

Table 2
POISSON DISTRIBUTION FUNCTION: $F(x, \alpha)$

x	0	1	2	3	4	5	6	7	8	9
α										
0.02	0.980	1.000								
0.04	0.961	0.999	1.000							
0.06	0.942	0.998	1.000							
0.08	0.923	0.997	1.000							
0.10	0.905	0.995	1.000							
0.15	0.861	0.990	0.999	1.000						
0.20	0.819	0.982	0.999	1.000						
0.25	0.779	0.974	0.998	1.000						
0.30	0.741	0.963	0.996	1.000						
0.35	0.705	0.951	0.994	1.000						
0.40	0.670	0.938	0.992	0.999	1.000					
0.45	0.638	0.925	0.989	0.999	1.000					
0.50	0.607	0.910	0.986	0.998	1.000					
0.55	0.577	0.894	0.982	0.998	1.000					
0.60	0.549	0.878	0.977	0.997	1.000					
0.65	0.522	0.861	0.972	0.996	0.999	1.000				
0.70	0.497	0.844	0.966	0.994	0.999	1.000				
0.75	0.472	0.827	0.959	0.993	0.999	1.000				
0.80	0.449	0.809	0.953	0.991	0.999	1.000				
0.85	0.427	0.791	0.945	0.989	0.998	1.000				
0.90	0.407	0.772	0.937	0.987	0.998	1.000				
0.95	0.387	0.754	0.929	0.984	0.997	1.000				

POISSON DISTRIBUTION FUNCTION (Continued)

α	0	1	2	3	4	5	6	7	8	9
1.00	0.368	0.736	0.920	0.981	0.996	0.999	1.000			
1.1	0.333	0.699	0.900	0.974	0.995	0.999	1.000			
1.2	0.301	0.663	0.879	0.966	0.992	0.998	1.000			
1.3	0.273	0.627	0.857	0.957	0.989	0.998	1.000			
1.4	0.247	0.592	0.833	0.946	0.986	0.997	0.999	1.000		
1.5	0.223	0.558	0.809	0.934	0.981	0.996	0.999	1.000		
1.6	0.202	0.525	0.783	0.921	0.976	0.994	0.999	1.000		
1.7	0.183	0.493	0.757	0.907	0.970	0.992	0.998	1.000		
1.8	0.165	0.463	0.731	0.891	0.964	0.990	0.997	0.999	1.000	
1.9	0.150	0.434	0.704	0.875	0.956	0.987	0.997	0.999	1.000	
2.0	0.135	0.406	0.677	0.857	0.947	0.983	0.995	0.999	1.000	

12

POISSON DISTRIBUTION FUNCTION (Continued)

α	0	1	2	3	4	5	6	7	8	9
2.2	0.111	0.355	0.623	0.819	0.928	0.975	0.993	0.998	1.000	
2.4	0.091	0.308	0.570	0.779	0.904	0.964	0.988	0.997	0.999	1.000
2.6	0.074	0.267	0.518	0.736	0.877	0.951	0.983	0.995	0.999	1.000
2.8	0.061	0.231	0.469	0.692	0.848	0.935	0.976	0.992	0.998	0.999
3.0	0.050	0.199	0.423	0.647	0.815	0.916	0.966	0.988	0.996	0.999
3.2	0.041	0.171	0.380	0.603	0.781	0.895	0.955	0.983	0.994	0.998
3.4	0.033	0.147	0.340	0.558	0.744	0.871	0.942	0.977	0.992	0.997
3.6	0.027	0.126	0.303	0.515	0.706	0.844	0.927	0.969	0.988	0.996
3.8	0.022	0.107	0.269	0.473	0.668	0.816	0.909	0.960	0.984	0.994
4.0	0.018	0.092	0.238	0.433	0.629	0.785	0.889	0.949	0.979	0.992
4.2	0.015	0.078	0.210	0.395	0.590	0.753	0.867	0.936	0.972	0.989
4.4	0.012	0.066	0.185	0.359	0.551	0.720	0.844	0.921	0.964	0.985
4.6	0.010	0.056	0.163	0.326	0.513	0.686	0.818	0.905	0.955	0.980
4.8	0.008	0.048	0.143	0.294	0.476	0.651	0.791	0.887	0.944	0.975
5.0	0.007	0.040	0.125	0.265	0.440	0.616	0.762	0.867	0.932	0.968
5.2	0.006	0.034	0.109	0.238	0.406	0.581	0.732	0.845	0.918	0.960
5.4	0.005	0.029	0.095	0.213	0.373	0.546	0.702	0.822	0.903	0.951
5.6	0.004	0.024	0.082	0.191	0.342	0.512	0.670	0.797	0.886	0.941
5.8	0.003	0.021	0.072	0.170	0.313	0.478	0.638	0.771	0.867	0.929
6.0	0.002	0.017	0.062	0.151	0.285	0.446	0.606	0.744	0.847	0.916

13

POISSON DISTRIBUTION FUNCTION (Continued)

x	10	11	12	13	14	15	16			
α										
2.8	1.000									
3.0	1.000									
3.2	1.000									
3.4	0.999	1.000								
3.6	0.999	1.000								
3.8	0.998	0.999	1.000							
4.0	0.997	0.999	1.000							
4.2	0.996	0.999	1.000							
4.4	0.994	0.998	0.999	1.000						
4.6	0.992	0.997	0.999	1.000						
4.8	0.990	0.996	0.999	1.000						
5.0	0.986	0.995	0.998	0.999	1.000					
5.2	0.982	0.993	0.997	0.999	1.000					
5.4	0.977	0.990	0.996	0.999	1.000					
5.6	0.972	0.988	0.995	0.998	0.999	1.000				
5.8	0.965	0.984	0.993	0.997	0.999	1.000				
6.0	0.957	0.980	0.991	0.996	0.999	0.999	1.000			
x	0	1	2	3	4	5	6	7	8	9
α										
6.2	0.002	0.015	0.054	0.134	0.259	0.414	0.574	0.716	0.826	0.902
6.4	0.002	0.012	0.046	0.119	0.235	0.384	0.542	0.687	0.803	0.886
6.6	0.001	0.010	0.040	0.105	0.213	0.355	0.511	0.658	0.780	0.869
6.8	0.001	0.009	0.034	0.093	0.192	0.327	0.480	0.628	0.755	0.850

POISSON DISTRIBUTION FUNCTION (Continued)

x	0	1	2	3	4	5	6	7	8	9
α										
7.0	0.001	0.007	0.030	0.082	0.173	0.301	0.450	0.599	0.729	0.830
7.2	0.001	0.006	0.025	0.072	0.156	0.276	0.420	0.569	0.703	0.810
7.4	0.001	0.005	0.022	0.063	0.140	0.253	0.392	0.539	0.676	0.788
7.6	0.001	0.004	0.019	0.055	0.125	0.231	0.365	0.510	0.648	0.765
7.8	0.000	0.004	0.016	0.048	0.112	0.210	0.338	0.481	0.620	0.741
8.0	0.000	0.003	0.014	0.042	0.100	0.191	0.313	0.453	0.593	0.717
8.5	0.000	0.002	0.009	0.030	0.074	0.150	0.256	0.386	0.523	0.653
9.0	0.000	0.001	0.006	0.021	0.055	0.116	0.207	0.324	0.456	0.587
9.5	0.000	0.001	0.004	0.015	0.040	0.089	0.165	0.269	0.392	0.522
10.0	0.000	0.000	0.003	0.010	0.029	0.067	0.130	0.220	0.333	0.458
	10	11	12	13	14	15	16	17	18	19
6.2	0.949	0.975	0.989	0.995	0.998	0.999	1.000			
6.4	0.939	0.969	0.986	0.994	0.997	0.999	1.000			
6.6	0.927	0.963	0.982	0.992	0.997	0.999	0.999	1.000		
6.8	0.915	0.955	0.978	0.990	0.996	0.998	0.999	1.000		
7.0	0.901	0.947	0.973	0.987	0.994	0.998	0.999	1.000		
7.2	0.887	0.937	0.967	0.984	0.993	0.997	0.999	0.999	1.000	
7.4	0.871	0.926	0.961	0.980	0.991	0.996	0.998	0.999	1.000	
7.6	0.854	0.915	0.954	0.976	0.989	0.995	0.998	0.999	1.000	
7.8	0.835	0.902	0.945	0.971	0.986	0.993	0.997	0.999	1.000	
8.0	0.816	0.888	0.936	0.966	0.983	0.992	0.996	0.998	0.999	1.000
8.5	0.763	0.849	0.909	0.949	0.973	0.986	0.993	0.997	0.999	0.999
9.0	0.706	0.803	0.876	0.926	0.959	0.978	0.989	0.995	0.998	0.999
9.5	0.645	0.752	0.836	0.898	0.940	0.967	0.982	0.991	0.996	0.998
10.0	0.583	0.697	0.792	0.864	0.917	0.951	0.973	0.986	0.993	0.997

POISSON DISTRIBUTION (Continued)

x	20	21	22							
α										
8.5	1.000									
9.0	1.000									
9.5	0.999	1.000								
10.0	0.998	0.999	1.000							
x	0	1	2	3	4	5	6	7	8	9
α										
10.5	0.000	0.000	0.002	0.007	0.021	0.050	0.102	0.179	0.279	0.397
11.0	0.000	0.000	0.001	0.005	0.015	0.038	0.079	0.143	0.232	0.341
11.5	0.000	0.000	0.001	0.003	0.011	0.028	0.060	0.114	0.191	0.289
12.0	0.000	0.000	0.001	0.002	0.008	0.020	0.046	0.090	0.155	0.242
12.5	0.000	0.000	0.000	0.002	0.005	0.015	0.035	0.070	0.125	0.201
13.0	0.000	0.000	0.000	0.001	0.004	0.011	0.026	0.054	0.100	0.166
13.5	0.000	0.000	0.000	0.001	0.003	0.008	0.019	0.041	0.079	0.135
14.0	0.000	0.000	0.000	0.000	0.002	0.006	0.014	0.032	0.062	0.109
14.5	0.000	0.000	0.000	0.000	0.001	0.004	0.010	0.024	0.048	0.088
15.0	0.000	0.000	0.000	0.000	0.001	0.003	0.008	0.018	0.037	0.070
	10	11	12	13	14	15	16	17	18	19
10.5	0.521	0.639	0.742	0.825	0.888	0.932	0.960	0.978	0.988	0.994
11.0	0.460	0.579	0.689	0.781	0.854	0.907	0.944	0.968	0.982	0.991
11.5	0.402	0.520	0.633	0.733	0.815	0.878	0.924	0.954	0.974	0.986
12.0	0.347	0.462	0.576	0.682	0.772	0.844	0.899	0.937	0.963	0.979
12.5	0.297	0.406	0.519	0.628	0.725	0.806	0.869	0.916	0.948	0.969

16

POISSON DISTRIBUTION (Continued)

	10	11	12	13	14	15	16	17	18	19
	20	21	22	23	24	25	26	27	28	29
13.0	0.252	0.353	0.463	0.573	0.675	0.764	0.835	0.890	0.930	0.957
13.5	0.211	0.304	0.409	0.518	0.623	0.718	0.798	0.861	0.908	0.942
14.0	0.176	0.260	0.358	0.464	0.570	0.669	0.756	0.827	0.883	0.923
14.5	0.145	0.220	0.311	0.413	0.518	0.619	0.711	0.790	0.853	0.901
15.0	0.118	0.185	0.268	0.363	0.466	0.568	0.664	0.749	0.819	0.875
	20	21	22	23	24	25	26	27	28	29
10.5	0.997	0.999	0.999	1.000						
11.0	0.995	0.998	0.999	1.000						
11.5	0.992	0.996	0.998	0.999	1.000					
12.0	0.988	0.994	0.997	0.999	0.999	1.000				
12.5	0.983	0.991	0.995	0.998	0.999	0.999	1.000			
13.0	0.975	0.986	0.992	0.996	0.998	0.999	1.000			
13.5	0.965	0.980	0.989	0.994	0.997	0.998	0.999	1.000		
14.0	0.952	0.971	0.983	0.991	0.995	0.997	0.999	0.999	1.000	
14.5	0.936	0.960	0.976	0.986	0.992	0.996	0.998	0.999	0.999	1.000
15.0	0.917	0.947	0.967	0.981	0.989	0.994	0.997	0.998	0.999	1.000

17

POISSON DISTRIBUTION (Continued)

∞	4	5	6	7	8	9	10	11	12	13
16 ..	0.000	0.001	0.004	0.010	0.022	0.043	0.077	0.127	0.193	0.275
17 ..	0.000	0.001	0.002	0.005	0.013	0.026	0.049	0.085	0.135	0.201
18 ..	0.000	0.000	0.001	0.003	0.007	0.015	0.030	0.055	0.092	0.143
19 ..	0.000	0.000	0.001	0.002	0.004	0.009	0.018	0.035	0.061	0.098
20 ..	0.000	0.000	0.000	0.001	0.002	0.005	0.011	0.021	0.039	0.066
21 ..	0.000	0.000	0.000	0.000	0.001	0.003	0.006	0.013	0.025	0.043
22 ..	0.000	0.000	0.000	0.000	0.001	0.002	0.004	0.008	0.015	0.228
23 ..	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.004	0.009	0.017
24 ..	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.005	0.011
25 ..	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.003	0.006

18

	14	15	16	17	18	19	20	21	22	23
16 ..	0.368	0.467	0.566	0.659	0.742	0.812	0.868	0.911	0.942	0.963
17 ..	0.281	0.371	0.468	0.564	0.655	0.736	0.805	0.861	0.905	0.937
18 ..	0.208	0.287	0.375	0.469	0.562	0.651	0.731	0.799	0.855	0.899
19 ..	0.150	0.215	0.292	0.378	0.469	0.561	0.647	0.725	0.793	0.849
20 ..	0.105	0.157	0.221	0.297	0.381	0.470	0.559	0.644	0.721	0.787
21 ..	0.072	0.111	0.163	0.227	0.302	0.384	0.471	0.558	0.640	0.716
22 ..	0.048	0.077	0.117	0.169	0.232	0.306	0.387	0.472	0.556	0.637
23 ..	0.031	0.052	0.082	0.123	0.175	0.238	0.310	0.389	0.472	0.555
24 ..	0.020	0.034	0.056	0.087	0.126	0.180	0.243	0.314	0.392	0.473
25 ..	0.012	0.022	0.038	0.060	0.092	0.134	0.185	0.247	0.318	0.394

POISSON DISTRIBUTION

	24	25	26	27	28	29	30	31	32	33
16 ..	0.978	0.987	0.993	0.996	0.998	0.999	0.999	1.000		
17 ..	0.959	0.975	0.985	0.991	0.995	0.997	0.999	0.999	1.000	
18 ..	0.932	0.955	0.972	0.983	0.990	0.994	0.997	0.998	0.999	1.000
19 ..	0.893	0.927	0.951	0.969	0.980	0.988	0.993	0.996	0.998	0.999
20 ..	0.843	0.888	0.922	0.948	0.966	0.978	0.987	0.992	0.995	0.997
21 ..	0.782	0.838	0.883	0.917	0.944	0.963	0.976	0.985	0.991	0.994
22 ..	0.712	0.777	0.832	0.877	0.913	0.940	0.959	0.973	0.983	0.989
23 ..	0.635	0.708	0.772	0.827	0.873	0.908	0.936	0.956	0.971	0.981
24 ..	0.554	0.632	0.704	0.768	0.823	0.868	0.904	0.932	0.953	0.969
25 ..	0.473	0.553	0.629	0.700	0.763	0.818	0.863	0.900	0.929	0.950

19

	34	35	36	37	38	39	40	41	42	43
19 ..	0.999	1.000								
20 ..	0.999	0.999	1.000							
21 ..	0.997	0.998	0.999	0.999	1.000					
22 ..	0.994	0.996	0.998	0.999	0.999	1.000				
23 ..	0.988	0.983	0.996	0.997	0.999	0.999	1.000			
24 ..	0.979	0.987	0.992	0.995	0.997	0.998	0.999	0.999	1.000	
25 ..	0.966	0.978	0.985	0.991	0.994	0.997	0.998	0.999	0.999	1.000