0.12714 32	0.12507 199	0.12302 446	0.12100 054	0.11900 017	0.11702 326
-1	0.158 6552 6	0.1562 477	0.15386 424	0.15150 502	0.14916 997	0.14685 908	0.14457 233	0.14230 969	0.14007 112	0.13785 661
-0.9	0.184 0600 92	0.1814 112	0.17878 635	0.17618 552	0.17360 876	0.17105 611	0.16852 76	0.16602 324	0.16354 306	0.16108 706
-0.8	0.211 8553 34	0.2089 7	0.20610 799	0.20326 933	0.20045 414	0.19766 249	0.19489 447	0.19215 016	0.18942 961	0.18673 291
-0.7	0.241 9635 78	0.2388 52	0.23576 242	0.23269 502	0.22964 992	0.22662 728	0.22362 722	0.22064 988	0.21769 537	0.21476 382
-0.6	0.274 2530 65	0.2709 308	0.26762 883	0.26434 723	0.26108 623	0.25784 604	0.25462 685	0.25142 882	0.24825 216	0.24509 702
-0.5	0.308 5375 33	0.3050 257	0.30153 177	0.29805 594	0.29459 849	0.29115 966	0.28773 968	0.28433 881	0.28095 726	0.27759 528
-0.4	0.344 5783 03	0.3409 03	0.33724 276	0.33359 785	0.32996 858	0.32635 524	0.32275 813	0.31917 752	0.31561 37	0.31206 695
-0.3	0.382 0886 43	0.3782 805	0.37448 423	0.37070 005	0.36692 833	0.36316 941	0.35942 363	0.35569 13	0.35197 276	0.34826 832
-0.2	0.420 7403 13	0.4168 339	0.41293 561	0.40904 593	0.40516 518	0.40129 373	0.39743 194	0.39358 019	0.38973 881	0.38590 818
-0.1	0.460 1721 04	0.4562 046	0.45224 153	0.44828 318	0.44432 997	0.44038 229	0.43644 053	0.43250 507	0.42857 629	0.42465 458

Table A1. *The Normal Distribution (Pr. < z) cont.*

z	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0	0.5	0.5039 894	0.50797 835	0.51196 653	0.51595 35	0.51993 887	0.52392 225	0.52790 324	0.53188 144	0.53585 646
0.1	0.539 8278 96	0.5437 954	0.54775 847	0.55171 682	0.55567 003	0.55961 771	0.56355 947	0.56749 493	0.57142 371	0.57534 542
0.2	0.579 2596 87	0.5831 661	0.58706 439	0.59095 407	0.59483 482	0.59870 627	0.60256 806	0.60641 981	0.61026 119	0.61409 182
0.3	0.617 9113 57	0.6217 195	0.62551 577	0.62929 995	0.63307 167	0.63683 059	0.64057 637	0.64430 87	0.64802 724	0.65173 168
0.4	0.655 4216 97	0.6590 97	0.66275 724	0.66640 215	0.67003 142	0.67364 476	0.67724 187	0.68082 248	0.68438 63	0.68793 305
0.5	0.691 4624 67	0.6949 743	0.69846 823	0.70194 406	0.70540 151	0.70884 034	0.71226 032	0.71566 119	0.71904 274	0.72240 472
0.6	0.725 7469 35	0.7290 692	0.73237 117	0.73565 277	0.73891 377	0.74215 396	0.74537 315	0.74857 118	0.75174 784	0.75490 298
0.7	0.758 0364 22	0.7611 48	0.76423 758	0.76730 498	0.77035 008	0.77337 272	0.77637 278	0.77935 012	0.78230 463	0.78523 618
0.8	0.788 1446 66	0.7910 3	0.79389 201	0.79673 067	0.79954 586	0.80233 751	0.80510 553	0.80784 984	0.81057 039	0.81326 709
0.9	0.815 9399 08	0.8185 888	0.82121 365	0.82381 448	0.82639 124	0.82894 389	0.83147 24	0.83397 676	0.83645 694	0.83891 294
1	0.841 3447 4	0.8437 523	0.84613 576	0.84849 498	0.85083 003	0.85314 092	0.85542 767	0.85769 031	0.85992 888	0.86214 339
1.1	0.864 3338 98	0.8665 004	0.86864 307	0.87076 184	0.87285 68	0.87492 801	0.87697 554	0.87899 946	0.88099 983	0.88297 674
1.2	0.884 9302 68	0.8868 605	0.88876 75	0.89065 138	0.89251 224	0.89435 016	0.89616 525	0.89795 762	0.89972 737	0.90147 461
1.3	0.903 1994 51	0.9049 02	0.90658 243	0.90824 08	0.90987 727	0.91149 195	0.91308 498	0.91465 649	0.91620 662	0.91773 551
1.4	0.919 2432 89	0.9207 301	0.92219 611	0.92364 144	0.92506 626	0.92647 07	0.92785 492	0.92921 909	0.93056 334	0.93188 785
1.5	0.933 1927 71	0.9344 783	0.93574 449	0.93699 162	0.93821 981	0.93942 923	0.94062 005	0.94179 244	0.94294 656	0.94408 26
1.6	0.945 2007 11	0.9463 011	0.94738 387	0.94844 926	0.94949 743	0.95052 855	0.95154 279	0.95254 034	0.95352 137	0.95448 605
1.7	0.955 4345 68	0.9563 671	0.95728 382	0.95818 49	0.95907 053	0.95994 089	0.96079 614	0.96163 648	0.96246 207	0.96327 31
1.8	0.964 0697 34	0.9648 522	0.96562 055	0.96637 509	0.96711 594	0.96784 329	0.96855 73	0.96925 816	0.96994 603	0.97062 109

Table A1. *The Normal Distribution (Pr. < z) cont.*

z	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
1.9	0.971 2835 07	0.9719 335	0.97257 112	0.97319 665	0.97381 022	0.97441 201	0.97500 217	0.97558 088	0.97614 831	0.97670 46
2	0.977 2499 38	0.9777 845	0.97830 838	0.97882 18	0.97932 491	0.97981 785	0.98030 08	0.98077 389	0.98123 73	0.98169 116
2.1	0.982 1356 43	0.9825 709	0.98299 704	0.98341 425	0.98382 267	0.98422 245	0.98461 372	0.98499 663	0.98537 132	0.98573 793
2.2	0.986 0966 01	0.9864 475	0.98679 066	0.98712 632	0.98745 458	0.98777 557	0.98808 941	0.98839 624	0.98869 619	0.98898 937
2.3	0.989 2759 19	0.9895 559	0.98982 959	0.99009 695	0.99035 815	0.99061 331	0.99086 255	0.99110 597	0.99134 369	0.99157 582
2.4	0.991 8024 71	0.9920 237	0.99223 975	0.99245 059	0.99265 637	0.99285 719	0.99305 314	0.99324 434	0.99343 087	0.99361 283
2.5	0.993 7903 2	0.9939 634	0.99413 224	0.99429 685	0.99445 735	0.99461 383	0.99476 637	0.99491 505	0.99505 995	0.99520 117
2.6	0.995 3387 78	0.9954 729	0.99560 347	0.99573 072	0.99585 466	0.99597 537	0.99609 292	0.99620 739	0.99631 885	0.99642 735
2.7	0.996 5329 77	0.9966 358	0.99673 585	0.99683 323	0.99692 799	0.99702 018	0.99710 988	0.99719 713	0.99728 2	0.99736 454
2.8	0.997 4448 09	0.9975 229	0.99759 876	0.99767 254	0.99774 426	0.99781 397	0.99788 173	0.99794 758	0.99801 156	0.99807 372
2.9	0.998 1341 2	0.9981 928	0.99824 978	0.99830 512	0.99835 887	0.99841 106	0.99846 174	0.99851 093	0.99855 869	0.99860 504
3	0.998 6500 33	0.9986 937	0.99873 606	0.99877 716	0.99881 704	0.99885 572	0.99889 325	0.99892 964	0.99896 493	0.99899 915
3.1	0.999 0323 29	0.9990 645	0.99909 568	0.99912 59	0.99915 519	0.99918 358	0.99921 109	0.99923 774	0.99926 356	0.99928 857
3.2	0.999 3127 98	0.9993 363	0.99935 898	0.99938 099	0.99940 229	0.99942 291	0.99944 288	0.99946 22	0.99948 09	0.99949 9
3.3	0.999 5165 17	0.9995 335	0.99954 986	0.99956 571	0.99958 105	0.99959 589	0.99961 023	0.99962 411	0.99963 752	0.99965 048
3.4	0.999 6630 19	0.9996 751	0.99968 684	0.99969 816	0.99970 909	0.99971 966	0.99972 987	0.99973 972	0.99974 925	0.99975 844
3.5	0.999 7673 27	0.9997 759	0.99978 418	0.99979 218	0.99979 99	0.99980 734	0.99981 453	0.99982 147	0.99982 816	0.99983 462
3.6	0.999 8408 54	0.9998 469	0.99985 266	0.99985 825	0.99986 365	0.99986 885	0.99987 386	0.99987 869	0.99988 335	0.99988 784
3.7	0.999 8921 7	0.9998 963	0.99990 036	0.99990 423	0.99990 796	0.99991 156	0.99991 502	0.99991 835	0.99992 156	0.99992 465
3.8	0.999 9276 28	0.9999 305	0.99993 325	0.99993 591	0.99993 846	0.99994 092	0.99994 329	0.99994 556	0.99994 775	0.99994 986

Note. Generated using the standard normal formula

Table A2. *Critical Values of the t-Distribution (Two-Tailed)*

<i>df</i>	a = 0.05	a = 0.01	
1	12.706	63.657	<i>Adapted from Sockloff, A., & Edney, J. (1972). Some extension of Student's t and Pearson's r central distributions, Technical Report (May 1972). Measurement and Research, Temple University, Philadelphia.</i>
2	4.303	9.925	
3	3.183	5.841	
4	2.777	4.604	
5	2.571	4.032	
6	2.447	3.707	
7	2.365	3.500	
8	2.306	3.355	
9	2.262	3.250	
10	2.228	3.169	
11	2.201	3.106	
12	2.179	3.055	
13	2.160	3.012	
14	2.145	2.977	
15	2.132	2.947	
16	2.120	2.921	
17	2.110	2.898	
18	2.101	2.879	
19	2.093	2.861	
20	2.086	2.845	
21	2.080	2.831	
22	2.074	2.819	
23	2.069	2.807	
24	2.064	2.797	
25	2.060	2.787	
26	2.056	2.779	
27	2.052	2.771	
28	2.048	2.763	
29	2.045	2.756	
30	2.042	2.750	
40	2.021	2.705	
50	2.009	2.678	
60	2.000	2.660	
70	1.994	2.648	
80	1.990	2.639	
90	1.987	2.632	
100	1.984	2.626	
∞	1.960	2.576	

Table A3. *Critical Values of the t-Distribution (One-Tailed)*

df	Significance Levels, α									
	0.4	0.25	0.1	0.05	0.025	0.01	0.005	0.0025	0.001	0.0005
1	0.325	1.000	3.078	6.314	12.706	31.821	63.656	127.321	318.289	636.578
2	0.289	0.816	1.886	2.920	4.303	6.965	9.925	14.089	22.328	31.600
3	0.277	0.765	1.638	2.353	3.182	4.541	5.841	7.453	10.214	12.924
4	0.271	0.741	1.533	2.132	2.776	3.747	4.604	5.598	7.173	8.610
5	0.267	0.727	1.476	2.015	2.571	3.365	4.032	4.773	5.894	6.869
6	0.265	0.718	1.440	1.943	2.447	3.143	3.707	4.317	5.208	5.959
7	0.263	0.711	1.415	1.895	2.365	2.998	3.499	4.029	4.785	5.408
8	0.262	0.706	1.397	1.860	2.306	2.896	3.355	3.833	4.501	5.041
9	0.261	0.703	1.383	1.833	2.262	2.821	3.250	3.690	4.297	4.781
10	0.260	0.700	1.372	1.812	2.228	2.764	3.169	3.581	4.144	4.587
11	0.260	0.697	1.363	1.796	2.201	2.718	3.106	3.497	4.025	4.437
12	0.259	0.695	1.356	1.782	2.179	2.681	3.055	3.428	3.930	4.318
13	0.259	0.694	1.350	1.771	2.160	2.650	3.012	3.372	3.852	4.221
14	0.258	0.692	1.345	1.761	2.145	2.624	2.977	3.326	3.787	4.140
15	0.258	0.691	1.341	1.753	2.131	2.602	2.947	3.286	3.733	4.073
16	0.258	0.690	1.337	1.746	2.120	2.583	2.921	3.252	3.686	4.015
17	0.257	0.689	1.333	1.740	2.110	2.567	2.898	3.222	3.646	3.965
18	0.257	0.688	1.330	1.734	2.101	2.552	2.878	3.197	3.610	3.922
19	0.257	0.688	1.328	1.729	2.093	2.539	2.861	3.174	3.579	3.883
20	0.257	0.687	1.325	1.725	2.086	2.528	2.845	3.153	3.552	3.850
21	0.257	0.686	1.323	1.721	2.080	2.518	2.831	3.135	3.527	3.819

Table A3. *Critical Values of the t-Distribution (One-Tailed) cont.*

df	0.4	0.25	0.1	0.05	0.025	0.01	0.005	0.0025	0.001	0.0005
22	0.256	0.686	1.321	1.717	2.074	2.508	2.819	3.119	3.505	3.792
23	0.256	0.685	1.319	1.714	2.069	2.500	2.807	3.104	3.485	3.768
24	0.256	0.685	1.318	1.711	2.064	2.492	2.797	3.091	3.467	3.745
25	0.256	0.684	1.316	1.708	2.060	2.485	2.787	3.078	3.450	3.725
26	0.256	0.684	1.315	1.706	2.056	2.479	2.779	3.067	3.435	3.707
27	0.256	0.684	1.314	1.703	2.052	2.473	2.771	3.057	3.421	3.689
29	0.256	0.683	1.311	1.699	2.045	2.462	2.756	3.038	3.396	3.660
29	0.256	0.683	1.311	1.699	2.045	2.462	2.756	3.038	3.396	3.660
30	0.256	0.683	1.310	1.697	2.042	2.457	2.750	3.030	3.385	3.646
40	0.255	0.681	1.303	1.684	2.021	2.423	2.704	2.971	3.307	3.551
50	0.255	0.679	1.299	1.676	2.009	2.403	2.678	2.937	3.261	3.496
60	0.254	0.679	1.296	1.671	2.000	2.390	2.660	2.915	3.232	3.460
70	0.254	0.678	1.294	1.667	1.994	2.381	2.648	2.899	3.211	3.435
80	0.254	0.678	1.292	1.664	1.990	2.374	2.639	2.887	3.195	3.416
90	0.254	0.677	1.291	1.662	1.987	2.368	2.632	2.878	3.183	3.402
100	0.254	0.677	1.290	1.660	1.984	2.364	2.626	2.871	3.174	3.390
110	0.254	0.677	1.289	1.659	1.982	2.361	2.621	2.865	3.166	3.381
120	0.254	0.677	1.289	1.658	1.980	2.358	2.617	2.860	3.160	3.373
8	0.253	0.674	1.282	1.645	1.960	2.326	2.576	2.807	3.090	3.290

Note. Generated using the t distribution (one-tailed) at given alpha levels

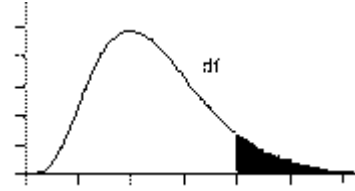


Table A4. Upper Percentage Points of the χ^2 Distribution

<i>df</i>	$\chi^2_{1-\alpha}$									
	0.005	0.01	0.03	0.05	0.1	0.9	0.95	0.97	0.99	0.995
1	0.000039	0.00016	0.00098	0.0039	0.0158	2.71	3.84	5.02	6.63	7.88
2	0.01	0.0201	0.0506	0.1026	0.2107	4.61	5.99	7.38	9.21	10.6
3	0.0717	0.115	0.216	0.352	0.584	6.25	7.81	9.35	11.34	12.84
4	0.207	0.297	0.484	0.711	1.064	7.78	9.49	11.14	13.28	14.86
5	0.412	0.554	0.831	1.15	1.61	9.24	11.07	12.83	15.09	16.75
6	0.676	0.872	1.24	1.64	2.2	10.64	12.59	14.45	16.81	18.55
7	0.989	1.24	1.69	2.17	2.83	12.02	14.07	16.01	18.48	20.28
8	1.34	1.65	2.18	2.73	3.49	13.36	15.51	17.53	20.09	21.96
9	1.73	2.09	2.7	3.33	4.17	14.68	16.92	19.02	21.67	23.59
10	2.16	2.56	3.25	3.94	4.87	15.99	18.31	20.48	23.21	25.19
11	2.6	3.05	3.82	4.57	5.58	17.28	19.68	21.92	24.73	26.76
12	3.07	3.57	4.4	5.23	6.3	18.55	21.03	23.34	26.22	28.3
13	3.57	4.11	5.01	5.89	7.04	19.81	22.36	24.74	27.69	29.82
14	4.07	4.66	5.63	6.57	7.79	21.06	23.68	26.12	29.14	31.32
15	4.6	5.23	6.26	7.26	8.55	22.31	25	27.49	30.58	32.8
16	5.14	5.81	6.91	7.96	9.31	23.54	26.3	28.85	32	34.27
18	6.26	7.01	8.23	9.39	10.86	25.99	28.87	31.53	34.81	37.16
20	7.43	8.26	9.59	10.85	12.44	28.41	31.41	34.17	37.57	40
24	9.89	10.86	12.4	13.85	15.66	33.2	36.42	39.36	42.98	45.56
30	13.79	14.95	16.79	18.49	20.6	40.26	43.77	46.98	50.89	53.67
40	20.71	22.16	24.43	26.51	29.05	51.81	55.76	59.34	63.69	66.77
60	35.53	37.48	40.48	43.19	46.46	74.4	79.08	83.3	88.38	91.95
120	83.85	86.92	91.58	95.7	100.62	140.23	146.57	152.21	158.95	163.64

Note. Generated using the Chi-square distribution at various (1 – α) levels.

Table A5. *Critical Values for Correlation Coefficient, r*

Level of Significance (p) for a Two-Tailed Test				
<i>df</i> (n-2):	0.1	0.05	0.02	0.01
1	0.988	0.997	0.9995	0.9999
2	0.9	0.95	0.98	0.99
3	0.805	0.878	0.934	0.959
4	0.729	0.811	0.882	0.917
5	0.669	0.754	0.833	0.874
6	0.622	0.707	0.789	0.834
7	0.582	0.666	0.75	0.798
8	0.549	0.632	0.716	0.765
9	0.521	0.602	0.685	0.735
10	0.497	0.576	0.658	0.708
11	0.476	0.553	0.634	0.684
12	0.458	0.532	0.612	0.661
13	0.441	0.514	0.592	0.641
14	0.426	0.497	0.574	0.623
15	0.412	0.482	0.558	0.606
16	0.4	0.468	0.542	0.59
17	0.389	0.456	0.528	0.575
18	0.378	0.444	0.516	0.561
19	0.369	0.433	0.503	0.549
20	0.36	0.423	0.492	0.537
21	0.352	0.413	0.482	0.526
22	0.344	0.404	0.472	0.515
23	0.337	0.396	0.462	0.505
24	0.33	0.388	0.453	0.496
25	0.323	0.381	0.445	0.487
26	0.317	0.374	0.437	0.479
27	0.311	0.367	0.43	0.471
28	0.306	0.361	0.423	0.463
29	0.301	0.355	0.416	0.456
30	0.296	0.349	0.409	0.449
35	0.275	0.325	0.381	0.418
40	0.257	0.304	0.358	0.393
45	0.243	0.288	0.338	0.372
50	0.231	0.273	0.322	0.354
60	0.211	0.25	0.295	0.325
70	0.195	0.232	0.274	0.303
80	0.183	0.217	0.256	0.283
90	0.173	0.205	0.242	0.267
100	0.164	0.195	0.23	0.254

Table A6. Critical Values of the F-Distribution, $\alpha = 0.05$

$\alpha = 0.05$										
	$df1$									
$df2$	1	2	3	4	5	6	7	8	9	10
1	161.4462	199.4995	215.7067	224.5833	230.1604	233.9875	236.7669	238.8842	240.5432	241.8819
2	18.51276	19.00003	19.16419	19.24673	19.29629	19.32949	19.35314	19.37087	19.38474	19.39588
3	10.12796	9.552082	9.276619	9.117173	9.013434	8.940674	8.88673	8.845234	8.812322	8.785491
4	7.70865	6.944276	6.591392	6.388234	6.256073	6.163134	6.094211	6.041034	5.9988	5.964353
5	6.607877	5.786148	5.409447	5.192163	5.050339	4.950294	4.875858	4.818332	4.77246	4.735057
6	5.987374	5.143249	4.757055	4.533689	4.387374	4.283862	4.206669	4.146813	4.099007	4.059956
7	5.59146	4.737416	4.34683	4.120309	3.971522	3.865978	3.787051	3.725717	3.676675	3.636529
8	5.317645	4.458968	4.06618	3.837854	3.687504	3.580581	3.50046	3.438103	3.388124	3.347168
9	5.117357	4.256492	3.862539	3.63309	3.481659	3.373756	3.29274	3.229587	3.178897	3.137274
10	4.964591	4.102816	3.708266	3.47805	3.325837	3.217181	3.135469	3.071662	3.020382	2.97824
11	4.844338	3.982308	3.587431	3.356689	3.20388	3.094613	3.012332	2.947985	2.896222	2.853625
12	4.747221	3.88529	3.4903	3.25916	3.105875	2.996117	2.913353	2.848566	2.796376	2.753389
13	4.667186	3.805567	3.410534	3.179117	3.025434	2.915272	2.832095	2.76691	2.714359	2.671023
14	4.600111	3.73889	3.343885	3.112248	2.958245	2.847727	2.764196	2.69867	2.645791	2.602157
15	4.543068	3.682317	3.287383	3.055568	2.901295	2.790465	2.706628	2.640796	2.587626	2.543715
16	4.493998	3.633716	3.238867	3.006917	2.85241	2.741309	2.657195	2.591094	2.537668	2.493515
17	4.451323	3.591538	3.196774	2.964711	2.809998	2.698656	2.6143	2.547957	2.494289	2.449916
18	4.413863	3.554561	3.159911	2.927749	2.77285	2.661302	2.576719	2.510156	2.456282	2.411703
19	4.380752	3.52189	3.127354	2.895106	2.740059	2.628319	2.543537	2.476767	2.422702	2.377931
20	4.35125	3.492829	3.098393	2.866081	2.710891	2.598981	2.514014	2.447067	2.392817	2.347875
21	4.324789	3.466795	3.072472	2.840096	2.684779	2.572712	2.487582	2.420464	2.36605	2.320952
22	4.300944	3.443361	3.049124	2.816705	2.661274	2.549058	2.463771	2.396504	2.341935	2.296694
23	4.279343	3.42213	3.027999	2.795538	2.64	2.527656	2.442228	2.374811	2.320107	2.274724
24	4.259675	3.402832	3.008786	2.776289	2.620652	2.508187	2.422631	2.35508	2.300244	2.254737
25	4.241699	3.385196	2.991243	2.758711	2.602988	2.49041	2.404725	2.33706	2.2821	2.236476
26	4.2252	3.36901	2.975156	2.742595	2.586788	2.47411	2.388312	2.320526	2.265452	2.219718
27	4.210008	3.354131	2.960348	2.727766	2.571888	2.45911	2.373206	2.305313	2.250133	2.204295
28	4.195982	3.340389	2.946685	2.714074	2.558124	2.445262	2.359258	2.291266	2.235979	2.190042
30	4.170886	3.315833	2.922278	2.689632	2.533554	2.420521	2.334346	2.266162	2.210697	2.16458
40	4.08474	3.231733	2.838746	2.605972	2.449468	2.335852	2.249024	2.180172	2.124029	2.07725
50	4.03432	3.182606	2.79001	2.557179	2.400412	2.286434	2.199201	2.129923	2.073349	2.026141
60	4.001194	3.150411	2.758078	2.525212	2.368267	2.254055	2.166541	2.096968	2.040096	1.992593
120	3.920121	3.071776	2.680167	2.447237	2.289852	2.175007	2.086772	2.016428	1.958764	1.910461
100,000	3.841549	2.995819	2.604999	2.372019	2.214186	2.098687	2.009685	1.938506	1.879979	1.830799

Table A6. *Critical Values of the F-Distribution, $\alpha = 0.05$ cont.*

$\alpha = 0.05$										
df_2	df_1									
	11	12	13	14	15	16	17	18	19	20
1	242.9806	243.9047	244.6905	245.3635	245.9492	246.4658	246.9169	247.3244	247.6881	248.0156
2	19.40498	19.41248	19.41885	19.42431	19.42908	19.43317	19.43704	19.44022	19.44318	19.44568
3	8.763323	8.744678	8.728648	8.714892	8.702841	8.692268	8.682889	8.674533	8.666973	8.660209
4	5.935817	5.911716	5.891138	5.873346	5.8578	5.844129	5.831964	5.821107	5.811359	5.802548
5	4.703963	4.677702	4.65522	4.63578	4.618755	4.603777	4.590447	4.578538	4.567823	4.558132
6	4.027441	3.999929	3.976368	3.955932	3.938055	3.922281	3.908269	3.895707	3.884409	3.874192
7	3.603034	3.574684	3.55034	3.529237	3.510735	3.494407	3.479869	3.466866	3.455142	3.444526
8	3.312948	3.283944	3.259018	3.237375	3.218403	3.201635	3.186699	3.173312	3.161247	3.150319
9	3.102485	3.072941	3.047546	3.025477	3.006107	2.988969	2.973692	2.960007	2.947651	2.93646
10	2.942954	2.912977	2.887177	2.864724	2.845013	2.827562	2.812008	2.798046	2.785441	2.774016
11	2.817927	2.787573	2.761418	2.738645	2.718636	2.700915	2.685098	2.670902	2.658084	2.646445
12	2.717329	2.686633	2.66018	2.637123	2.616851	2.598881	2.582837	2.568427	2.55541	2.543587
13	2.63465	2.603663	2.576925	2.55362	2.533113	2.514923	2.498673	2.484072	2.47087	2.458883
14	2.5655	2.534243	2.507264	2.483723	2.463004	2.444615	2.42818	2.413401	2.400036	2.387893
15	2.506809	2.475311	2.448111	2.424365	2.403446	2.384873	2.368267	2.353332	2.339817	2.327532
16	2.456368	2.424663	2.397258	2.373319	2.352223	2.333486	2.316725	2.30164	2.287983	2.27557
17	2.412563	2.380652	2.353062	2.328953	2.307694	2.2888	2.271893	2.25667	2.242892	2.230355
18	2.374158	2.34207	2.314302	2.290029	2.268621	2.249585	2.232547	2.217199	2.203297	2.190646
19	2.340208	2.307956	2.280032	2.255611	2.23406	2.214897	2.19773	2.182261	2.16825	2.155495
20	2.309989	2.277581	2.249514	2.224958	2.203272	2.183981	2.166701	2.151125	2.137007	2.124153
21	2.282917	2.25036	2.222158	2.197474	2.175668	2.156263	2.138872	2.123194	2.10898	2.096034
22	2.258517	2.225832	2.197503	2.172698	2.150777	2.131266	2.113772	2.097995	2.083688	2.070657
23	2.236419	2.203606	2.17516	2.150241	2.128218	2.1086	2.091014	2.075147	2.060752	2.047639
24	2.216311	2.183377	2.15482	2.129795	2.107676	2.087965	2.070284	2.054328	2.039858	2.026663
25	2.197929	2.164889	2.136229	2.111108	2.088889	2.069086	2.051323	2.035289	2.020741	2.007472
26	2.181068	2.147928	2.119165	2.093948	2.071644	2.051756	2.033914	2.017799	2.003176	1.989839
27	2.165542	2.132303	2.103448	2.078146	2.055756	2.03579	2.01787	2.001684	1.986994	1.973589
28	2.151197	2.117872	2.088932	2.06354	2.04107	2.021032	2.003038	1.986784	1.972026	1.958561
30	2.12556	2.092065	2.062961	2.037421	2.014804	1.994621	1.976495	1.960117	1.945235	1.931653
40	2.037581	2.003461	1.973756	1.947633	1.924462	1.90375	1.885113	1.868241	1.852893	1.83886
50	1.986056	1.951527	1.921428	1.894925	1.871385	1.850314	1.831335	1.814133	1.798465	1.784123
60	1.952213	1.917396	1.887017	1.860244	1.836437	1.815113	1.795886	1.778446	1.762547	1.747985
120	1.869289	1.833694	1.802555	1.775032	1.750497	1.728463	1.708543	1.690431	1.673879	1.65868
100,000	1.788745	1.752269	1.720254	1.69187	1.666486	1.643615	1.622873	1.603954	1.586606	1.570626

Table A6. *Critical Values of the F-Distribution, $\alpha = 0.05$ cont.*

<i>a = 0.05</i>		<i>df1</i>									
<i>df2</i>	21	22	23	24	25	30	40	60	120	10000	
1	248.3066	248.5795	248.8232	249.0524	249.2598	250.0965	251.1442	252.1956	253.2543	254.302	
2	19.44818	19.45023	19.45227	19.45409	19.45568	19.4625	19.47069	19.4791	19.48729	19.4957	
3	8.654013	8.648385	8.643269	8.638494	8.634117	8.616553	8.594384	8.571988	8.549364	8.52674	
4	5.794533	5.787228	5.780521	5.774382	5.768698	5.745875	5.716998	5.687752	5.658109	5.628436	
5	4.549321	4.541278	4.533916	4.527152	4.520899	4.495718	4.4638	4.431371	4.398458	4.365404	
6	3.864898	3.8564	3.848612	3.84145	3.834842	3.808168	3.774289	3.7398	3.70467	3.6693	
7	3.434863	3.426038	3.417952	3.410491	3.403613	3.375803	3.340432	3.304322	3.267445	3.230213	
8	3.140372	3.131277	3.122935	3.11524	3.108134	3.079407	3.042778	3.005297	2.966928	2.928054	
9	2.926257	2.916934	2.908365	2.900478	2.893174	2.863658	2.825928	2.787246	2.747527	2.707168	
10	2.763599	2.754071	2.745317	2.737252	2.729784	2.699551	2.660855	2.621078	2.580123	2.538393	
11	2.635836	2.626123	2.617199	2.608971	2.601361	2.570488	2.530903	2.490125	2.448026	2.405002	
12	2.532808	2.522931	2.513858	2.50548	2.497728	2.46628	2.425878	2.384169	2.340997	2.296744	
13	2.447941	2.437922	2.428699	2.420194	2.412321	2.380332	2.339178	2.296595	2.252413	2.206995	
14	2.376815	2.366654	2.357304	2.348678	2.340691	2.308205	2.266347	2.222947	2.177813	2.131273	
15	2.31632	2.306031	2.296566	2.287827	2.279727	2.246786	2.204274	2.160107	2.114056	2.066439	
16	2.26423	2.253827	2.244249	2.235403	2.22721	2.193843	2.150713	2.105814	2.058897	2.010239	
17	2.218897	2.208388	2.198711	2.189765	2.18148	2.147708	2.103999	2.05841	2.010662	1.961006	
18	2.179085	2.168473	2.1587	2.149662	2.141292	2.107143	2.062883	2.016641	1.9681	1.917474	
19	2.143835	2.133127	2.123265	2.114142	2.105686	2.071186	2.026411	1.979544	1.930239	1.878671	
20	2.112401	2.101601	2.091653	2.082452	2.073918	2.039087	1.993818	1.946358	1.896318	1.843837	
21	2.084189	2.073307	2.063281	2.054005	2.045397	2.010246	1.964516	1.916487	1.86574	1.812374	
22	2.058727	2.04777	2.037666	2.028319	2.019647	1.984194	1.93802	1.889447	1.838018	1.783789	
23	2.035634	2.024599	2.014424	2.005009	1.99627	1.960537	1.913939	1.864844	1.812761	1.757691	
24	2.014584	2.003482	1.993239	1.983757	1.974961	1.938957	1.891955	1.842359	1.789644	1.733756	
25	1.995321	1.984152	1.973845	1.964306	1.955449	1.919187	1.8718	1.821725	1.768395	1.711708	
26	1.977625	1.966391	1.956025	1.946429	1.937515	1.901011	1.853255	1.802718	1.748795	1.69133	
27	1.961311	1.950017	1.939593	1.929941	1.920974	1.884235	1.836128	1.78515	1.730651	1.672422	
28	1.946223	1.934872	1.924391	1.914685	1.905669	1.86871	1.820265	1.768857	1.713801	1.654826	
30	1.919204	1.907743	1.897163	1.887361	1.878249	1.840871	1.79179	1.739572	1.683453	1.623036	
40	1.825978	1.814104	1.803123	1.792937	1.783459	1.744432	1.692797	1.637252	1.576609	1.50977	
50	1.770946	1.758789	1.747534	1.737078	1.727344	1.687157	1.633682	1.575653	1.511472	1.43921	
60	1.734591	1.722224	1.710767	1.700116	1.690191	1.649141	1.594273	1.534314	1.467267	1.390303	
120	1.644668	1.631697	1.619656	1.608438	1.597957	1.554342	1.495202	1.429013	1.351887	1.255252	
100,000	1.555847	1.542126	1.529346	1.517403	1.50621	1.459213	1.394086	1.318171	1.221569	1.024554	

Table A7. Critical Values of the F-Distribution, $\alpha = 0.10$

$\alpha = 0.10$		df_1										
df_2	1	2	3	4	5	6	7	8	9	10	df_2	
1	39.86361	49.50016	53.59334	55.83297	57.23996	58.20448	58.90615	59.43912	59.85748	60.19491	1	
2	8.526342	9.000019	9.161795	9.243422	9.292648	9.325504	9.349094	9.366772	9.380528	9.391556	2	
3	5.538311	5.462397	5.390774	5.342656	5.309147	5.284733	5.266202	5.251678	5.239997	5.230419	3	
4	4.544773	4.324562	4.190866	4.10725	4.050577	4.009749	3.978968	3.954938	3.935668	3.91988	4	
5	4.060411	3.779718	3.619476	3.520199	3.452982	3.404509	3.367902	3.339281	3.316281	3.297401	5	
6	3.775952	3.463299	3.288761	3.180759	3.107516	3.054552	3.014456	2.983036	2.957741	2.936936	6	
7	3.589435	3.257441	3.074071	2.960533	2.883347	2.827392	2.78493	2.751577	2.724676	2.702514	7	
8	3.457913	3.113115	2.923798	2.806424	2.726445	2.668337	2.624134	2.589349	2.561237	2.538037	8	
9	3.360299	3.006448	2.812861	2.69268	2.610612	2.550856	2.505313	2.469406	2.440338	2.416314	9	
10	3.28501	2.924466	2.727674	2.60534	2.521638	2.460581	2.413962	2.377149	2.347306	2.322604	10	
11	3.225196	2.859508	2.660229	2.53619	2.451184	2.389065	2.341565	2.303999	2.273502	2.248228	11	
12	3.176552	2.806793	2.605525	2.4801	2.394025	2.331024	2.282782	2.244576	2.213525	2.187765	12	
13	3.136208	2.763166	2.56027	2.433708	2.346724	2.282981	2.234103	2.19535	2.163819	2.137636	13	
14	3.102215	2.726466	2.522221	2.394692	2.30694	2.242558	2.193133	2.153904	2.121954	2.095398	14	
15	3.073183	2.695174	2.489788	2.361432	2.273023	2.208083	2.158178	2.118529	2.08621	2.05932	15	
16	3.048115	2.668173	2.46181	2.332747	2.243759	2.178329	2.128004	2.087983	2.05533	2.028145	16	
17	3.02623	2.64464	2.437432	2.307747	2.21825	2.15239	2.101689	2.061334	2.02839	2.000938	17	
18	3.006974	2.623949	2.416005	2.285773	2.195826	2.129582	2.078544	2.03789	2.004676	1.976979	18	
19	2.9899	2.60561	2.397023	2.266304	2.175955	2.109363	2.05802	2.017096	1.98364	1.955726	19	
20	2.974652	2.589253	2.380087	2.248935	2.158227	2.091323	2.039702	1.998533	1.964853	1.936737	20	
21	2.960959	2.574566	2.364885	2.233342	2.142311	2.075122	2.023253	1.98186	1.947974	1.919673	21	
22	2.948582	2.561315	2.351172	2.219274	2.127944	2.060496	2.008395	1.966797	1.932726	1.904255	22	
23	2.937355	2.549292	2.338727	2.206512	2.114909	2.047226	1.994916	1.953126	1.918881	1.890253	23	
24	2.927116	2.538329	2.32739	2.194881	2.103032	2.035133	1.982624	1.940659	1.906255	1.877481	24	
25	2.917744	2.528303	2.317016	2.184244	2.092165	2.024063	1.971376	1.929244	1.894694	1.865782	25	
26	2.909132	2.519094	2.307491	2.174467	2.082182	2.013891	1.961041	1.918757	1.884068	1.855028	26	
27	2.901189	2.51061	2.298712	2.165464	2.07298	2.004519	1.951509	1.909086	1.874266	1.845109	27	
28	2.893842	2.502759	2.290598	2.157137	2.064475	1.995851	1.942695	1.90014	1.8652	1.835929	28	
30	2.880697	2.488719	2.276071	2.142237	2.049248	1.980332	1.926917	1.884121	1.848958	1.819487	30	
40	2.83535	2.440366	2.226091	2.09095	1.99682	1.926878	1.872522	1.828862	1.792902	1.762686	40	
50	2.808662	2.411955	2.196728	2.060816	1.966001	1.89543	1.840498	1.796298	1.759837	1.729148	50	
60	2.791069	2.393257	2.177408	2.040984	1.945711	1.874721	1.819394	1.774829	1.73802	1.707008	60	
120	2.747811	2.347338	2.12999	1.992301	1.895874	1.82381	1.767475	1.721959	1.684249	1.65238	120	
100,000	2.70559	2.302638	2.083851	1.944915	1.847329	1.774165	1.71678	1.670257	1.63158	1.598782	100,000	

Table A7. Critical Values of the F-Distribution, $\alpha = 0.10$ cont.

$\alpha = 0.10$		$df1$									
$df2$	11	12	13	14	15	16	17	18	19	20	$df2$
1	60.47276	60.70513	60.90249	61.07257	61.22036	61.34997	61.46456	61.56642	61.65783	61.74014	1
2	9.400594	9.408154	9.414521	9.419978	9.424696	9.428845	9.43254	9.43578	9.438679	9.441294	2
3	5.222404	5.215611	5.209785	5.20474	5.20032	5.196398	5.192931	5.189818	5.187019	5.184489	3
4	3.906692	3.895522	3.885944	3.877631	3.870355	3.863931	3.858219	3.853103	3.848498	3.844335	4
5	3.281627	3.268241	3.256744	3.246761	3.238014	3.230284	3.223398	3.217238	3.211682	3.206651	5
6	2.919521	2.90472	2.891994	2.880931	2.871218	2.862635	2.854989	2.848125	2.841944	2.836337	6
7	2.683926	2.668109	2.654495	2.642643	2.632227	2.623011	2.614797	2.607422	2.600764	2.594732	7
8	2.518554	2.501956	2.487646	2.475176	2.464215	2.454499	2.44583	2.438046	2.431015	2.424635	8
9	2.396114	2.378883	2.364011	2.35104	2.339625	2.3295	2.320455	2.312333	2.30499	2.298322	9
10	2.30181	2.284054	2.268706	2.255312	2.243514	2.233044	2.223683	2.215266	2.207656	2.200743	10
11	2.22693	2.208726	2.19298	2.17922	2.167091	2.15632	2.146685	2.138016	2.130175	2.123045	11
12	2.166033	2.147438	2.13134	2.117268	2.104851	2.093813	2.083937	2.075048	2.066997	2.059679	12
13	2.11552	2.096588	2.080185	2.065832	2.053159	2.04189	2.031797	2.022706	2.014474	2.006981	13
14	2.072952	2.053714	2.037037	2.022432	2.009536	1.998053	1.987768	1.978499	1.970101	1.962452	14
15	2.036575	2.017071	2.000149	1.98532	1.972214	1.960547	1.950085	1.940652	1.932101	1.924313	15
16	2.005134	1.985388	1.968242	1.953211	1.93992	1.928079	1.91746	1.907878	1.899188	1.891273	16
17	1.977682	1.957716	1.940371	1.925155	1.911694	1.899696	1.888928	1.879211	1.870397	1.862361	17
18	1.953509	1.933341	1.915812	1.900428	1.886811	1.874668	1.863764	1.853923	1.844992	1.836845	18
19	1.932051	1.911701	1.894005	1.878465	1.864706	1.852428	1.841403	1.831445	1.822404	1.814154	19
20	1.912881	1.892364	1.874511	1.85883	1.844935	1.832534	1.821395	1.811328	1.802185	1.793843	20
21	1.89565	1.874973	1.85698	1.841165	1.827146	1.814632	1.803384	1.793218	1.783981	1.77555	21
22	1.880073	1.859256	1.841126	1.825189	1.811056	1.798433	1.787086	1.776826	1.767503	1.758988	22
23	1.865924	1.844974	1.826724	1.810669	1.79643	1.783707	1.772268	1.761919	1.752511	1.743921	23
24	1.853017	1.831943	1.813575	1.797416	1.783075	1.77026	1.758732	1.748301	1.738815	1.730152	24
25	1.841194	1.820002	1.801528	1.785267	1.770834	1.757931	1.746319	1.735811	1.726253	1.71752	25
26	1.830323	1.809024	1.790447	1.774092	1.75957	1.746585	1.734897	1.724315	1.714689	1.705889	26
27	1.820293	1.798892	1.780222	1.763777	1.749171	1.736108	1.724345	1.713696	1.704004	1.695145	27
28	1.811014	1.789513	1.770754	1.754227	1.739544	1.726406	1.714573	1.703858	1.694104	1.685187	28
30	1.79438	1.772705	1.753779	1.737099	1.722272	1.708997	1.697039	1.686203	1.676336	1.66731	30
40	1.736886	1.714563	1.69503	1.677776	1.662411	1.648628	1.636186	1.624894	1.614591	1.605152	40
50	1.702908	1.680167	1.660242	1.642615	1.626896	1.612776	1.600016	1.588418	1.577824	1.568107	50
60	1.68046	1.65743	1.637227	1.619338	1.603368	1.589012	1.576021	1.564207	1.553405	1.543485	60
120	1.625015	1.601205	1.580258	1.561656	1.545002	1.529987	1.516367	1.503943	1.492555	1.482071	120
100,000	1.57052	1.545844	1.524061	1.504651	1.487211	1.471435	1.457073	1.443929	1.43184	1.420673	100,000

Table A7. Critical Values of the F-Distribution, $\alpha = 0.10$ cont.

$\alpha = 0.10$		$df1$										
$df2$	21	22	23	24	25	30	40	60	120	10000	$df2$	
1	61.81472	61.88293	61.94477	62.00207	62.05482	62.26492	62.52912	62.79424	63.06072	63.32493	1	
2	9.443681	9.445841	9.447831	9.449593	9.451298	9.457949	9.466248	9.474547	9.482903	9.491146	2	
3	5.182187	5.18007	5.178151	5.176361	5.174726	5.168118	5.15972	5.151179	5.14251	5.133813	3	
4	3.840555	3.837087	3.833918	3.830991	3.828305	3.817419	3.803621	3.789566	3.77527	3.760903	4	
5	3.202075	3.19789	3.194053	3.190522	3.18726	3.17408	3.157325	3.140229	3.122793	3.105214	5	
6	2.831236	2.826575	2.82229	2.818346	2.814701	2.799958	2.781171	2.761951	2.74229	2.722409	6	
7	2.589232	2.584201	2.579583	2.575327	2.57139	2.55546	2.535096	2.51422	2.49279	2.471054	7	
8	2.418822	2.413501	2.408605	2.404096	2.399922	2.383018	2.361361	2.3391	2.316181	2.292854	8	
9	2.292239	2.286672	2.281553	2.276828	2.272458	2.254719	2.231957	2.208495	2.184272	2.159531	9	
10	2.194433	2.188653	2.183334	2.178425	2.173884	2.155424	2.131692	2.107161	2.081766	2.055742	10	
11	2.116536	2.110568	2.105075	2.100006	2.095309	2.076213	2.05161	2.02612	1.999652	1.972445	11	
12	2.052989	2.046857	2.041208	2.035993	2.031161	2.011493	1.986102	1.959734	1.932278	1.903967	12	
13	2.000135	1.99385	1.988063	1.982716	1.97776	1.957574	1.931465	1.904287	1.875915	1.846562	13	
14	1.95546	1.949044	1.943128	1.937664	1.932595	1.911932	1.885162	1.857234	1.828001	1.797662	14	
15	1.91719	1.910649	1.90462	1.899043	1.893874	1.872774	1.845393	1.816764	1.78672	1.755442	15	
16	1.884029	1.877371	1.871236	1.865562	1.860295	1.838792	1.810841	1.781556	1.750747	1.718572	16	
17	1.855003	1.848246	1.842011	1.836241	1.830887	1.80901	1.780528	1.750626	1.719091	1.686054	17	
18	1.829385	1.822528	1.816204	1.810349	1.804914	1.782684	1.753705	1.723222	1.690992	1.657131	18	
19	1.806601	1.799652	1.793243	1.787306	1.781796	1.75924	1.729793	1.698758	1.665869	1.631211	19	
20	1.786198	1.779167	1.772676	1.766667	1.761084	1.738222	1.708333	1.676776	1.643256	1.607827	20	
21	1.767823	1.760714	1.754149	1.748067	1.742418	1.719268	1.688962	1.656908	1.622782	1.586608	21	
22	1.751182	1.743999	1.737364	1.731218	1.725505	1.702084	1.671381	1.638853	1.604148	1.567251	22	
23	1.736041	1.72879	1.722087	1.715879	1.710106	1.686427	1.655351	1.622372	1.587107	1.549511	23	
24	1.722203	1.714884	1.708123	1.701855	1.696026	1.672104	1.640672	1.60726	1.571458	1.533181	24	
25	1.709507	1.702126	1.695305	1.688981	1.683102	1.658947	1.627177	1.593349	1.557032	1.518092	25	
26	1.697813	1.690376	1.6835	1.677122	1.671191	1.646818	1.614724	1.580501	1.543683	1.5041	26	
27	1.68701	1.679517	1.672587	1.666161	1.660181	1.6356	1.603198	1.568594	1.531294	1.491081	27	
28	1.676998	1.66945	1.662471	1.655996	1.649973	1.625192	1.592495	1.557527	1.519759	1.478933	28	
30	1.659018	1.651372	1.644301	1.637737	1.63163	1.606479	1.573229	1.537568	1.498911	1.456904	30	
40	1.596467	1.588447	1.581016	1.574112	1.567674	1.541077	1.505625	1.467157	1.424757	1.377527	40	
50	1.559156	1.550882	1.543206	1.536065	1.529404	1.501798	1.464779	1.424239	1.37894	1.327343	50	
60	1.534342	1.525883	1.51803	1.510719	1.503892	1.47554	1.437343	1.3952	1.347568	1.292209	60	
120	1.472383	1.463395	1.455032	1.447226	1.43992	1.409379	1.367602	1.32034	1.264572	1.193596	120	
100,000	1.410317	1.40068	1.391681	1.383254	1.375342	1.34195	1.295215	1.240052	1.168734	1.01908	100,000	

Table A8. Fisher Z Correlation Conversion

<i>r</i>	Fisher's Z, <i>z'</i>	<i>r</i>	Fisher's Z, <i>z'</i>	<i>r</i>	Fisher's Z, <i>z'</i>
0.0000	0.0000	0.4800	0.5230	0.9500	1.8318
0.0100	0.0100	0.4900	0.5361	0.9600	1.9459
0.0200	0.0200	0.5000	0.5493	0.9700	2.0923
0.0300	0.0300	0.5100	0.5627	0.9800	2.2976
0.0400	0.0400	0.5200	0.5763	0.9900	2.6467
0.0500	0.0500	0.5300	0.5901		
0.0600	0.0601	0.5400	0.6042		
0.0700	0.0701	0.5500	0.6184		
0.0800	0.0802	0.5600	0.6328		
0.0900	0.0902	0.5700	0.6475		
0.1000	0.1003	0.5800	0.6625		
0.1100	0.1104	0.5900	0.6777		
0.1200	0.1206	0.6000	0.6931		
0.1300	0.1307	0.6100	0.7089		
0.1400	0.1409	0.6200	0.7250		
0.1500	0.1511	0.6300	0.7414		
0.1600	0.1614	0.6400	0.7582		
0.1700	0.1717	0.6500	0.7753		
0.1800	0.1820	0.6600	0.7928		
0.1900	0.1923	0.6700	0.8107		
0.2000	0.2027	0.6800	0.8291		
0.2100	0.2132	0.6900	0.8480		
0.2200	0.2237	0.7000	0.8673		
0.2300	0.2342	0.7100	0.8872		
0.2400	0.2448	0.7200	0.9076		
0.2500	0.2554	0.7300	0.9287		
0.2600	0.2661	0.7400	0.9505		
0.2700	0.2769	0.7500	0.9730		
0.2800	0.2877	0.7600	0.9962		
0.2900	0.2986	0.7700	1.0203		
0.3000	0.3095	0.7800	1.0454		
0.3100	0.3205	0.7900	1.0714		
0.3200	0.3316	0.8000	1.0986		
0.3300	0.3428	0.8100	1.1270		
0.3400	0.3541	0.8200	1.1568		
0.3500	0.3654	0.8300	1.1881		
0.3600	0.3769	0.8400	1.2212		
0.3700	0.3884	0.8500	1.2562		
0.3800	0.4001	0.8600	1.2933		
0.3900	0.4118	0.8700	1.3331		
0.4000	0.4236	0.8800	1.3758		
0.4100	0.4356	0.8900	1.4219		
0.4200	0.4477	0.9000	1.4722		
0.4300	0.4599	0.9100	1.5275		
0.4400	0.4722	0.9200	1.5890		
0.4500	0.4847	0.9300	1.6584		
0.4600	0.4973	0.9400	1.7380		
0.4700	0.5101				