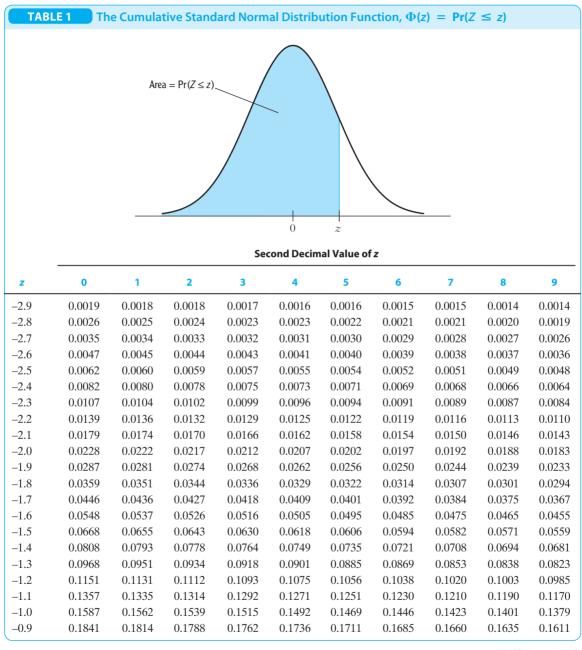
Appendix



(Table 1 continued)

(Table 1 continued)

	Second Decimal Value of z											
z	0	1	2	3	4	5	6	7	8	9		
-0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867		
-0.7	0.2420	0.2389	0.2358	0.2327	0.2296	0.2266	0.2236	0.2206	0.2177	0.2148		
-0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.245		
-0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.277		
-0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.312		
-0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.348		
-0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859		
-0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.424		
-0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.464		
0.0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359		
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.575		
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.614		
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.651		
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879		
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.722		
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.754		
0.7	0.7580	0.7611	0.7642	0.7673	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852		
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.813		
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389		
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.862		
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830		
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.901:		
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.917		
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319		
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.944		
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.954		
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633		
1.8	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.970		
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.976		
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.981		
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.985		
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.989		
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.991		
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.993		
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952		
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.996		
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.997		
2.8	0.9903	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9972	0.9980	0.998		
2.9	0.9981	0.9973	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.998		

This table can be used to calculate $Pr(Z \le z)$ where Z is a standard normal variable. For example, when z = 1.17, this probability

is 0.8790, which is the table entry for the row labeled 1.1 and the column labeled 7.

	Significance Level										
Degrees of Freedom	20% (2-Sided) 10% (1-Sided)	10% (2-Sided) 5% (1-Sided)	5% (2-Sided) 2.5% (1-Sided)	2% (2-Sided) 1% (1-Sided)	1% (2-Sided) 0.5% (1-Sided						
1	3.08	6.31	12.71	31.82	63.66						
2	1.89	2.92	4.30	6.96	9.92						
3	1.64	2.35	3.18	4.54	5.84						
4	1.53	2.13	2.78	3.75	4.60						
5	1.48	2.02	2.57	3.36	4.03						
6	1.44	1.94	2.45	3.14	3.71						
7	1.41	1.89	2.36	3.00	3.50						
8	1.40	1.86	2.31	2.90	3.36						
9	1.38	1.83	2.26	2.82	3.25						
10	1.37	1.81	2.23	2.76	3.17						
11	1.36	1.80	2.20	2.72	3.11						
12	1.36	1.78	2.18	2.68	3.05						
13	1.35	1.77	2.16	2.65	3.01						
14	1.35	1.76	2.14	2.62	2.98						
15	1.34	1.75	2.13	2.60	2.95						
16	1.34	1.75	2.12	2.58	2.92						
17	1.33	1.74	2.11	2.57	2.90						
18	1.33	1.73	2.10	2.55	2.88						
19	1.33	1.73	2.09	2.54	2.86						
20	1.33	1.72	2.09	2.53	2.85						
21	1.32	1.72	2.08	2.52	2.83						
22	1.32	1.72	2.07	2.51	2.82						
23	1.32	1.71	2.07	2.50	2.81						
24	1.32	1.71	2.06	2.49	2.80						
25	1.32	1.71	2.06	2.49	2.79						
26	1.32	1.71	2.06	2.48	2.78						
27	1.31	1.70	2.05	2.47	2.77						
28	1.31	1.70	2.05	2.47	2.76						
29	1.31	1.70	2.05	2.46	2.76						
30	1.31	1.70	2.04	2.46	2.75						
60	1.30	1.67	2.00	2.39	2.66						
90	1.29	1.66	1.99	2.37	2.63						
120	1.29	1.66	1.98	2.36	2.62						
120	1.49	1.00	1.70	2.30	2.02						

Values are shown for the critical values for two-sided (\neq) and one-sided (>) alternative hypotheses. The critical value for the one-sided (<) test is the negative of the one-sided (<) critical value shown in the table. For example, 2.13 is the critical value for a two-sided test with a significance level of 5% using the Student t distribution with 15 degrees of freedom.

1.96

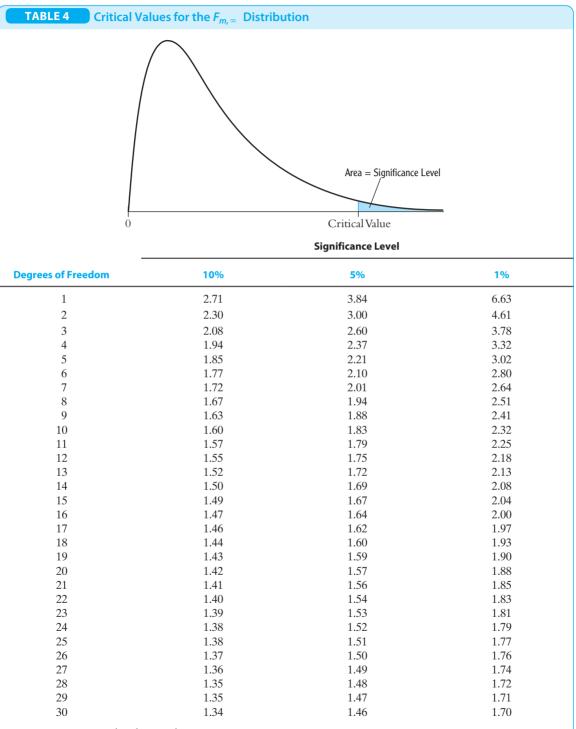
2.33

2.58

1.64

1.28

 ∞



This table contains the 90th, 95th, and 99th percentiles of the $F_{m,\infty}$ distribution. These serve as critical values for tests with significance levels of 10%, 5%, and 1%.