

Student-T Distribution

df	$t_{\alpha}$ -values in table.												P
$\downarrow$	20%	15%	10%	7.5%	5.0%	2.5%	2.0%	1%	0.75%	0.5%	0.25%	0.05%	
1	1.376	1.963	3.078	4.165	6.314	12.71	15.89	31.82	42.43	63.66	127.3	636.6	
2	1.061	1.386	1.886	2.282	2.920	4.303	4.849	6.965	8.073	9.925	14.09	31.60	
3	0.9785	1.250	1.638	1.924	2.353	3.182	3.482	4.541	5.047	5.841	7.453	12.92	
4	0.9410	1.190	1.533	1.778	2.132	2.776	2.999	3.747	4.088	4.604	5.598	8.610	
5	0.9195	1.156	1.476	1.699	2.015	2.571	2.757	3.365	3.634	4.032	4.773	6.869	
6	0.9057	1.134	1.440	1.650	1.943	2.447	2.612	3.143	3.372	3.707	4.317	5.959	
7	0.8960	1.119	1.415	1.617	1.895	2.365	2.517	2.998	3.203	3.499	4.029	5.408	
8	0.8889	1.108	1.397	1.592	1.860	2.306	2.449	2.896	3.085	3.355	3.833	5.041	
9	0.8834	1.100	1.383	1.574	1.833	2.262	2.398	2.821	2.998	3.250	3.690	4.781	
10	0.8791	1.093	1.372	1.559	1.812	2.228	2.359	2.764	2.932	3.169	3.581	4.587	
11	0.8755	1.088	1.363	1.548	1.796	2.201	2.328	2.718	2.879	3.106	3.497	4.437	
12	0.8726	1.083	1.356	1.538	1.782	2.179	2.303	2.681	2.836	3.055	3.428	4.318	
13	0.8702	1.079	1.350	1.530	1.771	2.160	2.282	2.650	2.801	3.012	3.372	4.221	
14	0.8681	1.076	1.345	1.523	1.761	2.145	2.264	2.624	2.771	2.977	3.326	4.140	
15	0.8662	1.074	1.341	1.517	1.753	2.131	2.249	2.602	2.746	2.947	3.286	4.073	
16	0.8647	1.071	1.337	1.512	1.746	2.120	2.235	2.583	2.724	2.921	3.252	4.015	
17	0.8633	1.069	1.333	1.508	1.740	2.110	2.224	2.567	2.706	2.898	3.222	3.965	
18	0.8620	1.067	1.330	1.504	1.734	2.101	2.214	2.552	2.689	2.878	3.197	3.922	
19	0.8610	1.066	1.328	1.500	1.729	2.093	2.205	2.539	2.674	2.861	3.174	3.883	
20	0.8600	1.064	1.325	1.497	1.725	2.086	2.197	2.528	2.661	2.845	3.153	3.850	
21	0.8591	1.063	1.323	1.494	1.721	2.080	2.189	2.518	2.649	2.831	3.135	3.819	
22	0.8583	1.061	1.321	1.492	1.717	2.074	2.183	2.508	2.639	2.819	3.119	3.792	
23	0.8575	1.060	1.319	1.489	1.714	2.069	2.177	2.500	2.629	2.807	3.104	3.768	
24	0.8569	1.059	1.318	1.487	1.711	2.064	2.172	2.492	2.620	2.797	3.091	3.745	
25	0.8562	1.058	1.316	1.485	1.708	2.060	2.167	2.485	2.612	2.787	3.078	3.725	
26	0.8557	1.058	1.315	1.483	1.706	2.056	2.162	2.479	2.605	2.779	3.067	3.707	
27	0.8551	1.057	1.314	1.482	1.703	2.052	2.158	2.473	2.598	2.771	3.057	3.690	
28	0.8546	1.056	1.313	1.480	1.701	2.048	2.154	2.467	2.592	2.763	3.047	3.674	
29	0.8542	1.055	1.311	1.479	1.699	2.045	2.150	2.462	2.586	2.756	3.038	3.659	
30	0.8538	1.055	1.310	1.477	1.697	2.042	2.147	2.457	2.581	2.750	3.030	3.646	
40	0.8507	1.050	1.303	1.468	1.684	2.021	2.123	2.423	2.542	2.704	2.971	3.551	
60	0.8477	1.045	1.296	1.458	1.671	2.000	2.099	2.390	2.504	2.660	2.915	3.460	
120	0.8446	1.041	1.289	1.449	1.658	1.980	2.076	2.358	2.468	2.617	2.860	3.373	
9999	0.8417	1.036	1.282	1.440	1.645	1.960	2.054	2.327	2.433	2.576	2.808	3.292	

Student-T Distribution

$t_{\alpha}$  -values in table.

$\nu$	99.95%	99.75%	99.5%	99.25%	99.0%	98%	97.5%	95%	92.5%	90%	85%	80%	P
1	-637	-127	-63.7	-42.43	-31.82	-15.89	-12.71	-6.314	-4.165	-3.078	-1.963	-1.376	
2	-31.60	-14.09	-9.925	-8.073	-6.965	-4.849	-4.30	-2.920	-2.282	-1.886	-1.386	-1.061	
3	-12.924	-7.453	-5.841	-5.047	-4.541	-3.482	-3.182	-2.353	-1.924	-1.638	-1.250	-0.978	T
4	-8.610	-5.598	-4.604	-4.088	-3.747	-2.999	-2.776	-2.132	-1.778	-1.533	-1.190	-0.941	
5	-6.869	-4.773	-4.032	-3.634	-3.365	-2.757	-2.571	-2.015	-1.699	-1.476	-1.156	-0.920	
6	-5.959	-4.317	-3.707	-3.372	-3.143	-2.612	-2.447	-1.943	-1.650	-1.440	-1.134	-0.906	
7	-5.408	-4.029	-3.499	-3.203	-2.998	-2.517	-2.365	-1.895	-1.617	-1.415	-1.119	-0.896	
8	-5.041	-3.833	-3.355	-3.085	-2.896	-2.449	-2.306	-1.860	-1.592	-1.397	-1.108	-0.889	
9	-4.781	-3.690	-3.250	-2.998	-2.821	-2.398	-2.262	-1.833	-1.574	-1.383	-1.100	-0.883	
10	-4.587	-3.581	-3.169	-2.932	-2.764	-2.359	-2.228	-1.812	-1.559	-1.372	-1.093	-0.879	
11	-4.437	-3.497	-3.106	-2.879	-2.718	-2.328	-2.201	-1.796	-1.548	-1.363	-1.088	-0.876	
12	-4.318	-3.428	-3.055	-2.836	-2.681	-2.303	-2.179	-1.782	-1.538	-1.356	-1.083	-0.873	
13	-4.221	-3.372	-3.012	-2.801	-2.650	-2.282	-2.160	-1.771	-1.530	-1.350	-1.079	-0.870	
14	-4.140	-3.326	-2.977	-2.771	-2.624	-2.264	-2.145	-1.761	-1.523	-1.345	-1.076	-0.868	
15	-4.073	-3.286	-2.947	-2.746	-2.602	-2.249	-2.131	-1.753	-1.517	-1.341	-1.074	-0.866	
16	-4.015	-3.252	-2.921	-2.724	-2.583	-2.235	-2.120	-1.746	-1.512	-1.337	-1.071	-0.865	
17	-3.965	-3.222	-2.898	-2.706	-2.567	-2.224	-2.110	-1.740	-1.508	-1.333	-1.069	-0.863	
18	-3.922	-3.197	-2.878	-2.689	-2.552	-2.214	-2.101	-1.734	-1.504	-1.330	-1.067	-0.862	
19	-3.883	-3.174	-2.861	-2.674	-2.539	-2.205	-2.093	-1.729	-1.500	-1.328	-1.066	-0.861	
20	-3.850	-3.153	-2.845	-2.661	-2.528	-2.197	-2.086	-1.725	-1.497	-1.325	-1.064	-0.860	
21	-3.819	-3.135	-2.831	-2.649	-2.518	-2.189	-2.080	-1.721	-1.494	-1.323	-1.063	-0.859	
22	-3.792	-3.119	-2.819	-2.639	-2.508	-2.183	-2.074	-1.717	-1.492	-1.321	-1.061	-0.858	
23	-3.768	-3.104	-2.807	-2.629	-2.500	-2.177	-2.069	-1.714	-1.489	-1.319	-1.060	-0.858	
24	-3.745	-3.091	-2.797	-2.620	-2.492	-2.172	-2.064	-1.711	-1.487	-1.318	-1.059	-0.857	
25	-3.725	-3.078	-2.787	-2.612	-2.485	-2.167	-2.060	-1.708	-1.485	-1.316	-1.058	-0.856	
26	-3.707	-3.067	-2.779	-2.605	-2.479	-2.162	-2.056	-1.706	-1.483	-1.315	-1.058	-0.856	
27	-3.690	-3.057	-2.771	-2.598	-2.473	-2.158	-2.052	-1.703	-1.482	-1.314	-1.057	-0.855	
28	-3.674	-3.047	-2.763	-2.592	-2.467	-2.154	-2.048	-1.701	-1.480	-1.313	-1.056	-0.855	
29	-3.659	-3.038	-2.756	-2.586	-2.462	-2.150	-2.045	-1.699	-1.479	-1.311	-1.055	-0.854	
30	-3.646	-3.030	-2.750	-2.581	-2.457	-2.147	-2.042	-1.697	-1.477	-1.310	-1.055	-0.854	
40	-3.551	-2.971	-2.704	-2.542	-2.423	-2.123	-2.021	-1.684	-1.468	-1.303	-1.050	-0.851	
60	-3.460	-2.915	-2.660	-2.504	-2.390	-2.099	-2.000	-1.671	-1.458	-1.296	-1.045	-0.848	
120	-3.373	-2.860	-2.617	-2.468	-2.358	-2.076	-1.980	-1.658	-1.449	-1.289	-1.041	-0.845	
9999	-3.292	-2.808	-2.576	-2.433	-2.327	-2.054	-1.960	-1.645	-1.440	-1.282	-1.036	-0.842	

$t_{\alpha}$  -values in table.