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PERCENTILE POINTS OF ORDER STATISTICS IN
SAMPLES FROM BETA, NORMAL, CHI (1 D.F.) POPULATIONS

by

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If $p(\alpha, i, N)$ denotes the α^{th} probability point of i^{th} smallest order statistic in random samples of size N drawn from the Beta distribution, $p(\alpha, i, N)$ is computed accurate to eight decimal places for $N = 1(1)30(5)60$, $i = 1(1) 1+[N/2]$ and $\alpha = 0.01, 0.025, 0.10, 0.25, 0.50, 0.75, 0.90, 0.975, 0.99$. Also, the 25th, 50th and 75th percentile points of the Beta distribution for $N = 65(5)100$, $i = 1(1) 1+[N/2]$ are computed with the same accuracy. Using the above values the percentile points of the normal, chi (1 d.f.) and Weibull order statistics in samples of sizes up to and including 30 are computed accurate to 4 or 5 decimal places. Applications of these tables are indicated.

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O. ABSTRACT

If $p(\alpha, i, N)$ denotes the α^{th} probability point of i^{th} smallest order statistic in random samples of size N drawn from the Beta distribution, $p(\alpha, i, N)$ is computed accurate to eight decimal places for $N = 1(1)30(5)60$, $i = 1(1) 1+[N/2]$ and $\alpha = 0.01, 0.025, 0.10, 0.25, 0.50, 0.75, 0.90, 0.975, 0.99$. Also, the 25th, 50th and 75th percentile points of the Beta distribution for $N = 65(5)100$, $i = 1(1) 1+[N/2]$ are computed with the same accuracy. Using the above values the percentile points of the normal, chi (1 d.f.) and Weibull order statistics in samples of sizes up to and including 30 are computed accurate to 4 or 5 decimal places. Applications of these tables are indicated.

1. INTRODUCTION

Pearson [9] has provided extensive tables of the incomplete Beta distribution. It was realized that certain percentage points of the incomplete

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Beta distribution were more useful than the complete distribution of the incomplete Beta. Thompson [10] tabulated the percentage points of the incomplete Beta distribution accurate to five significant figures for $v_1 = 1(1)10, 12, 15, 20, 24, 30, 40, 60, 120$; $v_2 = 1(1)30, 40, 60, 120, \infty$; $\alpha = 0.005, 0.01, 0.025, 0.05, 0.10, 0.25, 0.50$ where v_1 and v_2 denote the parameters of the Beta distribution and α denotes the percentage. Comrie and Hartley [12] gave methods of interpolation in the tables of Thompson [10]. Cochran [1] gave an approximate formula for the percentage points of the incomplete Beta distribution, for large values of its parameters. Eisenhart et al [3] tabulated accurate to five significant figures, the percentile points of the median in samples from the uniform distribution of sizes $N = 3(2)15(10)95$ and for $\alpha = 0.001, 0.005, 0.01, 0.025, 0.05, 0.10, 0.20, 0.25$. Applying inverse interpolation in Pearson's [9] tables, Gupta [5] tabulated the percentile points of the order statistics in samples drawn from the gamma population with even degrees of freedom. Leone et al [8] tabulated the percentile points of the binomial distribution for sample sizes $N = 10(5)100$ and $\alpha = 0.0025, 0.005, 0.01, 0.025, 0.05, 0.1, 0.9, 0.95, 0.975, 0.99, 0.995, 0.9975$. Using Thompson's [10] and other values, Eisenhart [4] tabulated accurate to five significant figures the probability points of order statistics in random samples of size N from a uniform distribution, for $N = 1(1)10$ and for $\alpha = 0.001, 0.005, 0.01, 0.025, 0.05, 0.10, 0.20, 0.25, 0.50$.

Some rank order test statistics for instance, Terry's c_1 -test statistic and Fraser's [5] test for symmetry, are linear sums of expected values of order statistics in samples from standard normal and standard positive normal populations respectively. In the place of the expected values of order statistics, one could use the percentile points of the order statistics. Hence, it is of interest to prepare tables of the percentage points of order statistics in samples from a uniform distribution. The percentage points of order statistics

in samples drawn from any continuous population can be obtained by taking the inverse of the percentage points of the uniform order statistics, with respect to the cumulative distribution function of the underlying continuous population.

2. NOTATION

Let $X_{1,N} \leq X_{2,N} \leq \dots \leq X_{N,N}$ be the order statistics in random samples of size N drawn from a continuous population having $F(x)$ for its cumulative distribution function (c.d.f.). Let $p(\alpha, i, N)$ denote the α th percentage point of $X_{i,N}$. Then $p(\alpha, i, N)$ is given by the relation

$$P(i, i-1) = \sum_{j=0}^{i-1} \binom{i-1}{j} F^{i-j}(\alpha, i, N) [1-F(p(i, \alpha, N))]^{N-i} dF(x) = \alpha. \quad (2.1)$$

That is

$$P(i, i-1) = \sum_{j=0}^{i-1} \binom{i-1}{j} F^{i-j}(\alpha, i, N) [1-F(p(i, \alpha, N))]^{N-i} = \alpha. \quad (2.2)$$

Thus, one can find $p(\alpha, i, N)$ by solving Equation (2.2) for $F(p(\alpha, i, N))$ and then taking its inverse with respect to F . A similar approach was made by Leone et al [8] for computing the percentiles of the binomial distribution. Unless otherwise stated, p denotes $p(\alpha, i, N)$. Throughout Φ denotes the standard normal c.d.f. given by

$$\Phi(x) = (2\pi)^{-1/2} \int_{-\infty}^x e^{-t^2/2} dt. \quad (2.3)$$

3. METHODS OF COMPUTATION

The percentage points of the uniform order statistics were computed by Newton-Raphson iteration using the following polynomial representation for the relation when N and i are integral:

$$\sum_{j=i}^N \binom{N}{j} \alpha^j (1-\alpha)^{N-j} = \alpha.$$

The derivative of the left hand side expression of the above equation is evaluated from its integral representation given in (2.1). Double precision arithmetic was used when necessary to obtain eight decimal accuracy, that is, iteration was continued until the absolute difference between two iterations was less than 10^{-9} . Since the percentage points of the uniform order statistics are roots of certain polynomials which constitute upper tails of the binomial distribution, our values given in Table 1 are related to the percentile points of the binomial distribution given by Leone et al [8]. The values of Leone et al [8] agree with our value to at least seven decimal places. In Table 1, the percentage points of the uniform order statistics are presented for $N = 1(1)30(5)60$, $i = 1(1) 1+[N/2]$ and $\alpha = 0.01, 0.025, 0.10, 0.25, 0.50, 0.75, 0.90, 0.975, 0.99$. The values for $i > 1+[N/2]$ are obtained by using the relation

$$B_{1-p}(N+1-i, i) = 1 - B_p(i, N-i+1). \quad (3.1)$$

The percentage points of order statistics in random samples from any continuous population can be obtained by taking the inverse of the percentage points of the uniform order statistics with respect to the c.d.f. of the population. Thus, the percentage points of the normal order statistics are given by

$$x(p, i, N) = \Phi^{-1}(p(\alpha, i, N)) \quad (3.2)$$

Also, the c.d.f. of the positive normal (chi 1 d.f.) distribution is related to the normal c.d.f. by

$$\begin{aligned} \chi(x) &= 2\Phi(x) - 1, & x > 0. \\ &= 0 & \text{otherwise.} \end{aligned} \quad (3.3)$$

The percentage points of the chi-order statistics are given by

$$x(p,i,N) = \Phi^{-1}((1+p)/2). \quad (3.4)$$

Hasting's [7] approximation to Φ was used. This approximation is given by

$$\Phi(x) = 1 - e^{-x^2/2} \sum_{k=1}^5 \eta_k \eta^k, \quad x \geq 0$$

$$\begin{aligned} \text{wt. } \eta_0 \quad \eta &= (1 + 2^{-1/2} x b)^{-1} \\ b &= 0.32759110 \\ a_1 &= 0.12741479 \\ a_2 &= -0.14224838 \\ a_3 &= 0.71070690 \\ a_4 &= -0.72657604 \\ a_5 &= 0.53070273, \end{aligned}$$

when $x < 0$, the approximation is obtained by considering $1 - \Phi(-x)$. After using this approximation for Φ , Newton-Raphson iteration was used to solve for $x(p,i,N)$. The percentage points of normal order statistics accurate to four decimal places are given in Table 2 for $N = 1(1)30$, $i = 1(1) 1+[N/2]$. The other values can be obtained by symmetry. The percentage points of the chi-order statistics accurate to four decimal places are presented in Table 3 for $N = 1(1)30$, $i = 1(1)N$. The percentage points of the Weibull order statistics are given by

$$x(p,i,N) = (-\ln p)^{1/c} \quad (3.5)$$

where c denotes the shape parameter of the Weibull distribution, the c.d.f. of which is given by $1 - \exp(-x^c)$. The percentage points of the Weibull order statistics accurate to five decimal places are presented in Table 4 for

$N = 1(1)30$, $i = 1(1)N$, $c = 2.0, 2.5$ and 5.0 .

Certain minor errors have been uncovered in the tables of Thompson [10]. These are presented in Table 3.1.

Table 3.1

α	i	N	Ours	Thompson's
0.01	13	27	0.25722525	0.25722
0.01	1	30	0.00033495	0.00033496
0.025	4	15	0.07787154	0.077871
0.05	4	23	0.06167552	0.061675

All the computations were done on Burroughs 220. The computations of the tables presented here too about thirty hours of machine time.

4. APPLICATIONS

4.1 The percentile points of the uniform order statistics can be used to find the percentile points of the Fisher's F distribution. If $F_{\alpha, 2m, 2n}$ denotes the α^{th} percentage points on the F distribution with $2m, 2n$ degrees of freedom, then

$$F_{\alpha, 2m, 2n} = n p(\alpha, m, m+n-1) / m [1 - p(\alpha, m, m+n-1)] \quad (4.1)$$

where $p(\alpha, m, m+n-1)$ is the α^{th} percentage point of the m^{th} smallest order statistic in random samples of size $m+n-1$ drawn from the uniform population on (0,1). Obviously, Table 1 is useful in life-testing problems as indicated by Leone et al [8] and in approximating the percentage points of the hypergeometric distribution as suggested by Thompson [10].

An application of the percentile points of the chi-order statistics is as follows: consider a random variable X having the density function given by

$$f(x, \theta) = (2/\pi)^{1/2} e^{-\frac{1}{2}(x-\theta)^2}, \quad x > \theta$$

$$= 0 \quad \text{otherwise.}$$

Let $X_{1,N} \leq X_{2,N} \leq \dots \leq X_{N,N}$ be the order statistics in a random sample of size N drawn from this population. We wish to test the hypothesis: $\theta=0$ against the hypothesis: $\theta > 0$. $X_{1,N}$ can be a reasonable test statistic. The percentile points of the smallest chi-order statistic can be used to obtain the critical values of $X_{1,N}$.

Similarly, let $X_{1,N} \leq X_{2,N} \leq \dots \leq X_{N,N}$ be the order statistics in a random sample of size N drawn from a Weibull population having the following density function.

$$f(x, \theta) = c(x-\theta)^{c-1} e^{-(x-\theta)^c}, \quad x > \theta$$

$$= 0 \quad \text{otherwise,}$$

where c is assumed to be known exactly. Then, a reasonable test statistic for testing the hypothesis: $\theta=0$ against the hypothesis: $\theta > 0$, could be $X_{1,N}$. In order to carry out the test procedure, the percentile points of the smallest Weibull order statistic are required.

5. CONCLUSION

Our tables are more extensive and more accurate than tables available at present. No attempts were made to propose interpolation and extrapolation methods. The harmonic interpolation method proposed by Comrie and Hartley [2] is also applicable here but it involves use of special tables. Linear interpolation for a fixed percentage seems to give 3 to 4 decimal accuracy for $N \geq 15$.

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[illegible]

(16/03/2023)

PERCENTILE POINTS OF THE BETA DISTRIBUTION

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
12	3	.07898714	.05485064	.07187025	.09565591	.14585204	.21668637	.30117800	.38552117	.43810544	.49413775	.53734291
	4	.07589465	.09924608	.12285065	.15418765	.21613303	.29757561	.38877792	.47526650	.52732640	.57185824	.62219301
	5	.12146660	.15165223	.18102475	.21868114	.26984706	.33852863	.42309370	.51900341	.59913770	.65112449	.69759574
	6	.17460978	.21094464	.24529981	.28817244	.33631865	.39507119	.45665831	.51772404	.56847622	.62333077	.67510743
13	1	.00077280	.00194563	.00393786	.00807189	.02188633	.05192249	.10114895	.16232207	.20581667	.24705234	.29829617
	2	.01192391	.01920667	.02805337	.04169104	.07409501	.12579068	.19405394	.26783571	.31633976	.35029744	.38095548
	3	.03577522	.05038107	.06606756	.08799643	.13447707	.20044860	.27978683	.35977620	.41009860	.45447106	.50617072
	4	.06945535	.09020038	.11266577	.14161108	.19912725	.27527577	.36148477	.44426332	.49464973	.53813154	.58775888
	5	.11083485	.13857934	.16565943	.20050204	.26676124	.35016336	.44028476	.52342878	.57261934	.61426260	.66089956
	6	.15881843	.19223244	.22395541	.26373025	.33681125	.42507666	.51670410	.59823836	.64520072	.68422240	.72711260
	7	.21287733	.25134550	.28704302	.33065920	.40901671	.50000000	.59988334	.66914082	.71295100	.74865452	.78717267
14	1	.00071762	.00180678	.00365710	.00749750	.02033903	.04830485	.09427344	.15165710	.19263618	.23163576	.28031433
	2	.01095157	.01779452	.02599933	.03865823	.06178994	.11702214	.18107354	.25067480	.29673424	.33868434	.38095548
	3	.03305638	.04570928	.06110293	.08147715	.12475050	.18647410	.26171924	.33721368	.38534968	.42812816	.47826424
	4	.06402787	.08368932	.10404731	.13093941	.18568705	.26608621	.33774460	.41697713	.46565661	.50797588	.55668853
	5	.1019861	.12759843	.15271762	.18513416	.24709954	.32575116	.41167691	.49196521	.54000545	.59103533	.62743469
	6	.14568246	.17461108	.20607334	.24315700	.31174146	.39544318	.48351315	.56310769	.60958513	.64861989	.69203023
	7	.19471782	.23026054	.26358493	.30455391	.37824537	.46514666	.55350540	.63086833	.67497152	.71139060	.75120041
15	1	.00066980	.00168643	.00341371	.00699947	.01899605	.04515840	.08827751	.14233410	.18103627	.21801936	.26435775
	2	.01019918	.01657591	.02422573	.03603698	.06119409	.10939610	.16965060	.23555885	.27939619	.31948457	.36789056
	3	.03072318	.04311199	.05684686	.07585876	.11633765	.17432059	.24495394	.31723711	.36344177	.40460270	.45316633
	4	.05939019	.07871154	.09665833	.12176872	.17032246	.23939339	.31691098	.39273347	.43978444	.4809113	.52851443
	5	.09433642	.11824111	.14164394	.17196803	.23011496	.30651982	.38652218	.46-97098	.51075189	.55100324	.59689282
	6	.13457643	.15336432	.19086470	.22559130	.29016962	.36967045	.45426429	.53177359	.57744366	.61619627	.65971022
	7	.17946410	.21266673	.24327242	.28218421	.35182731	.43483279	.52038616	.59646683	.64003479	.67713023	.71771053
	8	.22877590	.25586135	.29998646	.34152084	.41498947	.50000000	.59501053	.65847916	.70001353	.73413865	.77127412
16	1	.00062795	.00158111	.00320069	.00656339	.01781944	.04239672	.08299596	.13403568	.17074972	.20590721	.25010579
	2	.00954358	.01551361	.02267877	.03374882	.05017407	.10270302	.15961071	.22217203	.26395740	.30232074	.34883832
	3	.02869776	.04047373	.05314597	.07096636	.10898634	.16365421	.23058919	.29956404	.34382520	.38347624	.43049327
	4	.05538108	.07266204	.09025243	.11380218	.16107953	.22476459	.29848659	.37122224	.41657228	.4564-55	.50293639
	5	.08783773	.11016095	.13211095	.16055945	.21338294	.28588592	.36424000	.44921195	.48439642	.52377142	.56897086
	6	.12575897	.15198367	.17776584	.21041255	.27140648	.34705038	.42830827	.50530994	.548834708	.58662064	.62994547
	7	.16645967	.19753414	.22660156	.26291544	.32888953	.40822650	.49093377	.56544045	.50898842	.64565391	.68659093
	8	.21171644	.24651012	.27860267	.31782734	.38769226	.46960827	.55222478	.62495833	.66662581	.70122139	.73930772
17	1	.00059102	.00148817	.00301271	.00617851	.01678008	.03995331	.07831036	.12667384	.16156528	.19506277	.23730141
	2	.00897921	.01457932	.02131763	.03173399	.05662805	.09678160	.15069104	.21021099	.25012445	.28688940	.33163330
	3	.02652722	.03798506	.04989081	.06666754	.10525134	.15421749	.21781141	.28370181	.32619306	.36440916	.40992343
	4	.05188048	.06410774	.08464508	.10681665	.15144033	.21178500	.28207432	.35186879	.39566413	.43431787	.47962104
	5	.08216584	.10313552	.12377092	.15057692	.20240303	.26940046	.34436893	.41638919	.46054867	.49899327	.54338762
	6	.11680917	.14209747	.16306267	.19716145	.25493394	.32703812	.40512716	.47807148	.52191769	.55958380	.60213329
	7	.15523481	.18443496	.21190815	.24613683	.30378012	.38468723	.46458626	.53735487	.58029465	.61671634	.65770948
	8	.19710564	.22963268	.26011442	.28775716	.34380157	.42342432	.52287988	.59448970	.63599123	.67075285	.70938332

PERCENTILE POINTS OF THE ACTA DISTRIBUTION

N	I	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	99
17	9	.267224774	.27811832	.31032956	.35039483	.41992727	.50000000	.58007729	.64960517	.68917043	.72188170	.75775164
18	1	.00054820	.00140556	.00284557	.00583624	.01585528	.03777616	.07412529	.12000746	.16331755	.18530197	.22573632
	2	.00845652	.01375122	.02611067	.04994628	.08347484	.12615657	.17671745	.23467502	.29946032	.37294350	.45022482
	3	.02533561	.03585008	.04702487	.06286036	.08676645	.11580267	.14837109	.18424204	.22356197	.26512044	.31018485
	4	.04879217	.06409204	.07969538	.10044101	.12891145	.16023310	.19476496	.23241254	.273267015	.31717744	.364829789
	5	.07718912	.09626919	.11642657	.14176744	.17000274	.20027210	.23254083	.266802108	.30308276	.34147743	.38188061
	6	.10308778	.13342738	.16433364	.19649000	.23043450	.26620717	.30382737	.343307118	.38468225	.42791077	.47310575
	7	.14544352	.17998585	.21991331	.26133001	.30100399	.34123387	.38308274	.426502116	.47148225	.518007475	.567090547
	8	.18444111	.21843152	.26391124	.31222014	.35726089	.40127616	.44627241	.493183409	.54184556	.59007475	.639090547
	9	.22620073	.26010060	.29122106	.32884637	.36552292	.40273375	.44030383	.47890004	.518420104	.55896872	.6004267
19	1	.00002883	.00133127	.00264631	.00465294	.01542700	.03582600	.07336464	.11413321	.14584850	.17466691	.21524003
	2	.00800088	.0131216	.02423212	.03824933	.05645702	.085677416	.12653712	.18076556	.226373425	.26027283	.30180103
	3	.02796708	.04382626	.06446482	.09046494	.12216293	.15827116	.19867129	.25568690	.29580201	.33127666	.37405483
	4	.04607648	.06952454	.0742370	.09941774	.13525752	.18088114	.24111271	.31859083	.35942542	.39575455	.43873402
	5	.07277658	.09146577	.11397635	.13323554	.15926205	.19245919	.23255919	.27752691	.31917023	.35654308	.39825171
	6	.10321267	.12476064	.14761965	.17132074	.20775887	.24727018	.28986743	.33464708	.37570711	.41202945	.45378880
	7	.13683504	.16238586	.1875433	.21832373	.25117373	.28693345	.32564137	.36836437	.40506715	.44560157	.48601132
	8	.17222371	.20252144	.23272784	.26322784	.29342702	.32656763	.36173763	.39819353	.43542208	.47341013	.51193548
	9	.21345273	.24474467	.2729584	.30083303	.32830033	.35733667	.38706031	.41848470	.45000216	.48193548	.5134548
20	1	.00005303	.00554325	.0200654	.03403030	.04248860	.06000000	.07591352	.09270712	.11345675	.13456675	.15606692
	2	.00753279	.01345602	.0205138	.03062587	.04628314	.06406362	.08495450	.10874904	.13510834	.16443347	.19567177
	3	.02792186	.0424683	.0510513	.06491413	.08127138	.10250952	.12801040	.15765096	.19110616	.22873276	.26879037
	4	.04277142	.06733059	.0713336	.08822134	.10939884	.13054904	.15472433	.18276337	.21461952	.25038271	.28835526
	5	.06394657	.08657146	.1040086	.12692407	.15423036	.18057804	.21067804	.24418681	.28165380	.32302683	.36727292
	6	.08764210	.11894158	.13954376	.16587920	.19700023	.22887045	.26644274	.30666188	.35102812	.39661400	.44787555
	7	.12913840	.16300912	.1773092	.20666033	.24500401	.27951103	.32003348	.36789372	.41558240	.46104587	.51211441
	8	.16341906	.19119006	.2170857	.24606483	.27714681	.31710508	.36096971	.4083076	.45803451	.50921883	.56309316
	9	.20906475	.2307788	.25840058	.29252882	.33410631	.37227133	.40959844	.44732018	.48641511	.53045741	.57657337
21	1	.00005963	.01195785	.0312092	.04331702	.06131300	.07552036	.09595450	.11524856	.135306768	.156772187	.17991981
	2	.00753279	.01345602	.0205138	.03062587	.04628314	.06406362	.08495450	.10874904	.13510834	.16443347	.19567177
	3	.02792186	.0424683	.0510513	.06491413	.08127138	.10250952	.12801040	.15765096	.19110616	.22873276	.26879037
	4	.04277142	.06733059	.0713336	.08822134	.10939884	.13054904	.15472433	.18276337	.21461952	.25038271	.28835526
	5	.06394657	.08657146	.1040086	.12692407	.15423036	.18057804	.21067804	.24418681	.28165380	.32302683	.36727292
	6	.08764210	.11894158	.13954376	.16587920	.19700023	.22887045	.26644274	.30666188	.35102812	.39661400	.44787555
	7	.12913840	.16300912	.1773092	.20666033	.24500401	.27951103	.32003348	.36789372	.41558240	.46104587	.51211441
	8	.16341906	.19119006	.2170857	.24606483	.27714681	.31710508	.36096971	.4083076	.45803451	.50921883	.56309316
	9	.20906475	.2307788	.25840058	.29252882	.33410631	.37227133	.40959844	.44732018	.48641511	.53045741	.57657337
22	1	.00005073	.0115015	.00232879	.00477766	.01299133	.03101553	.06106909	.09937398	.12730543	.15437251	.18886917

TABLE 1 Contd.

PERCENTILE POINTS OF THE RETA DISTRIBUTION

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
22	2	0.0688765	0.1120458	0.1639752	0.2443968	0.4374108	0.7512738	1.1777056	1.6558937	1.9812213	2.2844440	2.5844047
3	3	0.0505704	0.0905485	0.1322351	0.1790423	0.2790423	0.4374108	0.7512738	1.1777056	1.6558937	2.2844440	2.5844047
4	4	0.03042986	0.05186730	0.07459562	0.1017413	0.1322351	0.1790423	0.2790423	0.4374108	0.7512738	1.1777056	1.6558937
5	5	0.0213623	0.037820625	0.05410940	0.07459562	0.1017413	0.1322351	0.1790423	0.2790423	0.4374108	0.7512738	1.1777056
6	6	0.01728924	0.02603401	0.03502156	0.0456528	0.0584437	0.07459562	0.1017413	0.1322351	0.1790423	0.2790423	0.4374108
7	7	0.1620744	0.19864653	0.15994128	0.18673007	0.234599186	0.28433454	0.34334500	0.4269681	0.52722170	0.64170572	0.77170572
8	8	0.14676940	0.17197944	0.11952258	0.22483354	0.27830629	0.34334500	0.4269681	0.52722170	0.64170572	0.77170572	0.910190
9	9	0.17933782	0.20709313	0.23272386	0.26416181	0.30683329	0.34334500	0.4269681	0.52722170	0.64170572	0.77170572	0.910190
10	10	0.21380582	0.24386185	0.27131321	0.30463175	0.34334500	0.4269681	0.52722170	0.64170572	0.77170572	0.910190	1.07254765
11	11	0.25003172	0.28221053	0.31126361	0.34618839	0.38126314	0.4269681	0.52722170	0.64170572	0.77170572	0.910190	1.07254765
23	1	0.0004368	0.0110017	0.0222766	0.04537042	0.12242900	0.2968725	0.58649316	0.9526428	1.2212739	1.4818513	1.8145327
2	2	0.0053238	0.0167406	0.0337363	0.0713706	0.14833706	0.3190570	0.58649316	0.9526428	1.2212739	1.4818513	1.8145327
3	3	0.01663906	0.04775151	0.08651528	0.14833706	0.24833706	0.4190570	0.68649316	1.0526428	1.3212739	1.5818513	1.9545327
4	4	0.03762533	0.08650764	0.1617552	0.2808345	0.4544862	0.7137332	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341
5	5	0.0632034	0.13660231	0.2387908	0.3971093	0.6169153	0.9134716	1.2593152	1.6593241	2.0373241	2.3373341	2.668092
6	6	0.0837334	0.18228613	0.3207145	0.5138424	0.7695730	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341	2.668092
7	7	0.1065737	0.23100287	0.4194767	0.6815781	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468
8	8	0.13966122	0.31676361	0.5634377	0.9134716	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468	3.2687467
9	9	0.17905264	0.4194767	0.7216585	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468	3.2687467
10	10	0.2312406	0.5634377	0.9134716	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468	3.2687467	3.5015253
11	11	0.2943174	0.76815621	1.29605336	2.0971271	3.2687467	5.0000000	7.5677176	10.5853054	14.1450441	18.1505339	22.58923631
12	12	0.37229333	1.0087708	1.83516765	3.07011620	5.0000000	7.5677176	10.5853054	14.1450441	18.1505339	22.58923631	27.670667
24	1	0.00041868	0.0115435	0.0214494	0.04338339	0.1121518	0.2864806	0.5617569	0.9148242	1.1734616	1.4247264	1.7459581
2	2	0.00533933	0.0126434	0.02338273	0.04699186	0.1121518	0.2864806	0.5617569	0.9148242	1.1734616	1.4247264	1.7459581
3	3	0.0187902	0.0450932	0.0849333	0.14833706	0.24833706	0.4190570	0.68649316	1.0526428	1.3212739	1.5818513	1.9545327
4	4	0.03597841	0.0733363	0.1206834	0.20747676	0.34334500	0.52722170	0.77170572	1.07254765	1.3734616	1.6747264	1.9759581
5	5	0.05662146	0.1111862	0.18581538	0.2973789	0.4730789	0.7134716	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341
6	6	0.0799738	0.1403056	0.23100287	0.3694473	0.5634377	0.8134716	1.1212739	1.3734616	1.6747264	1.9759581	2.3373341
7	7	0.10616506	0.1816210	0.2943174	0.4544862	0.7134716	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341	2.668092
8	8	0.13966122	0.23100287	0.3694473	0.5634377	0.8134716	1.1212739	1.3734616	1.6747264	1.9759581	2.3373341	2.668092
9	9	0.17905264	0.2943174	0.4544862	0.7134716	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468
10	10	0.2312406	0.3694473	0.5634377	0.8134716	1.1212739	1.3734616	1.6747264	1.9759581	2.3373341	2.668092	2.9767468
11	11	0.2943174	0.4544862	0.7134716	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468	3.2687467
12	12	0.37229333	0.5634377	0.9134716	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468	3.2687467	3.5015253
25	1	0.0004193	0.0112220	0.0204963	0.0420555	0.1144132	0.2734498	0.53394218	0.8798916	1.1292728	1.3718517	1.68231623
2	2	0.00533933	0.0126434	0.02338273	0.04699186	0.1121518	0.2864806	0.5617569	0.9148242	1.1734616	1.4247264	1.7459581
3	3	0.0187902	0.0450932	0.0849333	0.14833706	0.24833706	0.4190570	0.68649316	1.0526428	1.3212739	1.5818513	1.9545327
4	4	0.03597841	0.0733363	0.1206834	0.20747676	0.34334500	0.52722170	0.77170572	1.07254765	1.3734616	1.6747264	1.9759581
5	5	0.05662146	0.1111862	0.18581538	0.2973789	0.4730789	0.7134716	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341
6	6	0.0799738	0.1403056	0.23100287	0.3694473	0.5634377	0.8134716	1.1212739	1.3734616	1.6747264	1.9759581	2.3373341
7	7	0.10616506	0.1816210	0.2943174	0.4544862	0.7134716	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341	2.668092
8	8	0.13966122	0.23100287	0.3694473	0.5634377	0.8134716	1.1212739	1.3734616	1.6747264	1.9759581	2.3373341	2.668092
9	9	0.17905264	0.2943174	0.4544862	0.7134716	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468
10	10	0.2312406	0.3694473	0.5634377	0.8134716	1.1212739	1.3734616	1.6747264	1.9759581	2.3373341	2.668092	2.9767468
11	11	0.2943174	0.4544862	0.7134716	1.0526428	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468	3.2687467
12	12	0.37229333	0.5634377	0.9134716	1.3212739	1.5818513	1.9545327	2.3373341	2.668092	2.9767468	3.2687467	3.5015253

TABLE 1 Contd.

PERCENTILE POINTS OF THE BETA DISTRIBUTION

	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
1	21564405	264027365	26985305	30111212	35637050	42107489	48756514	54771767	58316106	61334450	64786620	67831888
2	24786247	27796702	30512966	33777605	39673454	46053718	52927845	58667878	62713384	65607183	68473988	71359206
3	26100796	3105706	36113865	37516148	43351961	50000000	56664861	62858582	65541136	67949296	70359206	72831888
4	270550991	300945329	330197087	360406419	410009348	470610725	531271100	587742269	62840363	65540363	67949296	70359206
5	27780072	32465806	36311815	40438348	46086508	53022265	60000000	66664861	72831888	78473988	8359206	8831888
6	28200762	33556311	37311972	4172861	4812861	55000000	61664861	67949296	7359206	78473988	8359206	8831888
7	28800762	3412861	38000000	42000000	48000000	54000000	60000000	66000000	72000000	78000000	84000000	90000000
8	29400762	3472861	38600000	42600000	48600000	54600000	60600000	66600000	72600000	78600000	84600000	90600000
9	30000762	3532861	39200000	43200000	49200000	55200000	61200000	67200000	73200000	79200000	85200000	91200000
10	30600762	3592861	39800000	43800000	49800000	55800000	61800000	67800000	73800000	79800000	85800000	91800000
11	31200762	3652861	40400000	44400000	50400000	56400000	62400000	68400000	74400000	80400000	86400000	92400000
12	31800762	3712861	41000000	45000000	51000000	57000000	63000000	69000000	75000000	81000000	87000000	93000000
13	32400762	3772861	41600000	45600000	51600000	57600000	63600000	69600000	75600000	81600000	87600000	93600000
14	33000762	3832861	42200000	46200000	52200000	58200000	64200000	70200000	76200000	82200000	88200000	94200000
15	33600762	3892861	42800000	46800000	52800000	58800000	64800000	70800000	76800000	82800000	88800000	94800000
16	34200762	3952861	43400000	47400000	53400000	59400000	65400000	71400000	77400000	83400000	89400000	95400000
17	34800762	4012861	44000000	48000000	54000000	60000000	66000000	72000000	78000000	84000000	90000000	96000000
18	35400762	4072861	44600000	48600000	54600000	60600000	66600000	72600000	78600000	84600000	90600000	96600000
19	36000762	4132861	45200000	49200000	55200000	61200000	67200000	73200000	79200000	85200000	91200000	97200000
20	36600762	4192861	45800000	49800000	55800000	61800000	67800000	73800000	79800000	85800000	91800000	97800000
21	37200762	4252861	46400000	50400000	56400000	62400000	68400000	74400000	80400000	86400000	924000	
22	37800762	4312861	47000000	51000000	57000000	63000000	69000000	75000000	81000000	87000000	93000000	
23	38400762	4372861	47600000	51600000	57600000	63600000	69600000	75600000	81600000	87600000	93600000	
24	39000762	4432861	48200000	52200000	58200000	64200000	70200000	76200000	82200000	88200000	942000	

PERCENTILE POINTS OF THE BETA DISTRIBUTION

	.01	.02	.05	.10	.25	.50	.75	.90	.95	.975	.99
29	.00034650	.00081265	.00176717	.00362653	.00987103	.02361818	.06667867	.07632954	.09814463	.11944487	.14683215
29	.00519972	.00846536	.01243353	.01849034	.03317318	.05720226	.09017773	.12761889	.15339174	.17764430	.20787798
3	.01545964	.02186373	.03870549	.058661547	.09860366	.09114524	.13075685	.17326534	.20156059	.22766189	.25963269
4	.02952067	.03889483	.06857006	.06154198	.03817623	.12516615	.15981642	.21304830	.24613032	.27351520	.30662781
5	.06633507	.05843607	.07069392	.06631582	.11753070	.15921599	.20787931	.25696406	.28837201	.31664061	.35049241
6	.06531503	.07594184	.09415699	.11245834	.14764198	.19327947	.24520520	.29650168	.32887321	.35774755	.39203436
7	.08664009	.10293355	.11915642	.13769064	.17835020	.22735037	.28194682	.33694558	.36799559	.39724703	.43172701
8	.10825952	.12730088	.14633715	.16783494	.20855518	.26614259	.31819463	.37247154	.40504508	.43500548	.46995780
9	.13179171	.15281594	.17244678	.19677115	.24118941	.29555047	.34491932	.40027752	.44299359	.47738448	.50644124
10	.15650683	.17933364	.20043371	.22641503	.27320560	.32988492	.38946427	.44527382	.47901191	.50833235	.54221636
11	.18231093	.20689368	.22934001	.25670426	.30557287	.36366662	.42561927	.48061708	.51427020	.54330573	.57658671
12	.20913594	.23524018	.25891543	.28760175	.33826446	.39774927	.45933350	.51539038	.54876514	.57730536	.61011995
13	.23693133	.26440532	.28927134	.31907109	.37126404	.43382261	.49980116	.54959101	.58255527	.61063508	.64257403
14	.26553737	.29443357	.32027628	.35107008	.40456290	.46591522	.52797031	.58323658	.61560810	.64306129	.67408172
15	.29533353	.32531697	.35280464	.38365934	.43381579	.49900000	.56184817	.61634066	.64700537	.67469500	.70486343
30	.00333335	.00844357	.0170832	.03050585	.05284303	.08515619	.12736973	.17356999	.09503386	.11570331	.14230410
2	.00502385	.00817813	.01797579	.03206647	.05531690	.08725673	.12736973	.17356999	.09503386	.11570331	.14230410
3	.01490007	.02111713	.03781554	.05785482	.08946099	.12632961	.16781294	.20523540	.23852631	.26733540	.29189883
4	.02782736	.03755303	.04684483	.05944356	.08221113	.12104061	.16423608	.20299947	.23859786	.26528845	.29218868
5	.04472236	.05642168	.06804556	.08333556	.11356508	.15396801	.20122343	.24399154	.27961517	.30721335	.34022650
6	.06470727	.07713552	.09087435	.10857746	.12764456	.18660803	.23793954	.28736963	.31897118	.34721179	.38080466
7	.08296724	.09933785	.11494691	.13484243	.17299475	.21985659	.27297750	.32468901	.35700855	.38566651	.41950804
8	.10633533	.1279478	.14619507	.16197727	.20261850	.25280685	.30610747	.35390742	.39304742	.42283721	.45472731
9	.12693386	.14734520	.16633394	.18286496	.23295041	.28576409	.34283325	.39484039	.42993303	.45889365	.49255977
10	.15073428	.17287423	.19344838	.21842754	.26844483	.31872114	.37710908	.43186631	.46507271	.49355904	.52764465
11	.17554435	.19729863	.21700044	.24750357	.29506926	.34616761	.41231760	.46281118	.49943870	.52812004	.56118250
12	.20129613	.22565676	.24853592	.27733215	.32869948	.38463875	.44697078	.50012643	.53308633	.56144015	.59354652
13	.22792613	.25660755	.28460955	.30740215	.35841932	.41750877	.47841540	.53343372	.56605474	.59396507	.62578949
14	.25553392	.28341813	.30864075	.32840075	.39051622	.45055911	.51115950	.56422453	.59837105	.62572455	.65674819
15	.28393040	.31297023	.33899265	.36069599	.42788295	.48451968	.54448412	.59951262	.63005244	.65674476	.68644660
31	.00027311	.00072313	.00146445	.00300577	.00818578	.01969939	.03883425	.06367079	.08203164	.10003244	.12328761
2	.00429715	.00699676	.01027866	.01529851	.02748228	.04740999	.07509378	.10664631	.12850104	.14817208	.17508996
3	.01279742	.01893764	.02717099	.03190553	.04595398	.07567053	.10896524	.14599172	.16915163	.19157141	.21921469
4	.02420066	.03203116	.03992287	.05078678	.07394725	.10391482	.14160617	.18101206	.20688902	.23057502	.25944484
5	.03800083	.04860076	.05803064	.07115205	.09717410	.13218308	.17440809	.21553280	.24772207	.26737904	.29714623
6	.05354073	.06662178	.07730442	.09260608	.12200140	.16066275	.20740620	.24895929	.27771864	.30757135	.33288793
7	.07042263	.08400602	.09787835	.11491078	.14729656	.18767687	.23550577	.28152726	.31054517	.33649830	.36776528
8	.08842506	.10621044	.11914001	.13702338	.17297556	.21703346	.26592705	.31338657	.34309569	.36937884	.40033096
9	.10745539	.12889394	.14121665	.16154014	.19898166	.24533070	.29502678	.34664154	.37477017	.40136326	.43265784
10	.12737764	.14635474	.16395694	.18568834	.22577484	.27362448	.32583777	.37536338	.40581764	.43255885	.46386095
11	.14810807	.16851714	.18790873	.21031455	.25182548	.30191974	.35539552	.40506675	.43625980	.46304464	.49455724
12	.16959256	.19132407	.21110226	.23437873	.27841174	.33021572	.38471879	.43541164	.46614746	.49288000	.52358948
13	.19175207	.21473213	.23550975	.26085033	.30561679	.35851240	.41199217	.46480873	.49551916	.52210098	.55271836
14	.214657916	.23370812	.26040245	.28670426	.33282803	.38680919	.44272404	.49382076	.52440419	.55076884	.58108352

PERCENTILE POINTS OF THE BETA DISTRIBUTION

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
35	15	.23803575	.26322723	.28584883	.31292932	.36023589	.41510677	.47142768	.52246641	.55282449	.57688228	.60871476
16	26210143	.28827144	.31155317	.33950675	.38783369	.46340642	.49990181	.54075714	.58079677	.60646904	.63571387	.67571387
17	.28676236	.31382852	.33789433	.36643021	.41702215	.47102164	.52827099	.57801810	.60832981	.63554194	.66215575	.69798927
18	.31201073	.33987138	.36456392	.39469451	.44354213	.50000000	.55563320	.60630548	.63543209	.66010859	.68798927	
40	1	.00025123	.00043274	.00128151	.00262254	.00716624	.01717920	.03406367	.05503912	.07215752	.08800730	.10874906
2	.00075541	.00151264	.00374611	.00737461	.01374611	.02400493	.04160484	.06590012	.09379710	.11318836	.13158584	.15477307
3	.01117106	.01572177	.02076560	.02787023	.03433454	.04333454	.05562912	.07262816	.09379710	.11318836	.13158584	.15477307
4	.02116636	.02722539	.03488484	.04247181	.05077024	.05910441	.06850441	.07900441	.09000441	.10100441	.11200441	.12300441
5	.03117285	.03817285	.04517285	.05217285	.05917285	.06617285	.07317285	.08017285	.08717285	.09417285	.10117285	.10817285
6	.04117845	.04817845	.05517845	.06217845	.06917845	.07617845	.08317845	.09017845	.09717845	.10417845	.11117845	.11817845
7	.05118405	.05818405	.06518405	.07218405	.07918405	.08618405	.09318405	.10018405	.10718405	.11418405	.12118405	.12818405
8	.06118965	.06818965	.07518965	.08218965	.08918965	.09618965	.10318965	.11018965	.11718965	.12418965	.13118965	.13818965
9	.07119525	.07819525	.08519525	.09219525	.09919525	.10619525	.11319525	.12019525	.12719525	.13419525	.14119525	.14819525
10	.08120085	.08820085	.09520085	.10220085	.10920085	.11620085	.12320085	.13020085	.13720085	.14420085	.15120085	.15820085
11	.09120645	.09820645	.10520645	.11220645	.11920645	.12620645	.13320645	.14020645	.14720645	.15420645	.16120645	.16820645
12	.10121205	.10821205	.11521205	.12221205	.12921205	.13621205	.14321205	.15021205	.15721205	.16421205	.17121205	.17821205
13	.11121765	.11821765	.12521765	.13221765	.13921765	.14621765	.15321765	.16021765	.16721765	.17421765	.18121765	.18821765
14	.12122325	.12822325	.13522325	.14222325	.14922325	.15622325	.16322325	.17022325	.17722325	.18422325	.19122325	.19822325
15	.13122885	.13822885	.14522885	.15222885	.15922885	.16622885	.17322885	.18022885	.18722885	.19422885	.20122885	.20822885
16	.14123445	.14823445	.15523445	.16223445	.16923445	.17623445	.18323445	.19023445	.19723445	.20423445	.21123445	.21823445
17	.15124005	.15824005	.16524005	.17224005	.17924005	.18624005	.19324005	.20024005	.20724005	.21424005	.22124005	.22824005
18	.16124565	.16824565	.17524565	.18224565	.18924565	.19624565	.20324565	.21024565	.21724565	.22424565	.23124565	.23824565
19	.17125125	.17825125	.18525125	.19225125	.19925125	.20625125	.21325125	.22025125	.22725125	.23425125	.24125125	.24825125
20	.18125685	.18825685	.19525685	.20225685	.20925685	.21625685	.22325685	.23025685	.23725685	.24425685	.25125685	.25825685
21	.19126245	.19826245	.20526245	.21226245	.21926245	.22626245	.23326245	.24026245	.24726245	.25426245	.26126245	.26826245
22	.20126805	.20826805	.21526805	.22226805	.22926805	.23626805	.24326805	.25026805	.25726805	.26426805	.27126805	.27826805
23	.21127365	.21827365	.22527365	.23227365	.23927365	.24627365	.25327365	.26027365	.26727365	.27427365	.28127365	.28827365
24	.22127925	.22827925	.23527925	.24227925	.24927925	.25627925	.26327925	.27027925	.27727925	.28427925	.29127925	.29827925
25	.23128485	.23828485	.24528485	.25228485	.25928485	.26628485	.27328485	.28028485	.28728485	.29428485	.30128485	.30828485
26	.24129045	.24829045	.25529045	.26229045	.26929045	.27629045	.28329045	.29029045	.29729045	.30429045	.31129045	.31829045
27	.25129605	.25829605	.26529605	.27229605	.27929605	.28629605	.29329605	.30029605	.30729605	.31429605	.32129605	.32829605
28	.26130165	.26830165	.27530165	.28230165	.28930165	.29630165	.30330165	.31030165	.31730165	.32430165	.33130165	.33830165
29	.27130725	.27830725	.28530725	.29230725	.29930725	.30630725	.31330725	.32030725	.32730725	.33430725	.34130725	.34830725
30	.28131285	.28831285	.29531285	.30231285	.30931285	.31631285	.32331285	.33031285	.33731285	.34431285	.35131285	.35831285
31	.29131845	.29831845	.30531845	.31231845	.31931845	.32631845	.33331845	.34031845	.34731845	.35431845	.36131845	.36831845
32	.30132405	.30832405	.31532405	.32232405	.32932405	.33632405	.34332405	.35032405	.35732405	.36432405	.37132405	.37832405
33	.31132965	.31832965	.32532965	.33232965	.33932965	.34632965	.35332965	.36032965	.36732965	.37432965	.38132965	.38832965
34	.32133525	.32833525	.33533525	.34233525	.34933525	.35633525	.36333525	.37033525	.37733525	.38433525	.39133525	.39833525
35	.33134085	.33834085	.34534085	.35234085	.35934085	.36634085	.37334085	.38034085	.38734085	.39434085	.40134085	.40834085
36	.34134645	.34834645	.35534645	.36234645	.36934645	.37634645	.38334645	.39034645	.39734645	.40434645	.41134645	.41834645
37	.35135205	.35835205	.36535205	.37235205	.37935205	.38635205	.39335205	.40035205	.40735205	.41435205	.42135205	.42835205
38	.36135765	.36835765	.37535765	.38235765	.38935765	.39635765	.40335765	.41035765	.41735765	.42435765	.43135765	.43835765
39	.37136325	.37836325	.38536325	.39236325	.39936325	.40636325	.41336325	.42036325	.42736325	.43436325	.44136325	.44836325
40	.38136885	.38836885	.39536885	.40236885	.40936885	.41636885	.42336885	.43036885	.43736885	.44436885	.45136885	.45836885
41	.39137445	.39837445	.40537445	.41237445	.41937445	.42637445	.43337445	.44037445	.44737445	.45437445	.46137445	.46837445
42	.40138005	.40838005	.41538005	.42238005	.42938005	.43638005	.44338005	.45038005	.45738005	.46438005	.47138005	.47838005
43	.41138565	.41838565	.42538565	.43238565	.43938565	.44638565	.45338565	.46038565	.46738565	.47438565	.48138565	.48838565
44	.42139125	.42839125	.43539125	.44239125	.44939125	.45639125	.46339125	.47039125	.47739125	.48439125	.49139125	.49839125
45	.43139685	.43839685	.44539685	.45239685	.45939685	.46639685	.47339685	.48039685	.48739685	.49439685	.50139685	.50839685
46	.44140245	.44840245	.45540245	.46240245	.46940245	.47640245	.48340245	.49040245	.49740245	.50440245	.51140245	.51840245
47	.45140805	.45840805	.46540805	.47240805	.47940805	.48640805	.49340805	.50040805	.50740805	.51440805	.52140805	.52840805
48	.46141365	.46841365	.47541365	.48241365	.48941365	.49641365	.50341365	.51041365	.51741365	.52441365	.53141365	.53841365
49	.47141925	.47841925	.48541925	.49241925	.49941925	.50641925	.51341925	.52041925	.52741925	.53441925	.54141925	.54841925
50	.48142485	.48842485	.49542485	.50242485	.50942485	.51642485	.52342485	.53042485	.53742485	.54442485	.55142485	.55842485
51	.49143045	.49843045	.50543045	.51243045	.51943045	.52643045	.53343045	.54043045	.54743045	.55443045	.56143045	.56843045
52	.50143605	.50843605	.51543605	.52243605	.52943605	.53643605	.54343605	.55043605	.55743605	.56443605	.57143605	.57843605
53	.51144165	.51844165	.52544165	.53244165	.53944165	.54644165	.55344165	.56044165	.56744165	.57444165	.58144165	.58844165
54	.52144725	.52844725	.53544725	.54244725	.54944725	.55644725	.56344725	.57044725	.57744725	.58444725	.59144725	.59844725
55	.53145285	.53845285	.54545285	.55245285	.55945285	.56645285	.57345285	.58045285	.58745285	.59445285	.60145285	.60845285
56	.54145845	.54845845	.55545845	.56245845	.56945845	.57645845	.58345845	.59045845	.59745845	.60445845	.61145845	.61845845
57	.55146405	.55846405	.56546405	.57246405	.57946405	.58646405	.59346405	.60046405	.60746405	.61446405	.62146405	.62846405
58	.56146965	.56846965	.57546965	.58246965	.58946965	.59646965	.60346965	.61046965	.61746965	.62446965	.63146965	.63846965
59	.57147525	.57847525	.58547525	.59247525	.59947525	.60647525	.61347525	.62047525	.62747525	.63447525	.64147525	.64847525
60	.58148085	.58848085	.59548085	.60248085	.60948085	.61648085	.62348085	.63048085	.63748085	.64448085	.65148085	.65848085
61	.59148645	.59848645	.60548645	.61248645	.61948645	.62648645	.63348645	.64048645	.64748645	.65448645	.66148645	.66848645
62	.60149205	.60849205	.61549205	.62249205	.62949205	.63649205	.64349205	.65049205	.65749205	.66449205	.67149205	.67849205
63	.61149765	.61849765	.62549765	.63249765	.63949765	.64649765	.65349765	.66049765	.66749765	.67449765	.68149765	.68849765
64	.62150325	.62850325	.63550325	.64250325	.64950325	.65650325	.66350325	.67050325	.67750325	.68450325	.69150325	.69850325
65	.63150885	.63850885	.64550885	.65250885	.65950885	.66650885	.67350885	.68050885	.68750885	.69450885	.70150885	.70850885
66	.64151445	.64851445	.65551445	.66251445	.66951445	.67651445	.68351445	.69051445	.69751445	.70451445	.71151445	.71851445
67	.65152005	.65852005	.66552005	.67252005	.67952005	.68652005	.69352005	.70052005	.70752005	.71452005	.72152005	.72852005
68	.66152565	.66852565	.67552565	.68252565	.68952565	.69652565	.70352565	.71052565	.71752565	.72452565	.73152565	.73852565
69	.67153125	.67853125	.68553125	.69253125	.699531							

PERCENTILE POINTS OF THE RETA DISTRIBUTION

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
45	22	31237053	33703374	35879256	38442120	42826871	47794312	52791148	57251850	59881620	62127998	64690033
24	33557576	35774636	37987226	40586022	45013000	50000000	54987007	59413977	62012774	642725961	66742423	
50	1	00020099	00050623	00102634	00210498	00573312	01376733	02734505	04500741	05815508	07112174	080748016
2	00299676	00480143	00715372	01064678	01923367	03346024	05294861	07558061	09139813	10546695	12542772	
3	00886075	01250857	01655186	02224396	03664370	05312227	07691154	10295921	12961416	13713763	15769670	
4	01683612	02222795	02778165	03354760	04064459	04781742	05279498	05354815	05379116	05481896	05720092	
5	02650978	03327407	04023357	04844459	05826602	06962973	08264342	09676318	11246642	12761813	14523278	16452093
6	03691678	04533532	05357141	06242602	07264342	08426973	09764321	11246642	12761813	14523278	16452093	18452093
7	04642528	05481917	06357141	07264342	08264342	09264342	10264342	11246642	12761813	14523278	16452093	18452093
8	05642528	06481917	07357141	08264342	09264342	10264342	11246642	12761813	14523278	16452093	18452093	20452093
9	06642528	07481917	08357141	09264342	10264342	11246642	12761813	14523278	16452093	18452093	20452093	22452093
10	07642528	08481917	09357141	10264342	11246642	12761813	14523278	16452093	18452093	20452093	22452093	24452093
11	08642528	09481917	10357141	11246642	12761813	14523278	16452093	18452093	20452093	22452093	24452093	26452093
12	09642528	10481917	11357141	12264342	13761813	15264342	16761813	18264342	19761813	21264342	22761813	24264342
13	10642528	11481917	12357141	13264342	14761813	16264342	17761813	19264342	20761813	22264342	23761813	25264342
14	11642528	12481917	13357141	14264342	15761813	17264342	18761813	20264342	21761813	23264342	24761813	26264342
15	12642528	13481917	14357141	15264342	16761813	18264342	19761813	21264342	22761813	24264342	25761813	27264342
16	13642528	14481917	15357141	16264342	17761813	19264342	20761813	22264342	23761813	25264342	26761813	28264342
17	14642528	15481917	16357141	17264342	18761813	20264342	21761813	23264342	24761813	26264342	27761813	29264342
18	15642528	16481917	17357141	18264342	19761813	21264342	22761813	24264342	25761813	27264342	28761813	30264342
19	16642528	17481917	18357141	19264342	20761813	22264342	23761813	25264342	26761813	28264342	29761813	31264342
20	17642528	18481917	19357141	20264342	21761813	23264342	24761813	26264342	27761813	29264342	30761813	32264342
21	18642528	19481917	20357141	21264342	22761813	24264342	25761813	27264342	28761813	30264342	31761813	33264342
22	19642528	20481917	21357141	22264342	23761813	25264342	26761813	28264342	29761813	31264342	32761813	34264342
23	20642528	21481917	22357141	23264342	24761813	26264342	27761813	29264342	30761813	32264342	33761813	35264342
24	21642528	22481917	23357141	24264342	25761813	27264342	28761813	30264342	31761813	33264342	34761813	36264342
25	22642528	23481917	24357141	25264342	26761813	28264342	29761813	31264342	32761813	34264342	35761813	37264342
50	1	00018272	00046022	00093217	00191331	00521692	01252355	02489095	04110009	05301195	06487076	08072089
2	00722218	00434354	00649948	00971103	01748446	03032797	04820926	06888095	08337134	09711012	11460326	
3	00802341	01130301	01500339	02020466	03168572	04832252	06938838	09388383	11007955	12726424	14420155	
4	01527388	02017053	02522223	03209575	04462987	06535842	09112330	11744856	13698565	15124675	17128932	
5	02348555	03011051	03657715	04468824	06161397	08640964	11172314	14201745	16876748	17584754	19682428	
6	03348555	04110151	04858784	05831296	07728436	10264816	13178749	16211817	18168998	19255962	2125084	
7	04386355	05272516	06128673	07223912	08932587	12053071	15196907	18363021	20399948	22447091	24481366	
8	05497465	06495139	07484890	08656780	10038533	13856623	17174561	20555109	22580188	24380272	26767925	
9	06657353	07675882	08811126	10123211	12572642	16666245	20747407	24555323	27555323	29555323	31555323	
10	07865977	09079047	10290947	11610509	14222312	17473308	21303250	24592473	26622785	28807000	31172631	
11	09125715	10429588	11640457	13130164	15885596	19270840	23009319	26622785	28807000	31172631	33307041	
12	10420242	11813375	13096548	14682394	17551021	21086372	24928127	28522658	30974356	32972851	34500918	
13	11740972	13277806	14584722	16246093	19247401	22899716	26835999	30602452	32940039	35310210	37458992	
14	131112043	14670044	16093494	17828250	20943790	24700717	28733903	32565307	34920390	37019508	39484261	
15	14504111	16137964	17624191	19428257	22664940	26507745	30522592	34507229	36897798	39002844	41470170	
16	15924227	17629966	19175558	21044157	24363720	28313749	32502695	36436781	38845005	40961949	43445772	
17	17370785	19146637	20745834	22675262	26080098	30121831	34274604	38347128	40773073	42940323	45385622	
18	18842423	20680812	22334555	24320757	27816140	31928902	36239050	40245976	42682744	44872975	47300270	

TABLE 1 Contd.

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PERCENTILE POINTS OF THE RETA DISTRIBUTION

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
55	20338001	22237685	27960691	25979961	29553550	33735967	38096110	42129300	45574965	465707105	49190750	
56	21855560	27813441	25563518	27652208	31207935	35543078	39866176	44000367	46650454	48581495	51058168	
57	23397293	27202465	29337354	33089059	37350178	41789476	45858762	48709814	50151547	50934854	52001293	
58	24959534	27022887	28857012	31034475	34576751	38157750	41789476	45858762	48709814	50151547	52001293	
59	26542726	27865425	30526748	32743047	36576704	40966397	45565756	49533086	51982068	54092744	56276824	
60	28146424	30543488	32711361	34465925	38157750	41789476	45858762	48709814	50151547	50934854	52001293	
61	29772266	31700068	34197382	36117634	40966397	45565756	49533086	51982068	54092744	56276824	58431299	
62	31413987	33463423	35626142	37661160	41809934	46672653	50933128	54972017	57379382	59454541	61814707	
63	33077464	353554617	37357027	39588104	43488104	48102076	52717305	5655437	59149372	61105854	63537369	
64	34760463	37076528	39096060	41462225	45482687	50000000	54617513	58357774	60965940	62922366	65299597	
65	36016749	38855452	40778223	42854504	47284603	52284603	57284603	62284603	66284603	68383127	70483127	
66	37262369	39856488	41857315	43957315	48057315	53057315	58057315	63057315	67057315	69157315	71257315	
67	38507818	40857315	42857315	44857315	48857315	53857315	58857315	63857315	67857315	69857315	71857315	
68	39753267	41857315	43857315	45857315	49857315	54857315	59857315	64857315	68857315	70857315	72857315	
69	40998718	42857315	44857315	46857315	50857315	55857315	60857315	65857315	69857315	71857315	73857315	
70	42244169	43857315	45857315	47857315	51857315	56857315	61857315	66857315	70857315	72857315	74857315	
71	43489620	44857315	46857315	48857315	52857315	57857315	62857315	67857315	71857315	73857315	75857315	
72	44735071	45857315	47857315	49857315	53857315	58857315	63857315	68857315	72857315	74857315	76857315	
73	45980522	46857315	48857315	50857315	54857315	59857315	64857315	69857315	73857315	75857315	77857315	
74	47225973	47857315	49857315	51857315	55857315	60857315	65857315	70857315	74857315	76857315	78857315	
75	48471424	48857315	50857315	52857315	56857315	61857315	66857315	71857315	75857315	77857315	79857315	
76	49716875	49857315	51857315	53857315	57857315	62857315	67857315	72857315	76857315	78857315	80857315	
77	50962326	50857315	52857315	54857315	58857315	63857315	68857315	73857315	77857315	79857315	81857315	
78	52207777	51857315	53857315	55857315	59857315	64857315	69857315	74857315	78857315	80857315	82857315	
79	53453228	52857315	54857315	56857315	60857315	65857315	70857315	75857315	79857315	81857315	83857315	
80	54698679	53857315	55857315	57857315	61857315	66857315	71857315	76857315	80857315	82857315	84857315	
81	55944130	54857315	56857315	58857315	62857315	67857315	72857315	77857315	81857315	83857315	85857315	
82	57189581	55857315	57857315	59857315	63857315	68857315	73857315	78857315	82857315	84857315	86857315	
83	58435032	56857315	58857315	60857315	64857315	69857315	74857315	79857315	83857315	85857315	87857315	
84	59680483	57857315	59857315	61857315	65857315	70857315	75857315	80857315	84857315	86857315	88857315	
85	60925934	58857315	60857315	62857315	66857315	71857315	76857315	81857315	85857315	87857315	89857315	
86	62171385	59857315	61857315	63857315	67857315	72857315	77857315	82857315	86857315	88857315	90857315	
87	63416836	60857315	62857315	64857315	68857315	73857315	78857315	83857315	87857315	89857315	91857315	
88	64662287	61857315	63857315	65857315	69857315	74857315	79857315	84857315	88857315	90857315	92857315	
89	65907738	62857315	64857315	66857315	70857315	75857315	80857315	85857315	89857315	91857315	93857315	
90	67153189	63857315	65857315	67857315	71857315	76857315	81857315	86857315	90857315	92857315	94857315	
91	68398640	64857315	66857315	68857315	72857315	77857315	82857315	87857315	91857315	93857315	95857315	
92	69644091	65857315	67857315	69857315	73857315	78857315	83857315	88857315	92857315	94857315	96857315	
93	70889542	66857315	68857315	70857315	74857315	79857315	84857315	89857315	93857315	95857315	97857315	
94	72134993	67857315	69857315	71857315	75857315	80857315	85857315	90857315	94857315	96857315	98857315	
95	73380444	68857315	70857315	72857315	76857315	81857315	86857315	91857315	95857315	97857315	99857315	
96	74625895	69857315	71857315	73857315	77857315	82857315	87857315	92857315	96857315	98857315	100857315	
97	75871346	70857315	72857315	74857315	78857315	83857315	88857315	93857315	97857315	99857315	101857315	
98	77116797	71857315	73857315	75857315	79857315	84857315	89857315	94857315	98857315	100857315	102857315	
99	78362248	72857315	74857315	76857315	80857315	85857315	90857315	95857315	99857315	101857315	103857315	
100	79607699	73857315	75857315	77857315	81857315	86857315	91857315	96857315	100857315	102857315	104857315	

PERCENTILE POINTS OF THE ACTA DISTRIBUTION

N	I	.25	.50	.75	N	I	.25	.50	.75
65	1	.00441696	.01060713	.02110178	70	1	.00410131	.00853324	.01950030
	2	.01479362	.02568846	.04088918		2	.01374567	.02886068	.03800384
	3	.02663117	.040092679	.05962696		3	.02472504	.03801751	.05524000
	4	.03914872	.05420215	.07733463		4	.03632257	.05220696	.07180488
	5	.05208563	.07149049	.09484177		5	.04842716	.06640847	.08817928
	6	.06533165	.08678502	.11206319		6	.06062348	.08061572	.10420040
	7	.07877264	.10208296	.12904568		7	.07310584	.09482414	.12002017
	8	.09240751	.11748290	.14599220		8	.08575263	.10803853	.13567821
	9	.10619003	.13265438	.16257209		9	.09853538	.12325217	.15120253
	10	.12009957	.14738673	.17912407		10	.11143368	.13766640	.16661330
	11	.13411907	.16228009	.19557258		11	.12443250	.15168167	.18192766
	12	.14823603	.17650315	.21172261		12	.13751097	.16489784	.19714458
	13	.16244004	.19089430	.22818206		13	.15068205	.17801136	.21228851
	14	.17672629	.20502137	.24436843		14	.16392580	.19122064	.22736065
	15	.19108123	.21950075	.26067338		15	.17721651	.20454604	.24236685
	16	.20540536	.23381036	.27652309		16	.19059603	.21776273	.25731271
	17	.21969242	.24811512	.29250400		17	.20401812	.23097081	.27220271
	18	.23453608	.26242002	.30872717		18	.21765318	.24511944	.28703802
	19	.24914081	.27672501	.32492275		19	.23101816	.25841350	.30182584
	20	.26379600	.29103004	.34100500		20	.24450062	.27063068	.31556565
	21	.27850157	.30533505	.35688866		21	.25820764	.28384763	.32926054
	22	.29326637	.31964005	.37159322		22	.27186798	.29806484	.34591208
	23	.30807700	.33394505	.38705065		23	.28556908	.31228210	.36052316
	24	.32290033	.34825106	.40287300		24	.29931107	.32649934	.37509408
	25	.33770537	.36255647	.41865345		25	.31309107	.34071676	.38962652
	26	.35272867	.37686159	.43430807		26	.32680837	.35493411	.40412161
	27	.36770615	.39116706	.44984850		27	.34076230	.37015144	.41858010
	28	.38272002	.40547265	.46530300		28	.35465171	.38436803	.43300352
	29	.39777707	.41977707	.48066513		29	.36857508	.39858617	.44730173
	30	.41287508	.43408056	.49571722		30	.38253449	.41280358	.46174588
	31	.42781176	.44828004	.51060764		31	.39652672	.42682120	.47606628
	32	.44281876	.46349052	.52536302		32	.41055227	.44073877	.49035330
	33	.457840283	.47860000	.540150731		33	.42461070	.45465509	.50460752
						34	.43870180	.46867345	.51882803
						35	.45282585	.48280125	.53301776

TABLE I Contd.

[illegible]

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PERCENTILE POINTS OF THE BETA DISTRIBUTION

N	P	.25	.50	.75	N	P	.25	.50	.75
85	1	.00337876	.00812151	.01617707	90	1	.00319135	.00767205	.01528525
	2	.01131195	.01966667	.03136617		2	.01068326	.01857819	.02963812
	3	.02035647	.03133511	.04560926		3	.01922189	.02960070	.04300689
	4	.02991077	.04300036	.06036664		4	.02872455	.04064870	.05610747
	5	.03978182	.05674555	.07787969		5	.03755458	.05170601	.06884538
	6	.04987270	.06664547	.08607968		6	.04670808	.06276778	.08136297
	7	.05913008	.07815801	.09916753		7	.05677120	.07293203	.09373818
	8	.06751023	.08987214	.11212550		8	.06657713	.08389789	.10599174
	9	.07501170	.10158725	.12407664		9	.07644821	.09596455	.11814521
	10	.08160682	.11330323	.13773085		10	.08647835	.10709184	.13021327
	11	.08727582	.12501271	.15061837		11	.09654627	.11800900	.14220704
	12	.09201510	.13573667	.16233027		12	.10667038	.12916819	.15413812
	13	.09581620	.14536557	.17253115		13	.11637051	.14023671	.16501357
	14	.09867460	.15417068	.18007593		14	.12711300	.15122553	.17583113
	15	.10058306	.16210842	.18551593		15	.13740657	.16237463	.18660667
	16	.10165318	.16920608	.18991220		16	.14744357	.17244357	.19713450
	17	.10193574	.17530382	.19257150		17	.15711330	.18251265	.20740450
	18	.10147465	.18040174	.19355551		18	.16652646	.19258208	.21746722
	19	.10031123	.18457571	.19306156		19	.17572229	.20265145	.22620526
	20	.09847631	.18767774	.19101000		20	.18451866	.21172200	.23488050
	21	.09590062	.19000883	.18763116		21	.19286200	.22079062	.24343686
	22	.09257562	.19160110	.18248569		22	.20050270	.22885005	.25090001
	23	.08853274	.19256316	.17663085		23	.20767063	.23602034	.25745603
	24	.08393019	.19295019	.16946096		24	.21426560	.24109016	.26302761
	25	.07880878	.19286878	.16095512		25	.22038564	.24506882	.26772224
	26	.07320001	.19237801	.15148641		26	.22593054	.24811385	.27167276
	27	.06704054	.19150566	.141603176		27	.23100917	.25050783	.27489645
	28	.06037194	.19027350	.13060194		28	.23569017	.25227795	.27656350
	29	.05311075	.18870104	.11700270		29	.23960066	.25374791	.27691484
	30	.04531167	.18676324	.10285563		30	.24273959	.25448725	.27555339
	31	.03697624	.18457847	.08792852		31	.24549608	.25455705	.27286109
	32	.02833377	.18210911	.0724667		32	.24787202	.25405705	.26881124
	33	.01942648	.17938151	.05674653		33	.24986044	.25315270	.26361124
	34	.01030528	.17643303	.04051073		34	.25150916	.25186667	.25736041
	35	.00090895	.17327160	.02373140		35	.25287169	.25027657	.25008059
	36	.00023257	.16997080	.00641038		36	.25385762	.24833316	.24080124
	37	.00007764	.16659025	.00000000		37	.25440611	.24609619	.24099361
	38	.00004463	.16313070	.00000000		38	.25460646	.24359019	.24521674
	39	.00002971	.15951245	.00000000		39	.25450046	.24107611	.24521674
	40	.00002617	.15584466	.00000000		40	.25423118	.23840488	.24446151
	41	.00002289	.15215307	.00000000		41	.25380632	.23561850	.24558172
	42	.00001945	.14842814	.00000000		42	.25325546	.23273253	.24656828
	43	.00001615	.14467360	.00000000		43	.25260684	.22979520	.24725932
	44	.00001305	.14089000	.00000000		44	.25186482	.22681957	.24776586
	45	.00001015	.13708021	.00000000		45	.25105021	.22380507	.24819520
									.24846507

PERCENTILE POINTS OF THE BETA DISTRIBUTION

N	I	.25	.50	.75	N	I	.25	.50	.75
95	1	.0002344	.00726973	.01468652	100	1	.00297257	.0650745	.01376730
	2	.01012086	.01760384	.0280021		2	.0061473	.01672657	.02660940
	3	.01827087	.02804837	.04085165		3	.01729698	.02665068	.03882875
	4	.02676424	.03851684	.05318749		4	.02541330	.03659748	.05055637
	5	.03555797	.04899424	.06525635		5	.03379682	.04655274	.06203106
	6	.04466035	.05947584	.07717620		6	.04236109	.05651202	.07332684
	7	.05376813	.06995932	.08887242		7	.05106668	.06647353	.08448677
	8	.06284322	.08044522	.10049416		8	.05988218	.07633441	.09553853
	9	.07243372	.09073155	.11202148		9	.06877854	.08640017	.10650116
	10	.08189381	.10141853	.12326888		10	.07777108	.09636454	.117-8840
	11	.09142665	.11190601	.13486724		11	.08681948	.10632933	.12821059
	12	.10101661	.12230373	.14616464		12	.09592392	.11629651	.13897571
	13	.11066286	.13288100	.15742822		13	.10508176	.12626000	.14960030
	14	.12036585	.14336970	.16864390		14	.11428852	.13622550	.16038638
	15	.13009782	.15398570	.17981510		15	.12352801	.14619124	.17098624
	16	.13983782	.16436704	.19096537		16	.13281160	.15615711	.18157570
	17	.14965547	.17483570	.20206515		17	.14212887	.16612300	.19213022
	18	.15954790	.18537644	.21308810		18	.15147909	.17608915	.20265334
	19	.16942281	.19581327	.22412677		19	.16085070	.18605540	.21314-21
	20	.17928220	.20636215	.23517333		20	.17024588	.19602147	.22360773
	21	.18902218	.21673112	.24608749		21	.17970418	.20598730	.23406308
	22	.19876367	.22727995	.25696765		22	.18916521	.21595407	.24446521
	23	.20840844	.23776911	.26780203		23	.19865020	.22592032	.25484317
	24	.21798273	.24825788	.27833179		24	.20815876	.23588668	.26520834
	25	.22739318	.25874724	.28880800		25	.21768811	.24585306	.27555086
	26	.23676228	.26923624	.29944161		26	.22723803	.25581947	.28587315
	27	.24608817	.27972552	.31012344		27	.23680201	.26578501	.29617408
	28	.25536089	.29021480	.32076396		28	.24640029	.27575236	.30645724
	29	.26457282	.30070386	.33136481		29	.25600942	.28571883	.31672058
	30	.27372920	.31119206	.34196574		30	.26563657	.29568532	.32696674
	31	.28284027	.32168227	.35246747		31	.27528130	.30565157	.33719476
	32	.29191710	.33217140	.36296959		32	.28494357	.31561833	.34740560
	33	.30096410	.34266072	.37347253		33	.29452227	.32558466	.35759007
	34	.30996983	.35314997	.38397551		34	.30411705	.33555130	.36777807
	35	.31891155	.36363922	.39447848		35	.31372800	.34551759	.37796019
	36	.32781114	.37412849	.40498121		36	.32337526	.35548435	.38808683
	37	.33667470	.38461790	.41548510		37	.33302501	.36545060	.39821823
	38	.34550046	.39510711	.42598921		38	.34252422	.37541745	.40833472
	39	.35428708	.40559631	.43649362		39	.35202454	.38538422	.41843679
	40	.36303363	.41608560	.44699812		40	.361528936	.39535076	.42852762
	41	.37174165	.42657489	.45750261		41	.37103961	.40531716	.43859655
	42	.38040997	.43706431	.46795785		42	.38054374	.41528393	.44865536
	43	.38904196	.44755348	.47840921		43	.39025201	.42525052	.45866958
	44	.397632910	.45804248	.48885921		44	.40029397	.43521711	.46873123
	45	.406173184	.46853209	.49930317		45	.41049480	.44518338	.47873854
	46	.414664983	.47902142	.50974612		46	.42081904	.45515030	.48875224
	47	.42309803	.48951069	.52000693		47	.43170192	.46511690	.49876169
	48	.431553143	.49990000	.53046857		48	.44159816	.47508350	.50877911
						49	.45150804	.48504995	.51869224
						50	.46143110	.49501670	.52865228

PERCENTILE POINTS OF THE NORMAL ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
2	1	-2.5750	-2.2390	-1.9545	-1.6322	-1.1078	-.5450	-.0000	.4783	.7601	1.0022	1.2816
3	1	-2.7119	-2.3909	-2.1212	-1.8183	-1.3319	-.8193	-.3317	.0900	.3361	.5464	.7877
3	2	-1.5640	-1.3147	-1.1015	-.8567	-.4500	.0000	.4500	.8567	1.1015	1.3147	1.5640
4	1	-2.8058	-2.4943	-2.2240	-1.9432	-1.4803	-.9981	-.5450	-.1569	.0681	.2595	.4783
4	2	-1.7279	-1.4940	-1.2953	-1.0689	-.6966	-.2905	.1097	.4664	.6789	.8628	1.0764
5	1	-2.8769	-2.5723	-2.3187	-2.0365	-1.5900	-1.1290	-.6994	-.3344	-.0547	.2582	.4783
5	2	-1.8428	-1.6188	-1.4294	-1.2147	-.8641	-.4851	-.1151	.2110	.4054	.5722	.7657
5	3	-1.2591	-1.0510	-.8805	-.6851	-.3600	.0000	.3600	.6851	.8806	1.0510	1.2591
6	1	-2.9339	-2.6347	-2.3862	-2.1105	-1.6765	-1.2313	-.8193	-.4713	-.2714	-.1023	.0900
6	2	-1.9306	-1.7139	-1.5313	-1.3749	-.9897	-.6297	-.2807	.0259	.3618	.5408	.7182
6	3	-1.3739	-1.1845	-1.0230	-.8384	-.5333	-.1983	.1337	.4311	.6088	.7628	.9421
7	1	-2.9814	-2.6865	-2.4421	-2.1717	-1.7476	-1.3149	-.9166	-.5819	-.3903	-.2285	-.0450
7	2	-2.0016	-1.7904	-1.6130	-1.4130	-1.0895	-.7438	-.4105	-.1192	.0736	.2274	.3675
7	3	-1.4698	-1.2873	-1.1323	-.9556	-.6648	-.3475	-.0449	.2435	.4090	.5522	.7182
7	4	-1.0702	-.9000	-.7543	-.5870	-.3085	.0000	.3085	.5870	.7543	.9000	1.0702
8	1	-3.0220	-2.7307	-2.4898	-2.2337	-1.8078	-1.3852	-.9981	-.6742	-.4892	-.3334	-.1569
8	2	-2.0609	-1.8542	-1.6809	-1.4861	-1.1718	-.8376	-.5167	-.2372	.0736	.2274	.3675
8	3	-1.5478	-1.3707	-1.2206	-1.0500	-.7707	-.4662	-.1682	.0939	.2525	.3876	.5440
8	4	-1.1173	-0.9068	-.7672	-.6074	-.4424	-.1506	.1395	.3999	.5556	.6907	.8481
9	1	-3.0574	-2.7693	-2.5312	-2.2689	-1.8598	-1.4457	-.1.0680	-.7530	-.5736	-.4227	-.2520
9	2	-2.1117	-1.9088	-1.7389	-1.5484	-1.2418	-.9168	-.6060	-.3362	-.1786	-.0439	.1106
9	3	-1.6132	-1.4406	-1.2945	-1.1288	-.8578	-.5444	-.2779	.0249	.2448	.3536	.5024
9	4	-1.2321	-1.0939	-.9591	-.8050	-.5505	-.2713	.0050	.2518	.3990	.5264	.6744
9	5	-.9504	-.7995	-.6702	-.5216	-.2742	.0000	.2742	.5216	.6702	.7995	.9504
10	1	-3.0889	-2.8034	-2.5679	-2.3087	-1.9055	-1.4955	-.1.1290	-.8215	-.6468	-.5001	-.3344
10	2	-2.1561	-1.9564	-1.7854	-1.6024	-1.3073	-.9852	-.6828	-.4211	-.2685	-.1383	.0109
10	3	-1.6695	-1.5005	-1.3578	-1.1961	-.9324	-.6477	-.3707	.0173	.2073	.3299	.4839
10	4	-1.3212	-1.1673	-.9869	-.8069	-.6407	-.3716	-.1062	.1300	.2705	.3920	.5327
10	5	-1.0343	-.8887	-.7640	-.6209	-.4835	-.1214	.1396	.3760	.5143	.6360	.7778
11	1	-3.1171	-2.8339	-2.6007	-2.3443	-1.9462	-1.5459	-.1.1830	-.8821	-.7114	-.5683	-.4068
11	2	-2.1955	-1.9985	-1.8341	-1.6502	-1.3556	-.1.0452	-.7500	-.4952	-.2468	-.1204	-.0757
11	3	-1.7188	-1.5529	-1.4131	-1.2548	-.9927	-.7199	-.4507	.0163	.2071	.3285	.4823
11	4	-1.3809	-1.2305	-1.1027	-.9572	-.7170	-.4571	-.2007	.0270	.1621	.2786	.4136
11	5	-1.1059	-.9641	-.8431	-.7046	-.4741	-.2227	-.0278	.2520	.3858	.5018	.6366
11	6	-.8633	-.7264	-.6090	-.4741	-.2493	.0000	.2493	.4741	.6090	.7264	.8633
12	1	-3.1427	-2.8616	-2.6303	-2.3764	-1.9829	-1.5882	-.1.2313	-.9362	-.7691	-.6291	-.4713

PERCENTILE POINTS OF THE NORMAL ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
12	2	-2.27308	-2.0362	-1.8741	-1.6929	-1.4931	-1.0986	-.8096	-.5607	-.4161	-.2929	-.1521
3	4	-1.76226	-1.5094	-1.4620	-1.3067	-1.0544	-.7834	-.5210	-.2910	-.1558	-.0937	.0937
4	5	-1.4332	-1.2859	-1.1609	-1.0186	-.7852	-.5314	-.2825	-.0620	.0686	.1811	.3112
5	6	-1.1677	-1.0294	-.9115	-.7767	-.5538	-.3093	-.0675	.1484	.2771	.3884	.5175
6	7	-.9361	-.8031	-.6894	-.5587	-.3416	-.1017	.1374	.3524	.4811	.5928	.7228
13	1	-3.1660	-2.8869	-2.6574	-2.4057	-2.0163	-1.5765	-1.2750	-.9850	-.8210	-.6838	-.5293
2	3	-2.2628	-2.0704	-1.9102	-1.7314	-1.4460	-1.1464	-.8631	-.4780	-.2273	-.1144	.0155
3	4	-1.8020	-1.6412	-1.5059	-1.3532	-1.1055	-.8200	-.5835	-.3491	-.1134	.0957	.2218
4	5	-1.4799	-1.3351	-1.2125	-1.0731	-.8447	-.5669	-.3565	-.1402	.0930	.2904	.4149
5	6	-1.2222	-1.0867	-.9715	-.8398	-.6226	-.3849	-.1502	.0588	.1830	.2904	.4149
6	7	-.9993	-.8597	-.7580	-.6319	-.4212	-.1889	.0419	.2488	.3724	.4795	.6041
7	8	-.7965	-.6703	-.5620	-.4375	-.2701	.0000	.2301	.4375	.5620	.6703	.7965
14	1	-3.1874	-2.9101	-2.6822	-2.4325	-2.0468	-1.6415	-1.3349	-1.0294	-.8662	-.7335	-.5819
2	3	-2.2927	-2.1016	-1.9431	-1.7655	-1.4849	-1.1800	-.9114	-.6724	-.4161	-.2817	.0545
3	4	-1.8377	-1.6790	-1.5456	-1.3952	-1.1516	-.8510	-.6066	-.4201	-.2914	-.1811	.0545
4	5	-1.5218	-1.3794	-1.2588	-1.1220	-.8880	-.6555	-.4366	-.2596	-.0862	.0200	.1425
5	6	-1.2706	-1.1378	-1.0243	-.8960	-.6836	-.4517	-.2322	-.0201	.1004	.2045	.3251
6	7	-1.0551	-.9284	-.8271	-.6962	-.4809	-.2652	-.0413	.1589	.2782	.3816	.5016
7	8	-.8606	-.7377	-.6323	-.5113	-.3101	-.0875	.1345	.3342	.4537	.5575	.6783
15	1	-3.2073	-2.9316	-2.7051	-2.4573	-2.0769	-1.6937	-1.3114	-1.0700	-.9114	-.7789	-.6300
2	3	-2.3189	-2.1302	-1.9746	-1.7987	-1.5205	-1.2297	-.9558	-.7206	-.5866	-.4691	-.3374
3	4	-1.8703	-1.7135	-1.5818	-1.4336	-1.1935	-.9372	-.6805	-.4753	-.3493	-.2415	-.1177
4	5	-1.5599	-1.4195	-1.3003	-1.1662	-.9662	-.7093	-.4764	-.2720	-.1515	-.0679	.0715
5	6	-1.3144	-1.1838	-1.0729	-.9464	-.7484	-.5114	-.2884	-.0904	.0270	.1282	.2453
6	7	-1.1050	-.9807	-.8747	-.7514	-.5529	-.3327	-.1149	.0796	.1954	.2955	.4117
7	8	-.9174	-.7972	-.6944	-.5764	-.3804	-.1641	.0511	.2442	.3595	.4597	.5651
8	9	-.7470	-.6354	-.5344	-.4093	-.2147	.0000	.2147	.4093	.5244	.6254	.7430
16	1	-3.2259	-2.9515	-2.7265	-2.4803	-2.1010	-1.7235	-1.3852	-1.1074	-.9512	-.8207	-.6742
2	3	-2.3438	-2.1567	-2.0013	-1.8283	-1.5533	-1.2663	-.9961	-.7649	-.6312	-.5177	-.3885
3	4	-1.9003	-1.7352	-1.6151	-1.4636	-1.2319	-.9795	-.7369	-.5257	-.4020	-.2954	-.1751
4	5	-1.5948	-1.4562	-1.3392	-1.2066	-.9900	-.7563	-.5288	-.3286	-.2107	-.1094	.0074
5	6	-1.3542	-1.2256	-1.1165	-.9922	-.7879	-.5654	-.3471	-.1577	-.0391	.0596	.1738
6	7	-1.1450	-1.0280	-.9239	-.8050	-.6086	-.3933	-.1807	.0088	.1215	.2189	.3317
7	8	-.9683	-.8505	-.7498	-.6344	-.4304	-.2321	-.0227	.1630	.2767	.3736	.4862
8	9	-.8005	-.6855	-.5830	-.4738	-.2853	-.0768	.1313	.3185	.4306	.5279	.6412
17	1	-3.2437	-2.9702	-2.7454	-2.5018	-2.1253	-1.7512	-1.4165	-1.1423	-.9880	-.8594	-.7150
2	3	-2.3670	-2.1813	-2.0273	-1.8559	-1.5837	-1.3001	-.9935	-.7641	-.6312	-.5177	-.3885
3	4	-1.9281	-1.7466	-1.6458	-1.5011	-1.2674	-.9815	-.7796	-.5719	-.4505	-.3467	-.2277
4	5	-1.6269	-1.4700	-1.3745	-1.2436	-.9903	-.7602	-.5767	-.3803	-.2646	-.1654	.0311
5	6	-1.3906	-1.2630	-1.1562	-.9940	-.8331	-.6146	-.4006	-.2111	-.0991	.0025	.1090
6	7	-1.1914	-1.0729	-.9686	-.8518	-.6590	-.4481	-.2401	-.0550	.0550	.1499	.2590
7	8	-.9683	-.8505	-.7498	-.6344	-.4304	-.2321	-.0227	.1630	.2767	.3736	.4862
8	9	-.8005	-.6855	-.5830	-.4738	-.2853	-.0768	.1313	.3185	.4306	.5279	.6412

PERCENTILE POINTS OF THE NORMAL ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
17	9	-.6991	-.5884	-.4935	-.3843	-.2021	.0000	.2021	.3843	.4935	.5884	.6991
18	1	-.32594	-.29877	-.27651	-.25219	-.21480	-.17771	-.14457	-.11746	-.10223	-.8953	-.7530
	2	-.25886	-.22043	-.20515	-.18816	-.15120	-.11315	-.0682	-.0435	-.0218	-.0039	-.4788
	3	-.19539	-.16018	-.14674	-.13312	-.10002	-.0546	-.0191	-.0146	-.0091	-.0031	-.2762
	4	-.16566	-.13213	-.11971	-.10779	-.07476	-.0408	-.0128	-.0087	-.0047	-.0018	-.1047
	5	-.14263	-.11091	-.09906	-.08724	-.05466	-.0208	-.0069	-.0034	-.0016	-.0006	-.0499
	6	-.12787	-.10006	-.08896	-.07743	-.04502	-.0113	-.0034	-.0016	-.0008	-.0004	-.1947
	7	-.10562	-.08274	-.07243	-.06143	-.03002	-.0051	-.0016	-.0008	-.0004	-.0002	-.3343
	8	-.08987	-.06827	-.05936	-.05052	-.01914	.0000	.0191	.0360	.0574	.0809	.4717
	9	-.07511	-.05428	-.04599	-.03843	-.02653	-.01281	.0050	.0108	.0168	.0227	.6098
19	1	-.32747	-.30042	-.27826	-.25408	-.21304	-.18013	-.14731	-.12048	-.10543	-.9289	-.7884
	2	-.26089	-.22258	-.20741	-.19046	-.15385	-.11508	-.0682	-.0435	-.0218	-.0039	-.5192
	3	-.19781	-.16273	-.14701	-.13308	-.10002	-.0546	-.0191	-.0146	-.0091	-.0031	-.3211
	4	-.16843	-.13504	-.12318	-.11097	-.07746	-.0408	-.0128	-.0087	-.0047	-.0018	-.1542
	5	-.14554	-.11318	-.10120	-.08941	-.05646	-.0208	-.0069	-.0034	-.0016	-.0006	-.0043
	6	-.12655	-.10006	-.08896	-.07743	-.04502	-.0113	-.0034	-.0016	-.0008	-.0004	-.1352
	7	-.10947	-.08274	-.07243	-.06143	-.03002	-.0051	-.0016	-.0008	-.0004	-.0002	-.2689
	8	-.09413	-.06827	-.05936	-.05052	-.01914	.0000	.0191	.0360	.0574	.0809	.3997
	9	-.07983	-.05920	-.05052	-.04221	-.01097	.0000	.0109	.0238	.0368	.0462	.5300
	10	-.6521	-.5574	-.4675	-.3640	-.2653	-.1684	-.0715	-.0230	.0230	.0574	.6621
20	1	-.32893	-.30197	-.27992	-.25586	-.21480	-.18242	-.14988	-.12332	-.10843	-.9604	-.8215
	2	-.26280	-.22461	-.20955	-.19287	-.15633	-.11884	-.07190	-.04517	-.0230	-.0047	-.5569
	3	-.20007	-.16512	-.14960	-.13594	-.10240	-.0570	-.0219	-.0174	-.0116	-.0054	-.3629
	4	-.17102	-.13776	-.12586	-.11410	-.08056	-.0356	-.0105	-.0060	-.0032	-.0016	-.2000
	5	-.14844	-.11622	-.10423	-.09257	-.05902	-.0141	-.0054	-.0024	-.0012	-.0006	-.0545
	6	-.12937	-.10006	-.08896	-.07743	-.04502	-.0113	-.0034	-.0016	-.0008	-.0004	-.0806
	7	-.11303	-.08274	-.07243	-.06143	-.03002	-.0051	-.0016	-.0008	-.0004	-.0002	-.2092
	8	-.09805	-.07345	-.06475	-.05648	-.02502	-.0016	-.0008	-.0004	-.0002	-.0001	-.3343
	9	-.08414	-.06069	-.05188	-.04375	-.01250	.0000	.0125	.0230	.0336	.0451	.4581
	10	-.07097	-.05066	-.04175	-.03281	-.01126	-.0016	-.0008	-.0004	-.0002	-.0001	.5826
21	1	-.33029	-.30345	-.28149	-.25755	-.21650	-.18457	-.15200	-.12599	-.11126	-.9900	-.8527
	2	-.26460	-.22652	-.21156	-.19495	-.15841	-.12088	-.07394	-.04726	-.0250	-.0067	-.5922
	3	-.20220	-.16737	-.15195	-.13829	-.10476	-.0598	-.0249	-.0204	-.0146	-.0084	-.4019
	4	-.17345	-.14030	-.12840	-.11663	-.08310	-.0382	-.0131	-.0086	-.0048	-.0024	-.2427
	5	-.15116	-.11906	-.10716	-.09540	-.06186	-.0169	-.0072	-.0037	-.0019	-.0010	-.1010
	6	-.13257	-.10149	-.08959	-.07783	-.04530	-.0104	-.0037	-.0019	-.0010	-.0006	-.0300
	7	-.11633	-.08544	-.07354	-.06178	-.02924	-.0043	-.0019	-.0010	-.0006	-.0004	-.1543
	8	-.10167	-.07113	-.06003	-.04827	-.01674	-.0024	-.0010	-.0006	-.0004	-.0002	-.2745
	9	-.08811	-.06783	-.05693	-.04517	-.01362	-.0016	-.0008	-.0004	-.0002	-.0001	-.3928
	10	-.07532	-.05522	-.04451	-.03281	-.01126	-.0016	-.0008	-.0004	-.0002	-.0001	.5109
	11	-.6304	-.5307	-.4451	-.3466	-.2481	-.1513	-.0545	-.0179	-.0179	-.0179	.6304
22	1	-.33159	-.30485	-.28298	-.25915	-.21810	-.18621	-.15459	-.12851	-.11392	-.9821	-.8421
	2	-.26631	-.22833	-.21336	-.19696	-.16042	-.12388	-.07794	-.05171	-.0295	-.0116	-.6254

PERCENTILE POINTS OF THE NORMAL ORDER STATISTICS

N	1	.01	.025	.05	.1	.25	.50	.75	.90	.95	.975	.99
22	3	-2.0422	-1.8949	-1.7717	-1.6336	-1.4115	-1.1765	-.9521	-.7580	-.6450	-.5487	-.4385
	4	-1.7573	-1.6270	-1.5173	-1.3944	-1.1924	-.9766	-.7682	-.5860	-.4792	-.3877	-.2826
	5	-1.5371	-1.4172	-1.3159	-1.2009	-1.0128	-.8095	-.6114	-.4370	-.3343	-.2460	-.1443
	6	-1.3538	-1.2411	-1.1453	-1.0363	-.9473	-.8624	-.7874	-.7224	-.6624	-.6056	-.5535
	7	-1.1942	-1.0864	-.9947	-.9000	-.8173	-.7425	-.6725	-.6171	-.5651	-.5166	-.4719
	8	-1.0504	-.9464	-.8576	-.7560	-.6579	-.5634	-.4729	-.3861	-.3028	-.2224	-.1451
	9	-.9179	-.8165	-.7299	-.6306	-.5368	-.4483	-.3641	-.2831	-.2052	-.1304	-.0589
	10	-.7933	-.6939	-.6088	-.5111	-.4186	-.3321	-.2507	-.1734	-.1001	-.0299	.0456
	11	-.6742	-.5763	-.4923	-.4056	-.3246	-.2491	-.1781	-.1114	-.0489	.0191	.0859
23	1	-3.3284	-3.0618	-2.8440	-2.6067	-2.2436	-1.8854	-1.5675	-1.1309	-1.1644	-1.0342	-.9098
	2	-2.4793	-2.3005	-2.1526	-1.9887	-1.7298	-1.4617	-1.2116	-.9992	-.8771	-.7739	-.6567
	3	-2.0612	-1.9149	-1.7926	-1.6556	-1.4354	-1.2025	-.9885	-.7882	-.6769	-.5817	-.4740
	4	-1.7789	-1.6496	-1.5409	-1.4181	-1.2189	-.9954	-.7994	-.6194	-.5140	-.4337	-.3201
	5	-1.5511	-1.4423	-1.3419	-1.2281	-1.0421	-.8411	-.6655	-.5174	-.3720	-.2850	-.1848
	6	-1.3803	-1.2786	-1.1793	-1.0661	-.8892	-.6948	-.5084	-.3418	-.2433	-.1585	-.0607
	7	-1.2230	-1.1165	-1.0259	-.9224	-.7519	-.5657	-.3824	-.2197	-.1232	-.0400	.0562
	8	-1.0819	-.9791	-.8815	-.7912	-.6255	-.4437	-.2641	-.1041	-.0089	.0732	.1684
	9	-.9521	-.8521	-.7667	-.6688	-.5065	-.3280	-.1509	.0073	.1016	.1831	.2778
	10	-.8304	-.7326	-.6488	-.5526	-.3928	-.2165	-.0411	.1161	.2100	.2913	.3857
	11	-.7146	-.6183	-.5357	-.4407	-.2826	-.1076	.0669	.2238	.3176	.3990	.4937
	12	-.6029	-.5076	-.4257	-.3315	-.1744	.0000	.1744	.3315	.4257	.5076	.6029
24	1	-3.3462	-3.0745	-2.8575	-2.6213	-2.2509	-1.9038	-1.5882	-1.1317	-1.1884	-1.0693	-.9362
	2	-2.4947	-2.3168	-2.1698	-1.9959	-1.7496	-1.4836	-1.2335	-.9953	-.9044	-.8023	-.6864
	3	-2.0793	-1.9340	-1.8125	-1.6765	-1.4581	-1.2272	-.9874	-.8174	-.7069	-.6129	-.5054
	4	-1.7994	-1.6711	-1.5632	-1.4414	-1.2440	-1.0327	-.8288	-.6510	-.5468	-.4576	-.3553
	5	-1.5838	-1.4660	-1.3665	-1.2537	-1.0596	-.8708	-.6775	-.5076	-.4075	-.3217	-.2229
	6	-1.4052	-1.2946	-1.2008	-1.0941	-.8991	-.7290	-.5630	-.3787	-.2816	-.1980	-.1016
	7	-1.2502	-1.1448	-1.0551	-.9428	-.7444	-.6006	-.4198	-.2595	-.1644	-.0825	.0122
	8	-1.1114	-1.0098	-.9232	-.8242	-.6606	-.4814	-.3044	-.1469	-.0533	.0274	.1210
	9	-.9840	-.8853	-.8010	-.7044	-.5445	-.3686	-.1944	-.0389	.0533	.1338	.2266
	10	-.8650	-.7685	-.6859	-.5911	-.4330	-.2604	-.0880	.0663	.1583	.2380	.3305
	11	-.7521	-.6572	-.5759	-.4824	-.3270	-.1551	.0161	.1698	.2617	.3413	.4339
	12	-.6435	-.5498	-.4693	-.3768	-.2225	-.0515	.1193	.2729	.3650	.4439	.5379
25	1	-3.3515	-3.0866	-2.8704	-2.6351	-2.2754	-1.9213	-1.6078	-1.1353	-1.2111	-1.0931	-.9612
	2	-2.5054	-2.3321	-2.1861	-1.9941	-1.7685	-1.5045	-1.2506	-.9900	-.9303	-.8291	-.7144
	3	-2.0966	-1.9571	-1.8314	-1.6963	-1.4795	-1.2506	-.9877	-.8447	-.7354	-.6424	-.5361
	4	-1.8188	-1.6914	-1.5843	-1.4635	-1.2678	-1.0585	-.8567	-.6807	-.5777	-.4897	-.3886
	5	-1.6053	-1.4885	-1.3898	-1.2780	-1.0957	-.8989	-.7077	-.5398	-.4410	-.3562	-.2587
	6	-1.4287	-1.3191	-1.2262	-1.1206	-.9474	-.7595	-.5757	-.4134	-.3176	-.2352	-.1401
	7	-1.2758	-1.1714	-1.0877	-.9815	-.8150	-.6334	-.4550	-.2968	-.2031	-.1234	-.0291
	8	-1.1391	-1.0386	-.9540	-.8551	-.6936	-.5167	-.3422	-.1870	-.0949	-.0153	.0767
	9	-.9974	-.8964	-.8132	-.7178	-.5600	-.4066	-.2350	-.0820	.0091	.0878	.1794
	10	-.8794	-.7871	-.7026	-.6211	-.4721	-.3012	-.1317	.0199	.1103	.1886	.2794
	11	-.7870	-.6934	-.6133	-.5212	-.3682	-.1991	-.0309	.1199	.2100	.2881	.3788
	12	-.6812	-.5889	-.5097	-.4187	-.2670	-.0991	.0684	.2190	.3091	.3873	.4782

PERCENTILE POINTS OF THE NORMAL ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
25	13	-3.5787	-3.4872	-3.4087	-3.3183	-3.1674	.0300	.1674	.3183	.4087	.4872	.5787
26	1	-3.3624	-3.0083	-2.8828	-2.6484	-2.2907	-1.9381	-1.6265	-1.3738	-1.2323	-1.1157	-9850
2	-2.5235	-2.3473	-2.2017	-2.0406	-1.8666	-1.5786	-1.2543	-1.0069	-0.7707	-0.5447	-0.3247	-0.1157
3	-2.1120	-1.9693	-1.8494	-1.7152	-1.5700	-1.4000	-1.2029	-1.0569	-0.8707	-0.7623	-0.6704	-5653
4	-1.8373	-1.7108	-1.6044	-1.5045	-1.4011	-1.2904	-1.0929	-0.8831	-0.7090	-0.6071	-0.5200	-4201
5	-1.6257	-1.5098	-1.4119	-1.3011	-1.1856	-1.0742	-0.9555	-0.8389	-0.7202	-0.6155	-0.5200	-4201
6	-1.4510	-1.3424	-1.2503	-1.1556	-1.0588	-0.9438	-0.8222	-0.7045	-0.5897	-0.4777	-0.3689	-2702
7	-1.3000	-1.1966	-1.1087	-1.0086	-0.8843	-0.7746	-0.6499	-0.5277	-0.4081	-0.2935	-0.1764	-0680
8	-1.1653	-1.0658	-0.9811	-0.8843	-0.7692	-0.6333	-0.4922	-0.3495	-0.2023	-0.0555	.0451	.0451
9	-1.0422	-0.9457	-0.8633	-0.7692	-0.6508	-0.5079	-0.3495	-0.1725	.0233	.2386	.4231	.5191
10	-0.9277	-0.8336	-0.7531	-0.6508	-0.5274	-0.3866	-0.2302	.0213	.2644	.4297	.5191	.5191
11	-0.8197	-0.7273	-0.6482	-0.5574	-0.4575	-0.3082	-0.1475	.1166	.3664	.5299	.6297	.6297
12	-0.7164	-0.6253	-0.5472	-0.4603	-0.3603	-0.2120	-0.0475	.1166	.3664	.5299	.6297	.6297
13	-0.6166	-0.5265	-0.4492	-0.3603	-0.2603	-0.1120	-0.0475	.1166	.3664	.5299	.6297	.6297
27	1	-3.3728	-3.1005	-2.8947	-2.6611	-2.3065	-1.9541	-1.6444	-1.3934	-1.2535	-1.1373	-1.0077
2	-2.5469	-2.3615	-2.2167	-2.0564	-1.8838	-1.6038	-1.2941	-1.0099	-0.7599	-0.5383	-0.3290	-0.1373
3	-2.1287	-1.9858	-1.8666	-1.7332	-1.5915	-1.4319	-1.2541	-1.0799	-0.8953	-0.7882	-0.6970	-5930
4	-1.8549	-1.7202	-1.6246	-1.5046	-1.3732	-1.2319	-1.0808	-0.9087	-0.7358	-0.6349	-0.5488	-4500
5	-1.6451	-1.5301	-1.4330	-1.3230	-1.2094	-1.0908	-0.9454	-0.7634	-0.5992	-0.4526	-0.3198	-0.1983
6	-1.4722	-1.3644	-1.2731	-1.1694	-1.0622	-0.9454	-0.8154	-0.6356	-0.4771	-0.3333	-0.2077	-0.0939
7	-1.3229	-1.2205	-1.1334	-1.0342	-0.9118	-0.7839	-0.6452	-0.5093	-0.3671	-0.2305	-0.0933	-0.0136
8	-1.1900	-1.0915	-1.0076	-0.9118	-0.8025	-0.6847	-0.5588	-0.4258	-0.2871	-0.1456	.0029	.0929
9	-1.0688	-0.9734	-0.8919	-0.7987	-0.6925	-0.5715	-0.4374	-0.2988	-0.1563	.0028	.1872	.2799
10	-0.9563	-0.8632	-0.7837	-0.6825	-0.5694	-0.4426	-0.3084	-0.1657	.0026	.1172	.2846	.3719
11	-0.8504	-0.7591	-0.6810	-0.5814	-0.4691	-0.3470	-0.2144	-0.0726	.1226	.2094	.3765	.4641
12	-0.7493	-0.6502	-0.5825	-0.4825	-0.3694	-0.2535	-0.1218	.0695	.2145	.3012	.4691	.5571
13	-0.6519	-0.5631	-0.4954	-0.3954	-0.2823	-0.1617	.0000	.1612	.3065	.3935	.5571	.5571
14	-0.5571	-0.4691	-0.3954	-0.3065	-0.2065	-0.0842	.0842	.2566	.3935	.4691	.5571	.5571
28	1	-3.3828	-3.1202	-2.9060	-2.6733	-2.3181	-1.9694	-1.6615	-1.4122	-1.2732	-1.1580	-1.0294
2	-2.5499	-2.3752	-2.2310	-2.0715	-1.8980	-1.6181	-1.2941	-1.0099	-0.7599	-0.5383	-0.3290	-0.1373
3	-2.1247	-2.0016	-1.8838	-1.7505	-1.6038	-1.4319	-1.2541	-1.0799	-0.8953	-0.7882	-0.6970	-5930
4	-1.8718	-1.7468	-1.6419	-1.5237	-1.3925	-1.2541	-1.0808	-0.9087	-0.7358	-0.6349	-0.5488	-4500
5	-1.6637	-1.5494	-1.4530	-1.3439	-1.2319	-1.1094	-0.9454	-0.7634	-0.5992	-0.4526	-0.3198	-0.1983
6	-1.4924	-1.3854	-1.2854	-1.1820	-1.0746	-0.9555	-0.8222	-0.6845	-0.5422	-0.3955	-0.2532	-0.1157
7	-1.3448	-1.2431	-1.1468	-1.0486	-0.9438	-0.8222	-0.6845	-0.5422	-0.3955	-0.2532	-0.1157	-0.0136
8	-1.2135	-1.1150	-1.0180	-0.9180	-0.8080	-0.6845	-0.5422	-0.3955	-0.2532	-0.1157	.0029	.0929
9	-1.0940	-0.9955	-0.8955	-0.7925	-0.6845	-0.5699	-0.4374	-0.2988	-0.1563	.0028	.1872	.2799
10	-0.9833	-0.8812	-0.7812	-0.6734	-0.5699	-0.4426	-0.3084	-0.1657	.1226	.2094	.3765	.4641
11	-0.8793	-0.7800	-0.6810	-0.5734	-0.4691	-0.3470	-0.2144	-0.0726	.1226	.2094	.3765	.4641
12	-0.7803	-0.6815	-0.5825	-0.4750	-0.3694	-0.2535	-0.1218	.0695	.2145	.3012	.4691	.5571
13	-0.6851	-0.5874	-0.4904	-0.3837	-0.2772	-0.1617	.0000	.1612	.3065	.3935	.5571	.5571
14	-0.5927	-0.5059	-0.4192	-0.3125	-0.2065	-0.0842	.0842	.2566	.3935	.4691	.5571	.5571
29	1	-3.3923	-3.1305	-2.9170	-2.6850	-2.3312	-1.9842	-1.6779	-1.4302	-1.2922	-1.1778	-1.0501
2	-2.5673	-2.3983	-2.2447	-2.0860	-1.9241	-1.6444	-1.2941	-1.0099	-0.7599	-0.5383	-0.3290	-0.1373

PERCENTILE POINTS OF THE NORMAL ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
2	3	-2.1581	-2.0167	-1.8988	-1.7670	-1.5559	-1.3337	-1.1228	-.9413	-.8361	-.7466	-.6445
4	5	-1.8879	-1.7637	-1.6594	-1.5420	-1.3521	-1.1495	-.9549	-.7856	-.6867	-.6022	-.5054
6	7	-1.6814	-1.5679	-1.4721	-1.3638	-1.1874	-.9877	-.8138	-.6527	-.5581	-.4771	-.3840
8	9	-1.5116	-1.4055	-1.3156	-1.2136	-1.0466	-.8659	-.6897	-.5345	-.4430	-.3645	-.2740
10	11	-1.3656	-1.2647	-1.1791	-1.0817	-.9217	-.7476	-.5771	-.4263	-.3372	-.2605	-.1720
12	13	-1.2358	-1.1391	-1.0567	-.9528	-.8050	-.6390	-.4728	-.3253	-.2379	-.1626	-.0756
14	15	-1.1180	-1.0243	-.9445	-.8532	-.7025	-.5374	-.3745	-.2296	-.1435	-.0693	.0166
16	17	-1.0089	-.9177	-.8399	-.7507	-.6031	-.4411	-.2807	-.1377	-.0526	.0209	.0660
18	19	-.9066	-.8174	-.7411	-.6535	-.5084	-.3487	-.1902	-.0386	.0358	.1088	.1934
20	21	-.8094	-.7217	-.6466	-.5604	-.4172	-.2592	-.1021	.0386	.1225	.1952	.2796
22	23	-.7162	-.6297	-.5555	-.4703	-.3285	-.1717	-.0155	.1246	.2084	.2810	.3653
24	25	-.6260	-.5403	-.4669	-.3824	-.2416	-.0855	.0702	.2102	.2940	.3667	.4512
26	27	-.5379	-.4529	-.3799	-.2959	-.1557	.0000	.1557	.2959	.3799	.4529	.5379
28	29	-.4517	-.3663	-.2925	-.2099	-.0693	-.1083	-.16937	-.14475	-.13104	-.11967	-.10700
30	31	-.3672	-.2820	-.2079	-.1258	-.0000	-.15954	-.13578	-.11573	-.10425	-.09456	-.08360
32	33	-.2833	-.2000	-.1258	-.0512	-.0000	-.13523	-.11429	-.09628	-.08584	-.07697	-.06885
34	35	-.2000	-.1167	-.0425	-.0173	.0000	-.11698	-.09767	-.08089	-.07108	-.06271	-.05413
36	37	-.1167	-.0333	-.0091	.0000	.0000	-.10196	-.08373	-.06777	-.05840	-.05038	-.04116
38	39	-.0333	-.0091	.0000	.0000	.0000	-.08893	-.07148	-.05611	-.04706	-.03929	-.03034
40	41	.0000	.0000	.0000	.0000	.0000	-.06557	-.05012	-.03546	-.02690	-.01946	-.01037
42	43	.0000	.0000	.0000	.0000	.0000	-.04558	-.03128	-.01716	-.00877	-.00151	.00184
44	45	.0000	.0000	.0000	.0000	.0000	-.02833	-.01484	-.00846	-.00140	.00705	.01540
46	47	.0000	.0000	.0000	.0000	.0000	-.01384	-.00541	.00003	.00830	.01546	.02377
48	49	.0000	.0000	.0000	.0000	.0000	-.00541	.00003	.00830	.01546	.02377	.03207
50	51	.0000	.0000	.0000	.0000	.0000	.00003	.00830	.01546	.02377	.03207	.04036
52	53	.0000	.0000	.0000	.0000	.0000	.00003	.00830	.01546	.02377	.03207	.04036
54	55	.0000	.0000	.0000	.0000	.0000	.00003	.00830	.01546	.02377	.03207	.04036
56	57	.0000	.0000	.0000	.0000	.0000	.00003	.00830	.01546	.02377	.03207	.04036
58	59	.0000	.0000	.0000	.0000	.0000	.00003	.00830	.01546	.02377	.03207	.04036
60	61	.0000	.0000	.0000	.0000	.0000	.00003	.00830	.01546	.02377	.03207	.04036

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TABLE 2 Contd.

PERCENTILE POINTS OF THE CHI (1 D.F.) ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
2	1	.0063	.0153	.0317	.0644	.1687	.3757	.6745	1.0022	1.2170	1.4114	1.6449
	2	.1257	.1905	.2840	.4073	.6745	1.0618	1.4980	1.9488	2.2205	2.4955	2.8062
3	1	.0042	.0105	.0212	.0433	.1149	.2615	.4818	.7320	.8995	1.0529	1.2387
	2	.0749	.1185	.1705	.2470	.4211	.6745	.9811	1.2936	1.4933	1.6731	1.8899
	3	.2734	.3751	.4795	.6191	.8264	1.2538	1.6871	2.1141	2.3877	2.6354	2.9242
4	1	.0031	.0079	.0160	.0326	.0871	.2007	.3757	.5794	.7178	.8459	1.0022
	2	.0527	.0848	.1226	.1796	.2695	.4060	.5745	.7465	1.0157	1.2985	1.4726
	3	.1775	.2457	.3168	.4131	.5673	.8674	1.1671	1.4663	1.6565	1.8278	2.0335
	4	.4072	.5710	.7324	.9762	1.2618	1.6081	1.8158	2.2262	2.4009	2.7313	3.0222
5	1	.0025	.0053	.0128	.0261	.0701	.1630	.3087	.4804	.5988	.7092	.8450
	2	.0410	.0662	.0920	.1211	.1745	.2640	.4060	.6132	.7491	1.0723	1.2210
	3	.1328	.1948	.2595	.3422	.4660	.6745	.9164	1.1586	1.3128	1.4518	1.6181
	4	.2800	.3633	.4435	.5677	.7485	1.0073	1.2995	1.5882	1.7717	1.9370	2.1360
	5	.5217	.6405	.7542	.8982	1.1697	1.5163	1.9117	2.3107	2.5688	2.8028	3.0891
6	1	.0021	.0043	.0107	.0218	.0587	.1372	.2615	.4107	.5144	.6117	.7320
	2	.0335	.0543	.0789	.1163	.1738	.2602	.4008	.6093	.7074	.8042	1.0487
	3	.1064	.1486	.1932	.2545	.3812	.5554	.7608	.9577	1.1000	1.2192	1.3624
	4	.2186	.2829	.3449	.4305	.5930	.8040	1.0431	1.2790	1.4285	1.5627	1.7230
	5	.3777	.4660	.5548	.6583	.8006	1.1159	1.4012	1.6819	1.8602	2.0211	2.2150
	6	.6191	.7401	.8561	.9971	1.2638	1.6022	1.9880	2.3780	2.6310	2.8619	3.1428
7	1	.0018	.0045	.0092	.0187	.0505	.1184	.2271	.3580	.4512	.5383	.6465
	2	.0284	.0460	.0669	.0900	.1278	.2002	.3409	.4916	.6016	.7074	.8218
	3	.0793	.1244	.1621	.2142	.2927	.4345	.6528	.8368	.9517	1.0572	1.1842
	4	.1793	.2328	.2862	.3666	.4940	.6745	.8800	1.0335	1.2125	1.3284	1.4674
	5	.3207	.4174	.5009	.6009	.7505	.9075	1.1429	1.3734	1.5190	1.6498	1.8067
	6	.4630	.5553	.6423	.7511	.9028	1.2043	1.4834	1.7476	1.9315	2.0802	2.2700
	7	.7030	.8245	.9382	1.0766	1.3418	1.6733	2.0510	2.4339	2.6828	2.9104	3.1876
8	1	.0016	.0040	.0080	.0164	.0443	.1042	.2007	.3188	.4020	.4809	.5794
	2	.0246	.0390	.0582	.0851	.1218	.1868	.2809	.4008	.5290	.6168	.7294
	3	.0762	.1070	.1397	.1851	.2581	.4132	.5728	.7350	.8411	.9363	1.0511
	4	.1622	.2199	.2742	.3500	.4645	.6331	.8245	.9651	1.0508	1.1620	1.2867
	5	.2510	.3119	.3708	.4463	.5596	.7219	.9760	1.1758	1.3020	1.4142	1.5508
	6	.3762	.4526	.5248	.6155	.7337	.9034	1.2250	1.4507	1.5932	1.7211	1.8747
	7	.5389	.6333	.7214	.8305	1.0007	1.2783	1.5521	1.8209	1.9918	2.1462	2.3328
	8	.7762	.8976	1.0102	1.1501	1.4081	1.7336	2.1047	2.4315	2.7270	2.9518	3.2260
9	1	.0014	.0035	.0071	.0146	.0390	.0930	.1799	.2368	.3026	.3488	.5251
	2	.0218	.0353	.0514	.0762	.1247	.2271	.3481	.4794	.5668	.6472	.7455
	3	.0669	.0940	.1228	.1630	.2475	.3668	.5108	.6590	.7548	.8318	.9460
	4	.1323	.1776	.2131	.2668	.3732	.5145	.6776	.8306	.9444	1.0379	1.1502

TABLE 3

PERCENTILE POINTS OF THE CHI (1 D.F.) ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
9	5	.2159	.2689	.3204	.3866	.4674	.5745	.6561	1.0364	1.1470	1.2481	1.3691
6	7	.3167	.3844	.4467	.5252	.6114	.7114	.8340	1.2595	1.3752	1.4871	1.6100
7	8	.4450	.5243	.5983	.6802	.7749	.8864	1.0245	1.5161	1.6559	1.7814	1.9321
8	9	.6067	.7023	.7947	.8995	1.0179	1.1519	1.3111	1.8752	2.0433	2.1953	2.3791
9	10	.8007	.9016	1.0032	1.1114	1.2266	1.3588	1.5112	2.2229	2.4655	2.6879	2.9556
10	1	.0013	.0032	.0064	.0131	.0255	.0440	.0710	.2607	.3304	.3968	.4804
2	2	.0195	.0316	.0461	.0684	.1011	.1408	.1952	.4356	.5160	.5903	.6814
3	3	.0596	.0837	.1096	.1457	.1920	.2409	.3013	.5972	.6854	.7655	.8628
4	4	.1171	.1529	.1822	.2173	.2634	.3109	.3603	.7583	.8535	.9394	1.0426
5	5	.1897	.2367	.2825	.3286	.3854	.4437	.5034	.8264	1.0289	1.1208	1.2310
6	6	.2772	.3350	.3901	.4506	.5149	.5824	.6524	1.0893	1.2701	1.3402	1.4340
7	7	.3814	.4504	.5169	.5892	.6657	.7462	.8294	1.3178	1.4394	1.5483	1.6757
8	8	.5075	.5887	.6637	.7551	.8441	1.1298	1.3545	1.5725	1.7100	1.8324	1.9818
9	9	.6677	.7638	.8521	.9504	1.1558	1.3975	1.6625	1.9226	2.0883	2.2382	2.4136
10	10	.8583	1.0184	1.1791	1.3556	1.5513	1.8319	2.1923	2.5595	2.7996	3.0109	3.2893
11	1	.0011	.0029	.0058	.0119	.0224	.0366	.0540	.2300	.3034	.3650	.4428
2	2	.0176	.0286	.0418	.0620	.0890	.1265	.1700	.3692	.4338	.5029	.6077
3	3	.0537	.0755	.0989	.1317	.1700	.2100	.2508	.5463	.6281	.7027	.7932
4	4	.1060	.1374	.1701	.2127	.2588	.3088	.3541	.6915	.7796	.8502	.9550
5	5	.1692	.2115	.2528	.3062	.3627	.4116	.4520	.8407	.9350	1.0196	1.1212
6	6	.2456	.2973	.3469	.4084	.4767	.5415	.6088	.9922	1.1002	1.1906	1.2980
7	7	.3368	.4060	.4734	.5452	.6252	.7026	.7800	1.2173	1.2828	1.3803	1.4970
8	8	.4303	.5104	.5864	.6677	.7522	.8367	.9184	1.3747	1.4544	1.6015	1.7298
9	9	.5464	.6448	.7273	.8149	.9020	1.1854	1.4073	1.6221	1.7576	1.8792	2.0254
10	10	.7298	.8100	.9073	1.0147	1.2003	1.4668	1.7081	1.9447	2.1282	2.2745	2.4554
11	11	.9501	1.0693	1.1790	1.3139	1.5615	1.8700	2.2200	2.5923	2.8302	3.0486	3.3160
12	1	.0000	.0026	.0053	.0110	.0297	.0704	.1372	.2206	.2805	.3380	.4107
2	2	.0161	.0262	.0382	.0567	.0808	.1113	.1451	.3685	.4381	.5027	.5822
3	3	.0489	.0688	.0902	.1202	.1538	.1900	.2289	.5037	.5800	.6497	.7345
4	4	.0893	.1247	.1566	.1945	.2343	.2760	.3203	.6361	.7181	.7924	.8819
5	5	.1528	.1912	.2280	.2776	.3276	.3808	.4372	.7095	.8581	.9368	1.0313
6	6	.2264	.2675	.3124	.3694	.4266	.4821	.5402	.9110	1.0043	1.0878	1.1878
7	7	.2988	.3540	.4060	.4709	.5308	.5937	.6604	1.0621	1.1618	1.2510	1.3575
8	8	.3895	.4522	.5113	.5843	.6519	.7235	.8006	1.2300	1.3376	1.4337	1.5486
9	9	.4927	.5653	.6321	.7119	.7948	.8813	.9724	1.4249	1.5299	1.6485	1.7750
10	10	.6168	.6997	.7754	.8678	1.0339	1.2164	1.4543	1.6663	1.7999	1.9200	2.0644
11	11	.7740	.8691	.9568	1.0536	1.2561	1.4609	1.7490	2.0024	2.1641	2.3105	2.4830
12	12	1.0155	1.1155	1.2243	1.3474	1.6022	1.9101	2.2621	2.6220	2.8578	3.0747	3.3402
13	1	.0019	.0024	.0049	.0101	.0274	.0651	.1271	.2049	.2609	.3148	.3830
2	2	.0138	.0241	.0352	.0523	.0744	.1083	.1557	.3422	.4075	.4681	.5420
3	3	.0449	.0632	.0829	.1105	.1493	.2009	.2582	.4674	.5390	.6045	.6842
4	4	.0812	.1147	.1417	.1784	.2272	.2822	.3498	.5892	.6661	.7358	.8200
5	5	.1304	.1746	.2001	.2440	.2977	.3522	.4233	.7110	.7937	.8674	.9559
6	6	.2004	.2433	.2845	.3368	.3955	.4508	.5100	.8385	.9253	1.0032	1.0984

TABLE 3 Contd.

PERCENTILE POINTS OF THE CHI (1 D.F.) ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.975	.99
13	7	.2700	.3204	.3679	.4273	.5374	.6745	.8256	.9724	1.1471	1.2457
	8	.3490	.4067	.4604	.5260	.6484	.7976	.9605	1.1176	1.3040	1.4791
	9	.4387	.5040	.5642	.6381	.7717	.9342	1.1106	1.2801	1.4811	1.6745
	10	.5471	.6156	.6829	.7550	.9125	1.0910	1.2840	1.4698	1.6906	1.8154
	11	.6648	.7490	.8237	.9158	1.0808	1.2803	1.4867	1.7061	1.9567	2.0905
	12	.8189	1.0148	1.2090	1.4041	1.6987	1.7480	1.7480	2.0865	2.3215	2.5174
	13	1.0061	1.2157	1.4252	1.6347	1.9392	1.9548	2.2223	2.5491	2.8821	3.1624
14	1	.0009	.0023	.0046	.0094	.0255	.0606	.1184	.1912	.2428	.2945
	2	.0137	.0223	.0326	.0485	.0863	.1472	.2389	.3195	.3809	.4381
	3	.0314	.0584	.0767	.0923	.1570	.2359	.3345	.4361	.5035	.5607
	4	.0502	.0853	.1308	.1649	.2334	.3267	.4368	.4900	.6214	.6871
	5	.0721	.1206	.1926	.2342	.3148	.4203	.5413	.5619	.7389	.8217
	6	.1036	.1732	.2612	.3006	.4012	.5179	.6388	.7775	.8589	1.0105
	7	.1455	.2328	.3366	.3915	.5034	.6206	.7313	.8981	.9842	1.1532
	8	.1971	.3000	.4192	.4805	.6025	.7304	.8311	1.0267	1.1180	1.3067
	9	.2581	.3700	.5007	.5782	.7007	.8408	1.0116	1.1671	1.2644	1.4550
	10	.3283	.4519	.6028	.6872	.8200	.9827	1.1574	1.2951	1.4300	1.6256
	11	.4088	.5470	.7206	.8117	.9586	1.1357	1.3248	1.5104	1.6256	1.8246
	12	.5001	.6624	.8680	.9597	1.1235	1.3211	1.5351	1.7422	1.8727	2.1314
	13	.6033	.7924	1.0435	1.1487	1.3376	1.5674	1.8178	2.0678	2.2262	2.5347
	14	1.0796	1.1962	1.4028	1.4337	1.6733	1.9747	2.3200	2.6739	2.9063	3.3323
15	1	.0008	.0021	.0043	.0088	.0238	.0566	.1109	.1792	.2289	.2767
	2	.0128	.0208	.0304	.0452	.0805	.1376	.2143	.2997	.3577	.4118
	3	.0385	.0643	.0713	.0852	.1463	.2202	.3120	.4088	.4725	.5310
	4	.0745	.1078	.1214	.1332	.2173	.3047	.4083	.5141	.5825	.6447
	5	.1185	.1687	.1795	.1912	.2926	.3914	.5051	.6188	.6915	.7571
	6	.1695	.2362	.2415	.2566	.3721	.4813	.6042	.7253	.8020	.8709
	7	.2259	.3098	.3104	.3214	.4563	.5752	.7069	.8353	.9162	.9886
	8	.2907	.3966	.3853	.4020	.5461	.6745	.8151	.9512	1.0365	1.1034
	9	.3615	.4812	.4671	.4852	.6428	.7809	.9211	1.0754	1.1657	1.2424
	10	.4403	.5812	.5577	.5795	.7483	.8971	1.0577	1.2118	1.3080	1.3938
	11	.5289	.6963	.6577	.6846	.8659	1.0260	1.1900	1.3574	1.4696	1.5622
	12	.6303	.8249	.7726	.8044	1.0008	1.1765	1.3574	1.5474	1.6613	1.7729
	13	.7501	.9834	.9088	1.0000	1.1627	1.3485	1.5203	1.7052	1.8207	1.9404
	14	.9004	1.2055	1.0817	1.1851	1.3733	1.5600	1.7408	1.9265	2.0940	2.2590
	15	1.1162	1.5218	1.3376	1.4473	1.6466	1.8032	2.0000	2.1965	2.3928	2.5907
16	1	.0008	.0020	.0040	.0082	.0223	.0532	.1042	.1688	.2157	.2610
	2	.0120	.0194	.0284	.0423	.0755	.1291	.2014	.2822	.3371	.3885
	3	.0360	.0507	.0667	.0891	.1370	.2066	.2931	.3847	.4422	.5008
	4	.0695	.0912	.1134	.1431	.2033	.2855	.3833	.4834	.5484	.6075
	5	.1133	.1385	.1663	.2026	.2733	.3663	.4746	.5612	.6501	.7124
	6	.1574	.1916	.2247	.2658	.3470	.4497	.5656	.6800	.7527	.8190
	7	.2102	.2502	.2881	.3357	.4266	.5363	.6603	.7814	.8578	.9242
	8	.2685	.3140	.3566	.4095	.5068	.6271	.7592	.8871	1.0101	1.1248
	9	.3328	.3837	.4308	.4888	.5944	.7234	.8638	.9989	1.1389	1.2689

PERCENTILE POINTS OF THE CHI (1 D.F.) ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
16	10	.6035	.4508	.5115	.5748	.6888	.8270	.9764	1.1195	1.2089	1.2886	1.3837
	11	.4818	.5437	.6002	.6690	.7921	.9203	1.0998	1.2524	1.3777	1.4326	1.5330
	12	.5606	.6275	.6992	.7740	.9073	1.0672	1.2369	1.4032	1.5058	1.5974	1.7260
	13	.6699	.7447	.8124	.8942	1.0397	1.2140	1.4015	1.5813	1.6941	1.7949	1.9159
	14	.7883	.8715	.9466	1.0374	1.1988	1.3929	1.6028	1.8057	1.9337	2.0489	2.1876
	15	.9368	1.0315	1.1171	1.2208	1.4054	1.6319	1.8798	2.1731	2.3788	2.4202	2.5019
	16	1.1501	1.2649	1.3698	1.4984	1.7332	2.0296	2.3693	2.7192	2.9478	3.1594	3.4193
17	1	.0007	.0010	.0038	.0077	.0210	.0501	.0982	.1594	.2039	.2470	.3019
	2	.0112	.0183	.0267	.0398	.0710	.1216	.1900	.2665	.3188	.3677	.4284
	3	.0337	.0476	.0626	.0837	.1288	.1945	.2765	.3634	.4200	.4739	.5387
	4	.0651	.0855	.1063	.1343	.1910	.2686	.3612	.4664	.5181	.5744	.6428
	5	.1032	.1206	.1558	.1899	.2565	.3443	.4460	.5681	.6136	.6720	.7444
	6	.1469	.1700	.2100	.2497	.3252	.4221	.5318	.6464	.7094	.7715	.8461
	7	.1958	.2333	.2688	.3135	.3972	.5025	.6198	.7345	.8069	.8719	.9496
	8	.2406	.2922	.3320	.3816	.4730	.5863	.7109	.8318	.9078	.9756	1.0568
	9	.3084	.3650	.4000	.4543	.5532	.6745	.8066	.9338	1.0135	1.0846	1.1694
	10	.3727	.4251	.4733	.5323	.6389	.7682	.9011	1.0323	1.1261	1.2008	1.2898
	11	.4431	.4935	.5433	.6068	.7183	.8493	1.0018	1.1598	1.2483	1.3272	1.4213
	12	.5206	.5685	.6164	.6794	.7925	.9201	1.0784	1.2440	1.3401	1.4288	1.5383
	13	.6077	.6531	.6970	.7570	.8725	1.0044	1.1747	1.3747	1.5301	1.6298	1.7483
	14	.7049	.7488	.7918	.8494	.9757	1.1247	1.3345	1.6127	1.7243	1.8263	1.9441
	15	.8240	.8670	.9088	.9720	1.1247	1.3493	1.6328	1.8330	1.9608	2.0754	2.2124
	16	.9708	1.0650	1.1500	1.2530	1.4311	1.6607	1.9062	2.1777	2.3023	2.4437	2.6133
	17	1.1818	1.2957	1.3998	1.5274	1.7406	2.0542	2.3915	2.7482	2.9644	3.1770	3.4357
18	1	.0007	.0018	.0036	.0073	.0199	.0474	.0930	.1511	.1934	.2344	.2868
	2	.0106	.0172	.0252	.0375	.0671	.1149	.1798	.2527	.3024	.3490	.4070
	3	.0318	.0449	.0590	.0789	.1216	.1838	.2616	.3444	.3992	.4498	.5118
	4	.0612	.0804	.1000	.1265	.1801	.2537	.3416	.4322	.4911	.5449	.6102
	5	.0965	.1218	.1464	.1786	.2416	.3249	.4214	.5187	.5812	.6378	.7061
	6	.1378	.1680	.1972	.2346	.3059	.3978	.5020	.6053	.6711	.7303	.8016
	7	.1833	.2185	.2520	.2942	.3732	.4729	.5820	.6932	.7622	.8240	.8982
	8	.2332	.2732	.3107	.3574	.4437	.5508	.6689	.7936	.8557	.9202	.9974
	9	.2875	.3321	.3755	.4246	.5178	.6322	.7571	.8775	.9530	1.0203	1.1007
	10	.3465	.3956	.4407	.4961	.5961	.7180	.8499	.9764	1.0555	1.1259	1.2100
	11	.4105	.4641	.5137	.5729	.6801	.8095	.9488	1.0821	1.1651	1.2391	1.3273
	12	.4805	.5387	.5917	.6560	.7707	.9083	1.0559	1.1968	1.2845	1.3627	1.4558
	13	.5575	.6207	.6779	.7471	.8700	1.0169	1.1741	1.3240	1.4175	1.5007	1.6000
	14	.6425	.7121	.7741	.8487	.9811	1.1390	1.3070	1.4692	1.5700	1.6598	1.7673
	15	.7417	.8166	.8840	.9653	1.1091	1.2809	1.4651	1.6418	1.7525	1.8515	1.9704
	16	.8575	.9402	1.0147	1.1044	1.2636	1.4545	1.6607	1.8602	1.9861	2.0994	2.2350
	17	1.0027	1.0963	1.1809	1.2831	1.4658	1.6875	1.9310	2.1708	2.3243	2.4637	2.6333
	18	1.2114	1.3246	1.4279	1.5544	1.7858	2.0773	2.4122	2.7468	2.9840	3.1934	3.4512
19	1	.0007	.0017	.0034	.0069	.0188	.0449	.0883	.1435	.1838	.2230	.2731
	2	.0100	.0163	.0239	.0355	.0690	.1090	.1707	.2401	.2876	.3322	.3873
	3	.0300	.0424	.0558	.0746	.1151	.1742	.2483	.3272	.3797	.4280	.4874

PERCENTILE POINTS OF THE CHI (1 D.F.) COVER STATISTICS

W	Y	01	025	05	10	25	50	75	90	975	990
39	4	0539	0750	0905	1105	1703	2403	3241	4105	5183	5819
5	5	0591	1149	1382	2284	2784	3775	4906	6273	7857	9717
6	6	1797	1583	1959	2713	2885	3762	4754	5740	6935	8524
7	7	1773	2056	2337	2771	3520	4467	5526	6718	8115	9950
8	8	2190	2654	3004	3345	4179	5195	6328	7610	9098	11040
9	9	2393	2910	3264	3606	4488	5562	6737	8032	9500	11608
10	10	2327	2920	3270	3613	4504	5593	6777	8077	9561	11621
11	11	2454	3009	3356	3708	4643	5743	6907	8213	9690	11744
12	12	2644	3209	3556	3911	4838	5948	7121	8437	9904	11904
13	13	2818	3397	3744	4102	5084	6204	7387	8703	10164	12094
14	14	2971	3567	3914	4282	5339	6469	7652	8968	10424	12294
15	15	3127	3740	4087	4462	5597	6727	7910	9226	10684	12504
16	16	3283	3914	4261	4637	5772	6902	8085	9399	10944	12724
17	17	3439	4089	4436	4812	5947	7077	8260	9573	11204	12954
18	18	3595	4264	4611	5087	6122	7252	8435	9756	11464	13184
19	19	3751	4439	4786	5262	6347	7477	8660	9939	11724	13414
20	20	3907	4614	4961	5437	6522	7647	8830	10194	12004	13644
21	21	4063	4789	5134	5612	6697	7822	8983	10454	12264	13874
22	22	4219	4964	5309	5787	6872	7997	9144	10714	12524	14104
23	23	4375	5139	5484	5962	7047	8162	9305	10974	12784	14334
24	24	4531	5314	5659	6137	7222	8337	9466	11234	13044	14564
25	25	4687	5489	5834	6312	7397	8512	9627	11494	13304	14794
26	26	4843	5664	6009	6482	7572	8687	9788	11754	13564	15024
27	27	4999	5839	6184	6650	7747	8862	9949	12014	13824	15254
28	28	5155	6014	6359	6822	7922	9037	10110	12274	14084	15484
29	29	5311	6189	6534	6992	8097	9202	10271	12534	14344	15714
30	30	5467	6364	6709	7162	8257	9367	10432	12794	14604	15944
31	31	5623	6539	6884	7337	8422	9532	10593	13054	14864	16174
32	32	5779	6714	7059	7502	8587	9697	10754	13314	15124	16404
33	33	5935	6889	7234	7672	8752	9862	10915	13574	15384	16634
34	34	6091	7064	7409	7842	8917	10032	11076	13834	15644	16864
35	35	6247	7239	7584	8062	9082	10202	11237	14094	15904	17094
36	36	6403	7414	7759	8282	9247	10367	11398	14354	16164	17324
37	37	6559	7589	7934	8452	9412	10532	11559	14614	16424	17554
38	38	6715	7764	8109	8622	9577	10697	11714	14874	16684	17784
39	39	6871	7939	8284	8792	9742	10862	11875	15134	16944	18014
40	40	7027	8114	8461	8972	9922	11032	12045	15394	17204	18244
41	41	7183	8289	8634	9142	10072	11182	12195	15654	17464	18474
42	42	7339	8464	8809	9352	10227	11337	12350	15914	17724	18704
43	43	7495	8639	8984	9562	10392	11502	12515	16174	17984	18934
44	44	7651	8814	9159	9732	10557	11667	12679	16434	18244	19164
45	45	7807	8989	9334	9912	10722	11832	12843	16694	18504	19394
46	46	7963	9164	9509	10082	10887	12002	13007	16954	18764	19624
47	47	8119	9339	9684	10252	11052	12162	13167	17214	19024	19854
48	48	8275	9514	9859	10422	11212	12317	13322	17474	19284	20084
49	49	8431	9689	10034	10587	11377	12472	13477	17734	19544	20314
50	50	8587	9864	10209	10752	11542	12627	13632	17994	19804	20544
51	51	8743	10039	10384	10917	11707	12782	13787	18254	20064	20774
52	52	8899	10214	10559	11082	11872	12937	13942	18514	20324	21004
53	53	9055	10389	10734	11242	12027	13092	14097	18774	20584	21234
54	54	9211	10564	10909	11407	12182	13247	14252	19034	20844	21464
55	55	9367	10739	11084	11562	12337	13402	14407	19294	21104	21694
56	56	9523	10914	11259	11722	12492	13557	14562	19554	21364	21924
57	57	9679	11089	11434	11877	12647	13712	14717	19814	21624	22154
58	58	9835	11264	11609	12032	12802	13867	14872	20074	21884	22384
59	59	9991	11439	11784	12187	12957	14022	15027	20334	22144	22614
60	60	10147	11614	11959	12342	13112	14177	15182	20594	22404	22844
61	61	10303	11789	12134	12507	13267	14332	15337	20854	22664	23074
62	62	10459	11964	12309	12662	13422	14487	15492	21114	22924	23304
63	63	10615	12139	12484	12817	13577	14642	15647	21374	23184	23534
64	64	10771	12314	12659	12972	13732	14797	15802	21634	23444	23764
65	65	10927	12489	12834	13122	13887	14952	15957	21894	23704	23994
66	66	11083	12664	13009	13277	14042	15107	16112	22154	23964	24224
67	67	11239	12839	13184	13432	14197	15262	16267	22414	24224	24454
68	68	11395	13014	13359	13582	14352	15417	16422	22674	24484	24684
69	69	11551	13189	13534	13737	14507	15572	16577	22934	24744	24914
70	70	11707	13364	13709	13892	14662	15727	16732	23194	24904	25144
71	71	11863	13539	13884	14042	14817	15882	16887	23454	25164	25374
72	72	12019	13714	14059	14197	14972	16037	17042	23714	25424	25604
73	73	12175	13889	14234	14352	15122	16192	17197	23974	25684	25834
74	74	12331	14064	14409	14507	15277	16347	17352	24234	25944	26064
75	75	12487	14239	14584	14662	15432	16502	17507	24494	26204	26294
76	76	12643	14414	14759	14817	15587	16657	17662	24754	26464	26524
77	77	12799	14589	14934	14972	15742	16812	17817	25014	26724	26754
78	78	12955	14764	15109	15122	15897	16962	17972	25274	26984	26984
79	79	13111	14939	15284	15277	16052	17117	18127	25534	27244	27214
80	80	13267	15114	15459	15432	16207	17272	18282	25794	27504	27444
81	81	13423	15289	15634	15582	16392	17427	18437	26054	27764	27674
82	82	13579	15464	15809	15737	16577	17582	18592	26314	28024	27904
83	83	13735	15639	15984	15882	16762	17737	18747	26574	28284	28134
84	84	13891	15814	16159	16032	16947	17892	18902	26834	28544	28364
85	85	14047	15989	16334	16182	17132	18047	19057	27094	28804	28594
86	86	14203	16164	16509	16332	17317	18192	19212	27354	29064	28824
87	87	14359	16339	16684	16477	17492	18347	19367	27614	29324	29054
88	88	14515	16514	16859	16622	17672	18492	19522	27874	29584	29284
89	89	14671	16689	17034	16762	17852	18647	19677	28134	29844	29514
90	90	14827	16864	17209	16907	18032	18792	19832	28394	30104	29744
91	91	14983	17039	17384	17052	18212	18937	19987	28654	30364	29974
92	92	15139	17214	17559	17197	18392	19082	20142	28914	30624	30204
93	93	15295	17389	17734	17342	18572	19227	20297	29174	30884	30434
94	94	15451	17564	17909	17482	18752	19372	20452	29434	31144	30664
95	95	15607	17739	18084	17622	18932	19517	20607	29694	31404	30894
96	96	15763	17914	18259	17762	19112	19662	20762	29954	31664	31124
97	97	15919	18089	18434	17907	19292	19807	20917	30214	31924	31354
98	98	16075	18264	18609	18042	19472	19952	21072	30474	32184	31584
99	99	16231	18439	18784	18182	19652	20097	21227	30734	32444	31814
100	100	16387	18614	18959	18322	19832	20242	21382	30994	32704	32044

PERCENTILE POINTS OF THE CHI (1 D.F.) ORDER STATISTICS

N	I	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
21	11	.3374	.3824	.4236	.4739	.5666	.6745	.7972	.9070	.9779	1.0411	1.1165
	12	.3917	.4402	.4846	.5382	.6364	.7502	.8746	.9674	1.0474	1.1132	1.2116
	13	.4439	.5070	.5603	.6165	.7288	.8504	.9810	1.0853	1.1626	1.2373	1.3132
	14	.4977	.5665	.6300	.6908	.8177	.9544	1.0948	1.2025	1.2781	1.3543	1.4273
	15	.5539	.6285	.6965	.7602	.8983	1.1129	1.2669	1.4134	1.5045	1.5857	1.6560
	16	.6117	.6925	.7653	.8344	.9863	1.2294	1.4227	1.5505	1.6482	1.7302	1.8041
	17	.6712	.7582	.8368	.9097	1.0775	1.3555	1.5856	1.7181	1.8263	1.9231	2.0093
	18	.7324	.8254	.9097	1.0000	1.1744	1.5028	1.7745	1.9295	2.0527	2.1637	2.2576
	19	.7956	.8944	.9847	1.0826	1.2671	1.6586	1.9720	2.1320	2.2682	2.3826	2.4864
	20	1.0674	1.1766	1.2869	1.4079	1.6417	2.0385	2.3575	2.6067	2.8307	3.0378	3.2325
	21	1.2974	1.4015	1.5076	1.6265	1.8640	2.2185	2.5475	2.8467	3.1602	3.4947	3.7990
	22	.3086	.3514	.3929	.4360	.5363	.6543	.7866	.9000	.9799	1.0411	1.1165
	23	.3588	.4064	.4470	.4922	.5992	.7288	.8746	.9674	1.0474	1.1132	1.2116
	24	.4094	.4611	.5053	.5532	.6664	.8004	.9544	1.0853	1.1626	1.2373	1.3132
	25	.4617	.5174	.5653	.6165	.7368	.8746	1.0348	1.2025	1.2781	1.3543	1.4273
	26	.5156	.5754	.6273	.6822	.8100	.9544	1.1227	1.3025	1.3781	1.4543	1.5273
	27	.5712	.6350	.6908	.7508	.8863	1.0404	1.2181	1.4079	1.4835	1.5597	1.6327
	28	.6284	.6962	.7550	.8188	.9643	1.1284	1.3161	1.5079	1.5835	1.6597	1.7327
	29	.6872	.7590	.8208	.8866	1.0421	1.2162	1.4079	1.5997	1.6753	1.7515	1.8245
	30	.7476	.8234	.8882	.9580	1.1135	1.2976	1.4903	1.6821	1.7577	1.8339	1.9069
	31	.8094	.8892	.9580	1.0318	1.1873	1.3814	1.5841	1.7759	1.8515	1.9277	2.0007
	32	.8726	.9564	1.0292	1.1070	1.2625	1.4566	1.6593	1.8511	1.9267	2.0029	2.0759
	33	.9372	1.0250	1.0978	1.1806	1.3361	1.5302	1.7329	1.9247	2.0003	2.0765	2.1495
	34	1.0032	1.0950	1.1678	1.2546	1.4101	1.6042	1.8069	2.0003	2.0765	2.1527	2.2257
	35	1.0704	1.1662	1.2390	1.3308	1.4863	1.6804	1.8831	2.0765	2.1527	2.2289	2.3019
	36	1.1386	1.2384	1.3112	1.4070	1.5625	1.7566	1.9593	2.1527	2.2289	2.3051	2.3781
	37	1.2078	1.3116	1.3844	1.4842	1.6397	1.8338	2.0365	2.2289	2.3051	2.3813	2.4543
	38	1.2780	1.3858	1.4586	1.5624	1.7179	1.9120	2.1147	2.3051	2.3813	2.4575	2.5305
	39	1.3492	1.4610	1.5338	1.6376	1.7931	1.9872	2.1899	2.3813	2.4575	2.5337	2.6067
	40	1.4214	1.5372	1.6100	1.7138	1.8693	2.0634	2.2661	2.4575	2.5337	2.6099	2.6829
	41	1.4946	1.6144	1.6872	1.7910	1.9465	2.1406	2.3433	2.5337	2.6099	2.6861	2.7591
	42	1.5688	1.6926	1.7654	1.8692	2.0247	2.2188	2.4215	2.6099	2.6861	2.7623	2.8353
	43	1.6440	1.7718	1.8446	1.9484	2.1039	2.2980	2.5007	2.6861	2.7623	2.8385	2.9115
	44	1.7192	1.8510	1.9238	2.0276	2.1831	2.3772	2.5799	2.7623	2.8385	2.9147	2.9877
	45	1.7954	1.9312	1.9990	2.1028	2.2583	2.4524	2.6551	2.8385	2.9147	2.9909	3.0639
	46	1.8726	2.0124	2.0802	2.1840	2.3395	2.5336	2.7363	2.9147	2.9909	3.0671	3.1401
	47	1.9508	2.0946	2.1624	2.2662	2.4217	2.6158	2.8185	2.9909	3.0671	3.1433	3.2163
	48	2.0290	2.1768	2.2446	2.3484	2.5039	2.6980	2.8997	3.0671	3.1433	3.2195	3.2925
	49	2.1082	2.2600	2.3278	2.4316	2.5871	2.7812	2.9819	3.1433	3.2195	3.2957	3.3687
	50	2.1884	2.3442	2.4120	2.5158	2.6713	2.8654	3.0661	3.2195	3.2957	3.3719	3.4449
	51	2.2696	2.4294	2.4972	2.6010	2.7565	2.9506	3.1493	3.2957	3.3719	3.4481	3.5211
	52	2.3518	2.5156	2.5834	2.6872	2.8427	3.0367	3.2333	3.3719	3.4481	3.5243	3.5973
	53	2.4350	2.6028	2.6706	2.7744	2.9299	3.1228	3.3161	3.4481	3.5243	3.6005	3.6735
	54	2.5192	2.6900	2.7578	2.8616	3.0151	3.2073	3.3955	3.5243	3.6005	3.6767	3.7497
	55	2.6044	2.7782	2.8460	2.9498	3.1003	3.2878	3.4741	3.6005	3.6767	3.7529	3.8259
	56	2.6906	2.8684	2.9362	3.0400	3.1895	3.3723	3.5585	3.6767	3.7529	3.8291	3.9021
	57	2.7778	2.9606	3.0284	3.1322	3.2817	3.4598	3.6401	3.7529	3.8291	3.9053	3.9783
	58	2.8660	3.0528	3.1206	3.2244	3.3739	3.5440	3.7183	3.8291	3.9053	3.9815	4.0545
	59	2.9552	3.1460	3.2138	3.3176	3.4671	3.6372	3.7967	3.9053	3.9815	4.0577	4.1307
	60	3.0464	3.2402	3.3080	3.4118	3.5613	3.7306	3.8891	3.9815	4.0577	4.1339	4.2069
	61	3.1396	3.3374	3.4052	3.5090	3.6585	3.8278	3.9863	4.0577	4.1339	4.2101	4.2831
	62	3.2348	3.4366	3.5044	3.6082	3.7577	3.9268	4.0853	4.1339	4.2101	4.2863	4.3593
	63	3.3320	3.5384	3.6062	3.7100	3.8595	4.0283	4.1869	4.2101	4.2863	4.3625	4.4355
	64	3.4312	3.6416	3.7094	3.8132	3.9627	4.1314	4.2895	4.2863	4.3625	4.4387	4.5117
	65	3.5324	3.7468	3.8146	3.9184	4.0679	4.2355	4.3941	4.3625	4.4387	4.5149	4.5879
	66	3.6356	3.8540	3.9218	4.0256	4.1751	4.3406	4.4991	4.4387	4.5149	4.5911	4.6641
	67	3.7408	3.9632	4.0310	4.1348	4.2843	4.4401	4.5987	4.5149	4.5911	4.6673	4.7403
	68	3.8480	4.0744	4.1422	4.2460	4.3955	4.5456	4.7041	4.5911	4.6673	4.7435	4.8165
	69	3.9572	4.1886	4.2564	4.3602	4.5097	4.6567	4.8153	4.6673	4.7435	4.8197	4.8927
	70	4.0684	4.3058	4.3736	4.4774	4.6269	4.7780	4.9291	4.7435	4.8197	4.8959	4.9689
	71	4.1816	4.4250	4.4928	4.5966	4.7461	4.8972	5.0483	4.8197	4.8959	4.9721	5.0451
	72	4.2968	4.5472	4.6150	4.7188	4.8683	5.0194	5.1705	4.8959	4.9721	5.0483	5.1213
	73	4.4140	4.6724	4.7402	4.8440	4.9945	5.1506	5.3017	4.9721	5.0483	5.1245	5.1975
	74	4.5332	4.8006	4.8684	4.9722	5.1227	5.2738	5.4249	5.0483	5.1245	5.2007	5.2737
	75	4.6544	4.9258	4.9936	5.0974	5.2481	5.3992	5.5503	5.1245	5.2007	5.2769	5.3500
	76	4.7776	5.0540	5.1218	5.2256	5.3761	5.5263	5.6774	5.2007	5.2769	5.3531	5.4261
	77	4.9028	5.1842	5.2520	5.3558	5.5063	5.6574	5.8085	5.2769	5.3531	5.4293	5.5023
	78	5.0300	5.3134	5.3812	5.4850	5.6355	5.7866	5.9377	5.3531	5.4293	5.5055	5.5785
	79	5.1592	5.4466	5.5144	5.6182	5.7687	5.9198	6.0709	5.4293	5.5055	5.5817	5.6547
	80	5.2904	5.5818	5.6496	5.7534	5.9039	6.0550	6.2061	5.5055	5.5817	5.6579	5.7309
	81	5.4236	5.7190	5.7868	5.8906	6.0411	6.1922	6.3433	5.5817	5.6579	5.7341	5.8071
	82	5.5588	5.8582	5.9260	6.0298	6.1793	6.3304	6.4815	5.6579	5.7341	5.8103	5.8833
	83	5.6960	5.9994	6.0672	6.1710	6.3205	6.4716	6.6227	5.7341	5.8103	5.8865	5.9595
	84	5.8352	6.1426	6.2104	6.3142	6.4637	6.6148	6.7659	5.8103	5.8865	5.9627	6.0357
	85	5.9764	6.2878	6.3556	6.4594	6.6083	6.7594	6.9105	5.8865	5.9627	6.0389	6.1119
	86	6.1196	6.4360	6.5038	6.6076	6.7571	6.9082	7.0593	5.9627	6.0389	6.1151	6.1881
	87	6.2648	6.5854	6.6532	6.7570	6.9065	7.0576	7.2087	6.0389	6.1151	6.1913	6.2643
	88	6.4120	6.7386	6.8064	6.9102	7.0597	7.2098	7.3609	6.1151	6.1913	6.2675	6.3405
	89	6.5612	6.8910	6.9588	7.0626	7.2121	7.3622	7.5133	6.1913	6.2675	6.3437	6.4167
	90	6.7124	7.0466	7.1144	7.2182	7.3677	7.5178	7.6689	6.2675	6.3437	6.4200	6.4930
	91	6.8656	7.2038	7.2716	7.3754	7.5249	7.6750	7.8261	6.3437	6.4200	6.4962	6.5692
	92	7.0208	7.3630	7.4308	7.5346	7.6841	7.8342	7.9853	6.4200	6.4962	6.5724	6.6454
	93	7.1780	7.5242	7.5920	7.6958	7.8453	7.9954	8.1465	6.4962	6.5724	6.6486	6.7216
	94	7.3372	7.6874	7.7552	7.8590	8.0085	8.1586	8.3097	6.5724	6.6486	6.7248	6.7978
	95	7.4984	7.8516	7.9194	8.0232	8.1727	8.3228	8.4739	6.6486	6.7248	6.8010	6.8740
	96	7.6616	8.0178	8.0856	8.1894	8.3389	8.4890	8.6401	6.7248	6.8010	6.8772	6.9502
	97	7.8268	8.1860	8.2538	8.3576	8.5071	8.6572	8.8083	6.8010	6.8772	6.9534	7.0264
	98	7.9940	8.3562	8.4240	8.5278	8.6773	8.8274	8.9785	6.8772	6.9534	7.0296	7.1026
	99	8.1632	8.5294	8.5972	8.6990	8.8485	8.9986	9.1497	6.9534	7.0296	7.1058	7.1788
	100	8.3344	8.7046	8.7724	8.8742	9.0237	9.1738	9.3249	7.0296	7.1058	7.1820	7.2550

PERCENTILE POINTS OF THE CHI 11 D.F. ORDER STATISTICS

N	I	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
23	14	.4536	.5035	.5488	.5934	.7005	.8163	.9400	1.0575	1.1306	1.1954	1.2726
	15	.5109	.5641	.6121	.6599	.7777	.8937	1.0231	1.1459	1.2222	1.2899	1.3705
	16	.5727	.6307	.6801	.7281	.8501	.9760	1.1127	1.2415	1.3222	1.3925	1.4771
	17	.6396	.6998	.7538	.8035	.9285	1.0674	1.2106	1.3454	1.4308	1.5059	1.5962
	18	.7131	.7772	.8347	.8835	1.0125	1.1676	1.3196	1.4640	1.5539	1.6339	1.7293
	19	.7949	.8636	.9241	.9786	1.1120	1.2811	1.4442	1.5995	1.6954	1.7792	1.8861
	20	.8882	.9624	1.0317	1.0981	1.2360	1.4161	1.5917	1.7619	1.8686	1.9442	2.0789
	21	.9983	1.0705	1.1427	1.2104	1.3526	1.5380	1.7249	1.9094	2.0111	2.1009	2.2332
	22	1.1367	1.2270	1.3100	1.3890	1.5375	1.7297	1.9251	2.1164	2.2189	2.3066	2.4413
	23	1.3353	1.4460	1.5450	1.6333	1.8025	2.0142	2.2797	2.5434	2.6581	2.7636	2.9168
24	1	.0005	.0013	.0027	.0055	.0149	.0357	.0704	.1159	.1676	.1795	.2206
	2	.0079	.0129	.0188	.0281	.0533	.0865	.1362	.1925	.2513	.2679	.3127
	3	.0236	.0393	.0548	.0740	.0990	.1381	.1979	.2622	.3052	.3451	.3943
	4	.0451	.0694	.0938	.1199	.1474	.1872	.2374	.2886	.3249	.3614	.4083
	5	.0710	.0895	.1079	.1319	.1563	.1929	.2366	.2772	.3088	.3415	.3821
	6	.1004	.1228	.1445	.1725	.2025	.2363	.2766	.3142	.3424	.3726	.4115
	7	.1328	.1588	.1846	.2151	.2456	.2815	.3196	.3520	.3750	.4018	.4381
	8	.1677	.1972	.2269	.2597	.2874	.3208	.3518	.3782	.4014	.4236	.4521
	9	.2052	.2378	.2683	.3062	.3360	.3654	.3918	.4142	.4336	.4518	.4773
	10	.2450	.2807	.3139	.3457	.3725	.4008	.4252	.4457	.4624	.4768	.4945
	11	.2871	.3259	.3616	.3953	.4243	.4484	.4688	.4857	.4996	.5117	.5245
	12	.3318	.3737	.4117	.4482	.4747	.4925	.5075	.5198	.5296	.5377	.5445
	13	.3790	.4237	.4643	.5016	.5294	.5498	.5625	.5725	.5806	.5877	.5935
	14	.4291	.4767	.5198	.5579	.5864	.6075	.6212	.6296	.6356	.6407	.6455
	15	.4824	.5330	.5785	.6185	.6491	.6725	.6897	.7003	.7054	.7097	.7135
	16	.5393	.5920	.6412	.6891	.7288	.7625	.7825	.7942	.8003	.8046	.8083
	17	.6005	.6574	.7083	.7559	.7956	.8294	.8494	.8612	.8663	.8697	.8726
	18	.6669	.7272	.7812	.8299	.8706	.8956	.9112	.9198	.9249	.9283	.9312
	19	.7396	.8038	.8612	.9098	.9506	.9756	.9894	.9962	.9996	.9999	1.0000
	20	.8207	.8893	.9506	1.0240	1.0974	1.1608	1.2142	1.2576	1.2910	1.3154	1.3398
	21	.9131	.9877	1.0532	1.1322	1.2056	1.2734	1.3356	1.3920	1.4434	1.4907	1.5340
	22	1.0223	1.1033	1.1755	1.2623	1.3456	1.4256	1.5024	1.5762	1.6470	1.7157	1.7823
	23	1.1595	1.2563	1.3310	1.4203	1.5050	1.5875	1.6688	1.7490	1.8282	1.9064	1.9836
	24	1.3576	1.4666	1.5650	1.6676	1.7610	1.8550	1.9497	2.0452	2.1416	2.2389	2.3361
25	1	.0005	.0013	.0026	.0053	.0143	.0343	.0677	.1105	.1620	.1728	.2124
	2	.0076	.0123	.0181	.0269	.0483	.0831	.1309	.1851	.2226	.2579	.3022
	3	.0226	.0319	.0420	.0553	.0827	.1277	.1902	.2522	.2937	.3299	.3793
	4	.0457	.0657	.0890	.1164	.1584	.2166	.2799	.3381	.3806	.4018	.4521
	5	.0710	.0943	.1217	.1532	.1969	.2561	.3194	.3766	.4256	.4689	.5214
	6	.0983	.1256	.1571	.1928	.2406	.2924	.3491	.4016	.4506	.4952	.5453
	7	.1286	.1600	.1925	.2282	.2769	.3296	.3872	.4406	.4896	.5345	.5853
	8	.1621	.1977	.2342	.2736	.3254	.3816	.4431	.5006	.5540	.6043	.6523
	9	.1986	.2380	.2793	.3226	.3778	.4360	.4981	.5550	.6084	.6587	.7063
	10	.2381	.2813	.3254	.3706	.4286	.4904	.5569	.6180	.6754	.7297	.7810
	11	.2806	.3277	.3758	.4229	.4828	.5474	.6176	.6832	.7453	.8047	.8615
	12	.3261	.3761	.4271	.4761	.5388	.6062	.6792	.7476	.8122	.8740	.9331
	13	.3746	.4285	.4834	.5313	.5978	.6680	.7438	.8152	.8830	.9474	1.0090
	14	.4261	.4839	.5416	.5934	.6636	.7388	.8190	.8962	.9704	1.0427	1.1131
	15	.4806	.5423	.6040	.6607	.7350	.8142	.8984	.9786	1.0558	1.1301	1.2025
	16	.5381	.6037	.6703	.7319	.8112	.8914	.9766	1.0578	1.1350	1.2093	1.2817
	17	.6005	.6709	.7423	.8089	.8922	.9784	1.0696	1.1568	1.2400	1.3193	1.3957
	18	.6669	.7413	.8166	.8881	.9754	1.0696	1.1698	1.2660	1.3592	1.4495	1.5369
	19	.7396	.8189	.8992	.9754	1.0696	1.1758	1.2820	1.3882	1.4854	1.5837	1.6731
	20	.8207	.9050	.9903	1.0765	1.1857	1.2970	1.4094	1.5228	1.6270	1.7322	1.8284
	21	.9131	.9974	1.0877	1.1799	1.2952	1.4134	1.5336	1.6558	1.7690	1.8832	1.9884
	22	1.0223	1.1116	1.2059	1.3011	1.4103	1.5246	1.6440	1.7684	1.8878	1.9990	2.1112
	23	1.1595	1.2563	1.3310	1.4203	1.5050	1.5875	1.6688	1.7490	1.8282	1.9064	1.9836
	24	1.3576	1.4666	1.5650	1.6676	1.7610	1.8550	1.9497	2.0452	2.1416	2.2389	2.3361

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TABLE 3 Contd.

PERCENTILE POINTS OF THE CHI-SQUARE STATISTIC

	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
1	6.635	7.879	10.828	13.277	16.013	19.423	21.024	22.767	24.001	25.188	26.191
2	5.991	7.378	9.550	12.138	14.443	17.023	18.475	19.913	21.024	22.179	23.191
3	5.408	6.941	9.348	11.341	13.277	15.758	17.151	18.475	19.591	20.718	21.667
4	4.878	6.576	8.996	10.921	12.838	15.308	16.691	17.999	19.023	20.154	21.064
5	4.351	6.256	8.717	10.591	12.567	15.088	16.449	17.709	18.758	19.883	20.757
6	3.940	5.964	8.454	10.302	12.338	14.838	16.256	17.454	18.551	19.675	20.521
7	3.599	5.697	8.202	10.042	12.125	14.641	16.061	17.256	18.354	19.478	20.318
8	3.357	5.455	7.963	9.801	11.925	14.447	15.867	17.059	18.159	19.280	20.119
9	3.153	5.239	7.746	9.587	11.727	14.266	15.686	16.876	17.967	19.083	19.924
10	2.979	5.042	7.551	9.388	11.541	14.096	15.516	16.706	17.779	18.896	19.736
11	2.826	4.861	7.376	9.202	11.367	13.936	15.356	16.546	17.591	18.718	19.551
12	2.683	4.695	7.214	9.037	11.204	13.786	15.206	16.386	17.413	18.541	19.371
13	2.549	4.543	7.063	8.882	11.051	13.646	15.066	16.236	17.235	18.363	19.191
14	2.424	4.404	6.921	8.737	10.906	13.516	14.936	16.086	17.057	18.185	19.011
15	2.307	4.276	6.790	8.601	10.771	13.396	14.816	15.936	16.879	18.007	18.831
16	2.197	4.157	6.668	8.474	10.644	13.286	14.706	15.806	16.701	17.829	18.651
17	2.094	4.046	6.554	8.355	10.525	13.186	14.606	15.686	16.531	17.651	18.471
18	1.997	3.942	6.448	8.244	10.414	13.096	14.516	15.586	16.371	17.483	18.291
19	1.906	3.845	6.349	8.141	10.311	13.016	14.436	15.506	16.213	17.315	18.111
20	1.820	3.754	6.257	8.045	10.216	12.946	14.366	15.436	16.053	17.157	17.931
21	1.739	3.668	6.171	7.956	10.128	12.886	14.306	15.376	15.903	17.007	17.751
22	1.662	3.587	6.090	7.873	10.046	12.836	14.256	15.326	15.753	16.857	17.571
23	1.589	3.511	6.014	7.796	9.970	12.796	14.216	15.286	15.613	16.717	17.391
24	1.520	3.439	5.942	7.724	9.901	12.766	14.186	15.256	15.483	16.577	17.211
25	1.455	3.371	5.874	7.657	9.837	12.746	14.166	15.236	15.353	16.437	17.031
26	1.393	3.307	5.810	7.594	9.777	12.736	14.146	15.216	15.233	16.297	16.851
27	1.334	3.246	5.749	7.535	9.721	12.736	14.126	15.196	15.113	16.157	16.671
28	1.278	3.188	5.691	7.479	9.668	12.746	14.106	15.176	15.003	16.017	16.491
29	1.224	3.133	5.636	7.425	9.618	12.756	14.086	15.156	14.893	15.877	16.311
30	1.172	3.080	5.583	7.373	9.570	12.776	14.066	15.136	14.783	15.737	16.131
31	1.121	3.029	5.532	7.322	9.524	12.796	14.046	15.116	14.673	15.597	15.951
32	1.071	2.980	5.482	7.272	9.480	12.816	14.026	15.096	14.563	15.457	15.771
33	1.022	2.932	5.434	7.223	9.437	12.836	14.006	15.076	14.453	15.317	15.591
34	0.974	2.885	5.387	7.175	9.395	12.856	13.986	15.056	14.343	15.177	15.411
35	0.927	2.839	5.341	7.128	9.354	12.876	13.966	15.036	14.233	15.037	15.231
36	0.881	2.794	5.296	7.082	9.314	12.896	13.946	15.016	14.123	14.897	15.051
37	0.836	2.750	5.252	7.037	9.274	12.916	13.926	14.996	14.013	14.757	14.871
38	0.791	2.707	5.209	6.992	9.235	12.936	13.906	14.976	13.903	14.617	14.691
39	0.747	2.664	5.167	6.948	9.196	12.956	13.886	14.956	13.793	14.477	14.511
40	0.703	2.622	5.125	6.905	9.158	12.976	13.866	14.936	13.683	14.337	14.331
41	0.660	2.580	5.084	6.863	9.120	12.996	13.846	14.916	13.573	14.197	14.151
42	0.617	2.539	5.043	6.821	9.082	13.016	13.826	14.896	13.463	14.057	13.971
43	0.575	2.498	5.002	6.780	9.045	13.036	13.806	14.876	13.353	13.917	13.791
44	0.533	2.457	4.962	6.739	9.008	13.056	13.786	14.856	13.243	13.777	13.611
45	0.492	2.417	4.922	6.698	8.972	13.076	13.766	14.836	13.133	13.637	13.431
46	0.451	2.377	4.882	6.657	8.936	13.096	13.746	14.816	13.023	13.497	13.251
47	0.410	2.337	4.842	6.616	8.900	13.116	13.726	14.796	12.913	13.357	13.071
48	0.370	2.297	4.802	6.575	8.865	13.136	13.706	14.776	12.803	13.217	12.891
49	0.330	2.257	4.762	6.535	8.830	13.156	13.686	14.756	12.693	13.077	12.711
50	0.290	2.217	4.722	6.494	8.795	13.176	13.666	14.736	12.583	12.937	12.531
51	0.250	2.177	4.682	6.454	8.760	13.196	13.646	14.716	12.473	12.797	12.351
52	0.210	2.137	4.642	6.413	8.725	13.216	13.626	14.696	12.363	12.657	12.171
53	0.170	2.097	4.602	6.373	8.690	13.236	13.606	14.676	12.253	12.517	11.991
54	0.130	2.057	4.562	6.332	8.655	13.256	13.586	14.656	12.143	12.377	11.811
55	0.090	2.017	4.522	6.292	8.620	13.276	13.566	14.636	12.033	12.237	11.631
56	0.050	1.977	4.482	6.251	8.585	13.296	13.546	14.616	11.923	12.097	11.451
57	0.010	1.937	4.442	6.211	8.550	13.316	13.526	14.596	11.813	11.957	11.271
58		1.897	4.402	6.170	8.515	13.336	13.506	14.576	11.703	11.817	11.091
59		1.857	4.362	6.130	8.480	13.356	13.486	14.556	11.593	11.677	10.911
60		1.817	4.322	6.089	8.445	13.376	13.466	14.536	11.483	11.537	10.731
61		1.777	4.282	6.049	8.410	13.396	13.446	14.516	11.373	11.397	10.551
62		1.737	4.242	6.008	8.375	13.416	13.426	14.496	11.263	11.257	10.371
63		1.697	4.202	5.968	8.340	13.436	13.406	14.476	11.153	11.117	10.191
64		1.657	4.162	5.927	8.305	13.456	13.386	14.456	11.043	10.977	10.011
65		1.617	4.122	5.887	8.270	13.476	13.366	14.436	10.933	10.837	9.831
66		1.577	4.082	5.846	8.235	13.496	13.346	14.416	10.823	10.697	9.651
67		1.537	4.042	5.806	8.200	13.516	13.326	14.396	10.713	10.557	9.471
68		1.497	4.002	5.765	8.165	13.536	13.306	14.376	10.603	10.417	9.291
69		1.457	3.962	5.725	8.130	13.556	13.286	14.356	10.493	10.277	9.111
70		1.417	3.922	5.684	8.095	13.576	13.266	14.336	10.383	10.137	8.931
71		1.377	3.882	5.643	8.060	13.596	13.246	14.316	10.273	10.007	8.751
72		1.337	3.842	5.603	8.025	13.616	13.226	14.296	10.163	9.867	8.571
73		1.297	3.802	5.562	7.990	13.636	13.206	14.276	10.053	9.727	8.391
74		1.257	3.762	5.522	7.955	13.656	13.186	14.256	9.943	9.587	8.211
75		1.217	3.722	5.481	7.920	13.676	13.166	14.236	9.833	9.447	8.031
76		1.177	3.682	5.441	7.885	13.696	13.146	14.216	9.723	9.307	7.851
77		1.137	3.642	5.400	7.850	13.716	13.126	14.196	9.613	9.167	7.671
78		1.097	3.602	5.360	7.815	13.736	13.106	14.176	9.503	9.027	7.491
79		1.057	3.562	5.319	7.780	13.756	13.086	14.156	9.393	8.887	7.311
80		1.017	3.522	5.279	7.745	13.776	13.066	14.136	9.283	8.747	7.131
81		0.977	3.482	5.238	7.710	13.796	13.046	14.116	9.173	8.607	6.951
82		0.937	3.442	5.198	7.675	13.816	13.026	14.096	9.063	8.467	6.771
83		0.897	3.402	5.157	7.640	13.836	13.006	14.076	8.953	8.327	6.591
84		0.857	3.362	5.117	7.605	13.856	12.986	14.056	8.843	8.187	6.411
85		0.817	3.322	5.076	7.570	13.876	12.966	14.036	8.733	8.047	6.231
86		0.777	3.282	5.036	7.535	13.896	12.946	14.016	8.623	7.907	6.051
87		0.737	3.242	5.000	7.500	13.916	12.926	14.000	8.513	7.767	5.871
88		0.697	3.202	4.959	7.465	13.936	12.906	13.980	8.403	7.627	5.691
89		0.657	3.162	4.919	7.430	13.956	12.886	13.960	8.293	7.487	5.511
90		0.617	3.122	4.878	7.395	13.976	12.866	13.940	8.183	7.347	5.331
91		0.577	3.082	4.838	7.360	13.996	12.846	13.920	8.073	7.207	5.151
92		0.537	3.042	4.797	7.325	14.016	12.826	13.900	7.963	7.067	4.971
93		0.497	3.002	4.757	7.290	14.036	12.806	13.880	7.853	6.927	4.791
94		0.457	2.962	4.716	7.255	14.056	12.786	13.860	7.743	6.787	4.611
95		0.417	2.922	4.676	7.220	14.076	12.766	13.840	7.633	6.647	4.431
96		0.377	2.882	4.635	7.185	14.096	12.746	13.820	7.523	6.507	4.251
97		0.337	2.842	4.595	7.150	14.116	12.726	13.800	7.413	6.367	4.071
9											

PERCENTILE POINTS OF THE CHI (1 D.F.) GROUP STATISTICS

N	1	401	.025	.05	.10	.25	.50	.75	.90	.975	.99
27	8	.1472	.1732	.1978	.2287	.2664	.3592	.4706	.5714	.6171	.6720
	9	.1796	.2085	.2356	.2692	.3113	.3885	.4900	.5901	.6373	.7000
	10	.2160	.2456	.2749	.3111	.3573	.4389	.5483	.6475	.6958	.7585
	11	.2502	.2844	.3159	.3546	.4048	.4910	.6027	.6996	.7481	.8100
	12	.2882	.3250	.3586	.3997	.4537	.5434	.6580	.7536	.8023	.8650
	13	.3297	.3674	.4031	.4466	.5042	.6000	.7187	.8115	.8603	.9230
	14	.3751	.4118	.4496	.4953	.5569	.6584	.7800	.8695	.9183	.9810
	15	.4245	.4623	.5021	.5494	.6152	.7212	.8457	.9342	.9830	1.0460
	16	.4780	.5178	.5598	.6092	.6800	.7912	.9197	.9982	1.0470	1.1100
	17	.5368	.5788	.6228	.6751	.7512	.8672	.9997	1.0682	1.1190	1.1820
	18	.6018	.6458	.6918	.7471	.8300	.9512	1.0877	1.1562	1.2070	1.2700
	19	.6748	.7208	.7688	.8271	.9150	1.0412	1.1827	1.2512	1.3020	1.3650
	20	.7578	.8058	.8558	.9171	1.0100	1.1412	1.2877	1.3562	1.4070	1.4700
	21	.8518	.9018	.9538	1.0181	1.1150	1.2512	1.4027	1.4712	1.5220	1.5850
	22	.9578	1.0098	1.0638	1.1311	1.2320	1.3732	1.5307	1.6002	1.6510	1.7140
	23	1.0768	1.1308	1.1868	1.2581	1.3630	1.5102	1.6727	1.7432	1.7940	1.8570
	24	1.2098	1.2658	1.3238	1.3981	1.5080	1.6622	1.8307	1.9022	1.9530	2.0160
	25	1.3578	1.4158	1.4758	1.5521	1.6680	1.8282	2.0027	2.0742	2.1250	2.1880
	26	1.5218	1.5818	1.6438	1.7221	1.8440	2.0102	2.1887	2.2602	2.3110	2.3740
	27	1.6998	1.7618	1.8258	1.9071	2.0340	2.2042	2.3867	2.4582	2.5090	2.5720
28	1	.0004	.0011	.0023	.0047	.0092	.0172	.0326	.0591	.0856	.1121
	2	.0048	.0117	.0211	.0360	.0573	.0882	.1297	.1841	.2426	.3051
	3	.0201	.0386	.0674	.1100	.1697	.2500	.3640	.5141	.7036	.9331
	4	.0354	.0666	.1131	.1760	.2600	.3770	.5300	.7341	1.0006	1.3291
	5	.0507	.0942	.1541	.2350	.3450	.5000	.7187	1.0000	1.3406	1.7400
	6	.0660	.1227	.1956	.2920	.4200	.6000	.8457	1.1662	1.5877	2.0900
	7	.0813	.1444	.2293	.3400	.4850	.6900	.9512	1.3012	1.7406	2.2700
	8	.0966	.1655	.2544	.3700	.5250	.7500	1.0307	1.4012	1.8606	2.3900
	9	.1119	.1868	.2807	.4000	.5650	.8100	1.1102	1.5102	2.0006	2.5000
	10	.1272	.2068	.3047	.4300	.6050	.8600	1.1807	1.6102	2.1206	2.6200
	11	.1425	.2258	.3277	.4580	.6430	.9200	1.2402	1.6802	2.2006	2.7400
	12	.1578	.2444	.3503	.4850	.6800	.9800	1.3002	1.7402	2.2806	2.8600
	13	.1731	.2638	.3727	.5120	.7150	1.0400	1.3602	1.8002	2.3606	2.9800
	14	.1884	.2823	.3942	.5380	.7500	1.1000	1.4202	1.8602	2.4406	3.1000
	15	.2037	.3006	.4155	.5650	.7850	1.1600	1.4802	1.9202	2.5206	3.2200
	16	.2190	.3184	.4364	.5900	.8100	1.2200	1.5402	1.9802	2.6006	3.3400
	17	.2343	.3363	.4603	.6100	.8400	1.2800	1.6002	2.0402	2.6806	3.4600
	18	.2496	.3536	.4806	.6300	.8700	1.3400	1.6602	2.1002	2.7606	3.5800
	19	.2649	.3689	.5009	.6500	.9000	1.4000	1.7202	2.1602	2.8406	3.7000
	20	.2802	.3842	.5202	.6700	.9300	1.4600	1.7802	2.2202	2.9206	3.8200
	21	.2955	.4015	.5405	.6900	.9600	1.5200	1.8402	2.2802	3.0006	3.9400
	22	.3108	.4168	.5558	.7100	.9900	1.5800	1.9002	2.3402	3.0806	4.0600
	23	.3261	.4321	.5711	.7300	1.0100	1.6400	1.9602	2.4002	3.1606	4.1800
	24	.3414	.4474	.5864	.7500	1.0300	1.7000	2.0202	2.4602	3.2406	4.3000
	25	.3567	.4627	.6017	.7700	1.0500	1.7600	2.0802	2.5202	3.3206	4.4200
	26	.3720	.4780	.6170	.7900	1.0700	1.8200	2.1402	2.5802	3.4006	4.5400
	27	.3873	.4933	.6323	.8100	1.0900	1.8800	2.2002	2.6402	3.4806	4.6600

PERCENTILE POINTS OF THE CHI (1 D.F.) ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
28	28	1.4337	1.5405	1.6378	1.7562	1.9747	2.2500	2.5687	2.8980	3.1164	3.3189	3.5687
29	1	.0004	.0011	.0022	.0045	.0124	.0296	.0585	.0958	.1233	.1503	.1851
	2	.0065	.0106	.0155	.0232	.0416	.0718	.1133	.1606	.2134	.2245	.2636
	3	.0194	.0274	.0361	.0484	.0751	.1145	.1644	.2189	.2554	.2803	.3314
	4	.0370	.0488	.0608	.0772	.1107	.1575	.2145	.2742	.3136	.3408	.3943
	5	.0581	.0733	.0885	.1084	.1478	.2009	.2636	.3278	.3697	.4076	.4544
	6	.0820	.1004	.1183	.1414	.1861	.2447	.3123	.3806	.4246	.4644	.5130
	7	.1080	.1294	.1499	.1740	.2254	.2880	.3611	.4329	.4789	.5204	.5706
	8	.1361	.1603	.1832	.2119	.2657	.3337	.4100	.4852	.5330	.5760	.6278
	9	.1659	.1928	.2179	.2492	.3070	.3793	.4584	.5377	.5872	.6314	.6850
	10	.1974	.2268	.2540	.2877	.3494	.4256	.5083	.5906	.6418	.6874	.7425
	11	.2305	.2622	.2915	.3275	.3929	.4728	.5601	.6443	.6971	.7443	.8017
	12	.2652	.2992	.3305	.3686	.4375	.5212	.6118	.6989	.7534	.8019	.8588
	13	.3015	.3378	.3709	.4112	.4835	.5708	.6648	.7547	.8108	.8608	.9203
	14	.3394	.3779	.4129	.4553	.5310	.6218	.7152	.8120	.8693	.9212	.9824
	15	.3790	.4197	.4565	.4910	.5681	.6625	.7583	.8572	.9157	.9684	1.0265
	16	.4206	.4634	.5021	.5387	.6187	.7159	.8135	.9135	.9718	1.0244	1.0824
	17	.4641	.5092	.5497	.5884	.6713	.7713	.8703	.9703	1.0287	1.0814	1.1397
	18	.5099	.5572	.5996	.6405	.7269	.8293	.9283	1.0283	1.0867	1.1394	1.1977
	19	.5587	.6076	.6522	.6955	.7853	.8893	.9883	1.0883	1.1467	1.1994	1.2577
	20	.6095	.6615	.7079	.7534	.8463	.9523	1.0513	1.1513	1.2097	1.2624	1.3207
	21	.6641	.7186	.7672	.8153	.9103	1.0183	1.1173	1.2163	1.2747	1.3274	1.3857
	22	.7227	.7800	.8310	.8798	.9763	1.0853	1.1843	1.2833	1.3417	1.3944	1.4527
	23	.7862	.8455	.9002	.9542	1.0523	1.1623	1.2613	1.3603	1.4187	1.4714	1.5297
	24	.8550	.9157	.9744	1.0342	1.1333	1.2433	1.3423	1.4413	1.4997	1.5524	1.6107
	25	.9286	.9903	1.0517	1.1136	1.2127	1.3227	1.4217	1.5207	1.5791	1.6318	1.6891
	26	1.0014	1.0650	1.1271	1.1896	1.2887	1.3987	1.4977	1.5967	1.6551	1.7078	1.7651
	27	1.0723	1.1373	1.1994	1.2618	1.3609	1.4709	1.5699	1.6689	1.7273	1.7790	1.8353
	28	1.1394	1.2064	1.2677	1.3296	1.4287	1.5277	1.6267	1.7257	1.7841	1.8368	1.8931
	29	1.2028	1.2717	1.3329	1.3948	1.4939	1.5929	1.6919	1.7909	1.8493	1.9020	1.9583
	30	1.2624	1.3333	1.3955	1.4582	1.5573	1.6563	1.7553	1.8543	1.9127	1.9654	2.0217
	1	.0004	.0011	.0021	.0044	.0120	.0286	.0566	.0927	.1194	.1455	.1793
	2	.0063	.0103	.0150	.0224	.0402	.0694	.1096	.1555	.1873	.2175	.2554
	3	.0187	.0265	.0349	.0468	.0726	.1107	.1593	.2110	.2473	.2803	.3211
	4	.0357	.0471	.0588	.0746	.1070	.1523	.2076	.2654	.3046	.3380	.3804
	5	.0561	.0708	.0854	.1047	.1428	.1942	.2549	.3173	.3579	.3951	.4404
	6	.0790	.0968	.1141	.1365	.1797	.2364	.3020	.3683	.4111	.4599	.5270
	7	.1042	.1248	.1446	.1698	.2176	.2791	.3491	.4189	.4635	.5139	.5827
	8	.1312	.1545	.1766	.2043	.2565	.3223	.3963	.4693	.5157	.5575	.6079
	9	.1598	.1857	.2100	.2403	.2962	.3662	.4438	.5199	.5680	.6111	.6630
	10	.1901	.2184	.2447	.2773	.3369	.4107	.4919	.5708	.6205	.6650	.7183
	11	.2218	.2524	.2807	.3155	.3787	.4561	.5406	.6223	.6736	.7194	.7742
	12	.2550	.2879	.3189	.3549	.4215	.5024	.5902	.6747	.7275	.7746	.8309
	13	.2897	.3247	.3567	.3956	.4655	.5499	.6409	.7281	.7825	.8309	.8886
	14	.3259	.3630	.3968	.4377	.5108	.5986	.6928	.7827	.8387	.8885	.9478
	15	.3637	.4029	.4384	.4813	.5576	.6488	.7463	.8350	.8966	.9478	1.0026
	16	.4031	.4444	.4817	.5265	.6063	.7007	.8014	.8920	.9564	1.0000	1.0416

PERCENTILE POINTS OF THE CHI (1 D.F.) ORDER STATISTICS

N	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
17	4.444	.5267	.5736	.6564	.7545	.8587	.9573	1.0185	1.0727	1.1371	1.2056	1.2779
18	4.877	.5739	.6228	.7089	.8106	.9184	1.0203	1.0863	1.1515	1.2237	1.2836	1.3546
19	5.331	.6233	.6743	.7638	.8694	.9810	1.0963	1.1662	1.2307	1.3009	1.3630	1.4369
20	5.811	.6754	.7285	.8217	.9313	1.0471	1.1673	1.2307	1.3009	1.3630	1.4369	1.5261
21	6.319	.7305	.7860	.8831	.9971	1.1173	1.2307	1.3009	1.3630	1.4369	1.5261	1.6241
22	6.861	.7893	.8473	.9486	1.0675	1.1928	1.3110	1.3841	1.4608	1.5431	1.6317	1.7277
23	7.442	.8525	.9142	1.0192	1.1436	1.2747	1.4085	1.4953	1.5762	1.6618	1.7576	1.8592
24	8.073	.9211	.9849	1.0952	1.2269	1.3649	1.5046	1.6046	1.6908	1.7776	1.8692	1.9673
25	8.764	.9966	1.0639	1.1816	1.3198	1.4659	1.6145	1.7212	1.8246	1.9277	2.0341	2.1434
26	9.535	1.0812	1.1528	1.2781	1.4257	1.5824	1.7415	1.8849	1.9876	2.0977	2.2141	2.3341
27	1.0415	1.1785	1.2555	1.3906	1.5504	1.7212	1.8968	2.0824	2.2512	2.4129	2.5868	2.7646
28	1.1457	1.2950	1.3793	1.5279	1.7053	1.8968	2.1046	2.3083	2.5129	2.7182	2.9341	3.1618
29	1.2770	1.4445	1.5400	1.7109	1.9164	2.1456	2.3919	2.6466	2.9129	3.1908	3.4822	3.7868
30	1.4673	1.6594	1.7873	2.0032	2.2761	2.5919	2.9195	3.2683	3.6382	4.0308	4.4461	4.8868

TABLE 3 Contd.

PERCENTILE POINTS OF THE USUAL ORDER STATISTICS

$C = 2.0$

N	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
2	.07089	.11251	.16015	.22952	.37926	.5887	.83255	1.07298	1.22387	1.35810	1.51743
3	.12459	.14486	.16015	.16165	.18325	1.10813	1.41778	1.72329	1.91733	2.09182	2.30126
4	.05788	.09187	.13076	.18740	.26961	.38068	.52978	.71669	.89929	1.10889	1.27897
5	.26639	.31472	.38135	.46781	.57285	.68265	1.05820	1.27697	1.41417	1.53665	1.68281
6	.69258	.58811	.67787	.78088	.89107	1.02626	1.26662	1.53686	1.81924	2.10611	2.39757
7	.05013	.07956	.11324	.16230	.22818	.31628	.43871	.59871	.79541	.96032	1.07298
8	.20714	.26453	.32048	.39218	.47766	.57808	.68575	1.06677	1.17978	1.28034	1.39998
9	.78966	.66657	.73667	.81566	.89666	.97602	1.18937	1.49571	1.82537	2.16445	2.50748
10	.61655	.71196	.80019	.89002	1.08113	1.25580	1.63338	1.91065	2.09875	2.25071	2.44698
11	.06183	.07116	.10128	.14516	.20209	.27233	.36255	.47861	.62405	.85894	.95970
12	.18229	.23278	.28199	.34100	.40600	.47868	.55875	.64638	.74300	1.12261	1.22668
13	.33416	.40820	.48806	.57213	.66139	.75565	1.01154	1.18315	1.39022	1.38558	1.49924
14	.50112	.57749	.66165	.75135	.84840	1.07810	1.28106	1.47891	1.60351	1.71531	1.80957
15	.71252	.80649	.89270	.98042	1.10900	1.26285	1.49827	1.86131	2.14120	2.29061	2.49211
16	.06093	.06696	.09246	.13251	.18097	.23989	.31968	.41960	.53960	.78410	.87609
17	.16471	.21032	.26478	.33172	.41201	.50620	.60267	.70267	.80698	.93370	1.01247
18	.29755	.35454	.42773	.51358	.61358	.72970	.86757	1.02835	1.14210	1.22539	1.32441
19	.43593	.50203	.56762	.64560	.73694	.84200	1.01095	1.26885	1.56777	1.66113	1.57108
20	.59041	.66660	.73595	.81020	.89107	1.07810	1.35105	1.64257	1.66343	1.77208	1.90282
21	.78988	.88212	.96636	1.04974	1.25635	1.48845	1.74922	2.01268	2.18317	2.33883	2.52839
22	.03789	.06014	.08560	.12268	.17272	.23468	.31460	.41460	.53753	.65519	.72594
23	.15161	.19335	.23421	.28654	.34353	.40620	.47466	.54966	.63157	.72977	1.01540
24	.27099	.32286	.37126	.42115	.47018	.52978	.59225	.65922	.73087	1.11195	1.20106
25	.39175	.45100	.50528	.56144	.61860	.67665	.73565	.79520	1.13047	1.22075	1.30008
26	.51924	.58672	.64609	.70918	.77692	.84623	1.00513	1.17221	1.33195	1.43172	1.52077
27	.66411	.73955	.80782	.87901	1.03775	1.21607	1.40333	1.59391	1.71184	1.81807	1.96600
28	.85423	.94674	1.02717	1.12776	1.24021	1.36173	1.49224	2.05032	2.21805	2.37149	2.55867
29	.03544	.05626	.08007	.11476	.16053	.20935	.26128	.31649	.37490	.41194	.47871
30	.14090	.17622	.21794	.26664	.32388	.38864	.45288	.51664	.57960	.64166	.70417
31	.24054	.29847	.34320	.39553	.44920	.50623	.56363	.62163	.67963	.73763	1.01761
32	.35995	.41328	.46204	.51344	.56776	.62364	.67964	.73564	.79164	.84764	1.12719
33	.47003	.52906	.58431	.64003	.69665	.75365	.81065	.86765	.92465	1.08165	1.45340
34	.58911	.65634	.71504	.76704	.82164	.87664	.93164	.98664	1.04164	1.09664	1.63117
35	.72645	.80093	.86809	.92910	1.00317	1.07641	1.14942	1.22242	1.29542	1.36842	1.98224
36	.90902	.99791	1.07873	1.17223	1.25580	1.33764	1.42866	1.51968	1.61070	1.70172	2.58461
37	.03362	.05304	.07549	.10820	.14789	.18775	.22767	.26767	.30767	.34767	.71537
38	.13232	.16896	.20467	.24039	.27611	.31183	.34755	.38327	.41899	.45471	.88619
39	.23041	.27802	.32072	.36242	.40412	.44582	.48752	.52922	.57092	.61262	1.03345
40	.33350	.38384	.42993	.47603	.52213	.56823	.61433	.66043	.70653	.75263	1.17737
41	.43300	.48813	.53806	.58838	.63870	.68902	.73934	.78966	.83998	.89030	1.32902
42	.53630	.59638	.65041	.70444	.75847	.81250	.86653	.92056	.97459	1.02862	1.50063
43	.64894	.71461	.77362	.83463	.89564	.95665	1.01766	1.07867	1.13968	1.19969	1.71199
44	.78022	.85369	.91777	.98934	1.06060	1.13031	1.20002	1.26973	1.33944	1.40915	2.01340
45	.95656	1.04396	1.12332	1.21999	1.30521	1.39043	1.47565	1.56087	1.64609	1.73131	2.60728
46	.03170	.05032	.07162	.10265	.13961	.17638	.21233	.24785	.28333	.31885	.67861
47	.12514	.15979	.19356	.23679	.27839	.31977	.36097	.40207	.44317	.48427	.83779
48	.22067	.26281	.30217	.34066	.37839	.41612	.45385	.49158	.52931	.56704	.92767
49	.31281	.36000	.40318	.44576	.48778	.52920	.57092	.61264	.65436	.69608	1.10165
50	.40378	.45512	.50159	.54277	.58376	.62454	.66532	.70610	.74688	.78766	1.23358
51	.49632	.55166	.60165	.64628	.69061	.73474	.77876	.82278	.86680	.91082	1.37629
52	.59277	.65346	.70700	.76116	.81493	.86836	.92139	.97402	1.02665	1.07928	1.54041
53	.70103	.76604	.82628	.88166	.93667	.99129	1.04562	1.10000	1.15438	1.20876	1.76553
54	.82733	.89780	.96458	1.02611	1.08239	1.13867	1.19495	1.25123	1.30751	1.36379	2.06070
55	.99842	1.08444	1.16252	1.23575	1.30298	1.36921	1.43544	1.50167	1.56790	1.63413	2.62740

PERCENTILE POINTS OF THE WEIBULL ORDER STATISTICS

$$C = 1.5$$

		.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
1	1	.12735	.17436	.23100	.30808	.46042	.65451	.86362	1.05797	1.17541	1.27761	1.39600
	2	.47651	.49468	.57718	.67916	.86362	1.09561	1.32217	1.54557	1.68328	1.80474	1.96793
2	1	.10233	.14300	.19667	.27195	.42162	.65451	.86362	1.09561	1.27761	1.48520	1.74700
	3	.32606	.37558	.46720	.60474	.86362	1.20363	1.60474	2.07103	2.51548	3.04103	3.65166
3	1	.09123	.13199	.18567	.26348	.40893	.65451	.86362	1.09561	1.27761	1.48520	1.74700
	2	.28380	.34513	.42292	.52943	.67916	.86362	1.09561	1.32217	1.54557	1.80474	2.10887
4	1	.07755	.11723	.16885	.24852	.39669	.65451	.86362	1.09561	1.27761	1.48520	1.74700
	2	.25621	.31157	.38776	.48886	.62947	.86362	1.09561	1.32217	1.54557	1.80474	2.10887
5	1	.06342	.10272	.15012	.22354	.35914	.65451	.86362	1.09561	1.27761	1.48520	1.74700
	2	.23621	.29157	.36776	.46886	.60947	.86362	1.09561	1.32217	1.54557	1.80474	2.10887
6	1	.05755	.10723	.16885	.24852	.39669	.65451	.86362	1.09561	1.27761	1.48520	1.74700
	2	.23621	.29157	.36776	.46886	.60947	.86362	1.09561	1.32217	1.54557	1.80474	2.10887
7	1	.05233	.10272	.15012	.22354	.35914	.65451	.86362	1.09561	1.27761	1.48520	1.74700
	2	.23621	.29157	.36776	.46886	.60947	.86362	1.09561	1.32217	1.54557	1.80474	2.10887
8	1	.04913	.10272	.15012	.22354	.35914	.65451	.86362	1.09561	1.27761	1.48520	1.74700
	2	.23621	.29157	.36776	.46886	.60947	.86362	1.09561	1.32217	1.54557	1.80474	2.10887
9	1	.04693	.10272	.15012	.22354	.35914	.65451	.86362	1.09561	1.27761	1.48520	1.74700
	2	.23621	.29157	.36776	.46886	.60947	.86362	1.09561	1.32217	1.54557	1.80474	2.10887
10	1	.04572	.10272	.15012	.22354	.35914	.65451	.86362	1.09561	1.27761	1.48520	1.74700
	2	.23621	.29157	.36776	.46886	.60947	.86362	1.09561	1.32217	1.54557	1.80474	2.10887

PERCENTILE POINTS OF THE WEIBULL ORDER STATISTICS

C = 5.0

n	1	.01	.025	.05	.10	.25	.50	.75	.90	.95	.975	.99
2	1	.34702	.41733	.48062	.55505	.62854	.80902	.92932	1.02858	1.08416	1.13025	1.18153
2	2	.63758	.70333	.75973	.82611	.89293	1.04192	1.14986	1.24321	1.29741	1.34341	1.39568
3	1	.31090	.38489	.44110	.51181	.57562	.74401	.85643	.94846	.99972	1.04271	1.08949
3	2	.61102	.67275	.72004	.77332	.83048	.92922	1.02288	1.10274	1.14862	1.18749	1.23144
3	3	.75334	.80870	.85507	.90097	.94893	1.06958	1.19057	1.27478	1.32457	1.36732	1.41639
4	1	.30201	.36331	.41841	.46932	.52670	.70429	.80902	.89543	.94382	.98394	1.02858
4	2	.53273	.58748	.63434	.68769	.74736	.86609	.95263	1.07612	1.06837	1.10390	1.14406
4	3	.66592	.71590	.77943	.82679	.89669	.99034	1.07183	1.14266	1.18400	1.21924	1.25955
4	4	.84111	.87294	.91470	.96256	1.04192	1.12938	1.21684	1.29555	1.34263	1.38334	1.43038
5	1	.28883	.34745	.40015	.46211	.52462	.73355	.77737	.85635	.90262	.94099	.98368
5	2	.50618	.55319	.60269	.65335	.71560	.82258	.90452	.97405	1.01385	1.04735	1.08516
5	3	.64501	.69160	.73176	.77700	.85065	.92222	1.00460	1.06759	1.10730	1.13934	1.17584
5	4	.78854	.82082	.86060	.89841	.95377	1.02995	1.10415	1.16944	1.20789	1.24090	1.27888
5	5	.87321	.91757	.95461	.99237	1.07234	1.15376	1.23594	1.31034	1.35601	1.39528	1.44088
6	1	.27849	.33501	.38582	.44556	.50469	.64943	.74600	.82568	.87030	.90730	.94846
6	2	.48675	.53509	.58781	.62734	.70627	.78971	.86826	.93484	.97293	1.00497	1.04110
6	3	.61578	.66406	.70922	.74158	.81167	.88638	.95770	1.01906	1.05458	1.08470	1.11895
6	4	.71741	.75908	.79449	.83473	.90047	.97122	1.03960	1.09923	1.14412	1.16392	1.19806
6	5	.80996	.85025	.88468	.92378	.99842	1.05871	1.12790	1.18932	1.22575	1.25717	1.29348
6	6	.90997	.95107	.98641	1.02718	1.09558	1.17245	1.25080	1.32285	1.36658	1.40475	1.44923
7	1	.27003	.32464	.37410	.42203	.48816	.62922	.7233	.80061	.84388	.87975	.91966
7	2	.46096	.51826	.56122	.60656	.68285	.76348	.83935	.90364	.94039	.97129	1.00613
7	3	.59117	.64622	.67278	.71425	.78165	.85343	.92185	.98062	1.01459	1.04336	1.07603
7	4	.68739	.72723	.76105	.79945	.86209	.92932	.97405	1.05028	1.08305	1.11098	1.14290
7	5	.76939	.80738	.83969	.87646	.93677	1.00202	1.06562	1.12149	1.15437	1.18257	1.21501
7	6	.84898	.88631	.91818	.95461	1.01489	1.08102	1.14647	1.20500	1.23990	1.27010	1.30514
7	7	.93892	.97752	1.01107	1.04927	1.11113	1.18751	1.26289	1.33269	1.37527	1.41257	1.45615
8	1	.26292	.31420	.36424	.42065	.48424	.61312	.70429	.77952	.82164	.85657	.89543
8	2	.45663	.50364	.54367	.58935	.66366	.74176	.81544	.87784	.91351	.94349	.97728
8	3	.57434	.61464	.65196	.69712	.75737	.82682	.89296	.94972	.98250	1.01024	1.04173
8	4	.66383	.70226	.73487	.77188	.83218	.89681	.95891	1.01273	1.04404	1.07069	1.10108
8	5	.73933	.77571	.80660	.84173	.89921	.96123	1.02136	1.07393	1.10475	1.13110	1.16133
8	6	.80924	.84447	.87467	.90867	.96693	1.02616	1.08613	1.13916	1.17051	1.19749	1.22862
8	7	.88900	.91503	.94422	.97032	1.03427	1.09908	1.16162	1.21786	1.25155	1.28079	1.31481
8	8	.96256	.99016	1.03078	1.06544	1.12948	1.20006	1.27302	1.34092	1.38263	1.41920	1.46204
9	1	.25672	.30491	.35576	.41085	.48227	.59885	.68790	.76137	.80251	.83662	.87458
9	2	.44539	.49104	.53017	.57471	.64697	.72321	.79513	.85594	.89070	.91990	.95282
9	3	.55949	.60007	.63453	.67361	.73707	.80660	.86887	.92399	.95580	.98272	1.01325
9	4	.64453	.68181	.71343	.74932	.80776	.87033	.93039	.98236	1.01256	1.03921	1.06749
9	5	.71548	.75061	.78043	.81431	.86969	.92932	.98698	1.03727	1.06667	1.09177	1.12050
9	6	.77946	.81322	.84193	.87462	.92825	.98638	1.04303	1.09284	1.12215	1.14729	1.17621
9	7	.84116	.87423	.90263	.93663	.98725	1.04580	1.10294	1.15372	1.18386	1.20986	1.23994
9	8	.90550	.93868	.96710	.99974	1.05533	1.11617	1.17434	1.22872	1.26141	1.28986	1.32304
9	9	.98239	1.01736	1.04772	1.08279	1.14213	1.20077	1.25812	1.31415	1.34900	1.42495	1.46715
10	1	.25144	.30247	.34835	.40229	.49119	.58636	.67755	.74549	.78578	.81918	.85635
10	2	.43547	.48020	.51847	.56202	.63268	.70733	.77753	.83698	.87095	.89949	.93165
10	3	.54633	.58595	.62092	.65774	.71968	.78557	.84826	.90201	.93302	.95924	.98808
10	4	.62822	.66454	.69534	.72929	.78718	.84806	.90644	.95692	.98622	1.01112	1.03748
10	5	.69571	.72538	.75882	.79171	.84540	.90316	.95892	1.00746	1.03579	1.05996	1.08752
10	6	.75562	.78261	.81508	.84753	.89921	.95590	1.00940	1.05699	1.08462	1.10883	1.13628
10	7	.81189	.83851	.87050	.90128	.95190	1.00597	1.06088	1.10849	1.13661	1.16078	1.18865
10	8	.86755	.89388	.92611	.95721	1.00638	1.05926	1.11711	1.16495	1.19519	1.22038	1.24960
10	9	.92488	.95044	.98140	1.01203	1.06013	1.12705	1.18526	1.23808	1.26994	1.29772	1.33018
10	10	.99337	1.02296	1.05265	1.08609	1.15376	1.22008	1.28932	1.35444	1.39460	1.43002	1.47167