

**Critical Values of the Bonferroni (Dunn)  $F$  Distribution for a Familywise Alpha = .05.**

df	Number of Comparisons									
	1	2	3	4	5	6	7	8	9	10
1	161.448	647.789	1458.358	2593.156	4052.181	5835.434	7942.914	10374.623	13130.559	16210.723
2	18.513	38.506	58.504	78.503	98.503	118.502	138.502	158.502	178.501	198.501
3	10.128	17.443	23.587	29.073	34.116	38.832	43.292	47.544	51.622	55.552
4	7.709	12.218	15.688	18.616	21.198	23.532	25.680	27.679	29.557	31.333
5	6.608	10.007	12.490	14.516	16.258	17.803	19.200	20.482	21.672	22.785
6	5.987	8.813	10.807	12.399	13.745	14.923	15.976	16.935	17.816	18.635
7	5.591	8.073	9.782	11.124	12.246	13.219	14.083	14.863	15.576	16.236
8	5.318	7.571	9.095	10.278	11.259	12.103	12.848	13.517	14.127	14.688
9	5.117	7.209	8.604	9.678	10.561	11.318	11.983	12.578	13.118	13.614
10	4.965	6.937	8.237	9.231	10.044	10.738	11.345	11.887	12.377	12.826
11	4.844	6.724	7.953	8.886	9.646	10.292	10.856	11.358	11.812	12.226
12	4.747	6.554	7.725	8.611	9.330	9.939	10.470	10.941	11.367	11.754
13	4.667	6.414	7.540	8.388	9.074	9.654	10.158	10.605	11.007	11.374
14	4.600	6.298	7.386	8.202	8.862	9.417	9.900	10.327	10.711	11.060
15	4.543	6.200	7.256	8.046	8.683	9.219	9.683	10.094	10.463	10.798
16	4.494	6.115	7.145	7.913	8.531	9.050	9.499	9.896	10.252	10.575
17	4.451	6.042	7.049	7.798	8.400	8.905	9.341	9.726	10.071	10.384
18	4.414	5.978	6.965	7.698	8.285	8.778	9.203	9.578	9.914	10.218
19	4.381	5.922	6.891	7.610	8.185	8.667	9.082	9.448	9.776	10.073
20	4.351	5.871	6.826	7.532	8.096	8.568	8.975	9.333	9.654	9.944
21	4.325	5.827	6.767	7.462	8.017	8.480	8.880	9.231	9.545	9.830
22	4.301	5.786	6.714	7.399	7.945	8.402	8.794	9.139	9.448	9.727
23	4.279	5.750	6.667	7.343	7.881	8.331	8.717	9.057	9.360	9.635
24	4.260	5.717	6.624	7.291	7.823	8.266	8.647	8.982	9.281	9.551
25	4.242	5.686	6.584	7.244	7.770	8.208	8.584	8.914	9.209	9.475
26	4.225	5.659	6.548	7.202	7.721	8.154	8.526	8.852	9.143	9.406
27	4.210	5.633	6.515	7.162	7.677	8.105	8.472	8.795	9.082	9.342
28	4.196	5.610	6.484	7.126	7.636	8.060	8.423	8.742	9.027	9.284
29	4.183	5.588	6.456	7.093	7.598	8.018	8.378	8.694	8.975	9.230
30	4.171	5.568	6.430	7.062	7.562	7.979	8.336	8.649	8.928	9.180
31	4.160	5.549	6.406	7.033	7.530	7.943	8.297	8.607	8.884	9.133
32	4.149	5.531	6.383	7.006	7.499	7.909	8.261	8.568	8.843	9.090
33	4.139	5.515	6.362	6.981	7.471	7.878	8.227	8.532	8.804	9.050
34	4.130	5.499	6.342	6.957	7.444	7.849	8.195	8.498	8.768	9.012
35	4.121	5.485	6.323	6.935	7.419	7.821	8.165	8.466	8.734	8.976
36	4.113	5.471	6.305	6.914	7.396	7.795	8.137	8.436	8.703	8.943
37	4.105	5.458	6.289	6.894	7.373	7.771	8.111	8.408	8.673	8.912
38	4.098	5.446	6.273	6.876	7.353	7.748	8.086	8.382	8.645	8.882
39	4.091	5.435	6.258	6.858	7.333	7.726	8.062	8.357	8.618	8.854
40	4.085	5.424	6.244	6.842	7.314	7.705	8.040	8.333	8.593	8.828
41	4.079	5.414	6.231	6.826	7.296	7.686	8.019	8.310	8.569	8.803
42	4.073	5.404	6.218	6.811	7.280	7.667	7.999	8.289	8.547	8.779
43	4.067	5.395	6.206	6.797	7.264	7.650	7.980	8.269	8.525	8.757
44	4.062	5.386	6.195	6.784	7.248	7.633	7.962	8.249	8.505	8.735
45	4.057	5.377	6.184	6.771	7.234	7.617	7.945	8.231	8.486	8.715
46	4.052	5.369	6.174	6.759	7.220	7.602	7.928	8.214	8.467	8.695
47	4.047	5.361	6.164	6.747	7.207	7.588	7.913	8.197	8.449	8.677
48	4.043	5.354	6.154	6.736	7.194	7.574	7.898	8.181	8.432	8.659
49	4.038	5.347	6.145	6.725	7.182	7.560	7.883	8.166	8.416	8.642
50	4.034	5.340	6.137	6.715	7.171	7.548	7.870	8.151	8.401	8.626

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df	Number of Comparisons									
	1	2	3	4	5	6	7	8	9	10
51	4.030	5.334	6.128	6.705	7.159	7.535	7.857	8.137	8.386	8.610
52	4.027	5.328	6.120	6.695	7.149	7.524	7.844	8.123	8.372	8.595
53	4.023	5.322	6.112	6.686	7.139	7.513	7.832	8.111	8.358	8.581
54	4.020	5.316	6.105	6.678	7.129	7.502	7.820	8.098	8.345	8.567
55	4.016	5.310	6.098	6.669	7.119	7.491	7.809	8.086	8.332	8.554
56	4.013	5.305	6.091	6.661	7.110	7.481	7.798	8.075	8.320	8.541
57	4.010	5.300	6.085	6.654	7.102	7.472	7.788	8.064	8.309	8.529
58	4.007	5.295	6.078	6.646	7.093	7.463	7.778	8.053	8.297	8.517
59	4.004	5.290	6.072	6.639	7.085	7.454	7.768	8.043	8.286	8.506
60	4.001	5.286	6.066	6.632	7.077	7.445	7.759	8.033	8.276	8.495
61	3.998	5.281	6.060	6.625	7.070	7.437	7.750	8.023	8.266	8.484
62	3.996	5.277	6.055	6.619	7.062	7.429	7.741	8.014	8.256	8.474
63	3.993	5.273	6.050	6.612	7.055	7.421	7.733	8.005	8.247	8.464
64	3.991	5.269	6.044	6.606	7.048	7.413	7.725	7.996	8.237	8.454
65	3.989	5.265	6.039	6.600	7.042	7.406	7.717	7.988	8.229	8.445
66	3.986	5.261	6.035	6.595	7.035	7.399	7.709	7.980	8.220	8.436
67	3.984	5.257	6.030	6.589	7.029	7.392	7.702	7.972	8.212	8.427
68	3.982	5.254	6.025	6.584	7.023	7.386	7.695	7.964	8.204	8.419
69	3.980	5.250	6.021	6.579	7.017	7.379	7.688	7.957	8.196	8.411
70	3.978	5.247	6.017	6.574	7.011	7.373	7.681	7.950	8.188	8.403
71	3.976	5.244	6.012	6.569	7.006	7.367	7.675	7.943	8.181	8.395
72	3.974	5.241	6.008	6.564	7.001	7.361	7.668	7.936	8.174	8.387
73	3.972	5.238	6.004	6.559	6.995	7.355	7.662	7.930	8.167	8.380
74	3.970	5.235	6.001	6.555	6.990	7.350	7.656	7.923	8.160	8.373
75	3.968	5.232	5.997	6.550	6.985	7.344	7.650	7.917	8.154	8.366
76	3.967	5.229	5.993	6.546	6.981	7.339	7.645	7.911	8.147	8.360
77	3.965	5.226	5.990	6.542	6.976	7.334	7.639	7.905	8.141	8.353
78	3.963	5.223	5.986	6.538	6.971	7.329	7.634	7.899	8.135	8.347
79	3.962	5.221	5.983	6.534	6.967	7.324	7.628	7.894	8.129	8.341
80	3.960	5.218	5.980	6.530	6.963	7.319	7.623	7.888	8.123	8.335
81	3.959	5.216	5.977	6.527	6.959	7.315	7.618	7.883	8.118	8.329
82	3.957	5.213	5.974	6.523	6.954	7.310	7.614	7.878	8.112	8.323
83	3.956	5.211	5.971	6.519	6.950	7.306	7.609	7.873	8.107	8.318
84	3.955	5.209	5.968	6.516	6.947	7.302	7.604	7.868	8.102	8.312
85	3.953	5.207	5.965	6.513	6.943	7.298	7.600	7.863	8.097	8.307
86	3.952	5.204	5.962	6.509	6.939	7.294	7.595	7.859	8.092	8.302
87	3.951	5.202	5.959	6.506	6.935	7.290	7.591	7.854	8.087	8.297
88	3.949	5.200	5.957	6.503	6.932	7.286	7.587	7.850	8.082	8.292
89	3.948	5.198	5.954	6.500	6.928	7.282	7.583	7.845	8.078	8.287
90	3.947	5.196	5.951	6.497	6.925	7.278	7.579	7.841	8.073	8.282
91	3.946	5.194	5.949	6.494	6.922	7.275	7.575	7.837	8.069	8.278
92	3.945	5.192	5.946	6.491	6.919	7.271	7.571	7.833	8.065	8.273
93	3.943	5.191	5.944	6.488	6.915	7.268	7.568	7.829	8.061	8.269
94	3.942	5.189	5.942	6.486	6.912	7.264	7.564	7.825	8.057	8.264
95	3.941	5.187	5.940	6.483	6.909	7.261	7.560	7.821	8.053	8.260
96	3.940	5.185	5.937	6.480	6.906	7.258	7.557	7.818	8.049	8.256
97	3.939	5.183	5.935	6.478	6.904	7.255	7.554	7.814	8.045	8.252
98	3.938	5.182	5.933	6.475	6.901	7.252	7.550	7.810	8.041	8.248
99	3.937	5.180	5.931	6.473	6.898	7.249	7.547	7.807	8.037	8.244
100	3.936	5.179	5.929	6.470	6.895	7.246	7.544	7.804	8.034	8.241