Table H Probabilities for the Wilcoxon Signed-Rank Statistic

Each table entry labeled P is the tail probability from each extreme to the value of T, the Wilcoxon signed-rank statistic for sample side N, where T is interpreted as either T^+ or T^-.

N	*Left tail*	P	*Right tail*	N	*Left tail*	P	*Right tail*	N	*Left tail*	P	*Right tail*
2	0	.250	3	7	0	.008	28	9	0	.002	45
	1	.500	2		1	.016	27		1	.004	44
3	0	.125	6		2	.023	26		2	.006	43
	1	.250	5		3	.039	25		3	.010	42
	2	.375	4		4	.055	24		4	.014	41
	3	.625	3		5	.078	23		5	.020	40
4	0	.062	10		6	.109	22		6	.027	39
	1	.125	9		7	.148	21		7	.037	38
	2	.188	8		8	.188	20		8	.049	37
	3	.312	7		9	.234	19		9	.064	36
	4	.438	6		10	.289	18		10	.082	35
	5	.562	5		11	.344	17		11	.102	34
5	0	.031	15		12	.406	16		12	.125	33
	1	.062	14		13	.469	15		13	.150	32
	2	.094	13		14	.531	14		14	.180	31
	3	.156	12	8	0	.004	36		15	.213	30
	4	.219	11		1	.008	35		16	.248	29
	5	.312	10		2	.012	34		17	.285	28
	6	.406	9		3	.020	33		18	.326	27
	7	.500	8		4	.027	32		19	.367	26
6	0	.016	21		5	.039	31		20	.410	25
	1	.031	20		6	.055	30		21	.455	24
	2	.047	19		7	.074	29		22	.500	23
	3	.078	18		8	.098	28	10	0	.001	55
	4	.109	17		9	.125	27		1	.002	54
	5	.156	16		10	.156	26		2	.003	53
	6	.219	15		11	.191	25		3	.005	52
	7	.281	14		12	.230	24		4	.007	51
	8	.344	13		13	.273	23		5	.010	50
	9	.422	12		14	.320	22		6	.014	49
	10	.500	11		15	.371	21		7	.019	48
					16	.422	20		8	.024	47
					17	.473	19		9	.032	46
					18	.527	18		10	.042	45

(*Continued*)

Table H (*Continued*)

N	*Left tail*	*P*	*Right tail*	*N*	*Left tail*	*P*	*Right tail*	*N*	*Left tail*	*P*	*Right tail*
10	11	.053	44	11	28	.350	38	13	0	.000	91
	12	.065	43		29	.382	37		1	.000	90
	13	.080	42		30	.416	36		2	.000	89
	14	.097	41		31	.449	35		3	.001	88
	15	.116	40		32	.483	34		4	.001	87
	16	.138	39		33	.517	33		5	.001	86
	17	.161	38	12	0	.000	78		6	.002	85
	18	.188	37		1	.000	77		7	.002	84
	19	.216	36		2	.001	76		8	.003	83
	20	.246	35		3	.001	75		9	.004	82
	21	.278	34		4	.002	74		10	.005	81
	22	.312	33		5	.002	73		11	.007	80
	23	.348	32		6	.003	72		12	.009	79
	24	.385	31		7	.005	71		13	.011	78
	25	.423	30		8	.006	70		14	.013	77
	26	.461	29		9	.008	69		15	.016	76
	27	.500	28		10	.010	68		16	.020	75
11	0	.000	66		11	.013	67		17	.024	74
	1	.001	65		12	.017	66		18	.029	73
	2	.001	64		13	.021	65		19	.034	72
	3	.002	63		14	.026	64		20	.040	71
	4	.003	62		15	.032	63		21	.047	70
	5	.005	61		16	.039	62		22	.055	69
	6	.007	60		17	.0456	61		23	.064	68
	7	.009	59		18	.055	60		24	.073	67
	8	.0125	58		19	.065	59		25	.084	66
	9	.016	57		20	.076	58		26	.095	65
	10	.021	56		21	.088	57		27	.108	64
	11	.027	55		22	.102	56		28	.122	63
	12	.034	54		23	.117	55		29	.137	62
	13	.042	53		24	.133	54		30	.153	61
	14	.051	52		25	.151	53		31	.170	60
	15	.062	51		26	.170	52		32	.188	59
	16	.074	50		27	.190	51		33	.207	58
	17	.087	49		28	.212	50		34	.227	57
	18	.103	48		29	.235	49		35	.249	56
	19	.120	47		30	.259	48		36	.271	55
	20	.139	46		31	.285	47		37	.294	54
	21	.160	45		32	.311	46		38	.318	53
	22	.183	44		33	.339	45		39	.342	52
	23	.207	43		34	.367	44		40	.368	51
	24	.232	42		35	.396	43		41	.393	50
	25	.260	41		36	.425	42		42	.420	49
	26	.289	40		37	.455	41		43	.446	48
	27	.319	39		38	.485	40		44	.473	47
					39	.515	39		45	.500	46

(*Continued*)

Table H (*Continued*)

N	*Left tail*	*P*	*Right tail*	*N*	*Left tail*	*P*	*Right tail*	*N*	*Left tail*	*P*	*Right tail*
14	0	.000	105	14	46	.357	59	15	39	.126	81
	1	.000	104		47	.380	58		40	.138	80
	2	.000	103		48	.404	57		41	.151	79
	3	.000	102		49	.428	56		42	.165	78
	4	.000	101		50	.452	55		43	.180	77
	5	.001	100		51	.476	54		44	.195	76
	6	.001	99		52	.500	53		45	.211	75
	7	.001	98	15	0	.000	120		46	.227	74
	8	.002	97		1	.000	119		47	.244	73
	9	.002	96		2	.000	118		48	.262	72
	10	.003	95		3	.000	117		49	.281	71
	11	.003	94		4	.000	116		50	.300	70
	12	.004	93		5	.000	115		51	.319	69
	13	.005	92		6	.000	114		52	.339	68
	14	.007	91		7	.001	113		53	.360	67
	15	.008	90		8	.001	112		54	.381	66
	16	.010	89		9	.001	111		55	.402	65
	17	.012	88		10	.001	110		56	.423	64
	18	.0158	87		11	.002	109		57	.445	63
	19	.018	86		12	.002	108		58	.467	62
	20	.021	85		13	.003	107		59	.489	61
	21	.025	84		14	.003	106		60	.511	60
	22	.029	83		15	.004	105				
	23	.034	82		16	.005	104				
	24	.039	81		17	.006	103				
	25	.045	80		18	.008	102				
	26	.052	79		19	.009	101				
	27	.059	78		20	.011	100				
	28	.068	77		21	.013	99				
	29	.077	76		22	.015	98				
	30	.086	75		23	.018	97				
	31	.097	74		24	.021	96				
	32	.108	73		25	.024	95				
	33	.121	72		26	.028	94				
	34	.134	71		27	.032	93				
	35	.148	70		28	.036	92				
	36	.163	69		29	.042	91				
	37	.179	68		30	.047	90				
	38	.196	67		31	.053	89				
	39	.213	66		32	.060	88				
	40	.232	65		33	.068	87				
	41	.251	64		34	.076	86				
	42	.271	63		35	.084	85				
	43	.292	62		36	.094	84				
	44	.313	61		37	.104	83				
	45	.335	60		38	.115	82				

Source: Adapted from F. Wilcoxon, S.K. Katti, and R. A. Wilcox (1973), Critical values and probability levels for the Wilcoxon rank sum test and the Wilcoxon signed rank test, pp. 171–259 in Institute of Mathematical Statistics, ed., *Selected Tables in Mathematical Statistics* vol. I, American Mathematical Society, Providence, Rhode Island, with permission.

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