

TABLE VIII
Wilcoxon-Mann-Whitney (*W*) Test

The one-sided prob-value (*Pr*) corresponding to the rank sum *W* of the smaller sample, ranking from the end where this smaller sample is concentrated. For $n > 7$ or prob-value $> .25$, see equation (16-18).

<i>n</i> = 2				Larger Sample Size, <i>n</i> = 3						Larger Sample Size, <i>n</i> = 4							
<i>m</i>				Smaller Sample Size, <i>m</i>						Smaller Sample Size, <i>m</i>							
<i>1</i>		<i>2</i>		<i>1</i>		<i>2</i>		<i>3</i>		<i>1</i>		<i>2</i>		<i>3</i>		<i>4</i>	
<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>
1	.333	3	.167	1	.250	3	.100	6	.050	1	.200	3	.067	6	.029	10	.014
		4	.333	2	.500	4	.200	7	.100	2	.400	4	.133	7	.057	11	.029
						5	.400	8	.200			5	.267	8	.114	12	.057
								9	.350			6	.400	9	.200	13	.100
								10	.500					10	.314	14	.171
														11	.429	15	.243
														16	.543		

Larger Sample Size, <i>n</i> = 5										Larger Sample Size, <i>n</i> = 6											
Smaller Sample Size, <i>m</i>										Smaller Sample Size, <i>m</i>											
<i>1</i>		<i>2</i>		<i>3</i>		<i>4</i>		<i>5</i>		<i>1</i>		<i>2</i>		<i>3</i>		<i>4</i>		<i>5</i>		<i>6</i>	
<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>
1	.167	3	.048	6	.018	10	.008	15	.004	1	.143	3	.036	6	.012	10	.005	15	.002	21	.001
2	.333	4	.095	7	.036	11	.016	16	.008	2	.286	4	.071	7	.024	11	.010	16	.004	22	.002
3	.500	5	.190	8	.071	12	.032	17	.016	3	.429	5	.143	8	.048	12	.019	17	.009	23	.004
		6	.286	9	.125	13	.056	18	.028			6	.214	9	.083	13	.033	18	.015	24	.008
		7	.429	10	.196	14	.095	19	.048			7	.321	10	.131	14	.057	19	.026	25	.013
				11	.286	15	.143	20	.075			8	.429	11	.190	15	.086	20	.041	26	.021
				12	.393	16	.206	21	.111					12	.274	16	.129	21	.063	27	.032
				13	.500	17	.278	22	.155					13	.357	17	.176	22	.089	28	.047
						18	.365	23	.210					14	.452	18	.238	23	.123	29	.066
						19	.452	24	.274							19	.305	24	.165	30	.090
								25	.345							20	.381	25	.214	31	.120
								26	.421							21	.457	26	.268	32	.155
								27	.500									27	.331	33	.197
																		28	.396	34	.242
																		29	.465	35	.294

TABLE VIII (Continued)

Larger Sample Size, <i>n</i> = 7													
Smaller Sample Size, <i>m</i>													
<i>1</i>		<i>2</i>		<i>3</i>		<i>4</i>		<i>5</i>		<i>6</i>		<i>7</i>	
<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>	<i>W</i>	<i>Pr</i>
1	.125	3	.028	6	.008	10	.003	15	.001	21	.001	28	.000
2	.250	4	.056	7	.017	11	.006	16	.003	22	.001	29	.001
3	.375	5	.111	8	.033	12	.012	17	.005	23	.002	30	.001
4	.500	6	.167	9	.058	13	.021	18	.009	24	.004	31	.002
		7	.250	10	.092	14	.036	19	.015	25	.007	32	.003
		8	.333	11	.133	15	.055	20	.024	26	.011	33	.006
		9	.444	12	.192	16	.082	21	.037	27	.017	34	.009
				13	.258	17	.115	22	.053	28	.026	35	.013
				14	.333	18	.158	23	.074	29	.037	36	.019
				15	.417	19	.206	24	.101	30	.051	37	.027
						20	.264	25	.134	31	.069	38	.036
						21	.324	26	.172	32	.090	39	.049
						22	.394	27	.216	33	.117	40	.064
						23	.464	28	.265	34	.147	41	.082
								29	.319	35	.183	42	.104
								30	.378	36	.223	43	.130
								31	.438	37	.267	44	.159
								32	.500	38	.314	45	.191
										39	.365	46	.228
										40	.418	47	.267

Def = Introductory Statistic - 3rd ed.
T. W. Wonnacott & D. W. - J. Willey - Sons
1977.