

# Table 5: Power Table for Eta-Squared

Single-Factor Design,  $df_{\text{EFFECT}} = 2$ ,  $\alpha = .05$ ,  $n$  = Sample Size per Condition

	Eta-Squared															
n	0.01	0.02	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.72
3	.053	.056	.062	.069	.079	.091	.108	.127	.154	.186	.232	.288	.368	.467	.608	.770
4	.055	.060	.071	.083	.102	.123	.154	.190	.241	.299	.381	.473	.594	.722	.860	.957
5	.057	.065	.081	.098	.127	.158	.205	.258	.333	.415	.523	.637	.765	.876	.960	.994
6	.059	.069	.091	.114	.152	.195	.258	.328	.424	.525	.647	.763	.875	.950	.990	.999
7	.062	.074	.101	.131	.179	.233	.312	.398	.510	.622	.747	.852	.937	.982	.998	>.999
8	.064	.079	.112	.147	.207	.272	.366	.465	.588	.705	.824	.911	.970	.994	>.999	>.999
9	.066	.084	.122	.165	.235	.311	.418	.528	.659	.773	.880	.948	.986	.998	>.999	>.999
10	.069	.089	.133	.182	.263	.350	.469	.587	.720	.829	.920	.970	.994	.999	>.999	>.999
11	.071	.094	.145	.200	.291	.388	.518	.641	.772	.872	.947	.983	.997	>.999	>.999	>.999
12	.074	.099	.156	.218	.320	.425	.564	.689	.817	.906	.966	.991	.999	>.999	>.999	>.999
13	.076	.104	.167	.237	.348	.462	.607	.733	.853	.931	.978	.995	>.999	>.999	>.999	>.999
14	.079	.110	.179	.255	.376	.497	.647	.772	.884	.950	.986	.997	>.999	>.999	>.999	>.999
15	.081	.115	.191	.273	.403	.531	.684	.806	.908	.964	.991	.999	>.999	>.999	>.999	>.999
16	.083	.120	.202	.292	.430	.564	.718	.836	.928	.975	.995	.999	>.999	>.999	>.999	>.999
17	.086	.126	.214	.310	.457	.595	.750	.861	.944	.982	.997	>.999	>.999	>.999	>.999	>.999
18	.088	.131	.226	.328	.483	.625	.778	.884	.957	.987	.998	>.999	>.999	>.999	>.999	>.999
19	.091	.137	.238	.346	.508	.653	.804	.903	.967	.991	.999	>.999	>.999	>.999	>.999	>.999
20	.093	.142	.250	.364	.533	.680	.827	.919	.975	.994	.999	>.999	>.999	>.999	>.999	>.999
21	.096	.148	.262	.382	.556	.705	.848	.933	.981	.996	>.999	>.999	>.999	>.999	>.999	>.999
22	.099	.153	.274	.400	.579	.728	.867	.944	.985	.997	>.999	>.999	>.999	>.999	>.999	>.999
23	.101	.159	.286	.418	.602	.750	.883	.954	.989	.998	>.999	>.999	>.999	>.999	>.999	>.999
24	.104	.164	.298	.435	.623	.771	.898	.962	.992	.999	>.999	>.999	>.999	>.999	>.999	>.999
25	.106	.170	.310	.452	.644	.790	.911	.969	.994	.999	>.999	>.999	>.999	>.999	>.999	>.999
26	.109	.176	.322	.469	.664	.808	.923	.975	.995	.999	>.999	>.999	>.999	>.999	>.999	>.999
27	.111	.181	.334	.486	.683	.825	.933	.979	.996	>.999	>.999	>.999	>.999	>.999	>.999	>.999
28	.114	.187	.346	.502	.701	.840	.942	.983	.997	>.999	>.999	>.999	>.999	>.999	>.999	>.999
29	.117	.193	.357	.518	.718	.854	.950	.986	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999
30	.119	.199	.369	.534	.735	.867	.957	.989	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
35	.133	.228	.427	.608	.807	.919	.980	.996	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
40	.146	.257	.482	.674	.862	.951	.991	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
45	.160	.286	.535	.731	.903	.972	.996	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
50	.174	.316	.584	.780	.932	.984	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
55	.188	.345	.630	.821	.954	.991	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
60	.203	.374	.672	.856	.968	.995	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
70	.231	.430	.745	.909	.986	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
80	.260	.485	.805	.943	.994	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
90	.290	.536	.853	.965	.997	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
100	.319	.584	.890	.979	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
120	.376	.670	.940	.993	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
240	.669	.938	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
360	.847	.991	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999

# Table 5 (Continued)

Single-Factor Design,  $df_{\text{EFFECT}} = 3$ ,  $\alpha = .05$ ,  $n$  = Sample Size per Condition

	Eta-Squared															
n	0.01	0.02	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.72
3	.053	.056	.063	.070	.082	.095	.114	.136	.168	.207	.261	.328	.424	.540	.695	.854
4	.055	.061	.073	.085	.107	.131	.167	.208	.269	.338	.433	.540	.674	.803	.921	.984
5	.058	.066	.083	.102	.134	.171	.225	.288	.375	.472	.594	.715	.840	.932	.985	.999
6	.060	.071	.094	.120	.164	.213	.287	.369	.480	.594	.724	.836	.930	.980	.998	>.999
7	.062	.076	.105	.138	.194	.257	.350	.449	.576	.697	.821	.912	.972	.995	>.999	>.999
8	.065	.081	.117	.158	.226	.302	.412	.525	.661	.780	.888	.955	.989	.999	>.999	>.999
9	.067	.086	.129	.177	.258	.348	.472	.595	.734	.844	.933	.978	.996	>.999	>.999	>.999
10	.070	.092	.141	.198	.291	.392	.530	.659	.794	.892	.960	.989	.999	>.999	>.999	>.999
11	.073	.097	.154	.218	.324	.437	.584	.715	.843	.927	.977	.995	>.999	>.999	>.999	>.999
12	.075	.103	.167	.239	.357	.479	.634	.764	.882	.951	.987	.998	>.999	>.999	>.999	>.999
13	.078	.109	.180	.260	.390	.521	.679	.806	.912	.968	.993	.999	>.999	>.999	>.999	>.999
14	.080	.115	.193	.281	.422	.560	.721	.842	.935	.979	.996	>.999	>.999	>.999	>.999	>.999
15	.083	.121	.207	.303	.454	.598	.759	.872	.953	.986	.998	>.999	>.999	>.999	>.999	>.999
16	.086	.126	.220	.324	.485	.633	.792	.897	.966	.991	.999	>.999	>.999	>.999	>.999	>.999
17	.088	.132	.234	.346	.515	.667	.822	.918	.975	.995	.999	>.999	>.999	>.999	>.999	>.999
18	.091	.139	.248	.367	.544	.698	.848	.935	.983	.997	>.999	>.999	>.999	>.999	>.999	>.999
19	.094	.145	.261	.388	.572	.727	.870	.948	.988	.998	>.999	>.999	>.999	>.999	>.999	>.999
20	.097	.151	.275	.409	.599	.754	.890	.959	.991	.999	>.999	>.999	>.999	>.999	>.999	>.999
21	.099	.157	.289	.430	.625	.778	.907	.968	.994	.999	>.999	>.999	>.999	>.999	>.999	>.999
22	.102	.164	.303	.450	.650	.801	.922	.975	.996	>.999	>.999	>.999	>.999	>.999	>.999	>.999
23	.105	.170	.317	.470	.674	.822	.935	.981	.997	>.999	>.999	>.999	>.999	>.999	>.999	>.999
24	.108	.176	.331	.490	.696	.841	.945	.985	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999
25	.111	.183	.345	.509	.717	.858	.954	.989	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
26	.114	.189	.359	.528	.738	.874	.962	.991	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
27	.117	.196	.373	.547	.757	.888	.969	.993	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
28	.119	.202	.387	.565	.775	.901	.974	.995	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
29	.122	.209	.401	.583	.792	.912	.979	.996	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
30	.125	.216	.414	.600	.807	.922	.982	.997	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
35	.140	.249	.480	.680	.873	.959	.994	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
40	.156	.283	.543	.747	.918	.979	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
45	.171	.318	.601	.803	.948	.990	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
50	.187	.352	.654	.849	.968	.995	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
55	.204	.386	.703	.885	.981	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
60	.220	.419	.746	.913	.988	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
70	.254	.484	.817	.952	.996	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
80	.287	.545	.871	.975	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
90	.321	.602	.911	.987	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
100	.355	.654	.939	.993	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
120	.422	.744	.973	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
240	.743	.971	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
360	.906	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999

# Table 5 (Continued)

Single-Factor Design,  $df_{\text{EFFECT}} = 2$ ,  $\alpha = .01$ ,  $n$  = Sample Size per Condition

	Eta-Squared															
n	0.01	0.02	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.72
3	.011	.011	.013	.015	.018	.021	.026	.031	.040	.051	.067	.089	.124	.175	.264	.408
4	.011	.013	.016	.019	.025	.032	.042	.056	.076	.102	.143	.198	.283	.399	.573	.775
5	.012	.014	.019	.024	.034	.045	.064	.088	.125	.172	.244	.337	.470	.627	.809	.945
6	.013	.016	.022	.030	.044	.062	.090	.126	.183	.254	.358	.482	.642	.797	.930	.990
7	.013	.017	.026	.037	.056	.080	.120	.170	.248	.342	.473	.615	.775	.901	.978	.999
8	.014	.019	.030	.043	.069	.100	.153	.218	.317	.432	.581	.727	.867	.956	.994	>.999
9	.015	.021	.034	.051	.083	.123	.189	.270	.388	.518	.675	.813	.926	.981	.999	>.999
10	.016	.022	.039	.059	.098	.146	.227	.322	.457	.598	.755	.876	.960	.993	>.999	>.999
11	.017	.024	.043	.067	.114	.172	.266	.376	.524	.670	.819	.921	.980	.997	>.999	>.999
12	.017	.026	.048	.076	.130	.198	.307	.429	.587	.733	.869	.950	.990	.999	>.999	>.999
13	.018	.028	.053	.086	.148	.226	.347	.481	.645	.787	.906	.970	.995	>.999	>.999	>.999
14	.019	.030	.058	.095	.167	.254	.388	.531	.698	.832	.934	.982	.998	>.999	>.999	>.999
15	.020	.032	.064	.106	.186	.283	.429	.578	.745	.869	.955	.989	.999	>.999	>.999	>.999
16	.021	.034	.070	.116	.205	.312	.469	.623	.786	.899	.969	.994	>.999	>.999	>.999	>.999
17	.022	.036	.076	.127	.225	.341	.507	.665	.822	.923	.979	.996	>.999	>.999	>.999	>.999
18	.023	.039	.082	.138	.246	.371	.545	.703	.853	.941	.986	.998	>.999	>.999	>.999	>.999
19	.023	.041	.088	.150	.266	.400	.581	.739	.879	.956	.991	.999	>.999	>.999	>.999	>.999
20	.024	.043	.094	.162	.288	.429	.615	.771	.901	.967	.994	.999	>.999	>.999	>.999	>.999
21	.025	.046	.101	.174	.309	.458	.648	.800	.920	.976	.996	>.999	>.999	>.999	>.999	>.999
22	.026	.048	.108	.187	.330	.486	.678	.826	.935	.982	.998	>.999	>.999	>.999	>.999	>.999
23	.027	.050	.115	.199	.352	.513	.707	.849	.948	.987	.998	>.999	>.999	>.999	>.999	>.999
24	.028	.053	.122	.212	.373	.540	.734	.870	.959	.990	.999	>.999	>.999	>.999	>.999	>.999
25	.029	.056	.129	.225	.394	.566	.759	.888	.967	.993	.999	>.999	>.999	>.999	>.999	>.999
26	.030	.058	.136	.238	.415	.592	.783	.904	.974	.995	>.999	>.999	>.999	>.999	>.999	>.999
27	.031	.061	.144	.252	.436	.616	.804	.918	.979	.996	>.999	>.999	>.999	>.999	>.999	>.999
28	.032	.064	.151	.265	.457	.640	.824	.930	.984	.998	>.999	>.999	>.999	>.999	>.999	>.999
29	.033	.066	.159	.279	.478	.662	.842	.940	.987	.998	>.999	>.999	>.999	>.999	>.999	>.999
30	.034	.069	.167	.292	.498	.684	.859	.950	.990	.999	>.999	>.999	>.999	>.999	>.999	>.999
35	.040	.084	.208	.361	.593	.777	.921	.979	.997	>.999	>.999	>.999	>.999	>.999	>.999	>.999
40	.046	.100	.251	.430	.677	.848	.958	.992	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
45	.052	.117	.296	.496	.749	.899	.978	.997	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
50	.058	.134	.341	.559	.807	.934	.989	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
55	.065	.153	.386	.618	.855	.958	.995	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
60	.072	.172	.430	.671	.892	.974	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
70	.087	.213	.516	.762	.942	.990	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
80	.103	.255	.596	.833	.971	.997	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
90	.119	.299	.667	.885	.986	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
100	.137	.343	.730	.923	.993	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
120	.175	.431	.828	.967	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
240	.431	.823	.994	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
360	.662	.962	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999

**Table 5 (Continued)**Single-Factor Design,  $df_{\text{EFFECT}} = 3$ ,  $\alpha = .01$ ,  $n$  = Sample Size per Condition

	Eta-Squared															
<b>n</b>	<b>0.01</b>	<b>0.02</b>	<b>0.04</b>	<b>0.06</b>	<b>0.09</b>	<b>0.12</b>	<b>0.16</b>	<b>0.20</b>	<b>0.25</b>	<b>0.30</b>	<b>0.36</b>	<b>0.42</b>	<b>0.49</b>	<b>0.56</b>	<b>0.64</b>	<b>0.72</b>
<b>3</b>	.011	.012	.013	.015	.018	.022	.028	.035	.046	.060	.081	.111	.160	.232	.355	.542
<b>4</b>	.011	.013	.016	.020	.027	.035	.048	.064	.091	.125	.180	.253	.366	.511	.706	.889
<b>5</b>	.012	.014	.020	.026	.037	.051	.074	.104	.152	.214	.308	.425	.585	.751	.907	.985
<b>6</b>	.013	.016	.023	.032	.049	.070	.106	.152	.226	.317	.447	.593	.760	.894	.978	.999
<b>7</b>	.014	.018	.028	.040	.063	.093	.143	.208	.307	.425	.579	.731	.875	.961	.996	>.999
<b>8</b>	.014	.019	.032	.048	.078	.118	.185	.268	.392	.530	.693	.833	.940	.987	.999	>.999
<b>9</b>	.015	.021	.037	.057	.095	.145	.230	.332	.476	.625	.785	.902	.973	.996	>.999	>.999
<b>10</b>	.016	.023	.042	.066	.114	.175	.277	.396	.556	.709	.854	.945	.989	.999	>.999	>.999
<b>11</b>	.017	.025	.047	.076	.134	.207	.326	.460	.630	.778	.904	.970	.996	>.999	>.999	>.999
<b>12</b>	.018	.027	.053	.087	.154	.240	.375	.522	.696	.835	.939	.984	.998	>.999	>.999	>.999
<b>13</b>	.019	.030	.059	.098	.177	.274	.425	.580	.753	.879	.962	.992	.999	>.999	>.999	>.999
<b>14</b>	.019	.032	.065	.110	.200	.309	.473	.635	.802	.913	.977	.996	>.999	>.999	>.999	>.999
<b>15</b>	.020	.034	.072	.123	.223	.345	.520	.685	.843	.938	.986	.998	>.999	>.999	>.999	>.999
<b>16</b>	.021	.036	.078	.136	.248	.380	.565	.730	.877	.957	.992	.999	>.999	>.999	>.999	>.999
<b>17</b>	.022	.039	.086	.150	.273	.416	.608	.770	.905	.970	.995	>.999	>.999	>.999	>.999	>.999
<b>18</b>	.023	.041	.093	.164	.298	.451	.648	.806	.927	.980	.997	>.999	>.999	>.999	>.999	>.999
<b>19</b>	.024	.044	.101	.178	.324	.485	.686	.837	.944	.986	.998	>.999	>.999	>.999	>.999	>.999
<b>20</b>	.025	.047	.108	.193	.350	.519	.721	.864	.958	.991	.999	>.999	>.999	>.999	>.999	>.999
<b>21</b>	.026	.050	.117	.208	.376	.551	.753	.887	.968	.994	>.999	>.999	>.999	>.999	>.999	>.999
<b>22</b>	.027	.052	.125	.224	.401	.583	.782	.907	.977	.996	>.999	>.999	>.999	>.999	>.999	>.999
<b>23</b>	.028	.055	.133	.239	.427	.613	.808	.924	.983	.997	>.999	>.999	>.999	>.999	>.999	>.999
<b>24</b>	.030	.058	.142	.255	.452	.642	.832	.938	.987	.998	>.999	>.999	>.999	>.999	>.999	>.999
<b>25</b>	.031	.061	.151	.272	.477	.670	.854	.949	.991	.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>26</b>	.032	.064	.160	.288	.502	.696	.873	.959	.993	.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>27</b>	.033	.068	.170	.304	.526	.721	.890	.967	.995	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>28</b>	.034	.071	.179	.321	.550	.744	.905	.974	.997	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>29</b>	.035	.074	.189	.338	.573	.766	.918	.979	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>30</b>	.036	.078	.199	.355	.595	.786	.930	.983	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>35</b>	.043	.095	.250	.438	.697	.868	.969	.995	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>40</b>	.049	.115	.303	.518	.779	.922	.987	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>45</b>	.057	.136	.358	.593	.844	.956	.995	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>50</b>	.064	.158	.412	.661	.892	.976	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>55</b>	.072	.181	.466	.721	.927	.987	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>60</b>	.081	.205	.518	.773	.951	.993	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>70</b>	.099	.255	.614	.855	.979	.998	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>80</b>	.118	.308	.698	.910	.992	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>90</b>	.139	.361	.769	.947	.997	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>100</b>	.161	.414	.826	.969	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>120</b>	.208	.518	.907	.990	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>240</b>	.518	.903	.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999
<b>360</b>	.763	.988	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999	>.999