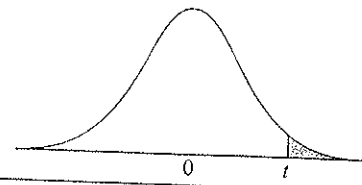


TABLE 4 Critical Values of Student's *t* Distribution



	0										t
df	UPPER TAIL PROBABILITY										
	0.20	0.10	0.05	0.04	0.03	0.025	0.02	0.01	0.005	0.0005	
1	1.376	3.078	6.314	7.916	10.579	12.706	15.895	31.821	63.657	636.619	
2	1.061	1.886	2.920	3.320	3.896	4.303	4.849	6.965	9.925	31.599	
3	0.978	1.638	2.353	2.605	2.951	3.182	3.482	4.541	5.841	12.924	
4	0.941	1.533	2.132	2.333	2.601	2.776	2.999	3.747	4.604	8.610	
5	0.920	1.476	2.015	2.191	2.422	2.571	2.757	3.365	4.032	6.869	
6	0.906	1.440	1.943	2.104	2.313	2.447	2.612	3.143	3.707	5.959	
7	0.896	1.415	1.895	2.046	2.241	2.365	2.517	2.998	3.499	5.408	
8	0.889	1.397	1.860	2.004	2.189	2.306	2.449	2.896	3.355	5.041	
9	0.883	1.383	1.833	1.973	2.150	2.262	2.398	2.821	3.250	4.781	
10	0.879	1.372	1.812	1.948	2.120	2.228	2.359	2.764	3.169	4.587	
11	0.876	1.363	1.796	1.928	2.096	2.201	2.328	2.718	3.106	4.437	
12	0.873	1.356	1.782	1.912	2.076	2.179	2.303	2.681	3.055	4.318	
13	0.870	1.350	1.771	1.899	2.060	2.160	2.282	2.650	3.012	4.221	
14	0.868	1.345	1.761	1.888	2.046	2.145	2.264	2.624	2.977	4.140	
15	0.866	1.341	1.753	1.878	2.034	2.131	2.249	2.602	2.947	4.073	
16	0.865	1.337	1.746	1.869	2.024	2.120	2.235	2.583	2.921	4.015	
17	0.863	1.333	1.740	1.862	2.015	2.110	2.224	2.567	2.898	3.965	
18	0.862	1.330	1.734	1.855	2.007	2.101	2.214	2.552	2.878	3.922	
19	0.861	1.328	1.729	1.850	2.000	2.093	2.205	2.539	2.861	3.883	
20	0.860	1.325	1.725	1.844	1.994	2.086	2.197	2.528	2.845	3.850	
21	0.859	1.323	1.721	1.840	1.988	2.080	2.189	2.518	2.831	3.819	
22	0.858	1.321	1.717	1.835	1.983	2.074	2.183	2.508	2.819	3.792	
23	0.858	1.319	1.714	1.832	1.978	2.069	2.177	2.500	2.807	3.768	
24	0.857	1.318	1.711	1.828	1.974	2.064	2.172	2.492	2.797	3.745	
25	0.856	1.316	1.708	1.825	1.970	2.060	2.167	2.485	2.787	3.725	
26	0.856	1.315	1.706	1.822	1.967	2.056	2.162	2.479	2.779	3.707	
27	0.855	1.314	1.703	1.819	1.963	2.052	2.158	2.473	2.771	3.690	
28	0.855	1.313	1.701	1.817	1.960	2.048	2.154	2.467	2.763	3.674	
29	0.854	1.311	1.699	1.814	1.957	2.045	2.150	2.462	2.756	3.659	
30	0.854	1.310	1.697	1.812	1.955	2.042	2.147	2.457	2.750	3.646	
40	0.851	1.303	1.684	1.796	1.936	2.021	2.123	2.423	2.704	3.551	
50	0.849	1.299	1.676	1.787	1.924	2.009	2.109	2.403	2.678	3.496	
60	0.848	1.296	1.671	1.781	1.917	2.000	2.099	2.390	2.660	3.460	
70	0.847	1.294	1.667	1.776	1.912	1.994	2.093	2.381	2.648	3.435	
80	0.846	1.292	1.664	1.773	1.908	1.990	2.088	2.374	2.639	3.416	
100	0.845	1.290	1.660	1.769	1.902	1.984	2.081	2.364	2.626	3.390	
140	0.844	1.288	1.656	1.763	1.896	1.977	2.073	2.353	2.611	3.361	
1000	0.842	1.282	1.646	1.752	1.883	1.962	2.056	2.330	2.581	3.300	
∞	0.842	1.282	1.645	1.751	1.881	1.960	2.054	2.326	2.576	3.291	
	60%	80%	90%	92%	94%	95%	96%	98%	99%	99.9%	
	CONFIDENCE LEVEL										