

r 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 0 .9048 .8187 .7408 .6703 .6065 .5488 .4966 .4493 .4066 .3679 1 .0905 .1637 .2222 .2681 .3033 .3293 .3476 .3595 .3659 .3679 2 .0045 .0164 .0333 .0536 .0758 .0988 .1217 .1438 .1647 .1833 3 .0002 .0011 .0003 .0007 .0166 .0300 .0001 .0020 .0001 .0020 .0001 .0002 .0000 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .0011 <th></th> <th colspan="12">For a given value of λ, entry indicates the probability of obtaining a specified value of <i>r</i>.</th>		For a given value of λ , entry indicates the probability of obtaining a specified value of <i>r</i> .											
0 9048 .8187 .7408 .6703 .6065 .5488 .4966 .4493 .4066 .3679 1 .0905 .1637 .2222 .2681 .3033 .3293 .3476 .3595 .3659 .3679 2 .0045 .0164 .0333 .0536 .0758 .0988 .1217 .1438 .1647 .1833 3 .0002 .0011 .0033 .0072 .0126 .0198 .0284 .0383 .0494 .0613 4 .0000 .0001 .0003 .0007 .0016 .0003 .0007 .0111 .0153 5 .0000 <						• •							
1 .0905 .1637 .2222 .2681 .3033 .3293 .3476 .3595 .3659 .3679 2 .0045 .0164 .0333 .0536 .0758 .0988 .1217 .1438 .1647 .1839 3 .0002 .0011 .0033 .0072 .0126 .0188 .0284 .0383 .0494 .0153 5 .0000 .0001 .0003 .0000 .0000 .0000 .0001 .0002 .0001 .0002 .0001 .0000 .00	r	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
2 .0045 .0164 .0333 .0536 .0758 .0988 .1217 .1438 .1647 .1833 3 .0002 .0011 .0033 .0072 .0126 .0198 .0284 .0333 .0494 .0613 4 .0000 .0001 .0003 .0007 .0016 .0003 .0007 .0111 .0153 5 .0000 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .0011 .0111 .0153 .1563 .1496 .16	0	.9048	.8187	.7408	.6703	.6065	.5488	.4966	.4493	.4066	.3679		
3 .0002 .0011 .0033 .0072 .0126 .0198 .0284 .0383 .0494 .0613 4 .0000 .0001 .0003 .0007 .0116 .0030 .0007 .0111 .0153 5 .0000 .0000 .0000 .0000 .0000 .0000 .0001 .0002 .0001 .0002 .0003 .0003 6 .0000 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .0001 .00	1	.0905	.1637	.2222	.2681	.3033	.3293	.3476	.3595	.3659	.3679		
4 .0000 .0001 .0003 .0007 .0016 .0030 .0077 .0111 .0155 5 .0000 .0000 .0000 .0000 .0000 .0001 .0002 .0001 .0002 .0001 .0002 .0001 .0002 .0001 .0002 .0003 .0000	2	.0045	.0164	.0333	.0536	.0758	.0988	.1217	.1438	.1647	.1839		
5 .0000 .0000 .0001 .0002 .0001 .0002 .0003 .0003 6 .0000	3	.0002	.0011	.0033	.0072	.0126	.0198	.0284	.0383	.0494	.0613		
6 .0000 .0	4	.0000	.0001	.0003	.0007	.0016	.0030	.0050	.0077	.0111	.0153		
7 .0000 .0	5	.0000	.0000	.0000	.0001	.0002	.0004	.0007	.0012	.0020	.0031		
r 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 0 .3329 .3012 .2725 .2466 .2231 .2019 .1827 .1653 .1496 .1353 1 .3662 .3614 .3543 .3452 .3347 .3230 .3106 .2975 .2842 .2700 2 .2014 .2169 .2303 .2417 .2510 .2584 .2640 .2678 .2700 .2703 3 .0738 .0867 .0998 .1128 .1255 .1378 .1496 .1607 .1710 .1804 4 .0203 .0260 .0324 .0395 .0471 .0511 .0636 .0723 .0812 .0902 5 .0045 .0062 .0084 .0111 .0141 .0176 .0216 .0027 .0034 6 .0000 .0001 .0001 .0001 .0001 .0001 .0001 .0002 <td>6</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0001</td> <td>.0002</td> <td>.0003</td> <td>.0005</td>	6	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0002	.0003	.0005		
r 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 0 .3329 .3012 .2725 .2466 .2231 .2019 .1827 .1653 .1496 .1353 1 .3662 .3614 .3543 .3452 .3347 .3230 .3106 .2975 .2842 .2700 2 .2014 .2169 .2303 .2417 .2510 .2584 .2640 .2678 .2700 .2703 3 .0738 .0867 .0998 .1128 .1255 .1378 .1496 .1607 .1710 .1804 4 .0203 .0260 .0324 .0395 .0471 .0551 .0636 .0723 .0812 .0902 5 .0045 .0062 .0084 .0111 .0141 .0176 .0216 .0260 .0324 .0393 6 .0000 .0001 .0001 .0001 .0001 .0001 .0001 <td>7</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0000</td> <td>.0001</td>	7	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001		
0 .3329 .3012 .2725 .2466 .2231 .2019 .1827 .1653 .1496 .1353 1 .3662 .3614 .3543 .3452 .3347 .3230 .3106 .2975 .2842 .2707 2 .2014 .2169 .2303 .2417 .2510 .2584 .2640 .2678 .2700 .2707 3 .0738 .0867 .0998 .1128 .1255 .1378 .1496 .1607 .1710 .1804 4 .0203 .0260 .0324 .0395 .0471 .0551 .0636 .0723 .0812 .0902 5 .0045 .0062 .0084 .0111 .0141 .0176 .0216 .0260 .0399 .0367 6 .0008 .0012 .0018 .0026 .0035 .0047 .0061 .0078 .0098 .0120 7 .0001 .0002 .0003 .0001 .0001 .0002 .0003 .0006 .0003 9 .0000 .0000 .0000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>۱</td> <td></td> <td></td> <td></td> <td></td>							۱						
1 .3662 .3614 .3543 .3452 .3347 .3230 .3106 .2975 .2842 .2707 2 .2014 .2169 .2303 .2417 .2510 .2584 .2640 .2678 .2700 .2707 3 .0738 .0867 .0998 .1128 .1255 .1378 .1496 .1607 .1710 .1804 4 .0203 .0260 .0324 .0395 .0471 .0551 .0636 .0723 .0812 .0907 5 .0045 .0062 .0084 .0111 .0141 .0176 .0216 .0260 .0398 .0120 6 .0008 .0012 .0018 .0026 .0035 .0047 .0061 .0078 .0098 .0120 7 .0001 .0002 .0003 .0001	r	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0		
2 .2014 .2169 .2303 .2417 .2510 .2584 .2640 .2678 .2700 .2707 3 .0738 .0867 .0998 .1128 .1255 .1378 .1496 .1607 .1710 .1804 4 .0203 .0260 .0324 .0395 .0471 .0551 .0636 .0723 .0812 .0907 5 .0045 .0062 .0084 .0111 .0141 .0176 .0216 .0260 .0399 .0367 6 .0008 .0012 .0018 .0026 .0035 .0047 .0061 .0078 .0098 .0120 7 .0001 .0002 .0003 .0001 .0001 .0002 .0003 .0005 .0006 .0001	0	.3329	.3012	.2725	.2466	.2231	.2019	.1827	.1653	.1496	.1353		
3 .0738 .0867 .0998 .1128 .1255 .1378 .1496 .1607 .1710 .1804 4 .0203 .0260 .0324 .0395 .0471 .0551 .0636 .0723 .0812 .0902 5 .0045 .0062 .0084 .0111 .0141 .0176 .0216 .0260 .0399 .0367 6 .0008 .0012 .0018 .0026 .0035 .0047 .0061 .0078 .0098 .0126 7 .0001 .0002 .0003 .0005 .0008 .0011 .0015 .0020 .0027 .0034 8 .0000 .0000 .0001	1	.3662	.3614	.3543	.3452	.3347	.3230	.3106	.2975	.2842	.2707		
4 .0203 .0260 .0324 .0395 .0471 .0551 .0636 .0723 .0812 .0902 5 .0045 .0062 .0084 .0111 .0141 .0176 .0216 .0260 .0399 .0367 6 .0008 .0012 .0018 .0026 .0035 .0047 .0061 .0078 .0098 .0120 7 .0001 .0002 .0003 .0005 .0008 .0011 .0015 .0020 .0027 .0034 8 .0000 .0000 .0001 .0001 .0001 .0002 .0003 .0005 .0000 .0001	2	.2014	.2169	.2303	.2417	.2510	.2584	.2640	.2678	.2700	.2707		
5 .0045 .0062 .0084 .0111 .0141 .0176 .0216 .0260 .0309 .0367 6 .0008 .0012 .0018 .0026 .0035 .0047 .0061 .0078 .0098 .0126 7 .0001 .0002 .0003 .0005 .0008 .0011 .0015 .0020 .0027 .0034 8 .0000 .0000 .0001 .0001 .0001 .0002 .0003 .0005 .0006 .0006 .0001 <td< td=""><td>3</td><td>.0738</td><td>.0867</td><td>.0998</td><td>.1128</td><td>.1255</td><td>.1378</td><td>.1496</td><td>.1607</td><td>.1710</td><td>.1804</td></td<>	3	.0738	.0867	.0998	.1128	.1255	.1378	.1496	.1607	.1710	.1804		
6 .0008 .0012 .0018 .0026 .0035 .0047 .0061 .0078 .0098 .0120 7 .0001 .0002 .0003 .0005 .0008 .0011 .0015 .0020 .0027 .0034 8 .0000 .0000 .0001 .0001 .0001 .0002 .0003 .0005 .0006 .0006 9 .0000 .0000 .0000 .0000 .0000 .0001 <td< td=""><td>4</td><td>.0203</td><td>.0260</td><td>.0324</td><td>.0395</td><td>.0471</td><td>.0551</td><td>.0636</td><td>.0723</td><td>.0812</td><td>.0902</td></td<>	4	.0203	.0260	.0324	.0395	.0471	.0551	.0636	.0723	.0812	.0902		
7 .0001 .0002 .0003 .0005 .0008 .0011 .0015 .0020 .0027 .0034 8 .0000 .0000 .0001 .0001 .0001 .0002 .0003 .0005 .0006 .0006 9 .0000 .0000 .0000 .0000 .0000 .0001 .0011 .0011	5	.0045	.0062	.0084	.0111	.0141	.0176	.0216	.0260	.0309	.0361		
8 .0000 .0000 .0001 .0001 .0001 .0002 .0003 .0005 .0006 .0007 9 .0000 .0000 .0000 .0000 .0000 .0000 .0001 <td>6</td> <td>.0008</td> <td>.0012</td> <td>.0018</td> <td>.0026</td> <td>.0035</td> <td>.0047</td> <td>.0061</td> <td>.0078</td> <td>.0098</td> <td>.0120</td>	6	.0008	.0012	.0018	.0026	.0035	.0047	.0061	.0078	.0098	.0120		
9 .0000 .0000 .0000 .0000 .0001 .0	7	.0001	.0002	.0003	.0005	.0008	.0011	.0015	.0020	.0027	.0034		
r 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 0 .1225 .1108 .1003 .0907 .0821 .0743 .0672 .0608 .0550 .0498 1 .2572 .2438 .2306 .2177 .2052 .1931 .1815 .1703 .1596 .1494 2 .2700 .2681 .2652 .2613 .2565 .2510 .2450 .2384 .2314 .2240 3 .1890 .1966 .2033 .2090 .2138 .2176 .2205 .2225 .2237 .2240 4 .0992 .1082 .1169 .1254 .1336 .1414 .1488 .1557 .1622 .1680 5 .0417 .0476 .0538 .0602 .0668 .0735 .0804 .0872 .0940 .1008 6 .0146 .0174 .0206 .0241 .0278 .0319 .0362 <td>8</td> <td>.0000</td> <td>.0000</td> <td>.0001</td> <td>.0001</td> <td>.0001</td> <td>.0002</td> <td>.0003</td> <td>.0005</td> <td>.0006</td> <td>.0009</td>	8	.0000	.0000	.0001	.0001	.0001	.0002	.0003	.0005	.0006	.0009		
r 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 0 .1225 .1108 .1003 .0907 .0821 .0743 .0672 .0608 .0550 .0498 1 .2572 .2438 .2306 .2177 .2052 .1931 .1815 .1703 .1596 .1494 2 .2700 .2681 .2652 .2613 .2565 .2510 .2450 .2384 .2314 .2240 3 .1890 .1966 .2033 .2090 .2138 .2176 .2205 .2225 .2237 .2240 4 .0992 .1082 .1169 .1254 .1336 .1414 .1488 .1557 .1622 .1680 5 .0417 .0476 .0538 .0602 .0668 .0735 .0804 .0872 .0940 .1008 6 .0146 .0174 .0206 .0241 .0278 .0319 .0362	9	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0002		
0 .1225 .1108 .1003 .0907 .0821 .0743 .0672 .0608 .0550 .0498 1 .2572 .2438 .2306 .2177 .2052 .1931 .1815 .1703 .1596 .1494 2 .2700 .2681 .2652 .2613 .2565 .2510 .2450 .2384 .2314 .2240 3 .1890 .1966 .2033 .2090 .2138 .2176 .2205 .2225 .2237 .2240 4 .0992 .1082 .1169 .1254 .1336 .1414 .1488 .1557 .1622 .1680 5 .0417 .0476 .0538 .0602 .0668 .0735 .0804 .0872 .0940 .1008 6 .0146 .0174 .0206 .0241 .0278 .0319 .0362 .0407 .0455 .0504 7 .0044 .0055 .0068 .0083 .0099 .0118 .0139 .0163 .0188 .0216 8 .0011 .0015 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>۱</th> <th></th> <th></th> <th></th> <th></th>							۱						
1 .2572 .2438 .2306 .2177 .2052 .1931 .1815 .1703 .1596 .1494 2 .2700 .2681 .2652 .2613 .2565 .2510 .2450 .2384 .2314 .2240 3 .1890 .1966 .2033 .2090 .2138 .2176 .2205 .2225 .2237 .2240 4 .0992 .1082 .1169 .1254 .1336 .1414 .1488 .1557 .1622 .1680 5 .0417 .0476 .0538 .0602 .0668 .0735 .0804 .0872 .0940 .1008 6 .0146 .0174 .0206 .0241 .0278 .0319 .0362 .0407 .0455 .0504 7 .0044 .0055 .0068 .0083 .0099 .0118 .0139 .0163 .0188 .0216 8 .0011 .0015 .0019 .0025 .0031 .0038 .0047 .0057 .0068 .0087 9 .0003 .0004 <th>r</th> <th>2.1</th> <th>2.2</th> <th>2.3</th> <th>2.4</th> <th>2.5</th> <th>2.6</th> <th>2.7</th> <th>2.8</th> <th>2.9</th> <th>3.0</th>	r	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0		
2 .2700 .2681 .2652 .2613 .2565 .2510 .2450 .2384 .2314 .2240 3 .1890 .1966 .2033 .2090 .2138 .2176 .2205 .2225 .2237 .2240 4 .0992 .1082 .1169 .1254 .1336 .1414 .1488 .1557 .1622 .1680 5 .0417 .0476 .0538 .0602 .0668 .0735 .0804 .0872 .0940 .1008 6 .0146 .0174 .0206 .0241 .0278 .0319 .0362 .0407 .0455 .0504 7 .0044 .0055 .0068 .0033 .0099 .0118 .0139 .0163 .0188 .0216 8 .0011 .0015 .0019 .0025 .0031 .0038 .0047 .0057 .0068 .0083 9 .0003 .0004 .0005 .0007 .0002 .0003 .0004 .0005 .0007 10 .0001 .0001 .0002 <td>0</td> <td>.1225</td> <td>.1108</td> <td>.1003</td> <td>.0907</td> <td>.0821</td> <td>.0743</td> <td>.0672</td> <td>.0608</td> <td>.0550</td> <td>.0498</td>	0	.1225	.1108	.1003	.0907	.0821	.0743	.0672	.0608	.0550	.0498		
3 .1890 .1966 .2033 .2090 .2138 .2176 .2205 .2225 .2237 .2240 4 .0992 .1082 .1169 .1254 .1336 .1414 .1488 .1557 .1622 .1680 5 .0417 .0476 .0538 .0602 .0668 .0735 .0804 .0872 .0940 .1008 6 .0146 .0174 .0206 .0241 .0278 .0319 .0362 .0407 .0455 .0504 7 .0044 .0055 .0068 .0083 .0099 .0118 .0139 .0163 .0188 .0216 8 .0011 .0015 .0019 .0025 .0031 .0038 .0047 .0057 .0068 .0087 9 .0003 .0004 .0005 .0007 .0009 .0011 .0014 .0018 .0022 .0027 10 .0001 .0001 .0002 .0002 .0003 .0004 .0005 .0006 .0006 11 .00000 .0000 .0000<	1	.2572	.2438	.2306	.2177	.2052	.1931	.1815	.1703	.1596	.1494		
4 .0992 .1082 .1169 .1254 .1336 .1414 .1488 .1557 .1622 .1680 5 .0417 .0476 .0538 .0602 .0668 .0735 .0804 .0872 .0940 .1008 6 .0146 .0174 .0206 .0241 .0278 .0319 .0362 .0407 .0455 .0504 7 .0044 .0055 .0068 .0083 .0099 .0118 .0139 .0163 .0188 .0216 8 .0011 .0015 .0019 .0025 .0031 .0038 .0047 .0057 .0068 .0087 9 .0003 .0004 .0005 .0007 .0009 .0011 .0018 .0022 .0027 10 .0001 .0001 .0002 .0002 .0003 .0004 .0005 .0006 11 .0000 .0000 .0000 .0001 .0001 .0002 .0002	2	.2700	.2681	.2652	.2613	.2565	.2510	.2450	.2384	.2314	.2240		
5 .0417 .0476 .0538 .0602 .0668 .0735 .0804 .0872 .0940 .1008 6 .0146 .0174 .0206 .0241 .0278 .0319 .0362 .0407 .0455 .0504 7 .0044 .0055 .0068 .0083 .0099 .0118 .0139 .0163 .0188 .0216 8 .0011 .0015 .0019 .0025 .0031 .0038 .0047 .0057 .0068 .0083 9 .0003 .0004 .0005 .0007 .0009 .0011 .0014 .0018 .0022 .0027 10 .0001 .0001 .0002 .0002 .0003 .0004 .0005 .0006 .0008 11 .0000 .0000 .0000 .0000 .0001 .0001 .0002 .0003	3	.1890	.1966	.2033	.2090	.2138	.2176	.2205	.2225	.2237	.2240		
6 .0146 .0174 .0206 .0241 .0278 .0319 .0362 .0407 .0455 .0504 7 .0044 .0055 .0068 .0083 .0099 .0118 .0139 .0163 .0188 .0216 8 .0011 .0015 .0019 .0025 .0031 .0038 .0047 .0057 .0068 .0083 9 .0003 .0004 .0005 .0007 .0009 .0011 .0014 .0018 .0022 .0027 10 .0001 .0001 .0000 .0000 .0001 .0001 .0002 .0003 .0004 .0005 .0008 11 .0000 .0000 .0000 .0000 .0001 .0001 .0002 .0003	4	.0992	.1082	.1169	.1254	.1336	.1414	.1488	.1557	.1622	.1680		
7 .0044 .0055 .0068 .0083 .0099 .0118 .0139 .0163 .0188 .0216 8 .0011 .0015 .0019 .0025 .0031 .0038 .0047 .0057 .0068 .0087 9 .0003 .0004 .0005 .0007 .0009 .0011 .0014 .0018 .0022 .0027 10 .0001 .0001 .0001 .0002 .0002 .0003 .0004 .0005 .0006 .0008 11 .0000 .0000 .0000 .0000 .0001 .0001 .0002 .0001	5	.0417	.0476	.0538	.0602	.0668	.0735	.0804	.0872	.0940	.1008		
8 .0011 .0015 .0019 .0025 .0031 .0038 .0047 .0057 .0068 .0087 9 .0003 .0004 .0005 .0007 .0009 .0011 .0014 .0018 .0022 .0027 10 .0001 .0001 .0001 .0002 .0002 .0003 .0004 .0005 .0006 .0008 11 .0000 .0000 .0000 .0000 .0001 .0001 .0002 .0003	6	.0146	.0174	.0206	.0241	.0278	.0319	.0362	.0407	.0455	.0504		
9 .0003 .0004 .0005 .0007 .0009 .0011 .0014 .0018 .0022 .0027 10 .0001 .0001 .0001 .0002 .0002 .0003 .0004 .0005 .0006 .0008 11 .0000 .0000 .0000 .0000 .0001 .0001 .0002 .0002	7	.0044	.0055	.0068	.0083	.0099	.0118	.0139	.0163	.0188	.0216		
10 .0001 .0001 .0002 .0002 .0003 .0004 .0005 .0006 .0008 11 .0000 .0000 .0000 .0000 .0001 .0001 .0001 .0002 .0002	8	.0011	.0015	.0019	.0025	.0031	.0038	.0047	.0057	.0068	.0081		
11 .0000 .0000 .0000 .0000 .0001 .0001 .0001 .0002 .0002	9	.0003	.0004	.0005	.0007	.0009	.0011	.0014	.0018	.0022	.0027		
	10	.0001	.0001	.0001	.0002	.0002	.0003	.0004	.0005	.0006	.0008		
12 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000	11	.0000	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0002	.0002		
	12	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001		

TABLE 4 Poisson Probability Distribution



1

Appendix II TABLES A17



TABLE 4continued

	λ										
r	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	
0	.0450	.0408	.0369	.0334	.0302	.0273	.0247	.0224	.0202	.0183	
1	.1397	.1304	.1217	.1135	.1057	.0984	.0915	.0850	.0789	.0733	
2	.2165	.2087	.2008	.1929	.1850	.1771	.1692	.1615	.1539	.1465	
3	.2237	.2226	.2209	.2186	.2158	.2125	.2087	.2046	.2001	.1954	
4	.1734	.1781	.1823	.1858	.1888	.1912	.1931	.1944	.1951	.1954	
5	.1075	.1140	.1203	.1264	.1322	.1377	.1429	.1477	.1522	.1563	
6	.0555	.0608	.0662	.0716	.0771	.0826	.0881	.0936	.0989	.1042	
7	.0246	.2078	.0312	.0348	.0385	.0425	.0466	.0508	.0551	.0595	
8	.0095	.0111	.0129	.0148	.0169	.0191	.0215	.0241	.0269	.0298	
9	.0033	.0040	.0047	.0056	.0066	.0076	.0089	.0102	.0116	.0132	
10	.0010	.0013	.0016	.0019	.0023	.0028	.0033	.0039	.0045	.0053	
11	.0003	.0004	.0005	.0006	.0007	.0009	.0011	.0013	.0016	.0019	
12	.0001	.0001	.0001	.0002	.0002	.0003	.0003	.0004	.0005	.0006	
13	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	.0002	.0002	
14	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	
						١					
r	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	
0	.0166	.0150	.0136	.0123	.0111	.0101	.0091	.0082	.0074	.0067	
1	.0679	.0630	.0583	.0540	.0500	.0462	.0427	.0395	.0365	.0337	
2	.1393	.1323	.1254	.1188	.1125	.1063	.1005	.0948	.0894	.0842	
3	.1904	.1852	.1798	.1743	.1687	.1631	.1574	.1517	.1460	.1404	
4	.1951	.1944	.1933	.1917	.1898	.1875	.1849	.1820	.1789	.1755	
5	.1600	.1633	.1662	.1687	.1708	.1725	.1738	.1747	.1753	.1755	
6	.1093	.1143	.1191	.1237	.1281	.1323	.1362	.1398	.1432	.1462	
7	.0640	.0686	.0732	.0778	.0824	.0869	.0914	.0959	.1002	.1044	
8	.0328	.0360	.0393	.0428	.0463	.0500	.0537	.0575	.0614	.0653	
9	.0150	.0168	.0188	.0209	.0232	.0255	.0280	.0307	.0334	.0363	
10	.0061	.0071	.0081	.0092	.0104	.0118	.0132	.0147	.0164	.0181	
11	.0023	.0027	.0032	.0037	.0043	.0049	.0056	.0064	.0073	.0082	
12	.0008	.0009	.0011	.0014	.0016	.0019	.0022	.0026	.0030	.0034	
13	.0002	.0003	.0004	.0005	.0006	.0007	.0008	.0009	.0011	.0013	
14	.0001	.0001	.0001	.0001	.0002	.0002	.0003	.0003	.0004	.0005	
15	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	.0001	.0002	

Continued



TABLE 4continued

						۱				
r	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0
0	.0061	.0055	.0050	.0045	.0041	.0037	.0033	.0030	.0027	.002
1	.0311	.0287	.0265	.0244	.0225	.0207	.0191	.0176	.0162	.014
2	.0793	.0746	.0701	.0659	.0618	.0580	.0544	.0509	.0477	.044
3	.1348	.1293	.1239	.1185	.1133	.1082	.1033	.0985	.0938	.089
4	.1719	.1681	.1641	.1600	.1558	.1515	.1472	.1428	.1383	.133
5	.1753	.1748	.1740	.1728	.1714	.1697	.1678	.1656	.1632	.160
6	.1490	.1515	.1537	.1555	.1571	.1584	.1594	.1601	.1605	.160
7	.1086	.1125	.1163	.1200	.1234	.1267	.1298	.1326	.1353	.137
8	.0692	.0731	.0771	.0810	.0849	.0887	.0925	.0962	.0998	.103
9	.0392	.0423	.0454	.0486	.0519	.0552	.0586	.0620	.0654	.068
10	.0200	.0220	.0241	.0262	.0285	.0309	.0334	.0359	.0386	.041
11	.0093	.0104	.0116	.0129	.0143	.0157	.0173	.0190	.0207	.022
12	.0039	.0045	.0051	.0058	.0065	.0073	.0082	.0092	.0102	.011
13	.0015	.0018	.0021	.0024	.0028	.0032	.0036	.0041	.0046	.005
14	.0006	.0007	.0008	.0009	.0011	.0013	.0015	.0017	.0019	.002
15	.0002	.0002	.0003	.0003	.0004	.0005	.0006	.0007	.0008	.000
16	.0001	.0001	.0001	.0001	.0001	.0002	.0002	.0002	.0003	.000
17	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.000
						۱				
r	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
0	.0022	.0020	.0018	.0017	.0015	.0014	.0012	.0011	.0010	.000
1	.0137	.0126	.0116	.0106	.0098	.0090	.0082	.0076	.0070	.006
2	.0417	.0390	.0364	.0340	.0318	.0296	.0276	.0258	.0240	.022
3	.0848	.0806	.0765	.0726	.0688	.0652	.0617	.0584	.0552	.052
4	.1294	.1249	.1205	.1162	.1118	.1076	.1034	.0992	.0952	.091
5	.1579	.1549	.1519	.1487	.1454	.1420	.1385	.1349	.1314	.127
6	.1605	.1601	.1595	.1586	.1575	.1562	.1546	.1529	.1511	.149
7	.1399	.1418	.1435	.1450	.1462	.1472	.1480	.1486	.1489	.149
8	.1066	.1099	.1130	.1160	.1188	.1215	.1240	.1263	.1284	.130
9	.0723	.0757	.0791	.0825	.0858	.0891	.0923	.0954	.0985	.101
10	.0441	.0469	.0498	.0528	.0558	.0588	.0618	.0649	.0679	.071
11	.0245	.0265	.0285	.0307	.0330	.0353	.0377	.0401	.0426	.045
12	.0124	.0137	.0150	.0164	.0179	.0194	.0210	.0227	.0245	.026
13	.0058	.0065	.0073	.0081	.0089	.0098	.0108	.0119	.0130	.014
14	.0025	.0029	.0033	.0037	.0041	.0046	.0052	.0058	.0064	.007
15	.0010	.0012	.0014	.0016	.0018	.0020	.0023	.0026	.0029	.003
16	.0004	.0005	.0005	.0006	.0007	.0008	.0010	.0011	.0013	.001
17	.0001	.0002	.0002	.0002	.0003	.0003	.0004	.0004	.0005	.000
18	.0000	.0001	.0001	.0001	.0001	.0001	.0001	.0002	.0002	.000
	.0000	.0000								

Appendix II TABLES A19



TABLE 4continued

					2	١				
r	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0
0	.0008	.0007	.0007	.0006	.0006	.0005	.0005	.0004	.0004	.0003
1	.0059	.0054	.0049	.0045	.0041	.0038	.0035	.0032	.0029	.0027
2	.0208	.0194	.0180	.0167	.0156	.0145	.0134	.0125	.0116	.0107
3	.0492	.0464	.0438	.0413	.0389	.0366	.0345	.0324	.0305	.0286
4	.0874	.0836	.0799	.0764	.0729	.0696	.0663	.0632	.0602	.0573
5	.1241	.1204	.1167	.1130	.1094	.1057	.1021	.0986	.0951	.0916
6	.1468	.1445	.1420	.1394	.1367	.1339	.1311	.1282	.1252	.1221
7	.1489	.1486	.1481	.1474	.1465	.1454	.1442	.1428	.1413	.1396
8	.1321	.1337	.1351	.1363	.1373	.1382	.1388	.1392	.1395	.1396
9	.1042	.1070	.1096	.1121	.1144	.1167	.1187	.1207	.1224	.1241
10	.0740	.0770	.0800	.0829	.0858	.0887	.0914	.0941	.0967	.0993
11	.0478	.0504	.0531	.0558	.0585	.0613	.0640	.0667	.0695	.0722
12	.0283	.0303	.0323	.0344	.0366	.0388	.0411	.0434	.0457	.0481
13	.0154	.0168	.0181	.0196	.0211	.0227	.0243	.0260	.0278	.0296
14	.0078	.0086	.0095	.0104	.0113	.0123	.0134	.0145	.0157	.0169
15	.0037	.0041	.0046	.0051	.0057	.0062	.0069	.0075	.0083	.0090
16	.0016	.0019	.0021	.0024	.0026	.0030	.0033	.0037	.0041	.0045
17	.0007	.0008	.0009	.0010	.0012	.0013	.0015	.0017	.0019	.0021
18	.0003	.0003	.0004	.0004	.0005	.0006	.0006	.0007	.0008	.0009
19	.0001	.0001	.0001	.0002	.0002	.0002	.0003	.0003	.0003	.0004
20	.0000	.0000	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0002
21	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0001
						1				
r	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0
0	.0003	.0003	.0002	.0002	.0002	.0002	.0002	.0002	.0001	.0001
1	.0025	.0023	.0021	.0019	.0017	.0016	.0014	.0013	.0012	.0011
2	.0100	.0092	.0086	.0079	.0074	.0068	.0063	.0058	.0054	.0050
3	.0269	.0252	.0237	.0222	.0208	.0195	.0183	.0171	.0160	.0150
4	.0544	.0517	.0491	.0466	.0443	.0420	.0398	.0377	.0357	.0337
5	.0882	.0849	.0816	.0784	.0752	.0722	.0692	.0663	.0635	.0607
6	.1191	.1160	.1128	.1097	.1066	.1034	.1003	.0972	.0941	.0911
7	.1378	.1358	.1338	.1317	.1294	.1271	.1247	.1222	.1197	.1171
8	.1395	.1392	.1388	.1382	.1375	.1366	.1356	.1344	.1332	.1318
9	.1256	.1269	.1280	.1290	.1299	.1306	.1311	.1315	.1317	.1318
10	.1017	.1040	.1063	.1084	.1104	.1123	.1140	.1157	.1172	.1186
11	.0749	.0776	.0802	.0828	.0853	.0878	.0902	.0925	.0948	.0970
12	.0505	.0530	.0555	.0579	.0604	.0629	.0654	.0679	.0703	.0728
13	.0315	.0334	.0354	.0374	.0395	.0416	.0438	.0459	.0481	.0504
14	.0182	.0196	.0210	.0225	.0240	.0256	.0272	.0289	.0306	.0324
15	.0098	.0107	.0116	.0126	.0136	.0147	.0158	.0169	.0182	.0194

Continued



TABLE 4continued

	λ									
r	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0
16	.0050	.0055	.0060	.0066	.0072	.0079	.0086	.0093	.0101	.0109
17	.0024	.0026	.0029	.0033	.0036	.0040	.0044	.0048	.0053	.0058
18	.0011	.0012	.0014	.0015	.0017	.0019	.0021	.0024	.0026	.0029
19	.0005	.0005	.0006	.0007	.0008	.0009	.0010	.0011	.0012	.0014
20	.0002	.0002	.0002	.0003	.0003	.0004	.0004	.0005	.0005	.0006
21	.0001	.0001	.0001	.0001	.0001	.0002	.0002	.0002	.0002	.0003
22	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	.0001	.0001
					2	۱				
r	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10
0	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0000
1	.0010	.0009	.0009	.0008	.0007	.0007	.0006	.0005	.0005	.0005
2	.0046	.0043	.0040	.0037	.0034	.0031	.0029	.0027	.0025	.0023
3	.0140	.0131	.0123	.0115	.0107	.0100	.0093	.0087	.0081	.0076
4	.0319	.0302	.0285	.0269	.0254	.0240	.0226	.0213	.0201	.0189
5	.0581	.0555	.0530	.0506	.0483	.0460	.0439	.0418	.0398	.0378
6	.0881	.0851	.0822	.0793	.0764	.0736	.0709	.0682	.0656	.0631
7	.1145	.1118	.1091	.1064	.1037	.1010	.0982	.0955	.0928	.0901
8	.1302	.1286	.1269	.1251	.1232	.1212	.1191	.1170	.1148	.1126
9	.1317	.1315	.1311	.1306	.1300	.1293	.1284	.1274	.1263	.1251
10	.1198	.1210	.1219	.1228	.1235	.1241	.1245	.1249	.1250	.1251
11	.0991	.1012	.1031	.1049	.1067	.1083	.1098	.1112	.1125	.1137
12	.0752	.0776	.0799	.0822	.0844	.0866	.0888	.0908	.0928	.0948
13	.0526	.0549	.0572	.0594	.0617	.0640	.0662	.0685	.0707	.0729
14	.0342	.0361	.0380	.0399	.0419	.0439	.0459	.0479	.0500	.0521
15	.0208	.0221	.0235	.0250	.0265	.0281	.0297	.0313	.0330	.0347
16	.0118	.0127	.0137	.0147	.0157	.0168	.0180	.0192	.0204	.0217
17	.0063	.0069	.0075	.0081	.0088	.0095	.0103	.0111	.0119	.0128
18	.0032	.0035	.0039	.0042	.0046	.0051	.0055	.0060	.0065	.0071
19	.0015	.0017	.0019	.0021	.0023	.0026	.0028	.0031	.0034	.0037
20	.0007	.0008	.0009	.0010	.0011	.0012	.0014	.0015	.0017	.0019
21	.0003	.0003	.0004	.0004	.0005	.0006	.0006	.0007	.0008	.0009
22	.0001	.0001	.0002	.0002	.0002	.0002	.0003	.0003	.0004	.0004
23	.0000	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0002	.0002
24	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0001	.0001



Appendix II TABLES A21



TABLE 4continued

	λ									
r	11	12	13	14	15	16	17	18	19	20
0	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
1	.0002	.0001	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
2	.0010	.0004	.0002	.0001	.0000	.0000	.0000	.0000	.0000	.0000
3	.0037	.0018	.0008	.0004	.0002	.0001	.0000	.0000	.0000	.0000
4	.0102	.0053	.0027	.0013	.0006	.0003	.0001	.0001	.0000	.0000
5	.0224	.0127	.0070	.0037	.0019	.0010	.0005	.0002	.0001	.0001
6	.0411	.0255	.0152	.0087	.0048	.0026	.0014	.0007	.0004	.0002
7	.0646	.0437	.0281	.0174	.0104	.0060	.0034	.0018	.0010	.0005
8	.0888	.0655	.0457	.0304	.0194	.0120	.0072	.0042	.0024	.0013
9	.1085	.0874	.0661	.0473	.0324	.0213	.0135	.0083	.0050	.0029
10	.1194	.1048	.0859	.0663	.0486	.0341	.0230	.0150	.0095	.0058
11	.1194	.1144	.1015	.0844	.0663	.0496	.0355	.0245	.0164	.0106
12	.1094	.1144	.1099	.0984	.0829	.0661	.0504	.0368	.0259	.0176
13	.0926	.1056	.1099	.1060	.0956	.0814	.0658	.0509	.0378	.0271
14	.0728	.0905	.1021	.1060	.1024	.0930	.0800	.0655	.0514	.0387
15	.0534	.0724	.0885	.0989	.1024	.0992	.0906	.0786	.0650	.0516
16	.0367	.0543	.0719	.0866	.0960	.0992	.0963	.0884	.0772	.0646
17	.0237	.0383	.0550	.0713	.0847	.0934	.0963	.0936	.0863	.0760
18	.0145	.0256	.0397	.0554	.0706	.0830	.0909	.0936	.0911	.0844
19	.0084	.0161	.0272	.0409	.0557	.0699	.0814	.0887	.0911	.0888
20	.0046	.0097	.0177	.0286	.0418	.0559	.0692	.0798	.0866	.0888
21	.0024	.0055	.0109	.0191	.0299	.0426	.0560	.0684	.0783	.0846
22	.0012	.0030	.0065	.0121	.0204	.0310	.0433	.0560	.0676	.0769
23	.0006	.0016	.0037	.0074	.0133	.0216	.0320	.0438	.0559	.0669
24	.0003	.0008	.0020	.0043	.0083	.0144	.0226	.0328	.0442	.0557
25	.0001	.0004	.0010	.0024	.0050	.0092	.0154	.0237	.0336	.0446
26	.0000	.0002	.0005	.0013	.0029	.0057	.0101	.0164	.0246	.0343
27	.0000	.0001	.0002	.0007	.0016	.0034	.0063	.0109	.0173	.0254
28	.0000	.0000	.0001	.0003	.0009	.0019	.0038	.0070	.0117	.0181
29	.0000	.0000	.0001	.0002	.0004	.0011	.0023	.0044	.0077	.0125
30	.0000	.0000	.0000	.0001	.0002	.0006	.0013	.0026	.0049	.0083
31	.0000	.0000	.0000	.0000	.0001	.0003	.0007	.0015	.0030	.0054
32	.0000	.0000	.0000	.0000	.0001	.0001	.0004	.0009	.0018	.0034
33	.0000	.0000	.0000	.0000	.0000	.0001	.0002	.0005	.0010	.0020
34	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0002	.0006	.0012
35	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0003	.0007
36	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0002	.0004
37	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0002
38	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001
39	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001

Source: Biometricka, June 1964, The χ^2 Distribution, H. L. Herter (Table 7). Used by permission of Oxford University Press.