

# El rang estudentitzat

Quantila  $\alpha = 0.90$

$n \rightarrow$ $df \downarrow$	2	3	4	5	6	7	8	9	10	11	12
2	4.1282	5.7326	6.7725	7.5375	8.1391	8.6325	9.0493	9.4091	9.7249	10.0059	10.2587
3	3.3282	4.4674	5.1990	5.7376	6.1620	6.5110	6.8064	7.0619	7.2867	7.4870	7.6674
4	3.0149	3.9756	4.5863	5.0348	5.3883	5.6791	5.9255	6.1389	6.3267	6.4943	6.6453
5	2.8497	3.7171	4.2636	4.6638	4.9790	5.2382	5.4579	5.6483	5.8159	5.9655	6.1004
6	2.7481	3.5584	4.0651	4.4352	4.7262	4.9655	5.1683	5.3440	5.4988	5.6369	5.7616
7	2.6793	3.4512	3.9309	4.2803	4.5548	4.7803	4.9714	5.1369	5.2827	5.4128	5.5302
8	2.6298	3.3740	3.8342	4.1685	4.4308	4.6462	4.8287	4.9867	5.1258	5.2500	5.3621
9	2.5924	3.3158	3.7611	4.0841	4.3371	4.5447	4.7205	4.8727	5.0067	5.1264	5.2343
10	2.5632	3.2703	3.7041	4.0180	4.2637	4.4652	4.6357	4.7833	4.9132	5.0292	5.1338
11	2.5398	3.2338	3.6583	3.9649	4.2047	4.4012	4.5674	4.7112	4.8378	4.9508	5.0527
12	2.5205	3.2039	3.6207	3.9214	4.1562	4.3485	4.5112	4.6518	4.7757	4.8861	4.9858
13	2.5045	3.1790	3.5893	3.8849	4.1156	4.3045	4.4641	4.6021	4.7236	4.8320	4.9297
14	2.4909	3.1578	3.5627	3.8540	4.0812	4.2671	4.4241	4.5599	4.6793	4.7859	4.8819
15	2.4792	3.1397	3.5399	3.8275	4.0517	4.2349	4.3897	4.5235	4.6412	4.7462	4.8408
16	2.4691	3.1240	3.5201	3.8045	4.0260	4.2070	4.3598	4.4919	4.6081	4.7116	4.8050
17	2.4602	3.1102	3.5027	3.7843	4.0035	4.1825	4.3336	4.4642	4.5789	4.6813	4.7735
18	2.4523	3.0980	3.4874	3.7665	3.9836	4.1608	4.3104	4.4396	4.5532	4.6544	4.7457
19	2.4454	3.0872	3.4738	3.7506	3.9658	4.1415	4.2897	4.4177	4.5302	4.6305	4.7208
20	2.4391	3.0775	3.4615	3.7364	3.9500	4.1243	4.2712	4.3981	4.5096	4.6090	4.6985
21	2.4335	3.0688	3.4505	3.7236	3.9357	4.1087	4.2545	4.3804	4.4910	4.5896	4.6784
22	2.4284	3.0609	3.4406	3.7120	3.9227	4.0945	4.2394	4.3644	4.4742	4.5720	4.6602
23	2.4238	3.0537	3.4315	3.7015	3.9109	4.0817	4.2256	4.3498	4.4588	4.5560	4.6435
24	2.4196	3.0471	3.4233	3.6918	3.9002	4.0700	4.2130	4.3364	4.4448	4.5413	4.6283
25	2.4157	3.0411	3.4157	3.6830	3.8903	4.0592	4.2014	4.3241	4.4319	4.5279	4.6143
26	2.4121	3.0356	3.4087	3.6749	3.8812	4.0492	4.1908	4.3129	4.4200	4.5155	4.6015
27	2.4088	3.0305	3.4023	3.6673	3.8728	4.0401	4.1809	4.3024	4.4091	4.5040	4.5895
28	2.4058	3.0257	3.3963	3.6604	3.8650	4.0316	4.1718	4.2927	4.3989	4.4934	4.5785
29	2.4029	3.0213	3.3907	3.6539	3.8577	4.0237	4.1633	4.2837	4.3894	4.4835	4.5682
30	2.4003	3.0172	3.3856	3.6479	3.8510	4.0163	4.1554	4.2754	4.3806	4.4743	4.5587
31	2.3978	3.0134	3.3808	3.6423	3.8447	4.0094	4.1481	4.2675	4.3724	4.4657	4.5497
32	2.3955	3.0098	3.3762	3.6370	3.8388	4.0030	4.1412	4.2602	4.3647	4.4576	4.5413
33	2.3934	3.0065	3.3720	3.6321	3.8333	3.9970	4.1347	4.2533	4.3574	4.4501	4.5335
34	2.3913	3.0033	3.3680	3.6274	3.8281	3.9913	4.1286	4.2468	4.3506	4.4429	4.5261
35	2.3894	3.0004	3.3643	3.6231	3.8232	3.9860	4.1228	4.2407	4.3442	4.4362	4.5191
40	2.3813	2.9878	3.3485	3.6046	3.8025	3.9633	4.0985	4.2149	4.3170	4.4078	4.4895
45	2.3751	2.9781	3.3362	3.5903	3.7865	3.9458	4.0797	4.1949	4.2959	4.3857	4.4666
50	2.3701	2.9704	3.3265	3.5789	3.7737	3.9319	4.0647	4.1789	4.2791	4.3681	4.4482
55	2.3660	2.9641	3.3185	3.5696	3.7633	3.9205	4.0524	4.1659	4.2654	4.3538	4.4333
60	2.3627	2.9589	3.3119	3.5619	3.7546	3.9110	4.0422	4.1551	4.2539	4.3418	4.4208
120	2.3443	2.9304	3.2759	3.5198	3.7074	3.8592	3.9865	4.0958	4.1914	4.2763	4.3525
180	2.3382	2.9210	3.2640	3.5059	3.6918	3.8421	3.9681	4.0761	4.1707	4.2545	4.3299
$\infty$	2.3262	2.9024	3.2404	3.4783	3.6607	3.8081	3.9313	4.0370	4.1293	4.2112	4.2846

# El rang estudentitzat

Quantila  $\alpha = 0.90$  (cont.)

$n \rightarrow$ $df \downarrow$	13	14	15	16	17	18	19	20	21	22
2	10.4882	10.6982	10.8915	11.0706	11.2372	11.3930	11.5393	11.6769	11.8070	11.9302
3	7.8314	7.9816	8.1199	8.2482	8.3676	8.4792	8.5841	8.6828	8.7761	8.8644
4	6.7827	6.9086	7.0246	7.1322	7.2325	7.3263	7.4144	7.4974	7.5759	7.6503
5	6.2232	6.3357	6.4395	6.5358	6.6255	6.7095	6.7884	6.8628	6.9331	6.9997
6	5.8750	5.9790	6.0749	6.1639	6.2469	6.3246	6.3976	6.4664	6.5315	6.5932
7	5.6371	5.7351	5.8256	5.9095	5.9878	6.0610	6.1299	6.1948	6.2562	6.3144
8	5.4641	5.5577	5.6440	5.7242	5.7989	5.8689	5.9346	5.9966	6.0553	6.1109
9	5.3326	5.4227	5.5058	5.5830	5.6550	5.7224	5.7857	5.8455	5.9020	5.9556
10	5.2290	5.3164	5.3970	5.4718	5.5416	5.6069	5.6684	5.7263	5.7811	5.8330
11	5.1454	5.2305	5.3090	5.3819	5.4499	5.5135	5.5733	5.6297	5.6831	5.7337
12	5.0765	5.1597	5.2364	5.3077	5.3741	5.4363	5.4948	5.5500	5.6021	5.6516
13	5.0186	5.1002	5.1755	5.2453	5.3104	5.3714	5.4288	5.4829	5.5340	5.5825
14	4.9694	5.0495	5.1235	5.1922	5.2562	5.3161	5.3725	5.4256	5.4759	5.5236
15	4.9269	5.0059	5.0787	5.1463	5.2094	5.2684	5.3239	5.3762	5.4257	5.4727
16	4.8899	4.9678	5.0397	5.1064	5.1686	5.2268	5.2815	5.3331	5.3820	5.4283
17	4.8575	4.9344	5.0054	5.0713	5.1327	5.1902	5.2442	5.2952	5.3434	5.3892
18	4.8287	4.9048	4.9750	5.0401	5.1009	5.1577	5.2112	5.2616	5.3093	5.3545
19	4.8030	4.8784	4.9479	5.0123	5.0725	5.1287	5.1816	5.2315	5.2787	5.3235
20	4.7800	4.8546	4.9235	4.9874	5.0469	5.1027	5.1551	5.2045	5.2513	5.2956
21	4.7592	4.8332	4.9015	4.9648	5.0239	5.0792	5.1311	5.1801	5.2265	5.2704
22	4.7403	4.8138	4.8815	4.9444	5.0030	5.0578	5.1094	5.1580	5.2039	5.2475
23	4.7231	4.7961	4.8633	4.9257	4.9839	5.0383	5.0895	5.1377	5.1834	5.2267
24	4.7074	4.7798	4.8467	4.9086	4.9664	5.0205	5.0713	5.1192	5.1645	5.2075
25	4.6929	4.7649	4.8313	4.8929	4.9503	5.0041	5.0546	5.1022	5.1472	5.1899
26	4.6796	4.7512	4.8172	4.8785	4.9355	4.9890	5.0392	5.0865	5.1312	5.1737
27	4.6673	4.7385	4.8042	4.8651	4.9218	4.9750	5.0249	5.0719	5.1165	5.1587
28	4.6559	4.7267	4.7921	4.8526	4.9091	4.9620	5.0116	5.0584	5.1027	5.1447
29	4.6452	4.7158	4.7808	4.8411	4.8973	4.9499	4.9993	5.0459	5.0899	5.1317
30	4.6353	4.7055	4.7703	4.8303	4.8862	4.9386	4.9878	5.0342	5.0780	5.1196
31	4.6261	4.6960	4.7604	4.8202	4.8759	4.9281	4.9770	5.0232	5.0669	5.1083
32	4.6174	4.6870	4.7512	4.8108	4.8662	4.9182	4.9669	5.0129	5.0564	5.0976
33	4.6092	4.6786	4.7426	4.8019	4.8572	4.9089	4.9575	5.0033	5.0466	5.0876
34	4.6016	4.6707	4.7345	4.7936	4.8486	4.9002	4.9486	4.9942	5.0373	5.0782
35	4.5943	4.6633	4.7268	4.7857	4.8406	4.8919	4.9402	4.9856	5.0286	5.0694
40	4.5637	4.6316	4.6943	4.7523	4.8064	4.8569	4.9045	4.9492	4.9916	5.0317
45	4.5399	4.6071	4.6690	4.7264	4.7798	4.8298	4.8767	4.9209	4.9628	5.0024
50	4.5209	4.5875	4.6488	4.7056	4.7585	4.8080	4.8545	4.8983	4.9397	4.9789
55	4.5054	4.5715	4.6323	4.6887	4.7412	4.7902	4.8363	4.8798	4.9208	4.9597
60	4.4925	4.5581	4.6186	4.6745	4.7267	4.7754	4.8212	4.8643	4.9051	4.9437
120	4.4217	4.4849	4.5431	4.5970	4.6471	4.6939	4.7379	4.7793	4.8185	4.8555
180	4.3981	4.4605	4.5180	4.5711	4.6206	4.6668	4.7101	4.7510	4.7895	4.8260
$\infty$	4.3512	4.4119	4.4678	4.5195	4.5675	4.6124	4.6545	4.6941	4.7315	4.7669