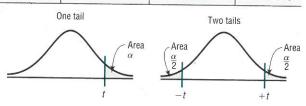
Table F	The <i>t</i> Distribution												
d.f.	Confidence intervals One tail, α Two tails, α	80 % 0.10 0.20	90 % 0.05 0.10	95% 0.025 0.05	98% 0.01 0.02	99% 0.005 0.01							
							1		3.078	. 6.314	12.706	31.821	63.657
							2		1.886	2.920	4.303	6.965	9.925
3		1.638	2.353	3.182	4.541	5.841							
4		1.533	2.132	2.776	3.747	4.604							
5		1.476	2.015	2.571	3.365	4.004							
6		1.440	1.943	2.447	3.143	3.707							
7		1.415	1.895	2.365	2.998	3.499							
8		1.397	1.860	2.306	2.896	3.499							
9		1.383	1.833	2.262	2.821	3.250							
10		1.372	1.812	2.228	2.764	3.169							
11		1.363	1.796	2.201	2.718	3.106							
12		1.356	1.782	2.179	2.681	3.106							
13		1.350	1.771	2.160	2.650	3.033							
14		1.345	1.761	2.145	2.624	2.977							
15		1.341	1.753	2.131	2.602	2.947							
16		1.337	1.746	2.120	2.583	2.947							
17		1.333	1.740	2.110	2.567								
18		1.330	1.734	2.101	2.552	2.898							
19		1.328	1.729	2.093		2.878							
20		1.325	1.725	2.086	2.539	2.861							
21		1.323	1.721	2.080	2.528	2.845							
22		1.321	1.717	2.074	2.518	2.831							
23		1.319	1.714	2.069	2.508	2.819							
24		1.318	1.711		2.500	2.807							
25		1.316	1.708	2.064	2.492	2.797							
26		1.315	1.706	2.060	2.485	2.787							
27		1.314	1.703	2.056	2.479	2.779							
28		1.313	1.701	2.052	2.473	2.771							
29		1.313		2.048	2.467	2.763							
30		1.310	1.699	2.045	2.462	2.756							
32		1.310	1.697 1.694	2.042	2.457	2.750							
34		1.307		2.037	2.449	2.738							
36		1.306	1.691	2.032	2.441	2.728							
38	The second second	1.304	1.688	2.028	2.434	2.719							
40			1.686	2.024	2.429	2.712							
45		1.303	1.684	2.021	2.423	2.704							
50		1.301	1.679	2.014	2.412	2.690							
55		1.299	1.676	2.009	2.403	2.678							
60		1.297	1.673	2.004	2.396	2.668							
65		1.296	1.671	2.000	2.390	2.660							
70		1.295	1.669	1.997	2.385	2.654							
75		1.294	1.667	1.994	2.381	2.648							
80		1.293	1.665	1.992	2.377	. 2.643							
90		1.292	1.664	1.990	2.374	2.639							
100		1.291	1.662	1.987	2.368	2.632							
500		1.290	1.660	1.984	2.364	2.626							
		1.283	1.648	1.965	2.334	2.586							
1000		1.282	1.646	1.962	2.330	2.581							
(z) ∞		1.282^{a}	1.645 ^b	1.960	2.326^{c}	2.576^{d}							

^aThis value has been rounded to 1.28 in the textbook.

Source: Adapted from W. H. Beyer, Handbook of Tables for Probability and Statistics, 2nd ed., CRC Press, Boca Raton, Fla., 1986. Reprinted with permission.



 $^{{}^{}b}$ This value has been rounded to 1.65 in the textbook.

^cThis value has been rounded to 2.33 in the textbook.

^dThis value has been rounded to 2.58 in the textbook.