

## t – Distribution (Critical Values)

		Confidence level				
		80%	90%	95%	98%	99%
		Area in one tail				
		0.10	0.05	0.025	0.01	0.005
		Area in two tails				
		0.20	0.10	0.05	0.02	0.01
<b>df</b>	<b>1</b>	3.078	6.314	12.706	31.821	63.657
	<b>2</b>	1.886	2.920	4.303	6.965	9.925
	<b>3</b>	1.638	2.353	3.182	4.541	5.841
	<b>4</b>	1.533	2.132	2.776	3.747	4.604
	<b>5</b>	1.476	2.015	2.571	3.365	4.032
	<b>6</b>	1.440	1.943	2.447	3.143	3.707
	<b>7</b>	1.415	1.895	2.365	2.998	3.499
	<b>8</b>	1.397	1.860	2.306	2.896	3.355
	<b>9</b>	1.383	1.833	2.262	2.821	3.250
	<b>10</b>	1.372	1.812	2.228	2.764	3.169
	<b>11</b>	1.363	1.796	2.201	2.718	3.106
	<b>12</b>	1.356	1.782	2.179	2.681	3.055
	<b>13</b>	1.350	1.771	2.160	2.650	3.012
	<b>14</b>	1.345	1.761	2.145	2.624	2.977
	<b>15</b>	1.341	1.753	2.131	2.602	2.947
	<b>16</b>	1.337	1.746	2.120	2.583	2.921
	<b>17</b>	1.333	1.740	2.110	2.567	2.898
	<b>18</b>	1.330	1.734	2.101	2.552	2.878
	<b>19</b>	1.328	1.729	2.093	2.539	2.861
	<b>20</b>	1.325	1.725	2.086	2.528	2.845
	<b>21</b>	1.323	1.721	2.080	2.518	2.831
	<b>22</b>	1.321	1.717	2.074	2.508	2.819
	<b>23</b>	1.319	1.714	2.069	2.500	2.807
	<b>24</b>	1.318	1.711	2.064	2.492	2.797
	<b>25</b>	1.316	1.708	2.060	2.485	2.787
	<b>26</b>	1.315	1.706	2.056	2.479	2.779
	<b>27</b>	1.314	1.703	2.052	2.473	2.771
	<b>28</b>	1.313	1.701	2.048	2.467	2.763
	<b>29</b>	1.311	1.699	2.045	2.462	2.756
	<b>30</b>	1.310	1.697	2.042	2.457	2.750
	<b>31</b>	1.309	1.696	2.040	2.453	2.744
	<b>32</b>	1.309	1.694	2.037	2.449	2.738
	<b>33</b>	1.308	1.692	2.035	2.445	2.733
	<b>34</b>	1.307	1.691	2.032	2.441	2.728
	<b>35</b>	1.306	1.690	2.030	2.438	2.724
	<b>36</b>	1.306	1.688	2.028	2.435	2.719
	<b>37</b>	1.305	1.687	2.026	2.431	2.715
	<b>38</b>	1.304	1.686	2.024	2.429	2.712
	<b>39</b>	1.304	1.685	2.023	2.426	2.708
	<b>40</b>	1.303	1.684	2.021	2.423	2.704
	<b>50</b>	1.299	1.676	2.009	2.403	2.678
	<b>60</b>	1.296	1.671	2.000	2.390	2.660
	<b>70</b>	1.294	1.667	1.994	2.381	2.648
	<b>80</b>	1.292	1.664	1.990	2.374	2.639
	<b>90</b>	1.291	1.662	1.987	2.368	2.632
	<b>100</b>	1.290	1.660	1.984	2.364	2.626
	<b>1000</b>	1.282	1.646	1.962	2.330	2.581
	<b>z</b>	1.282	1.645	1.960	2.326	2.576