

C. STATISTICAL TABLES



Table C.1. Standard normal cumulative distribution function, Φ.

z	$\Phi(z)$	z	$\Phi(z)$	z	$\Phi(z)$	z	$\Phi(z)$
-4.00	3.2E-5	-2.52	0.0059	-2.02	0.0217	-1.52	0.0643
-3.50	2.3E-4	-2.51	0.0060	-2.01	0.0222	-1.51	0.0655
-3.00	0.0013	-2.50	0.0062	-2.00	0.0228	-1.50	0.0668
-2.99	0.0014	-2.49	0.0064	-1.99	0.0233	-1.49	0.0681
-2.98	0.0014	-2.48	0.0066	-1.98	0.0239	-1.48	0.0694
-2.97	0.0015	-2.47	0.0068	-1.97	0.0244	-1.47	0.0708
-2.96	0.0015	-2.46	0.0069	-1.96	0.0250	-1.46	0.0721
-2.95	0.0016	-2.45	0.0071	-1.95	0.0256	-1.45	0.0735
-2.94	0.0016	-2.44	0.0073	-1.94	0.0262	-1.44	0.0749
-2.93	0.0017	-2.43	0.0075	-1.93	0.0268	-1.43	0.0764
-2.92	0.0018	-2.42	0.0078	-1.92	0.0274	-1.42	0.0778
-2.91	0.0018	-2.41	0.0080	-1.91	0.0281	-1.41	0.0793
-2.90	0.0019	-2.40	0.0082	-1.90	0.0287	-1.40	0.0808
-2.89	0.0019	-2.39	0.0084	-1.89	0.0294	-1.39	0.0823
-2.88	0.0020	-2.38	0.0087	-1.88	0.0301	-1.38	0.0838
-2.87	0.0021	-2.37	0.0089	-1.87	0.0307	-1.37	0.0853
-2.86	0.0021	-2.36	0.0091	-1.86	0.0314	-1.36	0.0869
-2.85	0.0022	-2.35	0.0094	-1.85	0.0322	-1.35	0.0885
-2.84	0.0023	-2.34	0.0096	-1.84	0.0329	-1.34	0.0901
-2.83	0.0023	-2.33	0.0099	-1.83	0.0336	-1.33	0.0918
-2.82	0.0024	-2.32	0.0102	-1.82	0.0344	-1.32	0.0934
-2.81	0.0025	-2.31	0.0104	-1.81	0.0351	-1.31	0.0951
-2.80	0.0026	-2.30	0.0107	-1.80	0.0359	-1.30	0.0968
-2.79	0.0026	-2.29	0.0110	-1.79	0.0367	-1.29	0.0985
-2.78	0.0027	-2.28	0.0113	-1.78	0.0375	-1.28	0.1003
-2.77	0.0028	-2.27	0.0116	-1.77	0.0384	-1.27	0.1020
-2.76	0.0029	-2.26	0.0119	-1.76	0.0392	-1.26	0.1038
-2.75	0.0030	-2.25	0.0122	-1.75	0.0401	-1.25	0.1056
-2.74	0.0031	-2.24	0.0125	-1.74	0.0409	-1.24	0.1075
-2.73	0.0032	-2.23	0.0129	-1.73	0.0418	-1.23	0.1093
-2.72	0.0033	-2.22	0.0132	-1.72	0.0427	-1.22	0.1112
-2.71	0.0034	-2.21	0.0136	-1.71	0.0436	-1.21	0.1131
-2.70	0.0035	-2.20	0.0139	-1.70	0.0446	-1.20	0.1151
-2.69	0.0036	-2.19	0.0143	-1.69	0.0455	-1.19	0.1170
-2.68	0.0037	-2.18	0.0146	-1.68	0.0465	-1.18	0.1190
-2.67	0.0038	-2.17	0.0150	-1.67	0.0475	-1.17	0.1210
-2.66	0.0039	-2.16	0.0154	-1.66	0.0485	-1.16	0.1230
-2.65	0.0040	-2.15	0.0158	-1.65	0.0495	-1.15	0.1251
-2.64	0.0041	-2.14	0.0162	-1.64	0.0505	-1.14	0.1271
-2.63	0.0043	-2.13	0.0166	-1.63	0.0516	-1.13	0.1292
-2.62	0.0044	-2.12	0.0170	-1.62	0.0526	-1.12	0.1314
-2.61	0.0045	-2.11	0.0174	-1.61	0.0537	-1.11	0.1335
-2.60	0.0047	-2.10	0.0179	-1.60	0.0548	-1.10	0.1357
-2.59	0.0048	-2.09	0.0183	-1.59	0.0559	-1.09	0.1379
-2.58	0.0049	-2.08	0.0188	-1.58	0.0571	-1.08	0.1401
-2.57	0.0051	-2.07	0.0192	-1.57	0.0582	-1.07	0.1423
-2.56	0.0052	-2.06	0.0197	-1.56	0.0594	-1.06	0.1446
-2.55	0.0054	-2.05	0.0202	-1.55	0.0606	-1.05	0.1469
-2.54	0.0055	-2.04	0.0207	-1.54	0.0618	-1.04	0.1492
-2.53	0.0057	-2.03	0.0212	-1.53	0.0630	-1.03	0.1515

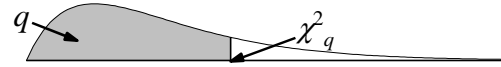
Table C.1 Standard normal cumulative distribution function, Φ (continued).

z	$\Phi(z)$	z	$\Phi(z)$	z	$\Phi(z)$	z	$\Phi(z)$
-1.02	0.1539	-0.51	0.3050	0.00	0.5000	0.51	0.6950
-1.01	0.1562	-0.50	0.3085	0.01	0.5040	0.52	0.6985
-1.00	0.1587	-0.49	0.3121	0.02	0.5080	0.53	0.7019
-0.99	0.1611	-0.48	0.3156	0.03	0.5120	0.54	0.7054
-0.98	0.1635	-0.47	0.3192	0.04	0.5160	0.55	0.7088
-0.97	0.1660	-0.46	0.3228	0.05	0.5199	0.56	0.7123
-0.96	0.1685	-0.45	0.3264	0.06	0.5239	0.57	0.7157
-0.95	0.1711	-0.44	0.3300	0.07	0.5279	0.58	0.7190
-0.94	0.1736	-0.43	0.3336	0.08	0.5319	0.59	0.7224
-0.93	0.1762	-0.42	0.3372	0.09	0.5359	0.60	0.7257
-0.92	0.1788	-0.41	0.3409	0.10	0.5398	0.61	0.7291
-0.91	0.1814	-0.40	0.3446	0.11	0.5438	0.62	0.7324
-0.90	0.1841	-0.39	0.3483	0.12	0.5478	0.63	0.7357
-0.89	0.1867	-0.38	0.3520	0.13	0.5517	0.64	0.7389
-0.88	0.1894	-0.37	0.3557	0.14	0.5557	0.65	0.7422
-0.87	0.1922	-0.36	0.3594	0.15	0.5596	0.66	0.7454
-0.86	0.1949	-0.35	0.3632	0.16	0.5636	0.67	0.7486
-0.85	0.1977	-0.34	0.3669	0.17	0.5675	0.68	0.7517
-0.84	0.2005	-0.33	0.3707	0.18	0.5714	0.69	0.7549
-0.83	0.2033	-0.32	0.3745	0.19	0.5753	0.70	0.7580
-0.82	0.2061	-0.31	0.3783	0.20	0.5793	0.71	0.7611
-0.81	0.2090	-0.30	0.3821	0.21	0.5832	0.72	0.7642
-0.80	0.2119	-0.29	0.3859	0.22	0.5871	0.73	0.7673
-0.79	0.2148	-0.28	0.3897	0.23	0.5910	0.74	0.7703
-0.78	0.2177	-0.27	0.3936	0.24	0.5948	0.75	0.7734
-0.77	0.2206	-0.26	0.3974	0.25	0.5987	0.76	0.7764
-0.76	0.2236	-0.25	0.4013	0.26	0.6026	0.77	0.7794
-0.75	0.2266	-0.24	0.4052	0.27	0.6064	0.78	0.7823
-0.74	0.2296	-0.23	0.4090	0.28	0.6103	0.79	0.7852
-0.73	0.2327	-0.22	0.4129	0.29	0.6141	0.80	0.7881
-0.72	0.2358	-0.21	0.4168	0.30	0.6179	0.81	0.7910
-0.71	0.2389	-0.20	0.4207	0.31	0.6217	0.82	0.7939
-0.70	0.2420	-0.19	0.4247	0.32	0.6255	0.83	0.7967
-0.69	0.2451	-0.18	0.4286	0.33	0.6293	0.84	0.7995
-0.68	0.2483	-0.17	0.4325	0.34	0.6331	0.85	0.8023
-0.67	0.2514	-0.16	0.4364	0.35	0.6368	0.86	0.8051
-0.66	0.2546	-0.15	0.4404	0.36	0.6406	0.87	0.8078
-0.65	0.2578	-0.14	0.4443	0.37	0.6443	0.88	0.8106
-0.64	0.2611	-0.13	0.4483	0.38	0.6480	0.89	0.8133
-0.63	0.2643	-0.12	0.4522	0.39	0.6517	0.90	0.8159
-0.62	0.2676	-0.11	0.4562	0.40	0.6554	0.91	0.8186
-0.61	0.2709	-0.10	0.4602	0.41	0.6591	0.92	0.8212
-0.60	0.2743	-0.09	0.4641	0.42	0.6628	0.93	0.8238
-0.59	0.2776	-0.08	0.4681	0.43	0.6664	0.94	0.8264
-0.58	0.2810	-0.07	0.4721	0.44	0.6700	0.95	0.8289
-0.57	0.2843	-0.06	0.4761	0.45	0.6736	0.96	0.8315
-0.56	0.2877	-0.05	0.4801	0.46	0.6772	0.97	0.8340
-0.55	0.2912	-0.04	0.4840	0.47	0.6808	0.98	0.8365
-0.54	0.2946	-0.03	0.4880	0.48	0.6844	0.99	0.8389
-0.53	0.2981	-0.02	0.4920	0.49	0.6879	1.00	0.8413
-0.52	0.3015	-0.01	0.4960	0.50	0.6915	1.01	0.8438

Table C.1 Standard normal cumulative distribution function, Φ (continued).

z	$\Phi(z)$	z	$\Phi(z)$	z	$\Phi(z)$	z	$\Phi(z)$
1.02	0.8461	1.52	0.9357	2.02	0.9783	2.52	0.9941
1.03	0.8485	1.53	0.9370	2.03	0.9788	2.53	0.9943
1.04	0.8508	1.54	0.9382	2.04	0.9793	2.54	0.9945
1.05	0.8531	1.55	0.9394	2.05	0.9798	2.55	0.9946
1.06	0.8554	1.56	0.9406	2.06	0.9803	2.56	0.9948
1.07	0.8577	1.57	0.9418	2.07	0.9808	2.57	0.9949
1.08	0.8599	1.58	0.9429	2.08	0.9812	2.58	0.9951
1.09	0.8621	1.59	0.9441	2.09	0.9817	2.59	0.9952
1.10	0.8643	1.60	0.9452	2.10	0.9821	2.60	0.9953
1.11	0.8665	1.61	0.9463	2.11	0.9826	2.61	0.9955
1.12	0.8686	1.62	0.9474	2.12	0.9830	2.62	0.9956
1.13	0.8708	1.63	0.9484	2.13	0.9834	2.63	0.9957
1.14	0.8729	1.64	0.9495	2.14	0.9838	2.64	0.9959
1.15	0.8749	1.65	0.9505	2.15	0.9842	2.65	0.9960
1.16	0.8770	1.66	0.9515	2.16	0.9846	2.66	0.9961
1.17	0.8790	1.67	0.9525	2.17	0.9850	2.67	0.9962
1.18	0.8810	1.68	0.9535	2.18	0.9854	2.68	0.9963
1.19	0.8830	1.69	0.9545	2.19	0.9857	2.69	0.9964
1.20	0.8849	1.70	0.9554	2.20	0.9861	2.70	0.9965
1.21	0.8869	1.71	0.9564	2.21	0.9864	2.71	0.9966
1.22	0.8888	1.72	0.9573	2.22	0.9868	2.72	0.9967
1.23	0.8907	1.73	0.9582	2.23	0.9871	2.73	0.9968
1.24	0.8925	1.74	0.9591	2.24	0.9875	2.74	0.9969
1.25	0.8944	1.75	0.9599	2.25	0.9878	2.75	0.9970
1.26	0.8962	1.76	0.9608	2.26	0.9881	2.76	0.9971
1.27	0.8980	1.77	0.9616	2.27	0.9884	2.77	0.9972
1.28	0.8997	1.78	0.9625	2.28	0.9887	2.78	0.9973
1.29	0.9015	1.79	0.9633	2.29	0.9890	2.79	0.9974
1.30	0.9032	1.80	0.9641	2.30	0.9893	2.80	0.9974
1.31	0.9049	1.81	0.9649	2.31	0.9896	2.81	0.9975
1.32	0.9066	1.82	0.9656	2.32	0.9898	2.82	0.9976
1.33	0.9082	1.83	0.9664	2.33	0.9901	2.83	0.9977
1.34	0.9099	1.84	0.9671	2.34	0.9904	2.84	0.9977
1.35	0.9115	1.85	0.9678	2.35	0.9906	2.85	0.9978
1.36	0.9131	1.86	0.9686	2.36	0.9909	2.86	0.9979
1.37	0.9147	1.87	0.9693	2.37	0.9911	2.87	0.9979
1.38	0.9162	1.88	0.9699	2.38	0.9913	2.88	0.9980
1.39	0.9177	1.89	0.9706	2.39	0.9916	2.89	0.9981
1.40	0.9192	1.90	0.9713	2.40	0.9918	2.90	0.9981
1.41	0.9207	1.91	0.9719	2.41	0.9920	2.91	0.9982
1.42	0.9222	1.92	0.9726	2.42	0.9922	2.92	0.9982
1.43	0.9236	1.93	0.9732	2.43	0.9925	2.93	0.9983
1.44	0.9251	1.94	0.9738	2.44	0.9927	2.94	0.9984
1.45	0.9265	1.95	0.9744	2.45	0.9929	2.95	0.9984
1.46	0.9279	1.96	0.9750	2.46	0.9931	2.96	0.9985
1.47	0.9292	1.97	0.9756	2.47	0.9932	2.97	0.9985
1.48	0.9306	1.98	0.9761	2.48	0.9934	2.98	0.9986
1.49	0.9319	1.99	0.9767	2.49	0.9936	2.99	0.9986
1.50	0.9332	2.00	0.9772	2.50	0.9938	3.00	0.9987
1.51	0.9345	2.01	0.9778	2.51	0.9940	3.50	0.99977
						4.00	0.999968

Table C.2. Percentiles of the chi-squared distribution.



Deg. of freedom	$\chi^2_{0.005}$	$\chi^2_{0.01}$	$\chi^2_{0.025}$	$\chi^2_{0.05}$	$\chi^2_{0.10}$	$\chi^2_{0.20}$	$\chi^2_{0.30}$	$\chi^2_{0.40}$
0.25	4.8E-19	1.2E-16	1.9E-13	4.8E-11	1.24E-8	3.17E-6	8.12E-5	8.11E-4
0.5	8.4E-10	1.35E-8	5.27E-7	8.44E-6	1.35E-4	2.16E-3	0.0110	0.0350
1	3.93E-5	1.57E-4	9.82E-4	3.93E-3	0.0158	0.0642	0.148	0.275
2	0.0100	0.0201	0.0506	0.103	0.211	0.446	0.713	1.022
3	0.0717	0.115	0.216	0.352	0.584	1.005	1.424	1.869
4	0.207	0.297	0.484	0.711	1.064	1.649	2.195	2.753
5	0.412	0.554	0.831	1.145	1.610	2.343	3.000	3.655
6	0.676	0.872	1.237	1.635	2.204	3.070	3.828	4.570
7	0.989	1.239	1.690	2.167	2.833	3.822	4.671	5.493
8	1.344	1.646	2.180	2.733	3.490	4.594	5.527	6.423
9	1.735	2.088	2.700	3.325	4.168	5.380	6.393	7.357
10	2.156	2.558	3.247	3.940	4.865	6.179	7.267	8.295
11	2.603	3.053	3.816	4.575	5.578	6.989	8.148	9.237
12	3.074	3.571	4.404	5.226	6.304	7.807	9.034	10.18
13	3.565	4.107	5.009	5.892	7.042	8.634	9.926	11.13
14	4.075	4.660	5.629	6.571	7.790	9.467	10.82	12.08
15	4.601	5.229	6.262	7.261	8.547	10.31	11.72	13.03
16	5.142	5.812	6.908	7.962	9.312	11.15	12.62	13.98
17	5.697	6.408	7.564	8.672	10.09	12.00	13.53	14.94
18	6.265	7.015	8.231	9.390	10.86	12.86	14.44	15.89
19	6.844	7.633	8.907	10.12	11.65	13.72	15.35	16.85
20	7.434	8.260	9.591	10.85	12.44	14.58	16.27	17.81
21	8.034	8.897	10.28	11.59	13.24	15.44	17.18	18.77
22	8.643	9.542	10.98	12.34	14.04	16.31	18.10	19.73
23	9.260	10.20	11.69	13.09	14.85	17.19	19.02	20.69
24	9.886	10.86	12.40	13.85	15.66	18.06	19.94	21.65
25	10.52	11.52	13.12	14.61	16.47	18.94	20.87	22.62
26	11.16	12.20	13.84	15.38	17.29	19.82	21.79	23.58
27	11.81	12.88	14.57	16.15	18.11	20.70	22.72	24.54
28	12.46	13.56	15.31	16.93	18.94	21.59	23.65	25.51
29	13.12	14.26	16.05	17.71	19.77	22.48	24.58	26.48
30	13.79	14.95	16.79	18.49	20.60	23.36	25.51	27.44
35	17.19	18.51	20.57	22.47	24.80	27.84	30.18	32.28
40	20.71	22.16	24.43	26.51	29.05	32.34	34.87	37.13
45	24.31	25.90	28.37	30.61	33.35	36.88	39.58	42.00
50	27.99	29.71	32.36	34.76	37.69	41.45	44.31	46.86
55	31.73	33.57	36.40	38.96	42.06	46.04	49.06	51.74
60	35.53	37.48	40.48	43.19	46.46	50.64	53.81	56.62
70	43.25	45.42	48.75	51.74	55.33	59.90	63.35	66.40
80	51.14	53.52	57.15	60.39	64.28	69.21	72.92	76.19
90	59.17	61.74	65.64	69.13	73.29	78.56	82.52	85.60
100	67.30	70.05	74.22	77.93	82.36	87.95	92.13	95.81
125	88.01	91.17	95.94	100.2	105.2	111.5	116.3	120.4
150	109.1	112.7	118.0	122.7	128.3	135.3	140.5	145.0

For large degrees of freedom d , use $\chi^2_p \approx (z_p + \sqrt{2d-1})^2 / 2$, where z_p is the corresponding percentile of a standard normal distribution.

Table C.2 Percentiles of the chi-squared distribution (continued).

$\chi^2_{0.50}$	$\chi^2_{0.60}$	$\chi^2_{0.70}$	$\chi^2_{0.80}$	$\chi^2_{0.90}$	$\chi^2_{0.95}$	$\chi^2_{0.975}$	$\chi^2_{0.99}$	$\chi^2_{0.995}$	Deg. of freedom
4.84E-3	0.0210	0.0737	0.229	0.716	1.419	2.269	3.543	4.585	0.25
0.0873	0.188	0.375	0.726	1.501	2.420	3.433	4.868	6.004	0.5
0.455	0.708	1.074	1.642	2.706	3.841	5.024	6.635	7.879	1
1.386	1.833	2.408	3.219	4.605	5.991	7.378	9.210	10.56	2
2.366	2.946	3.665	4.642	6.251	7.815	9.348	11.34	12.84	3
3.357	4.045	4.878	5.989	7.779	9.488	11.14	13.28	14.86	4
4.351	5.132	6.064	7.289	9.236	11.07	12.83	15.09	16.75	5
5.348	6.211	7.231	8.558	10.64	12.59	14.45	16.81	18.55	6
6.346	7.283	8.383	9.803	12.02	14.07	16.01	18.48	20.28	7
7.344	8.351	9.524	11.03	13.36	15.51	17.53	20.09	21.95	8
8.343	9.414	10.66	12.24	14.68	16.92	19.02	21.67	23.59	9
9.342	10.47	11.78	13.44	15.99	18.31	20.48	23.21	25.19	10
10.34	11.53	12.90	14.63	17.28	19.68	21.92	24.72	26.76	11
11.34	12.58	14.01	15.81	18.55	21.03	23.34	26.22	28.30	12
12.34	13.64	15.12	16.98	19.81	22.36	24.74	27.69	29.82	13
13.34	14.69	16.22	18.15	21.06	23.68	26.12	29.14	31.32	14
14.34	15.73	17.32	19.31	22.31	25.00	27.49	30.58	32.80	15
15.34	16.78	18.42	20.47	23.54	26.30	28.85	32.00	34.27	16
16.34	17.82	19.51	21.61	24.77	27.59	30.19	33.41	35.72	17
17.34	18.87	20.60	22.76	25.99	28.87	31.53	34.81	37.16	18
18.34	19.91	21.69	23.90	27.20	30.14	32.85	36.19	38.58	19
19.34	20.95	22.77	25.04	28.41	31.41	34.17	37.57	40.00	20
20.34	21.99	23.86	26.17	29.62	32.67	35.48	38.93	41.40	21
21.34	23.03	24.94	27.30	30.81	33.92	36.78	40.29	42.80	22
22.34	24.07	26.02	28.43	32.01	35.17	38.08	41.64	44.18	23
23.34	25.11	27.10	29.55	33.20	36.42	39.36	42.98	45.56	24
24.34	26.14	28.17	30.68	34.38	37.65	40.65	44.31	46.93	25
25.34	27.18	29.25	31.79	35.56	38.89	41.92	45.64	48.29	26
26.34	28.21	30.32	32.91	36.74	40.11	43.19	46.96	49.64	27
27.34	29.25	31.39	34.03	37.92	41.34	44.46	48.28	50.99	28
28.34	30.28	32.46	35.14	39.09	42.56	45.72	49.59	52.34	29
29.34	31.32	33.53	36.25	40.26	43.77	46.98	50.89	53.67	30
34.34	36.47	38.86	41.78	46.06	49.80	53.20	57.34	60.27	35
39.34	41.62	44.16	47.27	51.81	55.76	59.34	63.69	66.77	40
44.34	46.76	49.45	52.73	57.51	61.66	65.41	69.96	73.17	45
49.33	51.89	54.72	58.16	63.17	67.50	71.42	76.15	79.49	50
54.33	57.02	59.98	63.58	68.80	73.31	77.38	82.29	85.75	55
59.33	62.13	65.23	68.97	74.40	79.08	83.30	88.38	91.95	60
69.34	72.36	75.69	79.71	85.52	90.53	95.03	100.4	104.2	70
79.34	82.56	86.12	90.40	96.57	101.9	106.6	112.3	116.3	80
89.33	92.76	96.52	101.0	107.6	113.1	118.1	124.1	128.3	90
99.33	102.9	106.9	111.7	118.5	124.3	129.6	135.8	140.2	100
124.3	128.4	132.8	138.1	145.6	152.1	157.8	164.7	169.5	125
149.3	153.8	158.6	164.3	172.6	179.6	185.8	193.2	198.4	150



Table C.3. Percentiles of Student's t distribution.

Deg. of freedom	$t_{0.6}$	$t_{0.7}$	$t_{0.8}$	$t_{0.90}$	$t_{0.95}$	$t_{0.975}$	$t_{0.99}$	$t_{0.995}$
1	0.325	0.727	1.376	3.078	6.314	12.71	31.82	63.66
2	0.289	0.617	1.061	1.886	2.920	4.303	6.965	9.925
3	0.277	0.584	0.978	1.638	2.353	3.182	4.541	5.841
4	0.271	0.569	0.941	1.533	2.132	2.776	3.747	4.604
5	0.267	0.559	0.920	1.476	2.015	2.571	3.365	4.032
6	0.265	0.553	0.906	1.440	1.943	2.447	3.143	3.707
7	0.263	0.549	0.896	1.415	1.895	2.365	2.998	3.499
8	0.262	0.546	0.889	1.397	1.860	2.306	2.896	3.355
9	0.261	0.543	0.883	1.383	1.833	2.262	2.821	3.250
10	0.260	0.542	0.879	1.372	1.812	2.228	2.764	3.169
11	0.260	0.540	0.876	1.363	1.796	2.201	2.718	3.106
12	0.259	0.539	0.873	1.356	1.782	2.179	2.681	3.055
13	0.259	0.538	0.870	1.350	1.771	2.160	2.650	3.012
14	0.258	0.537	0.868	1.345	1.761	2.145	2.624	2.977
15	0.258	0.536	0.866	1.341	1.753	2.131	2.602	2.947
16	0.258	0.535	0.865	1.337	1.746	2.120	2.583	2.921
17	0.257	0.534	0.863	1.333	1.740	2.110	2.567	2.898
18	0.257	0.534	0.862	1.330	1.734	2.101	2.552	2.878
19	0.257	0.533	0.861	1.328	1.729	2.093	2.539	2.861
20	0.257	0.533	0.860	1.325	1.725	2.086	2.528	2.845
21	0.257	0.532	0.859	1.323	1.721	2.080	2.518	2.831
22	0.256	0.532	0.858	1.321	1.717	2.074	2.508	2.819
23	0.256	0.532	0.858	1.319	1.714	2.069	2.500	2.807
24	0.256	0.531	0.857	1.318	1.711	2.064	2.492	2.797
25	0.256	0.531	0.856	1.316	1.708	2.060	2.485	2.787
26	0.256	0.531	0.856	1.315	1.706	2.056	2.479	2.779
27	0.256	0.531	0.855	1.314	1.703	2.052	2.473	2.771
28	0.256	0.530	0.855	1.313	1.701	2.048	2.467	2.763
29	0.256	0.530	0.854	1.311	1.699	2.045	2.462	2.756
30	0.256	0.530	0.854	1.310	1.697	2.042	2.457	2.750
40	0.255	0.529	0.851	1.303	1.684	2.021	2.423	2.704
50	0.255	0.528	0.849	1.299	1.676	2.009	2.403	2.678
60	0.254	0.527	0.848	1.296	1.671	2.000	2.390	2.660
70	0.254	0.527	0.847	1.294	1.667	1.994	2.381	2.648
80	0.254	0.526	0.846	1.292	1.664	1.990	2.374	2.639
90	0.254	0.526	0.846	1.291	1.662	1.987	2.368	2.632
100	0.254	0.526	0.845	1.290	1.660	1.984	2.364	2.626
120	0.254	0.526	0.845	1.289	1.658	1.980	2.358	2.617
150	0.254	0.526	0.844	1.287	1.655	1.976	2.351	2.609
∞	0.253	0.524	0.842	1.282	1.645	1.960	2.326	2.576

For percentiles below the 50th, use the fact that the t distribution is symmetrical about zero, so $t_{1-q} = -t_q$.

Tables of the beta(α, β) distribution are given on the next pages. Because of the limited size of the paper, each table has been split into two pieces and printed on two facing pages. Each table contains a diagonal line, shown by blackened cells. The table entries below this line and to the left are the lower percentiles, such as the 10th or the 5th. The table entries above the diagonal and to the right are the upper percentiles, such as the 90th or the 95th. In this way, both sets of percentiles appear in a single table.

Only distributions with $\alpha < \beta$ are tabulated. These distributions have probability concentrated near zero, and are the distributions usually encountered in PRA work. For distributions with $\alpha > \beta$, use the fact that if X has a beta(α, β) distribution then $1 - X$ has a beta($\beta,$

α) distribution. An example is given as a footnote to each table.

The size of the page limits the number of parameter pairs (α, β) that can be tabulated. Therefore, interpolation is often necessary, which may give only rough accuracy. If greater accuracy is required, the user can find the beta distribution calculated by many commonly used computer packages and spreadsheets. Similarly, extrapolation beyond the table may sometimes be necessary. A footnote to each table gives an approximate extrapolation formula when $\beta \gg \alpha$, and an example of its application. If further accuracy is needed, use a commercially available computer program.