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Conservation
Engineering
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Tables of Percentage Points of the Pearson Type III Distribution

Technical Release 38

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Introduction

Table 1 was computed on the IBM 7094! by Dr. H. Leon Harter, Senior Scientist (Mathematical Statistician), Applied Mathematics Research Laboratory, Wright-Patterson Air Force Base, Ohio 45433. Table 2 was computed from Table 1 on the IBM 360/40 by the Central Technical Unit, SCS. Tables 1 and 2 as published in "A Uniform Technique for Determining Flood Flow Frequencies,"¹ Bulletin No. 15, Water Resources Council, Washington, D. C. December 1967, are an abbreviated form of the new tables. Bulletin No. 17, "Guidelines for Determining Flood Flow Frequencies, Water Resources Council, Washington, D. C. 1976 contains in Appendix 3, "Tables of K Values" for skewness of 0 to +9.0 and 31 levels of probability.

Purpose of these tables

Tables 1 and 2 are intended for use in computer applications (ADP) where 3- or 4-point Lagrangian (parabolic) interpolation will be sufficiently accurate in any case, while linear interpolation is good enough if the value of the coefficient of skewness (G_1) is near one of the tabular values or if only three-decimal place accuracy is required. CTU has the new Tables 1 and 2 available on tab cards for computer application.

Manual computations, using Tables 1 and 2 of Bulletins 15 and 17 (WRC) with linear interpolation- and 4 or 5 place log tables, should in most cases be suitable for preliminary estimates in the field. However, statistics computed in this manner may not be sufficiently accurate for regional studies, etc.

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The presence of high outliers may cause the coefficient of skewness (G_1) to be close to zero or positive when a plot of the raw data indicates a negative skewness. These are special cases of the log-Pearson Type III distribution for which it may be desirable to submit a plot of the raw data and the calculations of the statistics to the Engineering and Watershed Planning Unit hydrologist for interpretation and should be reported to the Central Technical Unit.. The variation alone in some data may be responsible for positive skewness, too, when the full period of record without outliers is negatively skewed. (See Bulletins 15 and 17, pages 12 and 13 and pages 16 and 17 respectively).

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Metric conversions

The English system of units is used in this TR. To convert to the International System of units (metric), use the following factors:

From English unit	To metric unit	Multiply by
Acre	Hectare	0.405
Square mile	Square kilometer	2.59
Cubic feet per second	Cubic meters per second	0.0283
Inch	Millimeter	25.4
Feet per second	Meters per second	0.3048
Acre-foot	Cubic meter	1233.489
Cubic foot	Cubic meter	0.0283

Perform rounding operations as appropriate to indicate the same level of precision as that of the original measurement. For example:

1. A stream discharge is recorded in cubic feet per second with three significant digits.
2. Convert stream discharge to cubic meters per

second by multiplying by 0.0283.
 3. Round to enough significant digits so that, when converting back to cubic feet per second, you obtain the original value (step 1) with three significant digits.

Definitions of symbols

Symbol	Unit	Definition
a	ft ²	Cross sectional flow area
Am	mi ²	Drainage area
CN		Runoff curve number
CN _e		Composite runoff curve number
CN _p		Pervious runoff curve number
Emax		Maximum stage
	ft	Pond and swamp adjustment factor
I _a	in	Head over weir crest
L	ft	Initial abstraction
L _w	ft	Flow length
m		Weir crest length
n		Number of flow segments
P	in	Manning's roughness coefficient
Pimp		Rainfall
P ₂	in	Percent imperviousness
		Two-year frequency, 24-hour rainfall
P _w	ft	Wetted perimeter
q	ft ³ /s (cfs)	Hydrograph coordinate
q _i	ft ³ /s (cfs)	Peak inflow discharge
q _o	ft ³ /s (cfs)	Peak outflow discharge
q _p	ft ³ /s (cfs)	Peak discharge
q _t	csm/in	Tabular hydrograph unit discharge
	csm/in	Unit peak discharge
Q	in	Runoff
r	ft	Hydraulic radius
R		Ratio of unconnected impervious area to total impervious area
5	ft/ft	Slope of hydraulic grade line
S	in	Potential maximum retention after runoff begins
t	hr	Hydrograph time
T _c	hr	Time of concentration
	hr	Time to peak
T _t	hr	Travel time
V	ft/s	Average velocity
V _r	acre-ft, ft ³ , Runoff volume or water shed-inch	acre-ft, ft ³ , Storage volume or watershed-

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² Since G1 is an inefficient estimator of the skewness, rounding up of G1 to the next tabulated value will usually be sufficient for manual computations.

Table I.—Percentage Points of Pearson Type III Distribution, $P(K_p, Gl)$ ¹
For Positive Skewness
 $Gl = 0.0(0.1) 9.0$

The values in the body of the table are the values of K_p , standardized units, that correspond to these values of Gl for $P = 0.0001, 0.0005, 0.0010, 0.0020, 0.0050, 0.0100, 0.0200, 0.0250, 0.0400, 0.0500, 0.1000, 0.2000, 0.3000, 0.4000, 0.4296, 0.5000, 0.5704, 0.6000, 0.7000, 0.8000, 0.9000, 0.9500, 0.9600, 0.9750, 0.9800, 0.9900, 0.9950, 0.9980, 0.9990, 0.9995, and 0.9999 cumulative probability equal to or less than. Five decimals have been retained. The Return Period (T) is defined as $1/Q$, and $P + Q = 1.0$.$

Example: Given $Gl = + 1.0$ Find K_p for $P = 0.9900$ and $Q = .0100$ or $T = 100$
 $Gl = + 1.0$ $K_p = + 3.02256$
 Find K_p for $P = Q = 0.5000$ or $T = 2$
 $Gl = + 1.0$ $K_p = - 0.16397$

Where: Gl is the coefficient of skewness
 P is the cumulative probability equal to or less than
 Q is the cumulative probability equal to or greater than
 T is the return period and/or recurrence interval
 K_p is the K -value for selected percentage points and skewness

This table was computed on the IBM 7094 by Dr. H. Leon Harter, Senior Scientist (Mathematical Statistician), Applied Mathematics Research Laboratory, Wright-Patterson Air Force Base, Ohio, 45433, by special arrangements for the Soil Conservation Service, USDA, Central Technical Unit, 269 Federal Building, Hyattsville, Maryland 20782. This table was published in Technometrics, Vol 11, No. 1, Feb. 1969, pp 177-187, and Vol 13, No. 1 Feb. 1971, pp 203-204, "A New Table of Percentage Points of the Pearson Type III Distribution" and "More Percentage Points of the Pearson Distribution," respectively.

Table 1. Percentage points of Pearson Type III distribution (neg skewness)

p	Gl=0.0	Gl=0.1	Gl=0.2	Gl=0.3	Gl=0.4	Gl=0.5	Gl=0.6	Q	T
0.000100	-3.71902	-3.50703	-3.29921	-3.09631	-2.89907	-2.70836	-2.52507	0.9999	1.0001
0.000500	-3.29053	-3.12767	-2.96698	-2.80889	-2.65390	-2.50257	-2.35549	0.9995	1.0005
0.001000	-3.09023	-2.94834	-2.80786	-2.66915	-2.53261	-2.39867	-2.26780	0.9990	1.0010
0.002000	-2.87816	-2.75706	-2.63672	-2.51741	-2.39942	-2.28311	-2.16884	0.9980	1.0020
0.005000	-2.57583	-2.48187	-2.38795	-2.29423	-2.20092	-2.10825	-2.01644	0.9950	1.0050
0.010000	-2.32635	-2.25258	-2.17840	-2.10394	-2.02933	-1.95472	-1.88029	0.9900	1.0101
0.020000	-2.05375	-1.99973	-1.94499	-1.88959	-1.83361	-1.77716	-1.72033	0.9800	1.0204
0.025000	-1.95996	-1.91219	-1.86360	-1.81427	-1.76427	-1.71366	-1.66253	0.9750	1.0256
0.040000	-1.75069	-1.71580	-1.67999	-1.64329	-1.60574	-1.56740	-1.52830	0.9600	1.0417
0.050000	-1.64485	-1.61594	-1.58607	-1.55527	-1.52357	-1.49101	-1.45762	0.9500	1.0526
0.100000	-1.28155	-1.27037	-1.25824	-1.24516	-1.23114	-1.21618	-1.20028	0.9000	1.1111
0.200000	-0.84162	-0.84611	-0.84986	-0.85285	-0.85508	-0.85653	-0.85718	0.8000	1.2500
0.300000	-0.52440	-0.53624	-0.54757	-0.55839	-0.56867	-0.57840	-0.58757	0.7000	1.4286
0.400000	-0.25335	-0.26882	-0.28403	-0.29897	-0.31362	-0.32796	-0.34198	0.6000	1.6667
0.429624	-0.17733	-0.19339	-0.20925	-0.22492	-0.24037	-0.25558	-0.27047	0.5704	1.7532
0.500000	0.0	-0.01662	-0.03325	-0.04993	-0.06651	-0.08302	-0.09945	0.5000	2.0000
0.570376	0.17733	0.16111	0.14472	0.12820	0.11154	0.09478	0.07791	0.4296	2.3276
0.600000	0.25335	0.23763	0.22168	0.20552	0.18916	0.17261	0.15589	0.4000	2.5000
0.700000	0.52440	0.51207	0.49927	0.48600	0.47228	0.45812	0.44352	0.3000	3.3333
0.800000	0.84162	0.83639	0.83044	0.82377	0.81638	0.80829	0.79950	0.2000	5.0000
0.900000	1.28155	1.29178	1.30105	1.30936	1.31671	1.32309	1.32850	0.1000	10.000
0.950000	1.64485	1.67279	1.69971	1.72562	1.75048	1.77428	1.79701	0.0500	20.000
0.960000	1.75069	1.78462	1.81756	1.84949	1.88039	1.91022	1.93896	0.0400	25.000
0.975000	1.95996	2.00688	2.05290	2.09795	2.14202	2.18505	2.22702	0.0250	40.000
0.980000	2.05375	2.10697	2.15935	2.21081	2.26133	2.31084	2.35931	0.0200	50.000
0.990000	2.32635	2.39961	2.47226	2.54421	2.61539	2.68572	2.75514	0.0100	100.00
0.995000	2.57583	2.66965	2.76321	2.85636	2.94900	3.04102	3.13232	0.0050	200.00
0.998000	2.87816	2.99978	3.12169	3.24371	3.36566	3.48737	3.60872	0.0020	500.00
0.999000	3.09023	3.23322	3.37703	3.52139	3.66608	3.81090	3.95567	0.0010	1000.0
0.999500	3.29053	3.45513	3.62113	3.78820	3.95605	4.12443	4.29311	0.0005	2000.0
0.999900	3.71902	3.93453	4.15301	4.37394	4.59687	4.82141	5.04718	0.0001	10000.0
p	Gl=0.7	Gl=0.8	Gl=0.9	Gl=1.0	Gl=1.1	Gl=1.2	Gl=1.3	Q	T
0.000100	-2.35015	-2.18448	-2.02891	-1.88410	-1.75053	-1.62838	-1.51752	0.9999	1.0001
0.000500	-2.21328	-2.07661	-1.94611	-1.82241	-1.70603	-1.59738	-1.49673	0.9995	1.0005
0.001000	-2.14053	-2.01739	-1.89894	-1.78572	-1.67825	-1.57695	-1.48216	0.9990	1.0010
0.002000	-2.05701	-1.94806	-1.84244	-1.74062	-1.64305	-1.55016	-1.46232	0.9980	1.0020
0.005000	-1.92580	-1.83660	-1.74919	-1.66390	-1.58110	-1.50114	-1.42439	0.9950	1.0050
0.010000	-1.80621	-1.73271	-1.66001	-1.58838	-1.51808	-1.44942	-1.38267	0.9900	1.0101
0.020000	-1.66325	-1.60604	-1.54886	-1.49188	-1.43529	-1.37929	-1.32412	0.9800	1.0204
0.025000	-1.61099	-1.55914	-1.50712	-1.45507	-1.40314	-1.35153	-1.30042	0.9750	1.0256
0.040000	-1.48852	-1.44813	-1.40720	-1.36584	-1.32414	-1.28225	-1.24028	0.9600	1.0417
0.050000	-1.42345	-1.38855	-1.35299	-1.31684	-1.28019	-1.24313	-1.20578	0.9500	1.0526
0.100000	-1.18347	-1.16574	-1.14712	-1.12762	-1.10726	-1.08608	-1.06413	0.9000	1.1111
0.200000	-0.85703	-0.85607	-0.85426	-0.85161	-0.84809	-0.84369	-0.83841	0.8000	1.2500
0.300000	-0.59615	-0.60412	-0.61146	-0.61815	-0.62415	-0.62944	-0.63400	0.7000	1.4286
0.400000	-0.35565	-0.36889	-0.38186	-0.39434	-0.40638	-0.41794	-0.42899	0.6000	1.6667
0.429624	-0.28516	-0.29961	-0.31368	-0.32740	-0.34075	-0.35370	-0.36620	0.5704	1.7532
0.500000	-0.11578	-0.13199	-0.14807	-0.16397	-0.17968	-0.19517	-0.21040	0.5000	2.0000
0.570376	0.06097	0.04397	0.02693	0.00987	-0.00719	-0.02421	-0.04116	0.4296	2.3276
0.600000	0.13901	0.12199	0.10486	0.08763	0.07032	0.05297	0.03560	0.4000	2.5000
0.700000	0.42851	0.41309	0.39729	0.38111	0.36458	0.34772	0.33054	0.3000	3.3333
0.800000	0.79002	0.77986	0.76902	0.75752	0.74537	0.73257	0.71915	0.2000	5.0000
0.900000	1.33294	1.33640	1.33889	1.34039	1.34092	1.34047	1.33904	0.1000	10.000
0.950000	1.81864	1.83916	1.85856	1.87683	1.89395	1.90992	1.92472	0.0500	20.000
0.960000	1.96660	1.99311	2.01848	2.04269	2.06573	2.08758	2.10823	0.0400	25.000
0.975000	2.26790	2.30764	2.34623	2.38364	2.41984	2.45482	2.48855	0.0250	40.000
0.980000	2.40670	2.45298	2.49811	2.54206	2.58480	2.62631	2.66657	0.0200	50.000
0.990000	2.82359	2.89101	2.95735	3.02256	3.08660	3.14944	3.21103	0.0100	100.00
0.995000	3.22281	3.31243	3.40109	3.48874	3.57530	3.66073	3.74497	0.0050	200.00
0.998000	3.72957	3.84981	3.96932	4.08802	4.20582	4.32263	4.43839	0.0020	500.00
0.999000	4.10022	4.24439	4.38807	4.53112	4.67344	4.81492	4.95549	0.0010	1000.0
0.999500	4.46189	4.63057	4.79899	4.96701	5.13449	5.30130	5.46735	0.0005	2000.0
0.999900	5.27389	5.50124	5.72899	5.95691	6.18480	6.41249	6.63980	0.0001	10000.0

Table 1. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=1.4	Gl=1.5	Gl=1.6	Gl=1.7	Gl=1.8	Gl=1.9	Gl=2.0	Q	T
0.000100	-1.41753	-1.32774	-1.24728	-1.17520	-1.11054	-1.05239	-0.99990	0.9999	1.0001
0.000500	-1.40413	-1.31944	-1.24235	-1.17240	-1.10901	-1.05159	-0.99950	0.9995	1.0005
0.001000	-1.39408	-1.31275	-1.23805	-1.16974	-1.10743	-1.05068	-0.99900	0.9990	1.0010
0.002000	-1.37981	-1.30279	-1.23132	-1.16534	-1.10465	-1.04898	-0.99800	0.9980	1.0020
0.005000	-1.35114	-1.28167	-1.21618	-1.15477	-1.09749	-1.04427	-0.99499	0.9950	1.0050
0.010000	-1.31815	-1.25611	-1.19680	-1.14042	-1.08711	-1.03695	-0.98995	0.9900	1.0101
0.020000	-1.26999	-1.21716	-1.16584	-1.11628	-1.06864	-1.02311	-0.97980	0.9800	1.0204
0.025000	-1.25004	-1.20059	-1.15229	-1.10537	-1.06001	-1.01640	-0.97468	0.9750	1.0256
0.040000	-1.19842	-1.15682	-1.11566	-1.07513	-1.03543	-0.99672	-0.95918	0.9600	1.0417
0.050000	-1.16827	-1.13075	-1.09338	-1.05631	-1.01973	-0.98381	-0.94871	0.9500	1.0526
0.100000	-1.04144	-1.01810	-0.99418	-0.96977	-0.94496	-0.91988	-0.89464	0.9000	1.1111
0.200000	-0.83223	-0.82516	-0.81720	-0.80837	-0.79868	-0.78816	-0.77686	0.8000	1.2500
0.300000	-0.63779	-0.64080	-0.64300	-0.64436	-0.64488	-0.64453	-0.64333	0.7000	1.4286
0.400000	-0.43949	-0.44942	-0.45873	-0.46739	-0.47538	-0.48265	-0.48917	0.6000	1.6667
0.429624	-0.37824	-0.38977	-0.40075	-0.41116	-0.42095	-0.43008	-0.43854	0.5704	1.7532
0.500000	-0.22535	-0.23996	-0.25422	-0.26808	-0.28150	-0.29443	-0.30685	0.5000	2.0000
0.570376	-0.05803	-0.07476	-0.09132	-0.10769	-0.12381	-0.13964	-0.15516	0.4296	2.3276
0.600000	0.01824	0.00092	-0.01631	-0.03344	-0.05040	-0.06718	-0.08371	0.4000	2.5000
0.700000	0.31307	0.29535	0.27740	0.25925	0.24094	0.22250	0.20397	0.3000	3.3333
0.800000	0.70512	0.69050	0.67532	0.65959	0.64335	0.62662	0.60944	0.2000	5.0000
0.900000	1.33665	1.33330	1.32900	1.32376	1.31760	1.31054	1.30259	0.1000	10.000
0.950000	1.93836	1.95083	1.96213	1.97227	1.98124	1.98906	1.99573	0.0500	20.000
0.960000	2.12768	2.14591	2.16293	2.17873	2.19332	2.20670	2.21888	0.0400	25.000
0.975000	2.52102	2.55222	2.58214	2.61076	2.63810	2.66413	2.68888	0.0250	40.000
0.980000	2.70556	2.74325	2.77964	2.81472	2.84848	2.88091	2.91202	0.0200	50.000
0.990000	3.27134	3.33035	3.38804	3.44438	3.49935	3.55295	3.60517	0.0100	100.00
0.995000	3.82798	3.90973	3.99016	4.06926	4.14700	4.22336	4.29832	0.0050	200.00
0.998000	4.55304	4.66651	4.77875	4.88971	4.99937	5.10768	5.21461	0.0020	500.00
0.999000	5.09505	5.23353	5.37087	5.50701	5.64190	5.77549	5.90776	0.0010	1000.0
0.999500	5.63252	5.79673	5.95990	6.12196	6.28285	6.44251	6.60090	0.0005	2000.0
0.999900	6.86661	7.09277	7.31818	7.54272	7.76632	7.98688	8.21034	0.0001	10000.
p	Gl=2.1	Gl=2.2	Gl=2.3	Gl=2.4	Gl=2.5	Gl=2.6	Gl=2.7	Q	T
0.000100	-0.95234	-0.90908	-0.86956	-0.83333	-0.80000	-0.76923	-0.74074	0.9999	1.0001
0.000500	-0.95215	-0.90899	-0.86952	-0.83331	-0.79999	-0.76923	-0.74074	0.9995	1.0005
0.001000	-0.95188	-0.90885	-0.86945	-0.83328	-0.79998	-0.76922	-0.74074	0.9990	1.0010
0.002000	-0.95131	-0.90854	-0.86929	-0.83320	-0.79994	-0.76920	-0.74073	0.9980	1.0020
0.005000	-0.94945	-0.90742	-0.86863	-0.83283	-0.79973	-0.76909	-0.74067	0.9950	1.0050
0.010000	-0.94607	-0.90521	-0.86723	-0.83196	-0.79921	-0.76878	-0.74049	0.9900	1.0101
0.020000	-0.93878	-0.90009	-0.86371	-0.82959	-0.79765	-0.76779	-0.73987	0.9800	1.0204
0.025000	-0.93495	-0.89728	-0.86169	-0.82817	-0.79667	-0.76712	-0.73943	0.9750	1.0256
0.040000	-0.92295	-0.88814	-0.85486	-0.82315	-0.79306	-0.76456	-0.73765	0.9600	1.0417
0.050000	-0.91458	-0.88156	-0.84976	-0.81927	-0.79015	-0.76242	-0.73610	0.9500	1.0526
0.100000	-0.86938	-0.84422	-0.81929	-0.79472	-0.77062	-0.74709	-0.72422	0.9000	1.1111
0.200000	-0.76482	-0.75211	-0.73880	-0.72495	-0.71067	-0.69602	-0.68111	0.8000	1.2500
0.300000	-0.64125	-0.63833	-0.63456	-0.62999	-0.62463	-0.61854	-0.61176	0.7000	1.4286
0.400000	-0.49494	-0.49991	-0.50409	-0.50744	-0.50999	-0.51171	-0.51263	0.6000	1.6667
0.429624	-0.44628	-0.45329	-0.45953	-0.46499	-0.46966	-0.47353	-0.47660	0.5704	1.7532
0.500000	-0.31872	-0.32999	-0.34063	-0.35062	-0.35992	-0.36852	-0.37640	0.5000	2.0000
0.570376	-0.17030	-0.18504	-0.19933	-0.21313	-0.22642	-0.23915	-0.25129	0.4296	2.3276
0.600000	-0.09997	-0.11590	-0.13148	-0.14665	-0.16138	-0.17564	-0.18939	0.4000	2.5000
0.700000	0.18540	0.16682	0.14827	0.12979	0.11143	0.09323	0.07523	0.3000	3.3333
0.800000	0.59183	0.57383	0.55549	0.53683	0.51789	0.49872	0.47934	0.2000	5.0000
0.900000	1.29377	1.28412	1.27365	1.26240	1.25039	1.23766	1.22422	0.1000	10.000
0.950000	2.00128	2.00570	2.00903	2.01128	2.01247	2.01263	2.01177	0.0500	20.000
0.960000	2.22986	2.23967	2.24831	2.25581	2.26217	2.26743	2.27160	0.0400	25.000
0.975000	2.71234	2.73451	2.75541	2.77506	2.79345	2.81062	2.82658	0.0250	40.000
0.980000	2.94181	2.97028	2.99744	3.02330	3.04787	3.07116	3.09320	0.0200	50.000
0.990000	3.65600	3.70543	3.75347	3.80013	3.84540	3.88930	3.93183	0.0100	100.00
0.995000	4.37186	4.44398	4.51467	4.58393	4.65176	4.71815	4.78313	0.0050	200.00
0.998000	5.32014	5.42426	5.52694	5.62818	5.72796	5.82629	5.92316	0.0020	500.00
0.999000	6.03865	6.16816	6.29626	6.42292	6.54814	6.67191	6.79421	0.0010	1000.0
0.999500	6.75798	6.91370	7.06804	7.22098	7.37250	7.52258	7.67121	0.0005	2000.0
0.999900	8.43064	8.64971	8.86753	9.08403	9.29920	9.51301	9.72543	0.0001	10000.

Table 1. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=2.8	Gl=2.9	Gl=3.0	Gl=3.1	Gl=3.2	Gl=3.3	Gl=3.4	Q	T
0.000100	-0.71429	-0.68966	-0.66667	-0.64516	-0.62500	-0.60606	-0.58824	0.9999	1.0001
0.000500	-0.71429	-0.68966	-0.66667	-0.64516	-0.62500	-0.60606	-0.58824	0.9995	1.0005
0.001000	-0.71428	-0.68965	-0.66667	-0.64516	-0.62500	-0.60606	-0.58824	0.9990	1.0010
0.002000	-0.71428	-0.68965	-0.66667	-0.64516	-0.62500	-0.60606	-0.58824	0.9980	1.0020
0.005000	-0.71425	-0.68964	-0.66666	-0.64516	-0.62500	-0.60606	-0.58824	0.9950	1.0050
0.010000	-0.71415	-0.68959	-0.66663	-0.64514	-0.62499	-0.60606	-0.58823	0.9900	1.0101
0.020000	-0.71377	-0.68935	-0.66649	-0.64507	-0.62495	-0.60603	-0.58822	0.9800	1.0204
0.025000	-0.71348	-0.68917	-0.66638	-0.64500	-0.62491	-0.60601	-0.58821	0.9750	1.0256
0.040000	-0.71227	-0.68836	-0.66585	-0.64465	-0.62469	-0.60587	-0.58812	0.9600	1.0417
0.050000	-0.71116	-0.68759	-0.66532	-0.64429	-0.62445	-0.60572	-0.58802	0.9500	1.0526
0.100000	-0.70209	-0.68075	-0.66023	-0.64056	-0.62175	-0.60379	-0.58666	0.9000	1.1111
0.200000	-0.66603	-0.65086	-0.63569	-0.62060	-0.60567	-0.59096	-0.57652	0.8000	1.2500
0.300000	-0.60434	-0.59634	-0.58783	-0.57887	-0.56953	-0.55989	-0.55000	0.7000	1.4286
0.400000	-0.51276	-0.51212	-0.51073	-0.50863	-0.50585	-0.50244	-0.49844	0.6000	1.6667
0.429624	-0.47888	-0.48037	-0.48109	-0.48107	-0.48033	-0.47890	-0.47682	0.5704	1.7532
0.500000	-0.38353	-0.38991	-0.39554	-0.40041	-0.40454	-0.40792	-0.41058	0.5000	2.0000
0.570376	-0.26282	-0.27372	-0.28395	-0.29351	-0.30238	-0.31055	-0.31802	0.4296	2.3276
0.600000	-0.20259	-0.21523	-0.22726	-0.23868	-0.24946	-0.25958	-0.26904	0.4000	2.5000
0.700000	0.05746	0.03997	0.02279	0.00596	-0.01050	-0.02654	-0.04215	0.3000	3.3333
0.800000	0.45980	0.44015	0.42040	0.40061	0.38081	0.36104	0.34133	0.2000	5.0000
0.900000	1.21013	1.19539	1.18006	1.16416	1.14772	1.13078	1.11337	0.1000	10.000
0.950000	2.00992	2.00710	2.00335	1.99869	1.99314	1.98674	1.97951	0.0500	20.000
0.960000	2.27470	2.27676	2.27780	2.27785	2.27693	2.27506	2.27229	0.0400	25.000
0.975000	2.84134	2.85492	2.86735	2.87865	2.88884	2.89795	2.90599	0.0250	40.000
0.980000	3.11399	3.13356	3.15193	3.16911	3.18512	3.20000	3.21375	0.0200	50.000
0.990000	3.97301	4.01286	4.05138	4.08859	4.12452	4.15917	4.19257	0.0100	100.00
0.995000	4.84669	4.90884	4.96959	5.02897	5.08697	5.14362	5.19892	0.0050	200.00
0.998000	6.01858	6.11254	6.20506	6.29613	6.38578	6.47401	6.56084	0.0020	500.00
0.999000	6.91505	7.03443	7.15235	7.26881	7.38382	7.49739	7.60953	0.0010	1000.0
0.999500	7.81839	7.96411	8.10836	8.25115	8.39248	8.53236	8.67079	0.0005	2000.0
0.999900	9.93643	10.14602	10.35418	10.56090	10.76618	10.97001	11.17239	0.0001	10000.0
p	Gl=3.5	Gl=3.6	Gl=3.7	Gl=3.8	Gl=3.9	Gl=4.0	Gl=4.1	Q	T
0.000100	-0.57143	-0.55556	-0.54054	-0.52632	-0.51282	-0.50000	-0.48780	0.9999	1.0001
0.000500	-0.57143	-0.55556	-0.54054	-0.52632	-0.51282	-0.50000	-0.48780	0.9995	1.0005
0.001000	-0.57143	-0.55556	-0.54054	-0.52632	-0.51282	-0.50000	-0.48780	0.9990	1.0010
0.002000	-0.57143	-0.55556	-0.54054	-0.52632	-0.51282	-0.50000	-0.48780	0.9980	1.0020
0.005000	-0.57143	-0.55556	-0.54054	-0.52632	-0.51282	-0.50000	-0.48780	0.9950	1.0050
0.010000	-0.57143	-0.55556	-0.54054	-0.52632	-0.51282	-0.50000	-0.48780	0.9900	1.0101
0.020000	-0.57142	-0.55555	-0.54054	-0.52631	-0.51282	-0.50000	-0.48780	0.9800	1.0204
0.025000	-0.57141	-0.55555	-0.54054	-0.52631	-0.51282	-0.50000	-0.48780	0.9750	1.0256
0.040000	-0.57136	-0.55552	-0.54052	-0.52630	-0.51281	-0.50000	-0.48780	0.9600	1.0417
0.050000	-0.57130	-0.55548	-0.54050	-0.52629	-0.51281	-0.49999	-0.48780	0.9500	1.0526
0.100000	-0.57035	-0.55483	-0.54006	-0.52600	-0.51261	-0.49986	-0.48772	0.9000	1.1111
0.200000	-0.56242	-0.54867	-0.53533	-0.52240	-0.50990	-0.49784	-0.48622	0.8000	1.2500
0.300000	-0.53993	-0.52975	-0.51952	-0.50929	-0.49911	-0.48902	-0.47906	0.7000	1.4286
0.400000	-0.49391	-0.48888	-0.48342	-0.47758	-0.47141	-0.46496	-0.45828	0.6000	1.6667
0.429624	-0.47413	-0.47088	-0.46711	-0.46286	-0.45819	-0.45314	-0.44777	0.5704	1.7532
0.500000	-0.41253	-0.41381	-0.41442	-0.41441	-0.41381	-0.41265	-0.41097	0.5000	2.0000
0.570376	-0.32479	-0.33085	-0.33623	-0.34092	-0.34494	-0.34831	-0.35105	0.4296	2.3276
0.600000	-0.27782	-0.28592	-0.29335	-0.30010	-0.30617	-0.31159	-0.31635	0.4000	2.5000
0.700000	-0.05730	-0.07195	-0.08610	-0.09972	-0.11279	-0.12530	-0.13725	0.3000	3.3333
0.800000	0.32171	0.30223	0.28290	0.26376	0.24484	0.22617	0.20777	0.2000	5.0000
0.900000	1.09552	1.07726	1.05863	1.03965	1.02036	1.00079	0.98096	0.1000	10.000
0.950000	1.97147	1.96266	1.95311	1.94283	1.93186	1.92023	1.90796	0.0500	20.000
0.960000	2.26862	2.26409	2.25872	2.25254	2.24558	2.23786	2.22940	0.0400	25.000
0.975000	2.91299	2.91898	2.92397	2.92799	2.93107	2.93324	2.93450	0.0250	40.000
0.980000	3.22641	3.23800	3.24853	3.25803	3.26653	3.27404	3.28060	0.0200	50.000
0.990000	4.22473	4.25569	4.28545	4.31403	4.34147	4.36777	4.39296	0.0100	100.00
0.995000	5.25291	5.30559	5.35698	5.40711	5.45598	5.50362	5.55005	0.0050	200.00
0.998000	6.64627	6.73032	6.81301	6.89435	6.97435	7.05304	7.13043	0.0020	500.00
0.999000	7.72024	7.82954	7.93744	8.04395	8.14910	8.25289	8.35534	0.0010	1000.0
0.999500	8.80779	8.94335	9.07750	9.21023	9.34158	9.47154	9.60013	0.0005	2000.0
0.999900	11.37334	11.57284	11.77092	11.96757	12.16280	12.35663	12.54906	0.0001	10000.0

Table 1. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=4.2	Gl=4.3	Gl=4.4	Gl=4.5	Gl=4.6	Gl=4.7	Gl=4.8	Q	T
0.000100	-0.47619	-0.46512	-0.45455	-0.44444	-0.43478	-0.42553	-0.41667	0.9999	1.0001
0.000500	-0.47619	-0.46512	-0.45455	-0.44444	-0.43478	-0.42553	-0.41667	0.9995	1.0005
0.001000	-0.47619	-0.46512	-0.45455	-0.44444	-0.43478	-0.42553	-0.41667	0.9990	1.0010
0.002000	-0.47619	-0.46512	-0.45455	-0.44444	-0.43478	-0.42553	-0.41667	0.9980	1.0020
0.005000	-0.47619	-0.46512	-0.45455	-0.44444	-0.43478	-0.42553	-0.41667	0.9950	1.0050
0.010000	-0.47619	-0.46512	-0.45455	-0.44444	-0.43478	-0.42553	-0.41667	0.9900	1.0101
0.020000	-0.47619	-0.46512	-0.45455	-0.44444	-0.43478	-0.42553	-0.41667	0.9800	1.0204
0.025000	-0.47619	-0.46512	-0.45455	-0.44444	-0.43478	-0.42553	-0.41667	0.9750	1.0256
0.040000	-0.47619	-0.46512	-0.45455	-0.44444	-0.43478	-0.42553	-0.41667	0.9600	1.0417
0.050000	-0.47619	-0.46511	-0.45454	-0.44444	-0.43478	-0.42553	-0.41667	0.9500	1.0526
0.100000	-0.47614	-0.46508	-0.45452	-0.44443	-0.43477	-0.42553	-0.41666	0.9000	1.1111
0.200000	-0.47504	-0.46428	-0.45395	-0.44402	-0.43448	-0.42532	-0.41652	0.8000	1.2500
0.300000	-0.46927	-0.45967	-0.45029	-0.44114	-0.43223	-0.42357	-0.41517	0.7000	1.4286
0.400000	-0.45142	-0.44442	-0.43734	-0.43020	-0.42304	-0.41590	-0.40880	0.6000	1.6667
0.429624	-0.44212	-0.43623	-0.43016	-0.42394	-0.41761	-0.41121	-0.40477	0.5704	1.7532
0.500000	-0.40881	-0.40621	-0.40321	-0.39985	-0.39617	-0.39221	-0.38800	0.5000	2.0000
0.570376	-0.35318	-0.35473	-0.35572	-0.35619	-0.35616	-0.35567	-0.35475	0.4296	2.3276
0.600000	-0.32049	-0.32400	-0.32693	-0.32928	-0.33108	-0.33236	-0.33315	0.4000	2.5000
0.700000	-0.14861	-0.15939	-0.16958	-0.17918	-0.18819	-0.19661	-0.20446	0.3000	3.3333
0.800000	0.18967	0.17189	0.15445	0.13737	0.12067	0.10436	0.08847	0.2000	5.0000
0.900000	0.96090	0.94064	0.92022	0.89964	0.87895	0.85817	0.83731	0.1000	10.000
0.950000	1.89508	1.88160	1.86757	1.85300	1.83792	1.82234	1.80631	0.0500	20.000
0.960000	2.22024	2.21039	2.19988	2.18874	2.17699	2.16465	2.15174	0.0400	25.000
0.975000	2.93489	2.93443	2.93314	2.93105	2.92818	2.92455	2.92017	0.0250	40.000
0.980000	3.28622	3.29092	3.29473	3.29767	3.29976	3.30103	3.30149	0.0200	50.000
0.990000	4.41706	4.44009	4.46207	4.48303	4.50297	4.52192	4.53990	0.0100	100.00
0.995000	5.59528	5.63934	5.68224	5.72400	5.76464	5.80418	5.84265	0.0050	200.00
0.998000	7.20654	7.28138	7.35497	7.42733	7.49847	7.56842	7.63718	0.0020	500.00
0.999000	8.45646	8.55627	8.65479	8.75202	8.84800	8.94273	9.03623	0.0010	1000.0
0.999500	9.72737	9.85326	9.97784	10.10110	10.22307	10.34375	10.46318	0.0005	2000.0
0.999900	12.74010	12.92977	13.11808	13.30504	13.49066	13.67495	13.85794	0.0001	10000.
p	Gl=4.9	Gl=5.0	Gl=5.1	Gl=5.2	Gl=5.3	Gl=5.4	Gl=5.5	Q	T
0.000100	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9999	1.0001
0.000500	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9995	1.0005
0.001000	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9990	1.0010
0.002000	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9980	1.0020
0.005000	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9950	1.0050
0.010000	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9900	1.0101
0.020000	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9800	1.0204
0.025000	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9750	1.0256
0.040000	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9600	1.0417
0.050000	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9500	1.0526
0.100000	-0.40816	-0.40000	-0.39216	-0.38462	-0.37736	-0.37037	-0.36364	0.9000	1.1111
0.200000	-0.40806	-0.39993	-0.39211	-0.38458	-0.37734	-0.37036	-0.36363	0.8000	1.2500
0.300000	-0.40703	-0.39914	-0.39152	-0.38414	-0.37701	-0.37011	-0.36345	0.7000	1.4286
0.400000	-0.40177	-0.39482	-0.38799	-0.38127	-0.37469	-0.36825	-0.36196	0.6000	1.6667
0.429624	-0.39833	-0.39190	-0.38552	-0.37919	-0.37295	-0.36680	-0.36076	0.5704	1.7532
0.500000	-0.38359	-0.37901	-0.37428	-0.36945	-0.36453	-0.35956	-0.35456	0.5000	2.0000
0.570376	-0.35343	-0.35174	-0.34972	-0.34740	-0.34481	-0.34198	-0.33895	0.4296	2.3276
0.600000	-0.33347	-0.33336	-0.33284	-0.33194	-0.33070	-0.32914	-0.32729	0.4000	2.5000
0.700000	-0.21172	-0.21843	-0.22458	-0.23019	-0.23527	-0.23984	-0.24391	0.3000	3.3333
0.800000	0.07300	0.05798	0.04340	0.02927	0.01561	0.00243	-0.01028	0.2000	5.0000
0.900000	0.81641	0.79548	0.77455	0.75364	0.73277	0.71195	0.69122	0.1000	10.000
0.950000	1.78982	1.77292	1.75563	1.73795	1.71992	1.70155	1.68287	0.0500	20.000
0.960000	2.13829	2.12432	2.10985	2.09490	2.07950	2.06365	2.04739	0.0400	25.000
0.975000	2.91508	2.90930	2.90283	2.89572	2.88796	2.87959	2.87062	0.0250	40.000
0.980000	3.30116	3.30007	3.29823	3.29567	3.29240	3.28844	3.28381	0.0200	50.000
0.990000	4.55694	4.57304	4.58823	4.60252	4.61594	4.62850	4.64022	0.0100	100.00
0.995000	5.88004	5.91639	5.95171	5.98602	6.01934	6.05169	6.08307	0.0050	200.00
0.998000	7.70479	7.77124	7.83657	7.90078	7.96390	8.02594	8.08691	0.0020	500.00
0.999000	9.12852	9.21961	9.30952	9.39827	9.48586	9.57232	9.65766	0.0010	1000.0
0.999500	10.58135	10.69829	10.81401	10.92853	11.04186	11.15402	11.26502	0.0005	2000.0
0.999900	14.03963	14.22004	14.39918	14.57706	14.75370	14.92912	15.10332	0.0001	10000.

Table 1. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=5.6	C1=5.7	Gl=5.8	Gl=5.9	Gl=6.0	Gl=6.1	Gl=6.2	Q	T
0.000100	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9999	1.0001
0.000500	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9995	1.0005
0.001000	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9990	1.0010
0.002000	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9980	1.0020
0.005000	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9950	1.0050
0.010000	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9900	1.0101
0.020000	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9800	1.0204
0.025000	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9750	1.0256
0.040000	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9600	1.0417
0.050000	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9500	1.0526
0.100000	-0.35714	-0.35088	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.9000	1.1111
0.200000	-0.35714	-0.35087	-0.34483	-0.33898	-0.33333	-0.32787	-0.32258	0.8000	1.2500
0.300000	-0.35700	-0.35078	-0.34476	-0.33893	-0.33330	-0.32784	-0.32256	0.7000	1.4286
0.400000	-0.35583	-0.34985	-0.34402	-0.33836	-0.33285	-0.32750	-0.32230	0.6000	1.6667
0.429624	-0.35484	-0.34903	-0.34336	-0.33782	-0.33242	-0.32715	-0.32202	0.5704	1.7532
0.500000	-0.34955	-0.34455	-0.33957	-0.33463	-0.32974	-0.32492	-0.32016	0.5000	2.0000
0.570376	-0.33573	-0.33236	-0.32886	-0.32525	-0.32155	-0.31780	-0.31399	0.4296	2.3276
0.600000	-0.32519	-0.32285	-0.32031	-0.31759	-0.31472	-0.31171	-0.30859	0.4000	2.5000
0.700000	-0.24751	-0.25064	-0.25334	-0.25562	-0.25750	-0.25901	-0.26015	0.3000	3.3333
0.800000	-0.02252	-0.03427	-0.04553	-0.05632	-0.06662	-0.07645	-0.08580	0.2000	5.0000
0.900000	0.67058	0.65006	0.62966	0.60941	0.58933	0.56942	0.54970	0.1000	10.000
0.950000	1.66390	1.64464	1.62513	1.60538	1.58541	1.56524	1.54487	0.0500	20.000
0.960000	2.03073	2.01369	1.99629	1.97855	1.96048	1.94210	1.92343	0.0400	25.000
0.975000	2.86107	2.85096	2.84030	2.82912	2.81743	2.80525	2.79259	0.0250	40.000
0.980000	3.27854	3.27263	3.26610	3.25898	3.25128	3.24301	3.23419	0.0200	50.000
0.990000	4.65111	4.66120	4.67050	4.67903	4.68680	4.69382	4.70013	0.0100	100.00
0.995000	6.11351	6.14302	6.17162	6.19933	6.22616	6.25212	6.27723	0.0050	200.00
0.998000	8.14683	8.20572	8.26359	8.32046	8.37634	8.43125	8.48519	0.0020	500.00
0.999000	9.74190	9.82505	9.90713	9.98815	10.06812	10.14706	10.22499	0.0010	1000.0
0.999500	11.37487	11.48360	11.59122	11.69773	11.80316	11.90752	12.01082	0.0005	2000.0
0.999900	15.27632	15.44813	15.61878	15.78826	15.95660	16.12380	16.28989	0.0001	10000.0
p	Gl=6.3	Gl=6.4	Gl=6.5	Gl=6.6	Gl=6.7	Gl=6.8	Gl=6.9	Q	T
0.000100	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9999	1.0001
0.000500	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9995	1.0005
0.001000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9990	1.0010
0.002000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9980	1.0020
0.005000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9950	1.0050
0.010000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9900	1.0101
0.020000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9800	1.0204
0.025000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9750	1.0256
0.040000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9600	1.0417
0.050000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9500	1.0526
0.100000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.9000	1.1111
0.200000	-0.31746	-0.31250	-0.30769	-0.30303	-0.29851	-0.29412	-0.28986	0.8000	1.2500
0.300000	-0.31745	-0.31249	-0.30769	-0.30303	-0.29850	-0.29412	-0.28985	0.7000	1.4286
0.400000	-0.31724	-0.31234	-0.30757	-0.30294	-0.29844	-0.29407	-0.28982	0.6000	1.6667
0.429624	-0.31702	-0.31216	-0.30743	-0.30283	-0.29835	-0.29400	-0.28977	0.5704	1.7532
0.500000	-0.31549	-0.31090	-0.30639	-0.30198	-0.29766	-0.29344	-0.28931	0.5000	2.0000
0.570376	-0.31016	-0.30631	-0.30246	-0.29862	-0.29480	-0.29101	-0.28726	0.4296	2.3276
0.600000	-0.30538	-0.30209	-0.29875	-0.29537	-0.29196	-0.28854	-0.28511	0.4000	2.5000
0.700000	-0.26097	-0.26146	-0.26167	-0.26160	-0.26128	-0.26072	-0.25995	0.3000	3.3333
0.800000	-0.09469	-0.10311	-0.11107	-0.11859	-0.12566	-0.13231	-0.13853	0.2000	5.0000
0.900000	0.53019	0.51089	0.49182	0.47299	0.45440	0.43608	0.41803	0.1000	10.000
0.950000	1.52434	1.50365	1.48281	1.46186	1.44079	1.41963	1.39839	0.0500	20.000
0.960000	1.90449	1.88528	1.86584	1.84616	1.82627	1.80618	1.78591	0.0400	25.000
0.975000	2.77947	2.76591	2.75191	2.73751	2.72270	2.70751	2.69195	0.0250	40.000
0.980000	3.22484	3.21497	3.20460	3.19374	3.18241	3.17062	3.15838	0.0200	50.000
0.990000	4.70571	4.71061	4.71482	4.71836	4.72125	4.72350	4.72512	0.0100	100.00
0.995000	6.30151	6.32497	6.34762	6.36948	6.39055	6.41086	6.43042	0.0050	200.00
0.998000	8.53820	8.59027	8.64142	8.69167	8.74102	8.78950	8.83711	0.0020	500.00
0.999000	10.30192	10.37785	10.45281	10.52681	10.59986	10.67197	10.74316	0.0010	1000.0
0.999500	12.11307	12.21429	12.31450	12.41370	12.51190	12.60913	12.70539	0.0005	2000.0
0.999900	16.45487	16.61875	16.78156	16.94329	17.10397	17.26361	17.42221	0.0001	10000.0

Table 1. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

P	Gl=7.0	Gl=7.1	Gl=7.2	Gl=7.3	Gl=7.4	Gl=7.5	Gl=7.6	Q	T
0.000100	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9999	1.0001
0.000500	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9995	1.0005
0.001000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9990	1.0010
0.002000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9980	1.0020
0.005000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9950	1.0050
0.010000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9900	1.0101
0.020000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9800	1.0204
0.025000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9750	1.0256
0.040000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9600	1.0417
0.050000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9500	1.0526
0.100000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.9000	1.1111
0.200000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.8000	1.2500
0.300000	-0.28571	-0.28169	-0.27778	-0.27397	-0.27027	-0.26667	-0.26316	0.7000	1.4286
0.400000	-0.28569	-0.28167	-0.27776	-0.27396	-0.27026	-0.26666	-0.26315	0.6000	1.6667
0.429624	-0.28565	-0.28164	-0.27774	-0.27394	-0.27025	-0.26665	-0.26315	0.5704	1.7532
0.500000	-0.28528	-0.28135	-0.27751	-0.27376	-0.27010	-0.26654	-0.26306	0.5000	2.0000
0.570376	-0.28355	-0.27990	-0.27629	-0.27274	-0.26926	-0.26584	-0.26248	0.4296	2.3276
0.600000	-0.28169	-0.27829	-0.27491	-0.27156	-0.26825	-0.26497	-0.26175	0.4000	2.5000
0.700000	-0.25899	-0.25785	-0.25654	-0.25510	-0.25352	-0.25183	-0.25005	0.3000	3.3333
0.800000	-0.14434	-0.14975	-0.15478	-0.15942	-0.16371	-0.16764	-0.17123	0.2000	5.0000
0.900000	0.40026	0.38277	0.36557	0.34868	0.33209	0.31582	0.29986	0.1000	10.000
0.950000	1.37708	1.35571	1.33430	1.31287	1.29141	1.26995	1.24850	0.0500	20.000
0.960000	1.76547	1.74487	1.72412	1.70325	1.68225	1.66115	1.63995	0.0400	25.000
0.975000	2.67603	2.65977	2.64317	2.62626	2.60905	2.59154	2.57375	0.0250	40.000
0.980000	3.14572	3.13263	3.11914	3.10525	3.09099	3.07636	3.06137	0.0200	50.000
0.990000	4.72613	4.72653	4.72635	4.72559	4.72427	4.72240	4.71998	0.0100	100.00
0.995000	6.44924	6.46733	6.48470	6.50137	6.51735	6.53264	6.54727	0.0050	200.00
0.998000	8.88387	8.92979	8.97488	9.01915	9.06261	9.10528	9.14717	0.0020	500.00
0.999000	10.81343	10.88281	10.95129	11.01890	11.08565	11.15154	11.21658	0.0010	1000.0
0.999500	12.80069	12.89505	12.98848	13.08098	13.17258	13.26328	13.35309	0.0005	2000.0
0.999900	17.57979	17.73636	17.89193	18.04652	18.20013	18.35278	18.50447	0.0001	10000.
p	Gl=7.7	Gl=7.8	Gl=7.9	Gl=8.0	Gl=8.1	Gl=8.2	Gl=8.3	Q	T
0.000100	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9999	1.0001
0.000500	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9995	1.0005
0.001000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9990	1.0010
0.002000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9980	1.0020
0.005000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9950	1.0050
0.010000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9900	1.0101
0.020000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9800	1.0204
0.025000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9750	1.0256
0.040000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9600	1.0417
0.050000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9500	1.0526
0.100000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.9000	1.1111
0.200000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.8000	1.2500
0.300000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.7000	1.4286
0.400000	-0.25974	-0.25641	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.6000	1.6667
0.429624	-0.25973	-0.25640	-0.25316	-0.25000	-0.24691	-0.24390	-0.24096	0.5704	1.7532
0.500000	-0.25966	-0.25635	-0.25312	-0.24996	-0.24689	-0.24388	-0.24095	0.5000	2.0000
0.570376	-0.25919	-0.25596	-0.25280	-0.24970	-0.24667	-0.24371	-0.24081	0.4296	2.3276
0.600000	-0.25857	-0.25544	-0.25236	-0.24933	-0.24637	-0.24345	-0.24060	0.4000	2.5000
0.700000	-0.24817	-0.24622	-0.24421	-0.24214	-0.24003	-0.23788	-0.23571	0.3000	3.3333
0.800000	-0.17450	-0.17746	-0.18012	-0.18249	-0.18459	-0.18643	-0.18803	0.2000	5.0000
0.900000	0.28422	0.26892	0.25394	0.23929	0.22498	0.21101	0.19737	0.1000	10.000
0.950000	1.22706	1.20565	1.18427	1.16295	1.14168	1.12048	1.09936	0.0500	20.000
0.960000	1.61867	1.59732	1.57591	1.55444	1.53294	1.51141	1.48985	0.0400	25.000
0.975000	2.55569	2.53737	2.51881	2.50001	2.48099	2.46175	2.44231	0.0250	40.000
0.980000	3.04604	3.03038	3.01439	2.99810	2.98150	2.96462	2.94746	0.0200	50.000
0.990000	4.71704	4.71358	4.70961	4.70514	4.70019	4.69476	4.68887	0.0100	100.00
0.995000	6.56124	6.57456	6.58725	6.59931	6.61075	6.62159	6.63183	0.0050	200.00
0.998000	9.18828	9.22863	9.26823	9.30709	9.34521	9.38262	9.41931	0.0020	500.00
0.999000	11.28080	11.34419	11.40677	11.46855	11.52953	11.58974	11.64917	0.0010	1000.0
0.999500	13.44202	13.53009	13.61730	13.70366	13.78919	13.87389	13.95778	0.0005	2000.0
0.999900	18.65522	18.80504	18.95393	19.10191	19.24898	19.39517	19.54046	0.0001	10000.

Table 1. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=8.4	Gl=8.5	Gl=8.6	Gl=8.7	Gl=8.8	Gl=8.9	Gl=9.0	Q	T
0.000100	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9999	1.0001
0.000500	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9995	1.0005
0.001000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9990	1.0010
0.002000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9980	1.0020
0.005000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9950	1.0050
0.010000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9900	1.0101
0.020000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9800	1.0204
0.025000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9750	1.0256
0.040000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9600	1.0417
0.050000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9500	1.0526
0.100000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.9000	1.1111
0.200000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.8000	1.2500
0.300000	-0.23810	-0.23529	-0.23256	-0.22989	-0.22727	-0.22472	-0.22222	0.7000	1.4286
0.400000	-0.23810	-0.23529	-0.23256	-0.22988	-0.22727	-0.22472	-0.22222	0.6000	1.6667
0.429624	-0.23809	-0.23529	-0.23256	-0.22988	-0.22727	-0.22472	-0.22222	0.5704	1.7532
0.500000	-0.23808	-0.23528	-0.23255	-0.22988	-0.22727	-0.22472	-0.22222	0.5000	2.0000
0.570376	-0.23797	-0.23520	-0.23248	-0.22982	-0.22722	-0.22468	-0.22219	0.4296	2.3276
0.600000	-0.23779	-0.23505	-0.23236	-0.22972	-0.22714	-0.22461	-0.2214	0.4000	2.5000
0.700000	-0.23352	-0.23132	-0.22911	-0.22690	-0.22469	-0.22249	-0.22030	0.3000	3.3333
0.800000	-0.18939	-0.19054	-0.19147	-0.19221	-0.19277	-0.19316	-0.19338	0.2000	5.0000
0.900000	0.18408	0.17113	0.15851	0.14624	0.13431	0.12272	0.11146	0.1000	10.000
0.950000	1.07832	1.05738	1.03654	1.01581	0.99519	0.97471	0.95435	0.0500	20.000
0.960000	1.46829	1.44673	1.42518	1.40364	1.38213	1.36065	1.33922	0.0400	25.000
0.975000	2.42268	2.40287	2.38288	2.36273	2.34242	2.32197	2.30138	0.0250	40.000
0.980000	2.93002	2.91234	2.89440	2.87622	2.85782	2.83919	2.82035	0.0200	50.000
0.990000	4.68252	4.67573	4.66850	4.66085	4.65277	4.64429	4.63541	0.0100	100.00
0.995000	6.64148	6.65056	6.65907	6.66703	6.67443	6.68130	6.68763	0.0050	200.00
0.998000	9.45530	9.49060	9.52521	9.55915	9.59243	9.62504	9.65701	0.0020	500.00
0.999000	11.70785	11.76576	11.82294	11.87938	11.93509	11.99009	12.04437	0.0010	1000.0
0.9999500	14.04086	14.12314	14.20463	14.28534	14.36528	14.44446	14.52288	0.0005	2000.0
0.999900	19.68489	19.82845	19.97115	20.11300	20.25402	20.39420	20.53356	0.0001	10000.

Table 2.—Percentage Points of Pearson Type III Distribution, $P(K_p, Gl)$ ¹**For Negative Skewness** **$Gl = -0.0(-0.1) -9.0$**

The values in the body of the table are the values of K_p , standardized units, that correspond to these values of Gl for $P = 0.0001, 0.0005, 0.0010, 0.0020, 0.0050, 0.0100, 0.0200, 0.0250, 0.01400, 0.0500, 0.1000, 0.2000, 0.3000, 0.14000, 0.14296, 0.5000, 0.57014, 0.6000, 0.7000, 0.8000, 0.9000, 0.9500, 0.9600, 0.9750, 0.9800, 0.9900, 0.9950, 0.9980, 0.9990, 0.9995, \text{ and } 0.9999$ cumulative probability equal to or less than. Five decimals have been retained. The Return Period (T) is defined as $1/Q$, and $P + Q = 1.0$.

Example:	Given $Gl = -1.0$	Find K_p for $P = 0.9900$ and $Q = .0100$ or $T = 100$
	$Gl = -1.0$	$K_p = + 1.58838$
		Find K_p for $P = Q = 0.5000$ or $T = 2$
	$Gl = -1.0$	$K_p = + 0.16397$

Where:

Gl is the coefficient of skewness
 P is the cumulative probability equal to or less than
 Q is the cumulative probability equal to or greater than
 T is the return period and/or recurrence interval is the
 K_p value for selected percentage points and skewness

¹This table was produced on the IBM 360/140 by the Central Technical Unit, SCS. The K -values for negative coefficient of skewness were obtained by inverting the K -values in Table 1 and changing the signs of the K -values.

Table 2. Percentage points of Pearson Type III distribution (neg skewness)

p	Gl=0.0	Gl=0.1	Gl=0.2	Gl=0.3	Gl=0.4	Gl=0.5	Gl=0.6	Q	T
0.000100	-3.71902	-3.93453	-4.15301	-4.37394	-4.59687	-4.82141	-5.04718	0.9999	1.0001
0.000500	-3.29053	-3.45513	-3.62113	-3.78820	-3.95605	-4.12443	-4.29311	0.9995	1.0005
0.001000	-3.09023	-3.23322	-3.37703	-3.52139	-3.66608	-3.81090	-3.95567	0.9990	1.0010
0.002000	-2.87816	-2.99978	-3.12169	-3.24371	-3.36566	-3.48137	-3.60872	0.9980	1.0020
0.005000	-2.57583	-2.66965	-2.76321	-2.85636	-2.94900	-3.04102	-3.13232	0.9950	1.0050
0.010000	-2.32635	-2.39961	-2.47226	-2.54421	-2.61539	-2.68572	-2.75514	0.9900	1.0101
0.020000	-2.05375	-2.10697	-2.15935	-2.21081	-2.26133	-2.31084	-2.35931	0.9800	1.0204
0.025000	-1.95996	-2.00688	-2.05290	-2.09795	-2.14202	-2.18505	-2.22702	0.9750	1.0256
0.040000	-1.75069	-1.78462	-1.81756	-1.84949	-1.88039	-1.91022	-1.93896	0.9600	1.0417
0.050000	-1.64485	-1.67279	-1.69971	-1.72562	-1.75048	-1.77428	-1.79701	0.9500	1.0526
0.100000	-1.28155	-1.29178	-1.30105	-1.30936	-1.31671	-1.32309	-1.32850	0.9000	1.1111
0.200000	-0.84162	-0.83639	-0.83044	-0.82377	-0.81638	-0.80829	-0.79950	0.8000	1.2500
0.300000	-0.52440	-0.51207	-0.49927	-0.48600	-0.47228	-0.45812	-0.44352	0.7000	1.4286
0.400000	-0.25335	-0.23763	-0.22168	-0.20552	-0.18916	-0.17261	-0.15589	0.6000	1.6667
0.429624	-0.17733	-0.16111	-0.14472	-0.12820	-0.11154	-0.09478	-0.07791	0.5704	1.7532
0.500000	0.0	0.01662	0.03325	0.04993	0.06651	0.08302	0.09945	0.5000	2.0000
0.570376	0.17733	0.19339	0.20925	0.22492	0.24037	0.25558	0.27047	0.4296	2.3276
0.600000	0.25335	0.26882	0.28403	0.29897	0.31362	0.32796	0.34198	0.4000	2.5000
0.700000	0.52440	0.53624	0.54757	0.55839	0.56867	0.57840	0.58757	0.3000	3.3333
0.800000	0.84162	0.84611	0.84986	0.85285	0.85508	0.85653	0.85718	0.2000	5.0000
0.900000	1.28155	1.27037	1.25824	1.24516	1.23114	1.21618	1.20028	0.1000	10.000
0.950000	1.64485	1.61594	1.58607	1.55527	1.52357	1.49101	1.45762	0.0500	20.000
0.960000	1.75069	1.71580	1.67999	1.64329	1.60574	1.56740	1.52830	0.0400	25.000
0.975000	1.95996	1.91219	1.86360	1.81427	1.76427	1.71366	1.66253	0.0250	40.000
0.980000	2.05375	1.99973	1.94499	1.88959	1.83361	1.77716	1.72033	0.0200	50.000
0.990000	2.32635	2.25258	2.17840	2.10394	2.02933	1.95472	1.88029	0.0100	100.00
0.995000	2.57583	2.48187	2.38795	2.29423	2.20092	2.10825	2.01644	0.0050	200.00
0.998000	2.87816	2.75706	2.63672	2.51741	2.39942	2.28311	2.16884	0.0020	500.00
0.999000	3.09023	2.94834	2.80786	2.66915	2.53261	2.39867	2.26780	0.0010	1000.0
0.999500	3.29053	3.12767	2.96698	2.80889	2.65390	2.50257	2.35549	0.0005	2000.0
0.999900	3.71902	3.50703	3.29921	3.09631	2.89907	2.70836	2.52507	0.0001	10000.0
p	Gl=-0.7	Gl=-0.8	Gl=-0.9	Gl=-1.0	Gl=-1.1	Gl=-1.2	Gl=-1.3	Q	T
0.000100	-5.27389	-5.50124	-5.72899	-5.95691	-6.18480	-6.41249	-6.63980	0.9999	1.0001
0.000500	-4.46189	-4.63057	-4.79899	-4.96701	-5.13449	-5.30130	-5.46735	0.9995	1.0005
0.001000	-4.10022	-4.24439	-4.38807	-4.53112	-4.67344	-4.81492	-4.95549	0.9990	1.0010
0.002000	-3.72957	-3.84981	-3.96932	-4.08802	-4.20582	-4.32263	-4.43839	0.9980	1.0020
0.005000	-3.22281	-3.31243	-3.40109	-3.48874	-3.57530	-3.66073	-3.74497	0.9950	1.0050
0.010000	-2.82359	-2.89101	-2.95735	-3.02256	-3.08660	-3.14944	-3.21103	0.9900	1.0101
0.020000	-2.40670	-2.45298	-2.49811	-2.54206	-2.58480	-2.62631	-2.66657	0.9800	1.0204
0.025000	-2.26790	-2.30764	-2.34623	-2.38364	-2.41984	-2.45482	-2.48855	0.9750	1.0256
0.040000	-1.96660	-1.99311	-2.01848	-2.04269	-2.06573	-2.08758	-2.10823	0.9600	1.0417
0.050000	-1.81864	-1.83916	-1.85856	-1.87683	-1.89395	-1.90992	-1.92472	0.9500	1.0526
0.100000	-1.33294	-1.33640	-1.33889	-1.34039	-1.34092	-1.34047	-1.33904	0.9000	1.1111
0.200000	-0.79002	-0.77986	-0.76902	-0.75752	-0.74537	-0.73257	-0.71915	0.8000	1.2500
0.300000	-0.42851	-0.41309	-0.39729	-0.38111	-0.36458	-0.34772	-0.33054	0.7000	1.4286
0.400000	-0.13901	-0.12199	-0.10486	-0.08763	-0.07032	-0.05297	-0.03560	0.6000	1.6667
0.429624	-0.06097	-0.04397	-0.02693	-0.00987	0.00719	0.02421	0.04116	0.5704	1.7532
0.500000	0.11578	0.13199	0.14807	0.16397	0.17968	0.19517	0.21040	0.5000	2.0000
0.570376	0.28516	0.29961	0.31368	0.32740	0.34075	0.35370	0.36620	0.4296	2.3276
0.600000	0.35565	0.36889	0.38186	0.39434	0.40638	0.41794	0.42899	0.4000	2.5000
0.700000	0.59615	0.60412	0.61146	0.61815	0.62415	0.62944	0.63400	0.3000	3.3333
0.800000	0.85703	0.85607	0.85426	0.85161	0.84809	0.84369	0.83841	0.2000	5.0000
0.900000	1.18347	1.16574	1.14712	1.12762	1.10726	1.08608	1.06413	0.1000	10.000
0.950000	1.42345	1.38855	1.35299	1.31684	1.28019	1.24313	1.20578	0.0500	20.000
0.960000	1.48852	1.44813	1.40720	1.36584	1.32414	1.28225	1.24028	0.0400	25.000
0.975000	1.61099	1.55914	1.50712	1.45507	1.40314	1.35153	1.30042	0.0250	40.000
0.980000	1.66325	1.60604	1.54886	1.49188	1.43529	1.37929	1.32412	0.0200	50.000
0.990000	1.80621	1.73271	1.66001	1.58838	1.51808	1.44942	1.38267	0.0100	100.00
0.995000	1.92580	1.83660	1.74919	1.66390	1.58110	1.50114	1.42439	0.0050	200.00
0.998000	2.05701	1.94806	1.84244	1.74062	1.64305	1.55016	1.46232	0.0020	500.00
0.999000	2.14053	2.01739	1.98994	1.78572	1.67825	1.57695	1.48216	0.0010	1000.0
0.999500	2.21328	2.07661	1.94611	1.82241	1.70603	1.59738	1.49673	0.0005	2000.0
0.999900	2.35015	2.18448	2.02891	1.88410	1.75053	1.62838	1.51752	0.0001	10000.0

Table 2. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=1.4	Gl=1.5	Gl=1.6	Gl=1.7	Gl=1.8	Gl=1.9	Gl=2.0	Q	T
0.000100	-6.86661	-7.09277	-7.31818	-7.54272	-7.76632	-7.98888	-8.21034	0.9999	1.0001
0.000500	-5.63252	-5.79673	-5.95990	-6.12196	-6.28285	-6.44251	-6.60090	0.9995	1.0005
0.001000	-5.09505	-5.23353	-5.37087	-5.50701	-5.64190	-5.77549	-5.90776	0.9990	1.0010
0.002000	-4.55304	-4.66651	-4.77875	-4.88971	-4.99937	-5.10768	-5.21461	0.9980	1.0020
0.005000	-3.82798	-3.90973	-3.99016	-4.06926	-4.14700	-4.22336	-4.29832	0.9950	1.0050
0.010000	-3.27134	-3.33035	-3.38804	-3.44438	-3.49935	-3.55295	-3.60517	0.9900	1.0101
0.020000	-2.70556	-2.74325	-2.77964	-2.81472	-2.84848	-2.88091	-2.91202	0.9800	1.0204
0.025000	-2.52102	-2.55222	-2.58214	-2.61076	-2.63810	-2.66413	-2.68888	0.9750	1.0256
0.040000	-2.12768	-2.14591	-2.16293	-2.17873	-2.19332	-2.20670	-2.21888	0.9600	1.0417
0.050000	-1.93836	-1.95083	-1.96213	-1.97227	-1.98124	-1.98906	-1.99573	0.9500	1.0526
0.100000	-1.33665	-1.33330	-1.32900	-1.32376	-1.31760	-1.31054	-1.30259	0.9000	1.1111
0.200000	-0.70512	-0.69050	-0.67532	-0.65959	-0.64335	-0.62662	-0.60944	0.8000	1.2500
0.300000	-0.31307	-0.29535	-0.27740	-0.25925	-0.24094	-0.22250	-0.20397	0.7000	1.4286
0.400000	-0.01824	-0.00092	0.01631	0.03344	0.05040	0.06718	0.08371	0.6000	1.6667
0.429624	0.05803	0.07476	0.09132	0.10769	0.12381	0.13964	0.15516	0.5704	1.7532
0.500000	0.22535	0.23996	0.25422	0.26808	0.28150	0.29443	0.30685	0.5000	2.0000
0.570376	0.37824	0.38977	0.40075	0.41116	0.42095	0.43008	0.43854	0.4296	2.3276
0.600000	0.43949	0.44942	0.45873	0.46739	0.47538	0.48265	0.48917	0.4000	2.5000
0.700000	0.63779	0.64080	0.64300	0.64436	0.64488	0.64453	0.64333	0.3000	3.3333
0.800000	0.83223	0.82516	0.81720	0.80837	0.79868	0.78816	0.77686	0.2000	5.0000
0.900000	1.04144	1.01810	0.99418	0.96977	0.94496	0.91988	0.89464	0.1000	10.000
0.950000	1.16827	1.13075	1.09338	1.05631	1.01973	0.98381	0.94871	0.0500	20.000
0.960000	1.19842	1.15682	1.11566	1.07513	1.03543	0.99672	0.95918	0.0400	25.000
0.975000	1.25004	1.20059	1.15229	1.10537	1.06001	1.01640	0.97468	0.0250	40.000
0.980000	1.26999	1.21716	1.16584	1.11628	1.06864	1.02311	0.97980	0.0200	50.000
0.990000	1.31815	1.25611	1.19680	1.14042	1.08711	1.03695	0.98995	0.0100	100.00
0.995000	1.35114	1.28167	1.21618	1.15477	1.09749	1.04427	0.99499	0.0050	200.00
0.998000	1.37981	1.30279	1.23132	1.16534	1.10465	1.04898	0.99800	0.0020	500.00
0.999000	1.39408	1.31275	1.23805	1.16974	1.10743	1.05068	0.99900	0.0010	1000.0
0.999500	1.40413	1.31944	1.24235	1.17240	1.10901	1.05159	0.99950	0.0005	2000.0
0.999900	1.41753	1.32774	1.24728	1.17520	1.11054	1.05239	0.99990	0.0001	10000.0
p	Gl=-2.1	Gl=-2.2	Gl=-2.3	Gl=-2.4	Gl=-2.5	Gl=-2.6	Gl=-2.7	Q	T
0.000100	-8.43064	-8.64971	-8.86753	-9.08403	-9.29920	-9.51301	-9.72543	0.9999	1.0001
0.000500	-6.75798	-6.91370	-7.06804	-7.22098	-7.37250	-7.52258	-7.67121	0.9995	1.0005
0.001000	-6.03865	-6.16816	-6.29626	-6.42292	-6.54814	-6.67191	-6.79421	0.9990	1.0010
0.002000	-5.32014	-5.42426	-5.52694	-5.62818	-5.72796	-5.82629	-5.92316	0.9980	1.0020
0.005000	-4.37186	-4.44398	-4.51467	-4.58393	-4.65176	-4.71815	-4.78313	0.9950	1.0050
0.010000	-3.65600	-3.70543	-3.75347	-3.80013	-3.84540	-3.88930	-3.93183	0.9900	1.0101
0.020000	-2.94181	-2.97028	-2.99744	-3.02330	-3.04787	-3.07116	-3.09320	0.9800	1.0204
0.025000	-2.71234	-2.73451	-2.75541	-2.77506	-2.79345	-2.81062	-2.82658	0.9750	1.0256
0.040000	-2.22986	-2.23967	-2.24831	-2.25581	-2.26217	-2.26743	-2.27160	0.9600	1.0417
0.050000	-2.00128	-2.00570	-2.00903	-2.01128	-2.01247	-2.01263	-2.01177	0.9500	1.0526
0.100000	-1.29377	-1.28412	-1.27365	-1.26240	-1.25039	-1.23766	-1.22422	0.9000	1.1111
0.200000	-0.59183	-0.57383	-0.55549	-0.53683	-0.51789	-0.49872	-0.47934	0.8000	1.2500
0.300000	-0.18540	-0.16682	-0.14827	-0.12979	-0.11143	-0.09323	-0.07523	0.7000	1.4286
0.400000	0.09997	0.11590	0.13148	0.14665	0.16138	0.17564	0.18939	0.6000	1.6667
0.429624	0.17030	0.18504	0.19933	0.21313	0.22642	0.23915	0.25129	0.5704	1.7532
0.500000	0.31872	0.32999	0.34063	0.35062	0.35992	0.36852	0.37640	0.5000	2.0000
0.570376	0.44628	0.45329	0.45953	0.46499	0.46966	0.47353	0.47660	0.4296	2.3276
0.600000	0.49494	0.49991	0.50409	0.50744	0.50999	0.51171	0.51263	0.4000	2.5000
0.700000	0.64125	0.63833	0.63456	0.62999	0.62463	0.61854	0.61176	0.3000	3.3333
0.800000	0.76482	0.75211	0.73880	0.72495	0.71067	0.69602	0.68111	0.2000	5.0000
0.900000	0.86938	0.84422	0.81929	0.79472	0.77062	0.74709	0.72422	0.1000	10.000
0.950000	0.91458	0.88156	0.84976	0.81927	0.79015	0.76242	0.73610	0.0500	20.000
0.960000	0.92295	0.88814	0.85486	0.82315	0.79306	0.76456	0.73765	0.0400	25.000
0.975000	0.93495	0.89728	0.86169	0.82817	0.79667	0.76712	0.73943	0.0250	40.000
0.980000	0.93878	0.90009	0.86371	0.82959	0.79765	0.76779	0.73987	0.0200	50.000
0.990000	0.94607	0.90521	0.86723	0.83196	0.79921	0.76878	0.74049	0.0100	100.00
0.995000	0.94945	0.90742	0.86863	0.83283	0.79973	0.76909	0.74067	0.0050	200.00
0.998000	0.95131	0.90854	0.86929	0.83320	0.79994	0.76920	0.74073	0.0020	500.00
0.999000	0.95188	0.90885	0.86945	0.83328	0.79998	0.76922	0.74074	0.0010	1000.0
0.999500	0.95215	0.90899	0.86952	0.83331	0.79999	0.76923	0.74074	0.0005	2000.0
0.999900	0.95234	0.90908	0.86956	0.83333	0.80000	0.76923	0.74074	0.0001	10000.0

Table 2. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=-2.8	Gl=-2.9	Gl=-3.0	Gl=-3.1	Gl=-3.2	Gl=-3.3	Gl=-3.4	Q	T
0.000100	-9.93643	-10.14602	-10.35418	-10.56090	-10.76618	-10.97001	-11.17239	0.9999	1.0001
0.000500	-7.81839	-7.96411	-8.10836	-8.25115	-8.39248	-8.53236	-8.67079	0.9995	1.0005
0.001000	-6.91505	-7.03443	-7.15235	-7.26881	-7.38382	-7.49739	-7.60953	0.9990	1.0010
0.002000	-6.01858	-6.11254	-6.20506	-6.29613	-6.38578	-6.47401	-6.56084	0.9980	1.0020
0.005000	-4.84669	-4.90884	-4.96959	-5.02897	-5.08697	-5.14362	-5.19892	0.9950	1.0050
0.010000	-3.97301	-4.01286	-4.05138	-4.08859	-4.12452	-4.15917	-4.19257	0.9900	1.0101
0.020000	-3.11399	-3.13356	-3.15193	-3.16911	-3.18512	-3.20000	-3.21375	0.9800	1.0204
0.025000	-2.84134	-2.85492	-2.86735	-2.87865	-2.88884	-2.89795	-2.90599	0.9750	1.0256
0.040000	-2.27470	-2.27676	-2.27780	-2.27785	-2.27693	-2.27506	-2.27229	0.9600	1.0417
0.050000	-2.00992	-2.00710	-2.00335	-1.99869	-1.99314	-1.98674	-1.97951	0.9500	1.0526
0.100000	-1.21013	-1.19539	-1.18006	-1.16416	-1.14772	-1.13078	-1.11337	0.9000	1.1111
0.200000	-0.45980	-0.44015	-0.42040	-0.40061	-0.38081	-0.36104	-0.34133	0.8000	1.2500
0.300000	-0.05746	-0.03997	-0.02279	-0.00596	0.01050	0.02654	0.04215	0.7000	1.4286
0.400000	0.20259	0.21523	0.22726	0.23868	0.24946	0.25958	0.26904	0.6000	1.6667
0.429624	0.26282	0.27372	0.28395	0.29351	0.30238	0.31055	0.31802	0.5704	1.7532
0.500000	0.38353	0.38991	0.39554	0.40041	0.40454	0.40792	0.41058	0.5000	2.0000
0.570376	0.47888	0.48037	0.48109	0.48107	0.48033	0.47890	0.47682	0.4296	2.3276
0.600000	0.51276	0.51212	0.51073	0.50863	0.50585	0.50244	0.49844	0.4000	2.5000
0.700000	0.60434	0.59634	0.58783	0.57887	0.56953	0.55989	0.55000	0.3000	3.3333
0.800000	0.66603	0.65086	0.63569	0.62060	0.60567	0.59096	0.57652	0.2000	5.0000
0.900000	0.70209	0.68075	0.66023	0.64056	0.62175	0.60379	0.58666	0.1000	10.000
0.950000	0.71116	0.68759	0.66532	0.64429	0.62445	0.60572	0.58802	0.0500	20.000
0.960000	0.71227	0.68836	0.66585	0.64465	0.62469	0.60587	0.58812	0.0400	25.000
0.975000	0.71348	0.68917	0.66638	0.64500	0.62491	0.60601	0.58821	0.0250	40.000
0.980000	0.71377	0.68935	0.66649	0.64507	0.62495	0.60603	0.58822	0.0200	50.000
0.990000	0.71415	0.68959	0.66663	0.64514	0.62499	0.60606	0.58823	0.0100	100.00
0.995000	0.71425	0.68964	0.66666	0.64516	0.62500	0.60606	0.58824	0.0050	200.00
0.998000	0.71428	0.68965	0.66667	0.64516	0.62500	0.60606	0.58824	0.0020	500.00
0.999000	0.71428	0.68965	0.66667	0.64516	0.62500	0.60606	0.58824	0.0010	1000.0
0.999500	0.71429	0.68966	0.66667	0.64516	0.62500	0.60606	0.58824	0.0005	2000.0
0.999900	0.71429	0.68966	0.66667	0.64516	0.62500	0.60606	0.58824	0.0001	10000.0
p	Gl=-3.5	Gl=-3.6	Gl=-3.7	Gl=-3.8	Gl=-3.9	Gl=-4.0	Gl=-4.1	Q	T
0.000100	-11.37334	-11.57284	-11.77092	-11.96757	-12.16280	-12.35663	-12.54906	0.9999	1.0001
0.000500	-8.80779	-8.94335	-9.07750	-9.21023	-9.34158	-9.47154	-9.60013	0.9995	1.0005
0.001000	-7.72024	-7.82954	-7.93744	-8.04395	-8.14910	-8.25289	-8.35534	0.9990	1.0010
0.002000	-6.64627	-6.73032	-6.81301	-6.89435	-6.97435	-7.05304	-7.13043	0.9980	1.0020
0.005000	-5.25291	-5.30559	-5.35698	-5.40711	-5.45598	-5.50362	-5.55005	0.9950	1.0050
0.010000	-4.22473	-4.25569	-4.28545	-4.31403	-4.34147	-4.36777	-4.39296	0.9900	1.0101
0.020000	-3.22641	-3.23800	-3.24853	-3.25803	-3.26653	-3.27404	-3.28060	0.9800	1.0204
0.025000	-2.91299	-2.91898	-2.92397	-2.92799	-2.93107	-2.93324	-2.93450	0.9750	1.0256
0.040000	-2.26862	-2.26409	-2.25872	-2.25254	-2.24558	-2.23786	-2.22940	0.9600	1.0417
0.050000	-1.97147	-1.96266	-1.95311	-1.94283	-1.93186	-1.92023	-1.90796	0.9500	1.0526
0.100000	-1.09552	-1.07726	-1.05863	-1.03965	-1.02036	-1.00079	-0.98096	0.9000	1.1111
0.200000	-0.32171	-0.30223	-0.28290	-0.26376	-0.24484	-0.22617	-0.20777	0.8000	1.2500
0.300000	0.05730	0.07195	0.08610	0.09972	0.11279	0.12530	0.13725	0.7000	1.4286
0.400000	0.27782	0.28592	0.29335	0.30010	0.30617	0.31159	0.31635	0.6000	1.6667
0.429624	0.32479	0.33085	0.33623	0.34092	0.34494	0.34831	0.35105	0.5704	1.7532
0.500000	0.41253	0.41381	0.41442	0.41441	0.41381	0.41265	0.41097	0.5000	2.0000
0.570376	0.47413	0.47088	0.46711	0.46286	0.45819	0.45314	0.44777	0.4296	2.3276
0.600000	0.49391	0.48888	0.48342	0.47758	0.47141	0.46496	0.45828	0.4000	2.5000
0.700000	0.53993	0.52975	0.51952	0.50929	0.49911	0.48902	0.47906	0.3000	3.3333
0.800000	0.56242	0.54867	0.53533	0.52240	0.50990	0.49784	0.48622	0.2000	5.0000
0.900000	0.57035	0.55483	0.54006	0.52600	0.51261	0.49986	0.48772	0.1000	10.000
0.950000	0.57130	0.55548	0.54050	0.52629	0.51281	0.49999	0.48780	0.0500	20.000
0.960000	0.57136	0.55552	0.54052	0.52630	0.51281	0.50000	0.48780	0.0400	25.000
0.975000	0.57141	0.55555	0.54054	0.52631	0.51282	0.50000	0.48780	0.0250	40.000
0.980000	0.57142	0.55555	0.54054	0.52631	0.51282	0.50000	0.48780	0.0200	50.000
0.990000	0.57143	0.55556	0.54054	0.52632	0.51282	0.50000	0.48780	0.0100	100.00
0.995000	0.57143	0.55556	0.54054	0.52632	0.51282	0.50000	0.48780	0.0050	200.00
0.998000	0.57143	0.55556	0.54054	0.52632	0.51282	0.50000	0.48780	0.0020	500.00
0.999000	0.57143	0.55556	0.54054	0.52632	0.51282	0.50000	0.48780	0.0010	1000.0
0.999500	0.57143	0.55556	0.54054	0.52632	0.51282	0.50000	0.48780	0.0005	2000.0
0.999900	0.57143	0.55556	0.54054	0.52632	0.51282	0.50000	0.48780	0.0001	10000.0

Table 2. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=-4.2	Gl=-4.3	Gl=-4.4	Gl=-4.5	Gl=-4.6	Gl=-4.7	Gl=-4.8	Q	T
0.000100	-12.74010	-12.92977	-13.11808	-13.30504	-13.49066	-13.67495	-13.85794	0.9999	1.0001
0.000500	-9.72737	-9.85326	-9.97784	-10.10110	-10.22307	-10.34375	-10.46318	0.9995	1.0005
0.001000	-8.45646	-8.55627	-8.65479	-8.75202	-8.84800	-8.94273	-9.03623	0.9990	1.0010
0.002000	-7.20654	-7.28138	-7.35497	-7.42733	-7.49847	-7.56842	-7.63718	0.9980	1.0020
0.005000	-5.59528	-5.63934	-5.68224	-5.72400	-5.76464	-5.80418	-5.84265	0.9950	1.0050
0.010000	-4.41706	-4.44009	-4.46207	-4.48303	-4.50297	-4.52192	-4.53990	0.9900	1.0101
0.020000	-3.28622	-3.29092	-3.29473	-3.29767	-3.29976	-3.30103	-3.30149	0.9800	1.0204
0.025000	-2.93489	-2.93443	-2.93314	-2.93105	-2.92818	-2.92455	-2.92017	0.9750	1.0256
0.040000	-2.22024	-2.21039	-2.19988	-2.18874	-2.17699	-2.16465	-2.15174	0.9600	1.0417
0.050000	-1.89508	-1.88160	-1.86757	-1.85300	-1.83792	-1.82234	-1.80631	0.9500	1.0526
0.100000	-0.96090	-0.94064	-0.92022	-0.89964	-0.87895	-0.85817	-0.83731	0.9000	1.1111
0.200000	-0.18967	-0.17189	-0.15445	-0.13737	-0.12067	-0.10436	-0.08847	0.8000	1.2500
0.300000	0.14861	0.15939	0.16958	0.17918	0.18819	0.19661	0.20446	0.7000	1.4286
0.400000	0.32049	0.32400	0.32693	0.32928	0.33108	0.33236	0.33315	0.6000	1.6667
0.429624	0.35318	0.35473	0.35572	0.35619	0.35616	0.35567	0.35475	0.5704	1.7532
0.500000	0.40881	0.40621	0.40321	0.39985	0.39617	0.39221	0.38800	0.5000	2.0000
0.570376	0.44212	0.43623	0.43016	0.42394	0.41761	0.41121	0.40477	0.4296	2.3276
0.600000	0.45142	0.44442	0.43734	0.43020	0.42304	0.41590	0.40880	0.4000	2.5000
0.700000	0.46927	0.45967	0.45029	0.44114	0.43223	0.42357	0.41517	0.3000	3.3333
0.800000	0.47504	0.46428	0.45395	0.44402	0.43448	0.42532	0.41652	0.2000	5.0000
0.900000	0.47614	0.46508	0.45452	0.44443	0.43477	0.42553	0.41666	0.1000	10.000
0.950000	0.47619	0.46511	0.45454	0.44444	0.43478	0.42553	0.41667	0.0500	20.000
0.960000	0.47619	0.46512	0.45455	0.44444	0.43478	0.42553	0.41667	0.0400	25.000
0.975000	0.47619	0.46512	0.45455	0.44444	0.43478	0.42553	0.41667	0.0250	40.000
0.980000	0.47619	0.46512	0.45455	0.44444	0.43478	0.42553	0.41667	0.0200	50.000
0.990000	0.47619	0.46512	0.45455	0.44444	0.43478	0.42553	0.41667	0.0100	100.00
0.995000	0.47619	0.46512	0.45455	0.44444	0.43478	0.42553	0.41667	0.0050	200.00
0.998000	0.47619	0.46512	0.45455	0.44444	0.43478	0.42553	0.41667	0.0020	500.00
0.999000	0.47619	0.46512	0.45455	0.44444	0.43478	0.42553	0.41667	0.0010	1000.0
0.999500	0.47619	0.46512	0.45455	0.44444	0.43478	0.42553	0.41667	0.0005	2000.0
0.999900	0.47619	0.46512	0.45455	0.44444	0.43478	0.42553	0.41667	0.0001	10000.0
p	Gl=-4.9	Gl=-5.0	Gl=-5.1	Gl=-5.2	Gl=-5.3	Gl=-5.4	Gl=-5.5	Q	T
0.000100	-14.03963	-14.22004	-14.39918	-14.57706	-14.75370	-14.92912	-15.10332	0.9999	1.0001
0.000500	-10.58135	-10.69829	-10.81401	-10.92853	-11.04186	-11.15402	-11.26502	0.9995	1.0005
0.001000	-9.12852	-9.21961	-9.30952	-9.39827	-9.48586	-9.57232	-9.65766	0.9990	1.0010
0.002000	-7.70479	-7.77124	-7.83657	-7.90078	-7.96390	-8.02594	-8.08691	0.9980	1.0020
0.005000	-5.88004	-5.91639	-5.95171	-5.98602	-6.01934	-6.05169	-6.08307	0.9950	1.0050
0.010000	-4.55694	-4.57304	-4.58823	-4.60252	-4.61594	-4.62850	-4.64022	0.9900	1.0101
0.020000	-3.30116	-3.30007	-3.29823	-3.29567	-3.29240	-3.28844	-3.28381	0.9800	1.0204
0.025000	-2.91508	-2.90930	-2.90283	-2.89572	-2.88796	-2.87959	-2.87062	0.9750	1.0256
0.040000	-2.13829	-2.12432	-2.10985	-2.09490	-2.07950	-2.06365	-2.04739	0.9600	1.0417
0.050000	-1.78982	-1.77292	-1.75563	-1.73795	-1.71992	-1.70155	-1.68287	0.9500	1.0526
0.100000	-0.81641	-0.79548	-0.77455	-0.75364	-0.73277	-0.71195	-0.69122	0.9000	1.1111
0.200000	-0.07300	-0.05798	-0.04340	-0.02927	-0.01561	-0.00243	0.01028	0.8000	1.2500
0.300000	0.21172	0.21843	0.22458	0.23019	0.23527	0.23984	0.24391	0.7000	1.4286
0.400000	0.33347	0.33336	0.33284	0.33194	0.33070	0.32914	0.32729	0.6000	1.6667
0.429624	0.35343	0.35174	0.34972	0.34740	0.34481	0.34198	0.33895	0.5704	1.7532
0.500000	0.38359	0.37901	0.37428	0.36945	0.36453	0.35956	0.35456	0.5000	2.0000
0.570376	0.39833	0.39190	0.38552	0.37919	0.37295	0.36680	0.36076	0.4296	2.3276
0.600000	0.40177	0.39482	0.38799	0.38127	0.37469	0.36825	0.36196	0.4000	2.5000
0.700000	0.40703	0.39914	0.39152	0.38414	0.37701	0.37011	0.36345	0.3000	3.3333
0.800000	0.40806	0.39993	0.39211	0.38458	0.37734	0.37036	0.36363	0.2000	5.0000
0.900000	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.1000	10.000
0.950000	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0500	20.000
0.960000	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0400	25.000
0.975000	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0250	40.000
0.980000	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0200	50.000
0.990000	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0100	100.00
0.995000	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0050	200.00
0.998000	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0020	500.00
0.999000	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0010	1000.0
0.999500	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0005	2000.0
0.999900	0.40816	0.40000	0.39216	0.38462	0.37736	0.37037	0.36364	0.0001	10000.0

Table 2. Percentage points of Pearson Type III distribution (neg skewness)—continued

p	Gl=-5.6	Gl=-5.7	Gl=-5.8	Gl=-5.9	Gl=-6.0	Gl=-6.1	Gl=-6.2	Q	T
0.000100	-15.27632	-15.44813	-15.61878	-15.78826	-15.95660	-16.12380	-16.28989	0.9999	1.0001
0.000500	-11.37487	-11.48360	-11.59122	-11.69773	-11.80316	-11.90752	-12.01082	0.9995	1.0005
0.001000	-9.74190	-9.82505	-9.90713	-9.98815	-10.06812	-10.14706	-10.22499	0.9990	1.0010
0.002000	-8.14683	-8.20572	-8.26359	-8.32046	-8.37634	-8.43125	-8.48519	0.9980	1.0020
0.005000	-6.11351	-6.14302	-6.17162	-6.19933	-6.22616	-6.25212	-6.27723	0.9950	1.0050
0.010000	-4.65111	-4.66120	-4.67050	-4.67903	-4.68680	-4.69382	-4.70013	0.9900	1.0101
0.020000	-3.27854	-3.27263	-3.26610	-3.25898	-3.25128	-3.24301	-3.23419	0.9800	1.0204
0.025000	-2.86107	-2.85096	-2.84030	-2.82912	-2.81743	-2.80525	-2.79259	0.9750	1.0256
0.040000	-2.03073	-2.01369	-1.99629	-1.97855	-1.96048	-1.94210	-1.92343	0.9600	1.0417
0.050000	-1.66390	-1.64464	-1.62513	-1.60538	-1.58541	-1.56524	-1.54487	0.9500	1.0526
0.100000	-0.67058	-0.65006	-0.62966	-0.60941	-0.58933	-0.56942	-0.54970	0.9000	1.1111
0.200000	0.02252	0.03427	0.04553	0.05632	0.06662	0.07645	0.08580	0.8000	1.2500
0.300000	0.24751	0.25064	0.25334	0.25562	0.25750	0.25901	0.26015	0.7000	1.4286
0.400000	0.32519	0.32285	0.32031	0.31759	0.31472	0.31171	0.30859	0.6000	1.6667
0.429624	0.33573	0.33236	0.32886	0.32525	0.32155	0.31780	0.31399	0.5704	1.7532
0.500000	0.34955	0.34455	0.33957	0.33463	0.32974	0.32492	0.32016	0.5000	2.0000
0.570376	0.35484	0.34903	0.34336	0.33782	0.33242	0.32715	0.32202	0.4296	2.3216
0.600000	0.35583	0.34985	0.34402	0.33836	0.33285	0.32750	0.32230	0.4000	2.5000
0.700000	0.35700	0.35078	0.34476	0.33893	0.33330	0.32784	0.32256	0.3000	3.3333
0.800000	0.35714	0.35087	0.34483	0.33898	0.33333	0.32787	0.32258	0.2000	5.0000
0.900000	0.35714	0.35088	0.34483	0.33898	0.33333	0.32787	0.32258	0.1000	10.000
0.950000	0.35714	0.35088	0.34483	0.33898	0.33333	0.32787	0.32258	0.0500	20.000
0.960000	0.35714	0.35088	0.34483	0.33898	0.33333	0.32787	0.32258	0.0400	25.000
0.975000	0.35714	0.35088	0.34483	0.33898	0.33333	0.32787	0.32258	0.0250	40.000
0.980000	0.35714	0.35088	0.34483	0.33898	0.33333	0.32787	0.32258	0.0200	50.000
0.990000	0.35714	0.35088	0.34483	0.33898	0.33333	0.32787	0.32258	0.0100	100.00
0.995000	0.35714	0.35088	0.34483	0.33898	0.33333	0.32787	0.32258	0.0005	2000.0
0.999000	0.35714	0.35088	0.34483	0.33898	0.33333	0.32787	0.32258	0.0001	10000.0
p	Gl=-6.3	Gl=-6.4	Gl=-6.5	Gl=-6.6	Gl=-6.7	Gl=-6.8	Gl=-6.9	Q	T
0.000100	-16.45487	-16.61875	-16.78156	-16.94329	-17.10397	-17.26361	-17.42221	0.9999	1.0001
0.000500	-12.11307	-12.21429	-12.31450	-12.41370	-12.51190	-12.60913	-12.70539	0.9995	1.0005
0.001000	-10.30192	-10.37785	-10.45281	-10.52681	-10.59986	-10.67197	-10.74316	0.9990	1.0010
0.002000	-8.53820	-8.59027	-8.64142	-8.69167	-8.74102	-8.78950	-8.83711	0.9980	1.0020
0.005000	-6.30151	-6.32497	-6.34762	-6.36948	-6.39055	-6.41086	-6.43042	0.9950	1.0050
0.010000	-4.70571	-4.71061	-4.71482	-4.71836	-4.72125	-4.72350	-4.72512	0.9900	1.0101
0.020000	-3.22484	-3.21497	-3.20460	-3.19374	-3.18241	-3.17062	-3.15838	0.9800	1.0204
0.025000	-2.77947	-2.76591	-2.75191	-2.73751	-2.72270	-2.70751	-2.69195	0.9750	1.0256
0.040000	-1.90449	-1.88528	-1.86584	-1.84616	-1.82627	-1.80618	-1.78591	0.9600	1.0417
0.050000	-1.52434	-1.50365	-1.48281	-1.46186	-1.44079	-1.41963	-1.39839	0.9500	1.0526
0.100000	-0.53019	-0.51089	-0.49182	-0.47299	-0.45440	-0.43608	-0.41803	0.9000	1.1111
0.200000	0.09469	0.10311	0.11107	0.11859	0.12566	0.13231	0.13853	0.8000	1.2500
0.300000	0.26097	0.26146	0.26167	0.26160	0.26128	0.26072	0.25995	0.7000	1.4286
0.400000	0.30538	0.30209	0.29875	0.29537	0.29196	0.28854	0.28511	0.6000	1.6667
0.429624	0.31016	0.30631	0.30246	0.29862	0.29480	0.29101	0.28726	0.5704	1.7532
0.500000	0.31549	0.31090	0.30639	0.30198	0.29766	0.29344	0.28931	0.5000	2.0000
0.570376	0.31702	0.31216	0.30743	0.30283	0.29835	0.29400	0.28977	0.4296	2.3276
0.600000	0.31724	0.31234	0.30757	0.30294	0.29844	0.29407	0.28982	0.4000	2.5000
0.700000	0.31745	0.31249	0.30769	0.30303	0.29850	0.29412	0.28985	0.3000	3.3333
0.800000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.2000	5.0000
0.900000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.1000	10.000
0.950000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0500	20.000
0.960000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0400	25.000
0.975000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0250	40.000
0.980000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0200	50.000
0.990000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0100	100.00
0.995000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0050	200.00
0.998000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0020	500.00
0.999000	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0010	1000.0
0.999500	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0005	2000.0
0.999900	0.31746	0.31250	0.30769	0.30303	0.29851	0.29412	0.28986	0.0001	10000.0

Table 2. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=-7.0	Gl=-7.1	Gl=-7.2	Gl=-7.3	Gl=-7.4	Gl=-7.5	Gl=-7.6	Q	T
0.000100	-17.57979	-17.73636	-17.89193	-18.04652	-18.20013	-18.35278	-18.50447	0.9999	1.0001
0.000500	-12.80069	-12.89505	-12.98848	13.08098	-13.17258	-13.26328	-13.35309	0.9995	1.0005
0.001000	-10.81343	-10.88281	-10.95129	-11.01890	-11.08565	-11.15154	-11.21658	0.9990	1.0010
0.002000	-8.88387	-8.92979	-8.97488	-9.01915	-9.06261	-9.10528	-9.14717	0.9980	1.0020
0.005000	-6.44924	-6.46733	-6.48470	-6.50137	-6.51735	-6.53264	-6.54727	0.9950	1.0050
0.010000	-4.72613	-4.72653	-4.72635	-4.72559	-4.72427	-4.72240	-4.71998	0.9900	1.0101
0.020000	-3.14572	-3.13263	-3.11914	-3.10525	-3.09099	-3.07636	-3.06137	0.9800	1.0204
0.025000	-2.67603	-2.65977	-2.64317	-2.62626	-2.60905	-2.59154	-2.57375	0.9750	1.0256
0.040000	-1.76547	-1.74481	-1.72412	-1.70325	-1.68225	-1.66115	-1.63995	0.9600	1.0417
0.050000	-1.37708	-1.35571	-1.33430	-1.31287	-1.29141	-1.26995	-1.24850	0.9500	1.0526
0.100000	-0.40026	-0.38277	-0.36557	-0.34868	-0.33209	-0.31582	-0.29986	0.9000	1.1111
0.200000	0.14434	0.14975	0.15478	0.15942	0.16371	0.16764	0.17123	0.8000	1.2500
0.300000	0.25899	0.25785	0.25654	0.25510	0.25352	0.25183	0.25005	0.7000	1.4286
0.400000	0.28169	0.27829	0.27491	0.27156	0.26825	0.26497	0.26175	0.6000	1.6667
0.429624	0.28355	0.27990	0.27629	0.27274	0.26926	0.26584	0.26248	0.5704	1.7532
0.500000	0.28528	0.28135	0.27751	0.27376	0.27010	0.26654	0.26306	0.5000	2.0000
0.570376	0.28565	0.28164	0.27774	0.27394	0.27025	0.26665	0.26315	0.4296	2.3276
0.600000	0.28569	0.28167	0.27776	0.27396	0.27026	0.26666	0.26315	0.4000	2.5000
0.700000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.3000	3.3333
0.800000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.2000	5.0000
0.900000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.1000	10.000
0.950000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.0500	20.000
0.960000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.0400	25.000
0.975000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.0250	40.000
0.980000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.0200	50.000
0.990000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.0100	100.00
0.995000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.0050	2000.0
0.999000	0.28571	0.28169	0.27778	0.27397	0.27027	0.26667	0.26316	0.0001	10000.
p	Gl=-7.7	Gl=-7.8	Gl=-7.9	Gl=-8.0	Gl=-8.1	Gl=-8.2	Gl=-8.3	Q	T
0.000100	-18.65522	-18.80504	-18.95393	-19.10191	-19.24898	-19.39517	-19.54046	0.9999	1.0001
0.000500	-13.44202	-13.53009	-13.61730	-13.70366	-13.78919	-13.87389	-13.95778	0.9995	1.0005
0.001000	-11.28080	-11.34419	-11.40677	-11.46855	-11.52953	-11.58974	-11.64917	0.9990	1.0010
0.002000	-9.18828	-9.22863	-9.26823	-9.30709	-9.34521	-9.38262	-9.41931	0.9980	1.0020
0.005000	-6.56124	-6.57456	-6.58725	-6.59931	-6.61075	-6.62159	-6.63183	0.9950	1.0050
0.010000	-4.71704	-4.71358	-4.70961	-4.70514	-4.70019	-4.69476	-4.68887	0.9900	1.0101
0.020000	-3.04604	-3.03038	-3.01439	-2.99810	-2.98150	-2.96462	-2.94746	0.9800	1.0204
0.025000	-2.55569	-2.53737	-2.51881	-2.50001	-2.48099	-2.46175	-2.44231	0.9750	1.0256
0.040000	-1.61867	-1.59732	-1.57591	-1.55444	-1.53294	-1.51141	-1.48985	0.9600	1.0417
0.050000	-1.22706	-1.20565	-1.18427	-1.16295	-1.14168	-1.12048	-1.09336	0.9500	1.0526
0.100000	-0.28422	-0.26892	-0.25394	-0.23929	-0.22498	-0.21101	-0.19737	0.9000	1.1111
0.200000	0.17450	0.17746	0.18012	0.18249	0.18459	0.18643	0.18803	0.8000	1.2500
0.300000	0.24817	0.24622	0.24421	0.24214	0.24003	0.23788	0.23571	0.7000	1.4286
0.400000	0.25857	0.25544	0.25236	0.24933	0.24637	0.24345	0.24060	0.6000	1.6667
0.429624	0.25919	0.25596	0.25280	0.24970	0.24667	0.24371	0.24081	0.5704	1.7532
0.500000	0.25966	0.25635	0.25312	0.24996	0.24689	0.24388	0.24095	0.5000	2.0000
0.570376	0.25973	0.25640	0.25316	0.25000	0.24691	0.24390	0.24096	0.4296	2.3276
0.600000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.4000	2.5000
0.700000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.3000	3.3333
0.800000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.2000	5.0000
0.900000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.1000	10.000
0.950000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0500	20.000
0.960000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0400	25.000
0.975000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0250	40.000
0.980000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0200	50.000
0.990000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0100	100.00
0.995000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0050	200.00
0.998000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0020	500.00
0.999000	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0010	1000.0
0.999500	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0005	2000.0
0.999900	0.25974	0.25641	0.25316	0.25000	0.24691	0.24390	0.24096	0.0001	10000.

Table 2. Percentage points of Pearson Type III distribution (neg skewness)—*continued*

p	Gl=-8.4	Gl=-8.5	Gl=-8.6	Gl=-8.7	Gl=-8.8	Gl=-8.9	Gl=-9.0	Q	T
0.000100	-19.68489	-19.82845	-19.97115	-20.11300	-20.25402	-20.39420	-20.53356	0.9999	1.0001
0.000500	-14.04086	-14.12314	-14.20463	-14.28534	-14.36528	-14.44446	-14.52288	0.9995	1.0005
0.001000	-11.70785	-11.76576	-11.82294	-11.87938	-11.93509	-11.99009	-12.04437	0.9990	1.0010
0.002000	-9.45530	-9.49060	-9.52521	-9.55915	-9.59243	-9.62504	-9.65701	0.9980	1.0020
0.005000	-6.64148	-6.65056	-6.65907	-6.66703	-6.67443	-6.68130	-6.68763	0.9950	1.0050
0.010000	-4.68252	-4.67573	-4.66850	-4.66085	-4.65277	-4.64429	-4.63541	0.9900	1.0101
0.020000	-2.93002	-2.91234	-2.89440	-2.87622	-2.85782	-2.83919	-2.82035	0.9800	1.0204
0.025000	-2.42268	-2.40287	-2.38288	-2.36273	-2.34242	-2.32197	-2.30138	0.9750	1.0256
0.040000	-1.46829	-1.44673	-1.42518	-1.40364	-1.38213	-1.36065	-1.33922	0.9600	1.0417
0.050000	-1.07832	-1.05738	-1.03654	-1.01581	-0.99519	-0.97471	-0.95435	0.9500	1.0526
0.100000	-0.18408	-0.17113	-0.15851	-0.14624	-0.13431	-0.12272	-0.11146	0.9000	1.1111
0.200000	0.18939	0.19054	0.19147	0.19221	0.19277	0.19316	0.19338	0.8000	1.2500
0.300000	0.23352	0.23132	0.22911	0.22690	0.22469	0.22249	0.22030	0.7000	1.4286
0.400000	0.23779	0.23505	0.23236	0.22972	0.22714	0.22461	0.22214	0.6000	1.6667
0.429624	0.23797	0.23520	0.23248	0.22982	0.22722	0.22468	0.22219	0.5704	1.7532
0.500000	0.23808	0.23528	0.23255	0.22988	0.22727	0.22472	0.22222	0.5000	2.0000
0.570376	0.23809	0.23529	0.23256	0.22988	0.22727	0.22472	0.22222	0.4296	2.3276
0.600000	0.23810	0.23529	0.23256	0.22988	0.22727	0.22472	0.22222	0.4000	2.5000
0.700000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.3000	3.3333
0.800000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.2000	5.0000
0.900000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.1000	10.000
0.950000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0500	20.000
0.960000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0400	25.000
0.975000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0250	40.000
0.980000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0200	50.000
0.990000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0100	100.00
0.995000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0050	200.00
0.998000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0020	500.00
0.999000	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0010	1000.0
0.999500	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0005	2000.0
0.999900	0.23810	0.23529	0.23256	0.22989	0.22727	0.22472	0.22222	0.0001	10000.