Denom.	Numerator Degrees of Freedom									
d.f.	1	2	3	4	5	6	7	8	9	10
1	161.448	199.500	215.707	224.583	230.162	233.986	236.768	238.883	240.543	241.882
2	18.513	19.000	19.164	19.247	19.296	19.330	19.353	19.371	19.385	19.396
3	10.128	9.552	9.277	9.117	9.013	8.941	8.887	8.845	8.812	8.786
4	7.709	6.944	6.591	6.388	6.256	6.163	6.094	6.041	5.999	5.964
5	6.608	5.786	5.409	5.192	5.050	4.950	4.876	4.818	4.772	4.735
6	5.987	5.143	4.757	4.534	4.387	4.284	4.207	4.147	4.099	4.060
7	5.591	4.737	4.347	4.120	3.972	3.866	3.787	3.726	3.677	3.637
8 9	5.318 $5.117$	4.459 $4.256$	$4.066 \\ 3.863$	$\frac{3.838}{3.633}$	$3.687 \\ 3.482$	$3.581 \\ 3.374$	$3.500 \\ 3.293$	3.438 $3.230$	$3.388 \\ 3.179$	$3.347 \\ 3.137$
10	$\frac{3.117}{4.965}$	4.230 $4.103$	3.708	3.478	3.462 $3.326$	3.217	3.295 $3.135$	$\frac{3.230}{3.072}$	3.179	$\frac{3.137}{2.978}$
11 12	4.844 $4.747$	$3.982 \\ 3.885$	$3.587 \\ 3.490$	$3.357 \\ 3.259$	$3.204 \\ 3.106$	$3.095 \\ 2.996$	3.012 $2.913$	2.948 $2.849$	$2.896 \\ 2.796$	$2.854 \\ 2.753$
13	4.667	3.806	3.490 $3.411$	3.259 $3.179$	3.100 $3.025$	2.990 $2.915$	$\frac{2.913}{2.832}$	2.767	$\frac{2.790}{2.714}$	$\frac{2.753}{2.671}$
14	4.600	3.739	3.344	3.112	2.958	2.848	2.764	2.699	2.646	2.602
15	4.543	3.682	3.287	3.056	2.901	2.790	2.707	2.641	2.588	2.544
16	4.494	3.634	3.239	3.007	2.852	2.741	2.657	2.591	2.538	2.494
17	4.451	3.592	3.239 $3.197$	2.965	2.810	2.699	2.614	2.548	2.494	$\frac{2.494}{2.450}$
18	4.414	3.555	3.160	2.928	2.773	2.661	2.577	2.510	2.456	2.412
19	4.381	3.522	3.127	2.895	2.740	2.628	2.544	2.477	2.423	2.378
20	4.351	3.493	3.098	2.866	2.711	2.599	2.514	2.447	2.393	2.348
21	4.325	3.467	3.072	2.840	2.685	2.573	2.488	2.420	2.366	2.321
22	4.301	3.443	3.049	2.817	2.661	2.549	2.464	2.397	2.342	2.297
23	4.279	3.422	3.028	2.796	2.640	2.528	2.442	2.375	2.320	2.275
24	4.260	3.403	3.009	2.776	2.621	2.508	2.423	2.355	2.300	2.255
25	4.242	3.385	2.991	2.759	2.603	2.490	2.405	2.337	2.282	2.236
26	4.225	3.369	2.975	2.743	2.587	2.474	2.388	2.321	2.265	2.220
27	4.210	3.354	2.960	2.728	2.572	2.459	2.373	2.305	2.250	2.204
28	4.196	3.340	2.947	2.714	2.558	2.445	2.359	2.291	2.236	2.190
29	4.183	3.328	2.934	2.701	2.545	2.432	2.346	2.278	2.223	2.177
30	4.171	3.316	2.922	2.690	2.534	2.421	2.334	2.266	2.211	2.165
31	4.160	3.305	2.911	2.679	2.523	2.409	2.323	2.255	2.199	2.153
32	4.149	3.295	2.901	2.668	2.512	2.399	2.313	2.244	2.189	2.142
33 34	4.139 $4.130$	$3.285 \\ 3.276$	2.892 $2.883$	2.659 $2.650$	2.503 $2.494$	2.389 $2.380$	2.303 $2.294$	$2.235 \\ 2.225$	2.179 $2.170$	2.133 $2.123$
35	4.130 $4.121$	$\frac{3.270}{3.267}$	$\frac{2.863}{2.874}$	2.641	$\frac{2.494}{2.485}$	$\frac{2.360}{2.372}$	$\frac{2.294}{2.285}$	$\frac{2.225}{2.217}$	$\frac{2.170}{2.161}$	$\frac{2.123}{2.114}$
36 37	4.113 $4.105$	$3.259 \\ 3.252$	2.866	2.634	2.477	2.364	$2.277 \\ 2.270$	2.209	2.153	2.106
38	4.103	$\frac{3.232}{3.245}$	2.859 $2.852$	$2.626 \\ 2.619$	$2.470 \\ 2.463$	2.356 $2.349$	$\frac{2.270}{2.262}$	$2.201 \\ 2.194$	$2.145 \\ 2.138$	2.098 $2.091$
39	4.091	3.238	2.845	2.612	2.456	2.342	2.255	2.187	2.131	2.084
40	4.085	3.232	2.839	2.606	2.449	2.336	2.249	2.180	2.124	2.077
41	4.079	3.226	2.833	2.600	2.443	2.330	2.243	2.174	2.118	2.071
42	4.073	3.220	2.827	2.594	2.438	2.324	2.237	2.168	2.112	2.065
43	4.067	3.214	2.822	2.589	2.432	2.318	2.232	2.163	2.106	2.059
44	4.062	3.209	2.816	2.584	2.427	2.313	2.226	2.157	2.101	2.054
45	4.057	3.204	2.812	2.579	2.422	2.308	2.221	2.152	2.096	2.049
46	4.052	3.200	2.807	2.574	2.417	2.304	2.216	2.147	2.091	2.044
47	4.047	3.195	2.802	2.570	2.413	2.299	2.212	2.143	2.086	2.039
48	4.043	3.191	2.798	2.565	2.409	2.295	2.207	2.138	2.082	2.035
49	4.038	3.187	2.794	2.561	2.404	2.290	2.203	2.134	2.077	2.030
50	4.034	3.183	2.790	2.557	2.400	2.286	2.199	2.130	2.073	2.026
60	4.001	3.150	2.758	2.525	2.368	2.254	2.167	2.097	2.040	1.993
70	3.978	3.128	2.736	2.503	2.346	2.231	2.143	2.074	2.017	1.969
80	3.960	3.111	2.719	2.486	2.329	2.214	2.126	2.056	1.999	1.951
90	3.947	$\frac{3.098}{3.087}$	2.706	2.473	2.316	2.201	2.113	2.043	1.986	1.938
100	3.936	3.087	2.696	2.463	2.305	2.191	2.103	2.032	1.975	1.927
120	3.920	3.072	2.680	2.447	2.290	2.175	2.087	2.016	1.959	1.910
140	3.909	3.061	2.669	2.436	2.279	2.164	2.076	2.005	1.947	1.899
180 200	$3.894 \\ 3.888$	$3.046 \\ 3.041$	$2.655 \\ 2.650$	$2.422 \\ 2.417$	2.264 $2.259$	2.149 $2.144$	2.061 $2.056$	1.990 $1.985$	1.932 $1.927$	1.884 $1.878$
$\infty$	3.841	2.996	2.605	2.372	2.214	2.099	2.010	1.938	1.880	1.831