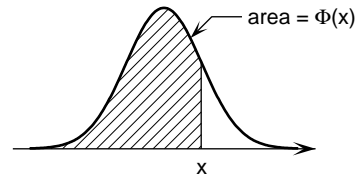


# Tabeller

**Tabell 1. Standardiserad normalfördelning**

$\Phi(x) = P(X \leq x)$  där  $X \in N(0, 1)$

För negativa värden, utnyttja att  $\Phi(x) = 1 - \Phi(-x)$

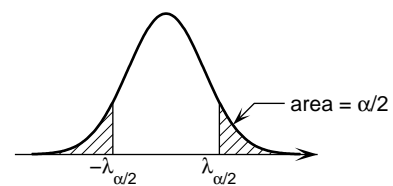
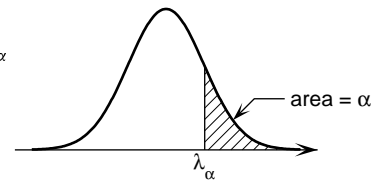


x	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.5000	.5040	.5080	.5120	.5160	.5199	.5239	.5279	.5319	.5359
0.1	.5398	.5438	.5478	.5517	.5557	.5596	.5636	.5675	.5714	.5753
0.2	.5793	.5832	.5871	.5910	.5948	.5987	.6026	.6064	.6103	.6141
0.3	.6179	.6217	.6255	.6293	.6331	.6368	.6406	.6443	.6480	.6517
0.4	.6554	.6591	.6628	.6664	.6700	.6736	.6772	.6808	.6844	.6879
0.5	.6915	.6950	.6985	.7019	.7054	.7088	.7123	.7157	.7190	.7224
0.6	.7257	.7291	.7324	.7357	.7389	.7422	.7454	.7486	.7517	.7549
0.7	.7580	.7611	.7642	.7673	.7704	.7734	.7764	.7794	.7823	.7852
0.8	.7881	.7910	.7939	.7967	.7995	.8023	.8051	.8078	.8106	.8133
0.9	.8159	.8186	.8212	.8238	.8264	.8289	.8315	.8340	.8365	.8389
1.0	.8413	.8438	.8461	.8485	.8508	.8531	.8554	.8577	.8599	.8621
1.1	.8643	.8665	.8686	.8708	.8729	.8749	.8770	.8790	.8810	.8830
1.2	.8849	.8869	.8888	.8907	.8925	.8944	.8962	.8980	.8997	.9015
1.3	.9032	.9049	.9066	.9082	.9099	.9115	.9131	.9147	.9162	.9177
1.4	.9192	.9207	.9222	.9236	.9251	.9265	.9279	.9292	.9306	.9319
1.5	.9332	.9345	.9357	.9370	.9382	.9394	.9406	.9418	.9429	.9441
1.6	.9452	.9463	.9474	.9484	.9495	.9505	.9515	.9525	.9535	.9545
1.7	.9554	.9564	.9573	.9582	.9591	.9599	.9608	.9616	.9625	.9633
1.8	.9641	.9649	.9656	.9664	.9671	.9678	.9686	.9693	.9699	.9706
1.9	.9713	.9719	.9726	.9732	.9738	.9744	.9750	.9756	.9761	.9767
2.0	.97725	.97778	.97831	.97882	.97932	.97982	.98030	.98077	.98124	.98169
2.1	.98214	.98257	.98300	.98341	.98382	.98422	.98461	.98500	.98537	.98574
2.2	.98610	.98645	.98679	.98713	.98745	.98778	.98809	.98840	.98870	.98899
2.3	.98928	.98956	.98983	.99010	.99036	.99061	.99086	.99111	.99134	.99158
2.4	.99180	.99202	.99224	.99245	.99266	.99286	.99305	.99324	.99343	.99361
2.5	.99379	.99396	.99413	.99430	.99446	.99461	.99477	.99492	.99506	.99520
2.6	.99534	.99547	.99560	.99573	.99585	.99598	.99609	.99621	.99632	.99643
2.7	.99653	.99664	.99674	.99683	.99693	.99702	.99711	.99720	.99728	.99736
2.8	.99744	.99752	.99760	.99767	.99774	.99781	.99788	.99795	.99801	.99807
2.9	.99813	.99819	.99825	.99831	.99836	.99841	.99846	.99851	.99856	.99861

**Tabell 2. Normalfördelningens kvantiler**

$P(X > \lambda_\alpha) = \alpha$  där  $X \in N(0, 1)$ ,  $\lambda_{1-\alpha} = -\lambda_\alpha$

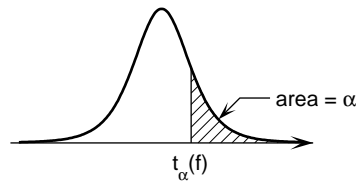
$\alpha$	$\lambda_\alpha$	$\alpha$	$\lambda_\alpha$
0.1	1.2816	0.001	3.0902
0.05	1.6449	0.0005	3.2905
0.025	1.9600	0.0001	3.7190
0.01	2.3263	0.00005	3.8906
0.005	2.5758	0.00001	4.2649



3.0	.99865
3.1	.99903
3.2	.99931
3.3	.99952
3.4	.99966
3.5	.99977
3.6	.99984
3.7	.99989
3.8	.99993
3.9	.99995
4.0	.99997

**Tabell 3.  $t$ -fördelningen**

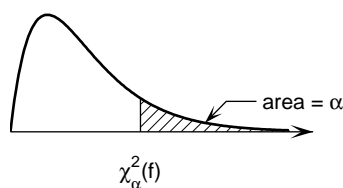
$P(X > t_\alpha(f)) = \alpha$  där  $X \in t(f)$



$f$	$\alpha$	0.1	0.05	0.025	0.01	0.005	0.001	0.0005
1		3.08	6.31	12.71	31.82	63.66	318.31	636.62
2		1.89	2.92	4.30	6.96	9.92	22.33	31.60
3		1.64	2.35	3.18	4.54	5.84	10.21	12.92
4		1.53	2.13	2.78	3.75	4.60	7.17	8.61
5		1.48	2.02	2.57	3.36	4.03	5.89	6.87
6		1.44	1.94	2.45	3.14	3.71	5.21	5.96
7		1.41	1.89	2.36	3.00	3.50	4.79	5.41
8		1.40	1.86	2.31	2.90	3.36	4.50	5.04
9		1.38	1.83	2.26	2.82	3.25	4.30	4.78
10		1.37	1.81	2.23	2.76	3.17	4.14	4.59
11		1.36	1.80	2.20	2.72	3.11	4.02	4.44
12		1.36	1.78	2.18	2.68	3.05	3.93	4.32
13		1.35	1.77	2.16	2.65	3.01	3.85	4.22
14		1.35	1.76	2.14	2.62	2.98	3.79	4.14
15		1.34	1.75	2.13	2.60	2.95	3.73	4.07
16		1.34	1.75	2.12	2.58	2.92	3.69	4.01
17		1.33	1.74	2.11	2.57	2.90	3.65	3.97
18		1.33	1.73	2.10	2.55	2.88	3.61	3.92
19		1.33	1.73	2.09	2.54	2.86	3.58	3.88
20		1.33	1.72	2.09	2.53	2.85	3.55	3.85
21		1.32	1.72	2.08	2.52	2.83	3.53	3.82
22		1.32	1.72	2.07	2.51	2.82	3.50	3.79
23		1.32	1.71	2.07	2.50	2.81	3.48	3.77
24		1.32	1.71	2.06	2.49	2.80	3.47	3.75
25		1.32	1.71	2.06	2.49	2.79	3.45	3.73
26		1.31	1.71	2.06	2.48	2.78	3.43	3.71
27		1.31	1.70	2.05	2.47	2.77	3.42	3.69
28		1.31	1.70	2.05	2.47	2.76	3.41	3.67
29		1.31	1.70	2.05	2.46	2.76	3.40	3.66
30		1.31	1.70	2.04	2.46	2.75	3.39	3.65
40		1.30	1.68	2.02	2.42	2.70	3.31	3.55
60		1.30	1.67	2.00	2.39	2.66	3.23	3.46
120		1.29	1.66	1.98	2.36	2.62	3.16	3.37
$\infty$		1.28	1.64	1.96	2.33	2.58	3.09	3.29

**Tabell 4.  $\chi^2$ -fördelningen**

$P(X > \chi^2_\alpha(f)) = \alpha$  där  $X \in \chi^2(f)$



$f$	$\alpha$	0.9995	0.999	0.995	0.99	0.975	0.95	0.05	0.025	0.01	0.005	0.001	0.0005
1		0.00	0.00	0.00	0.00	0.00	0.00	3.84	5.02	6.63	7.88	10.83	12.12
2		0.00	0.00	0.01	0.02	0.05	0.10	5.99	7.38	9.21	10.60	13.82	15.20
3		0.02	0.02	0.07	0.11	0.22	0.35	7.81	9.35	11.34	12.84	16.27	17.73
4		0.06	0.09	0.21	0.30	0.48	0.71	9.49	11.14	13.28	14.86	18.47	20.00
5		0.16	0.21	0.41	0.55	0.83	1.15	11.07	12.83	15.09	16.75	20.52	22.11
6		0.30	0.38	0.68	0.87	1.24	1.64	12.59	14.45	16.81	18.55	22.46	24.10
7		0.48	0.60	0.99	1.24	1.69	2.17	14.07	16.01	18.48	20.28	24.32	26.02
8		0.71	0.86	1.34	1.65	2.18	2.73	15.51	17.53	20.09	21.95	26.12	27.87
9		0.97	1.15	1.73	2.09	2.70	3.33	16.92	19.02	21.67	23.59	27.88	29.67
10		1.26	1.48	2.16	2.56	3.25	3.94	18.31	20.48	23.21	25.19	29.59	31.42
11		1.59	1.83	2.60	3.05	3.82	4.57	19.68	21.92	24.72	26.76	31.26	33.14
12		1.93	2.21	3.07	3.57	4.40	5.23	21.03	23.34	26.22	28.30	32.91	34.82
13		2.31	2.62	3.57	4.11	5.01	5.89	22.36	24.74	27.69	29.82	34.53	36.48
14		2.70	3.04	4.07	4.66	5.63	6.57	23.68	26.12	29.14	31.32	36.12	38.11
15		3.11	3.48	4.60	5.23	6.26	7.26	25.00	27.49	30.58	32.80	37.70	39.72
16		3.54	3.94	5.14	5.81	6.91	7.96	26.30	28.85	32.00	34.27	39.25	41.31
17		3.98	4.42	5.70	6.41	7.56	8.67	27.59	30.19	33.41	35.72	40.79	42.88
18		4.44	4.90	6.26	7.01	8.23	9.39	28.87	31.53	34.81	37.16	42.31	44.43
19		4.91	5.41	6.84	7.63	8.91	10.12	30.14	32.85	36.19	38.58	43.82	45.97
20		5.40	5.92	7.43	8.26	9.59	10.85	31.41	34.17	37.57	40.00	45.31	47.50
21		5.90	6.45	8.03	8.90	10.28	11.59	32.67	35.48	38.93	41.40	46.80	49.01
22		6.40	6.98	8.64	9.54	10.98	12.34	33.92	36.78	40.29	42.80	48.27	50.51
23		6.92	7.53	9.26	10.20	11.69	13.09	35.17	38.08	41.64	44.18	49.73	52.00
24		7.45	8.08	9.89	10.86	12.40	13.85	36.42	39.36	42.98	45.56	51.18	53.48
25		7.99	8.65	10.52	11.52	13.12	14.61	37.65	40.65	44.31	46.93	52.62	54.95
26		8.54	9.22	11.16	12.20	13.84	15.38	38.89	41.92	45.64	48.29	54.05	56.41
27		9.09	9.80	11.81	12.88	14.57	16.15	40.11	43.19	46.96	49.64	55.48	57.86
28		9.66	10.39	12.46	13.56	15.31	16.93	41.34	44.46	48.28	50.99	56.89	59.30
29		10.23	10.99	13.12	14.26	16.05	17.71	42.56	45.72	49.59	52.34	58.30	60.73
30		10.80	11.59	13.79	14.95	16.79	18.49	43.77	46.98	50.89	53.67	59.70	62.16
40		16.91	17.92	20.71	22.16	24.43	26.51	55.76	59.34	63.69	66.77	73.40	76.09
50		23.46	24.67	27.99	29.71	32.36	34.76	67.50	71.42	76.15	79.49	86.66	89.56
60		30.34	31.74	35.53	37.48	40.48	43.19	79.08	83.30	88.38	91.95	99.61	102.69
70		37.47	39.04	43.28	45.44	48.76	51.74	90.53	95.02	100.43	104.21	112.32	115.58
80		44.79	46.52	51.17	53.54	57.15	60.39	101.88	106.63	112.33	116.32	124.84	128.26
90		52.28	54.16	59.20	61.75	65.65	69.13	113.15	118.14	124.12	128.30	137.21	140.78
100		59.90	61.92	67.33	70.06	74.22	77.93	124.34	129.56	135.81	140.17	149.45	153.17







**Tabell 6. Binomialfördelningen** $P(X \leq x)$  där  $X \in \text{Bin}(n, p)$ För  $p > 1/2$ , utnyttja att  $P(X \leq x) = P(Y \geq n - x)$  där  $Y \in \text{Bin}(n, 1 - p)$ 

$n$	$x$	$p$	0.05	0.10	0.15	0.20	0.25	0.30	0.40	0.50
2	0		0.90250	0.81000	0.72250	0.64000	0.56250	0.49000	0.36000	0.25000
	1		0.99750	0.99000	0.97750	0.96000	0.93750	0.91000	0.84000	0.75000
3	0		0.85737	0.72900	0.61412	0.51200	0.42188	0.34300	0.21600	0.12500
	1		0.99275	0.97200	0.93925	0.89600	0.84375	0.78400	0.64800	0.50000
	2		0.99987	0.99900	0.99663	0.99200	0.98438	0.97300	0.93600	0.87500
4	0		0.81451	0.65610	0.52201	0.40960	0.31641	0.24010	0.12960	0.06250
	1		0.98598	0.94770	0.89048	0.81920	0.73828	0.65170	0.47520	0.31250
	2		0.99952	0.99630	0.98802	0.97280	0.94922	0.91630	0.82080	0.68750
	3		0.99999	0.99990	0.99949	0.99840	0.99609	0.99190	0.97440	0.93750
5	0		0.77378	0.59049	0.44371	0.32768	0.23730	0.16807	0.07776	0.03125
	1		0.97741	0.91854	0.83521	0.73728	0.63281	0.52822	0.33696	0.18750
	2		0.99884	0.99144	0.97339	0.94208	0.89648	0.83692	0.68256	0.50000
	3		0.99997	0.99954	0.99777	0.99328	0.98437	0.96922	0.91296	0.81250
	4		1.00000	0.99999	0.99992	0.99968	0.99902	0.99757	0.98976	0.96875
6	0		0.73509	0.53144	0.37715	0.26214	0.17798	0.11765	0.04666	0.01563
	1		0.96723	0.88574	0.77648	0.65536	0.53394	0.42018	0.23328	0.10938
	2		0.99777	0.98415	0.95266	0.90112	0.83057	0.74431	0.54432	0.34375
	3		0.99991	0.99873	0.99411	0.98304	0.96240	0.92953	0.82080	0.65625
	4		1.00000	0.99995	0.99960	0.99840	0.99536	0.98906	0.95904	0.89063
	5		1.00000	1.00000	0.99999	0.99994	0.99976	0.99927	0.99590	0.98438
7	0		0.69834	0.47830	0.32058	0.20972	0.13348	0.08235	0.02799	0.00781
	1		0.95562	0.85031	0.71658	0.57672	0.44495	0.32942	0.15863	0.06250
	2		0.99624	0.97431	0.92623	0.85197	0.75641	0.64707	0.41990	0.22656
	3		0.99981	0.99727	0.98790	0.96666	0.92944	0.87396	0.71021	0.50000
	4		0.99999	0.99982	0.99878	0.99533	0.98712	0.97120	0.90374	0.77344
	5		1.00000	0.99999	0.99993	0.99963	0.99866	0.99621	0.98116	0.93750
	6		1.00000	1.00000	1.00000	0.99999	0.99994	0.99978	0.99836	0.99219
8	0		0.66342	0.43047	0.27249	0.16777	0.10011	0.05765	0.01680	0.00391
	1		0.94276	0.81310	0.65718	0.50332	0.36708	0.25530	0.10638	0.03516
	2		0.99421	0.96191	0.89479	0.79692	0.67854	0.55177	0.31539	0.14453
	3		0.99963	0.99498	0.97865	0.94372	0.88618	0.80590	0.59409	0.36328
	4		0.99998	0.99957	0.99715	0.98959	0.97270	0.94203	0.82633	0.63672
	5		1.00000	0.99998	0.99976	0.99877	0.99577	0.98871	0.95019	0.85547
	6		1.00000	1.00000	0.99999	0.99992	0.99962	0.99871	0.99148	0.96484
	7		1.00000	1.00000	1.00000	1.00000	0.99998	0.99993	0.99934	0.99609
9	0		0.63025	0.38742	0.23162	0.13422	0.07508	0.04035	0.01008	0.00195
	1		0.92879	0.77484	0.59948	0.43621	0.30034	0.19600	0.07054	0.01953
	2		0.99164	0.94703	0.85915	0.73820	0.60068	0.46283	0.23179	0.08984
	3		0.99936	0.99167	0.96607	0.91436	0.83427	0.72966	0.48261	0.25391
	4		0.99997	0.99911	0.99437	0.98042	0.95107	0.90119	0.73343	0.50000
	5		1.00000	0.99994	0.99937	0.99693	0.99001	0.97471	0.90065	0.74609
	6		1.00000	1.00000	0.99995	0.99969	0.99866	0.99571	0.97497	0.91016
	7		1.00000	1.00000	1.00000	0.99998	0.99989	0.99957	0.99620	0.98047
	8		1.00000	1.00000	1.00000	1.00000	1.00000	0.99998	0.99974	0.99805

Tabell 6 forts.

$n$	$x$	$p$	0.05	0.10	0.15	0.20	0.25	0.30	0.40	0.50
10	0	0.59874	0.34868	0.19687	0.10737	0.05631	0.02825	0.00605	0.00098	
	1	0.91386	0.73610	0.54430	0.37581	0.24403	0.14931	0.04636	0.01074	
	2	0.98850	0.92981	0.82020	0.67780	0.52559	0.38278	0.16729	0.05469	
	3	0.99897	0.98720	0.95003	0.87913	0.77588	0.64961	0.38228	0.17188	
	4	0.99994	0.99837	0.99013	0.96721	0.92187	0.84973	0.63310	0.37695	
	5	1.00000	0.99985	0.99862	0.99363	0.98027	0.95265	0.83376	0.62305	
	6	1.00000	0.99999	0.99987	0.99914	0.99649	0.98941	0.94524	0.82813	
	7	1.00000	1.00000	0.99999	0.99992	0.99958	0.99841	0.98771	0.94531	
	8	1.00000	1.00000	1.00000	1.00000	0.99997	0.99986	0.99832	0.98926	
9	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999	0.99990	0.99902		
11	0	0.56880	0.31381	0.16734	0.08590	0.04224	0.01977	0.00363	0.00049	
	1	0.89811	0.69736	0.49219	0.32212	0.19710	0.11299	0.03023	0.00586	
	2	0.98476	0.91044	0.77881	0.61740	0.45520	0.31274	0.11892	0.03271	
	3	0.99845	0.98147	0.93056	0.83886	0.71330	0.56956	0.29628	0.11328	
	4	0.99989	0.99725	0.98411	0.94959	0.88537	0.78970	0.53277	0.27441	
	5	0.99999	0.99970	0.99734	0.98835	0.96567	0.92178	0.75350	0.50000	
	6	1.00000	0.99998	0.99968	0.99803	0.99244	0.97838	0.90065	0.72559	
	7	1.00000	1.00000	0.99997	0.99976	0.99881	0.99571	0.97072	0.88672	
	8	1.00000	1.00000	1.00000	0.99998	0.99987	0.99942	0.99408	0.96729	
	9	1.00000	1.00000	1.00000	1.00000	0.99999	0.99995	0.99927	0.99414	
10	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99996	0.99951		
12	0	0.54036	0.28243	0.14224	0.06872	0.03168	0.01384	0.00218	0.00024	
	1	0.88164	0.65900	0.44346	0.27488	0.15838	0.08503	0.01959	0.00317	
	2	0.98043	0.88913	0.73582	0.55835	0.39068	0.25282	0.08344	0.01929	
	3	0.99776	0.97436	0.90779	0.79457	0.64878	0.49252	0.22534	0.07300	
	4	0.99982	0.99567	0.97608	0.92744	0.84236	0.72366	0.43818	0.19385	
	5	0.99999	0.99946	0.99536	0.98059	0.94560	0.88215	0.66521	0.38721	
	6	1.00000	0.99995	0.99933	0.99610	0.98575	0.96140	0.84179	0.61279	
	7	1.00000	1.00000	0.99993	0.99942	0.99722	0.99051	0.94269	0.80615	
	8	1.00000	1.00000	0.99999	0.99994	0.99961	0.99831	0.98473	0.92700	
	9	1.00000	1.00000	1.00000	1.00000	0.99996	0.99979	0.99719	0.98071	
	10	1.00000	1.00000	1.00000	1.00000	1.00000	0.99998	0.99968	0.99683	
11	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99998	0.99976		
13	0	0.51334	0.25419	0.12091	0.05498	0.02376	0.00969	0.00131	0.00012	
	1	0.86458	0.62134	0.39828	0.23365	0.12671	0.06367	0.01263	0.00171	
	2	0.97549	0.86612	0.69196	0.50165	0.33260	0.20248	0.05790	0.01123	
	3	0.99690	0.96584	0.88200	0.74732	0.58425	0.42061	0.16858	0.04614	
	4	0.99971	0.99354	0.96584	0.90087	0.79396	0.65431	0.35304	0.13342	
	5	0.99998	0.99908	0.99247	0.96996	0.91979	0.83460	0.57440	0.29053	
	6	1.00000	0.99990	0.99873	0.99300	0.97571	0.93762	0.77116	0.50000	
	7	1.00000	0.99999	0.99984	0.99875	0.99435	0.98178	0.90233	0.70947	
	8	1.00000	1.00000	0.99998	0.99983	0.99901	0.99597	0.96792	0.86658	
	9	1.00000	1.00000	1.00000	0.99998	0.99987	0.99935	0.99221	0.95386	
	10	1.00000	1.00000	1.00000	1.00000	0.99999	0.99993	0.99868	0.98877	
	11	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99986	0.99829	
12	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999	0.99988		







**Tabell 7. F-fördelningen**

$P(X > F_\alpha(f_1, f_2))$  där  $X \in F(f_1, f_2)$

$\alpha = 0.05$

$f_2$	$f_1$	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	161	199	216	225	230	234	237	239	241	242	243	244	245	245	245
2	18.5	19.0	19.2	19.3	19.3	19.3	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
3	10.1	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81	8.79	8.76	8.74	8.73	8.71	8.71
4	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00	5.96	5.94	5.91	5.89	5.87	5.87
5	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77	4.74	4.70	4.68	4.66	4.64	4.64
6	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10	4.06	4.03	4.00	3.98	3.96	3.96
7	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68	3.64	3.60	3.57	3.55	3.53	3.53
8	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39	3.35	3.31	3.28	3.26	3.24	3.24
9	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18	3.14	3.10	3.07	3.05	3.03	3.03
10	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02	2.98	2.94	2.91	2.89	2.86	2.86
11	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90	2.85	2.82	2.79	2.76	2.74	2.74
12	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80	2.75	2.72	2.69	2.66	2.64	2.64
13	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71	2.67	2.63	2.60	2.58	2.55	2.55
14	4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.65	2.60	2.57	2.53	2.51	2.48	2.48
15	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59	2.54	2.51	2.48	2.45	2.42	2.42
16	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54	2.49	2.46	2.42	2.40	2.37	2.37
17	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49	2.45	2.41	2.38	2.35	2.33	2.33
18	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46	2.41	2.37	2.34	2.31	2.29	2.29
19	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42	2.38	2.34	2.31	2.28	2.26	2.26
20	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39	2.35	2.31	2.28	2.25	2.22	2.22
24	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30	2.25	2.22	2.18	2.15	2.13	2.13
30	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.21	2.16	2.13	2.09	2.06	2.04	2.04
40	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.08	2.04	2.00	1.97	1.95	1.95
50	4.03	3.18	2.79	2.56	2.40	2.29	2.20	2.13	2.07	2.03	1.99	1.95	1.92	1.89	1.89
60	4.00	3.15	2.76	2.53	2.37	2.25	2.17	2.10	2.04	1.99	1.95	1.92	1.89	1.86	1.86
80	3.96	3.11	2.72	2.49	2.33	2.21	2.13	2.06	2.00	1.95	1.91	1.88	1.84	1.82	1.82
100	3.94	3.09	2.70	2.46	2.31	2.19	2.10	2.03	1.97	1.93	1.89	1.85	1.82	1.79	1.79
$\infty$	3.84	3.00	2.60	2.37	2.21	2.10	2.01	1.94	1.88	1.83	1.79	1.75	1.72	1.69	1.69

Tabell 7 forts.

$\alpha = 0.05$

$f_2$	$f_1$	15	16	17	18	19	20	24	30	40	50	60	80	100	$\infty$
1	246	246	247	247	248	248	249	250	251	252	252	253	253	254	
2	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
3	8.70	8.69	8.68	8.67	8.67	8.66	8.64	8.62	8.59	8.58	8.57	8.56	8.55	8.53	
4	5.86	5.84	5.83	5.82	5.81	5.80	5.77	5.75	5.72	5.70	5.69	5.67	5.66	5.63	
5	4.62	4.60	4.59	4.58	4.57	4.56	4.53	4.50	4.46	4.44	4.43	4.41	4.41	4.36	
6	3.94	3.92	3.91	3.90	3.88	3.87	3.84	3.81	3.77	3.75	3.74	3.72	3.71	3.67	
7	3.51	3.49	3.48	3.47	3.46	3.44	3.41	3.38	3.34	3.32	3.30	3.29	3.27	3.23	
8	3.22	3.20	3.19	3.17	3.16	3.15	3.12	3.08	3.04	3.02	3.01	2.99	2.97	2.93	
9	3.01	2.99	2.97	2.96	2.95	2.94	2.90	2.86	2.83	2.80	2.79	2.77	2.76	2.71	
10	2.85	2.83	2.81	2.80	2.79	2.77	2.74	2.70	2.66	2.64	2.62	2.60	2.59	2.54	
11	2.72	2.70	2.69	2.67	2.66	2.65	2.61	2.57	2.53	2.51	2.49	2.47	2.46	2.40	
12	2.62	2.60	2.58	2.57	2.56	2.54	2.51	2.47	2.43	2.40	2.38	2.36	2.35	2.30	
13	2.53	2.51	2.50	2.48	2.47	2.46	2.42	2.38	2.34	2.31	2.30	2.27	2.26	2.21	
14	2.46	2.44	2.43	2.41	2.40	2.39	2.35	2.31	2.27	2.24	2.22	2.20	2.19	2.13	
15	2.40	2.38	2.37	2.35	2.34	2.33	2.29	2.25	2.20	2.18	2.16	2.14	2.12	2.07	
16	2.35	2.33	2.32	2.30	2.29	2.28	2.24	2.19	2.15	2.12	2.11	2.08	2.07	2.01	
17	2.31	2.29	2.27	2.26	2.24	2.23	2.19	2.15	2.10	2.08	2.06	2.03	2.02	1.96	
18	2.27	2.25	2.23	2.22	2.20	2.19	2.15	2.11	2.06	2.04	2.02	1.99	1.98	1.92	
19	2.23	2.21	2.20	2.18	2.17	2.16	2.11	2.07	2.03	2.00	1.98	1.96	1.94	1.88	
20	2.20	2.18	2.17	2.15	2.14	2.12	2.08	2.04	1.99	1.97	1.95	1.92	1.91	1.84	
24	2.11	2.09	2.07	2.05	2.04	2.03	1.98	1.94	1.89	1.86	1.84	1.82	1.80	1.73	
30	2.01	1.99	1.98	1.96	1.95	1.93	1.89	1.84	1.79	1.76	1.74	1.71	1.70	1.62	
40	1.92	1.90	1.89	1.87	1.85	1.84	1.79	1.74	1.69	1.66	1.64	1.61	1.59	1.51	
50	1.87	1.85	1.83	1.81	1.80	1.78	1.74	1.69	1.63	1.60	1.58	1.54	1.52	1.44	
60	1.84	1.82	1.80	1.78	1.76	1.75	1.70	1.65	1.59	1.56	1.53	1.50	1.48	1.39	
80	1.79	1.77	1.75	1.73	1.72	1.70	1.65	1.60	1.54	1.51	1.48	1.45	1.43	1.32	
100	1.77	1.75	1.73	1.71	1.69	1.68	1.63	1.57	1.52	1.48	1.45	1.41	1.39	1.28	
$\infty$	1.67	1.64	1.62	1.60	1.59	1.57	1.52	1.46	1.39	1.35	1.32	1.27	1.24	1.00	

Tabell 7 forts.

$$\alpha = 0.025$$

$f_2$	$f_1$	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	648	799	864	900	922	937	948	957	963	969	973	977	980	983	
2	38.5	39.0	39.2	39.3	39.3	39.3	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
3	17.4	16.0	15.4	15.1	14.9	14.7	14.6	14.5	14.5	14.4	14.4	14.3	14.3	14.3	
4	12.2	10.7	9.98	9.60	9.36	9.20	9.07	8.98	8.90	8.84	8.79	8.75	8.71	8.68	
5	10.0	8.43	7.76	7.39	7.15	6.98	6.85	6.76	6.68	6.62	6.57	6.52	6.49	6.46	
6	8.81	7.26	6.60	6.23	5.99	5.82	5.70	5.60	5.52	5.46	5.41	5.37	5.33	5.30	
7	8.07	6.54	5.89	5.52	5.29	5.12	4.99	4.90	4.82	4.76	4.71	4.67	4.63	4.60	
8	7.57	6.06	5.42	5.05	4.82	4.65	4.53	4.43	4.36	4.30	4.24	4.20	4.16	4.13	
9	7.21	5.71	5.08	4.72	4.48	4.32	4.20	4.10	4.03	3.96	3.91	3.87	3.83	3.80	
10	6.94	5.46	4.83	4.47	4.24	4.07	3.95	3.85	3.78	3.72	3.66	3.62	3.58	3.55	
11	6.72	5.26	4.63	4.28	4.04	3.88	3.76	3.66	3.59	3.53	3.47	3.43	3.39	3.36	
12	6.55	5.10	4.47	4.12	3.89	3.73	3.61	3.51	3.44	3.37	3.32	3.28	3.24	3.21	
13	6.41	4.97	4.35	4.00	3.77	3.60	3.48	3.39	3.31	3.25	3.20	3.15	3.12	3.08	
14	6.30	4.86	4.24	3.89	3.66	3.50	3.38	3.29	3.21	3.15	3.09	3.05	3.01	2.98	
15	6.20	4.77	4.15	3.80	3.58	3.41	3.29	3.20	3.12	3.06	3.01	2.96	2.92	2.89	
16	6.12	4.69	4.08	3.73	3.50	3.34	3.22	3.12	3.05	2.99	2.93	2.89	2.85	2.82	
17	6.04	4.62	4.01	3.66	3.44	3.28	3.16	3.06	2.98	2.92	2.87	2.82	2.79	2.75	
18	5.98	4.56	3.95	3.61	3.38	3.22	3.10	3.01	2.93	2.87	2.81	2.77	2.73	2.70	
19	5.92	4.51	3.90	3.56	3.33	3.17	3.05	2.96	2.88	2.82	2.76	2.72	2.68	2.65	
20	5.87	4.46	3.86	3.51	3.29	3.13	3.01	2.91	2.84	2.77	2.72	2.68	2.64	2.60	
24	5.72	4.32	3.72	3.38	3.15	2.99	2.87	2.78	2.70	2.64	2.59	2.54	2.50	2.47	
30	5.57	4.18	3.59	3.25	3.03	2.87	2.75	2.65	2.57	2.51	2.46	2.41	2.37	2.34	
40	5.42	4.05	3.46	3.13	2.90	2.74	2.62	2.53	2.45	2.39	2.33	2.29	2.25	2.21	
50	5.34	3.97	3.39	3.05	2.83	2.67	2.55	2.46	2.38	2.32	2.26	2.22	2.18	2.14	
60	5.29	3.93	3.34	3.01	2.79	2.63	2.51	2.41	2.33	2.27	2.22	2.17	2.13	2.09	
80	5.22	3.86	3.28	2.95	2.73	2.57	2.45	2.35	2.28	2.21	2.16	2.11	2.07	2.03	
100	5.18	3.83	3.25	2.92	2.70	2.54	2.42	2.32	2.24	2.18	2.12	2.08	2.04	2.00	
$\infty$	5.02	3.69	3.12	2.79	2.57	2.41	2.29	2.19	2.11	2.05	1.99	1.94	1.90	1.87	

Tabell 7 forts.

$$\alpha = 0.025$$

$f_2$	$f_1$	15	16	17	18	19	20	24	30	40	50	60	80	100	$\infty$
1	985	987	989	990	992	993	997	1001	1006	1008	1010	1012	1013	1018	
2	39.4	39.4	39.4	39.4	39.4	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	
3	14.3	14.2	14.2	14.2	14.2	14.2	14.1	14.1	14.0	14.0	14.0	14.0	14.0	13.9	
4	8.66	8.63	8.61	8.59	8.58	8.56	8.51	8.46	8.41	8.38	8.36	8.33	8.32	8.26	
5	6.43	6.40	6.38	6.36	6.34	6.33	6.28	6.23	6.18	6.14	6.12	6.10	6.08	6.02	
6	5.27	5.24	5.22	5.20	5.18	5.17	5.12	5.07	5.01	4.98	4.96	4.93	4.92	4.85	
7	4.57	4.54	4.52	4.50	4.48	4.47	4.41	4.36	4.31	4.28	4.25	4.23	4.21	4.14	
8	4.10	4.08	4.05	4.03	4.02	4.00	3.95	3.89	3.84	3.81	3.78	3.76	3.74	3.67	
9	3.77	3.74	3.72	3.70	3.68	3.67	3.61	3.56	3.51	3.47	3.45	3.42	3.40	3.33	
10	3.52	3.50	3.47	3.45	3.44	3.42	3.37	3.31	3.26	3.22	3.20	3.17	3.15	3.08	
11	3.33	3.30	3.28	3.26	3.24	3.23	3.17	3.12	3.06	3.03	3.00	2.97	2.96	2.88	
12	3.18	3.15	3.13	3.11	3.09	3.07	3.02	2.96	2.91	2.87	2.85	2.82	2.80	2.72	
13	3.05	3.03	3.00	2.98	2.96	2.95	2.89	2.84	2.78	2.74	2.72	2.69	2.67	2.60	
14	2.95	2.92	2.90	2.88	2.86	2.84	2.79	2.73	2.67	2.64	2.61	2.58	2.56	2.49	
15	2.86	2.84	2.81	2.79	2.77	2.76	2.70	2.64	2.59	2.55	2.52	2.49	2.47	2.40	
16	2.79	2.76	2.74	2.72	2.70	2.68	2.63	2.57	2.51	2.47	2.45	2.42	2.40	2.32	
17	2.72	2.70	2.67	2.65	2.63	2.62	2.56	2.50	2.44	2.41	2.38	2.35	2.33	2.25	
18	2.67	2.64	2.62	2.60	2.58	2.56	2.50	2.44	2.38	2.35	2.32	2.29	2.27	2.19	
19	2.62	2.59	2.57	2.55	2.53	2.51	2.45	2.39	2.33	2.30	2.27	2.24	2.22	2.13	
20	2.57	2.55	2.52	2.50	2.48	2.46	2.41	2.35	2.29	2.25	2.22	2.19	2.17	2.09	
24	2.44	2.41	2.39	2.36	2.35	2.33	2.27	2.21	2.15	2.11	2.08	2.05	2.02	1.94	
30	2.31	2.28	2.26	2.23	2.21	2.20	2.14	2.07	2.01	1.97	1.94	1.90	1.88	1.79	
40	2.18	2.15	2.13	2.11	2.09	2.07	2.01	1.94	1.88	1.83	1.80	1.76	1.74	1.64	
50	2.11	2.08	2.06	2.03	2.01	1.99	1.93	1.87	1.80	1.75	1.72	1.68	1.66	1.55	
60	2.06	2.03	2.01	1.98	1.96	1.94	1.88	1.82	1.74	1.70	1.67	1.63	1.60	1.48	
80	2.00	1.97	1.95	1.92	1.90	1.88	1.82	1.75	1.68	1.63	1.60	1.55	1.53	1.40	
100	1.97	1.94	1.91	1.89	1.87	1.85	1.78	1.71	1.64	1.59	1.56	1.51	1.48	1.35	
$\infty$	1.83	1.80	1.78	1.75	1.73	1.71	1.64	1.57	1.48	1.43	1.39	1.33	1.30	1.00	

Tabell 7 forts.

$\alpha = 0.01$

$f_2$	$f_1$	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	4052	4999	5403	5625	5764	5859	5928	5981	6022	6056	6083	6106	6126	6143	
2	98.5	99.0	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
3	34.1	30.8	29.5	28.7	28.2	27.9	27.7	27.5	27.3	27.2	27.1	27.1	27.0	26.9	
4	21.2	18.0	16.7	16.0	15.5	15.2	15.0	14.8	14.7	14.5	14.5	14.4	14.3	14.3	
5	16.3	13.3	12.1	11.4	11.0	10.7	10.5	10.3	10.2	10.1	9.96	9.89	9.82	9.77	
6	13.7	10.9	9.78	9.15	8.75	8.47	8.26	8.10	7.98	7.87	7.79	7.72	7.66	7.60	
7	12.3	9.55	8.45	7.85	7.46	7.19	6.99	6.84	6.72	6.62	6.54	6.47	6.41	6.36	
8	11.3	8.65	7.59	7.01	6.63	6.37	6.18	6.03	5.91	5.81	5.73	5.67	5.61	5.56	
9	10.6	8.02	6.99	6.42	6.06	5.80	5.61	5.47	5.35	5.26	5.18	5.11	5.05	5.01	
10	10.0	7.56	6.55	5.99	5.64	5.39	5.20	5.06	4.94	4.85	4.77	4.71	4.65	4.60	
11	9.65	7.21	6.22	5.67	5.32	5.07	4.89	4.74	4.63	4.54	4.46	4.40	4.34	4.29	
12	9.33	6.93	5.95	5.41	5.06	4.82	4.64	4.50	4.39	4.30	4.22	4.16	4.10	4.05	
13	9.07	6.70	5.74	5.21	4.86	4.62	4.44	4.30	4.19	4.10	4.02	3.96	3.91	3.86	
14	8.86	6.51	5.56	5.04	4.69	4.46	4.28	4.14	4.03	3.94	3.86	3.80	3.75	3.70	
15	8.68	6.36	5.42	4.89	4.56	4.32	4.14	4.00	3.89	3.80	3.73	3.67	3.61	3.56	
16	8.53	6.23	5.29	4.77	4.44	4.20	4.03	3.89	3.78	3.69	3.62	3.55	3.50	3.45	
17	8.40	6.11	5.18	4.67	4.34	4.10	3.93	3.79	3.68	3.59	3.52	3.46	3.40	3.35	
18	8.29	6.01	5.09	4.58	4.25	4.01	3.84	3.71	3.60	3.51	3.43	3.37	3.32	3.27	
19	8.18	5.93	5.01	4.50	4.17	3.94	3.77	3.63	3.52	3.43	3.36	3.30	3.24	3.19	
20	8.10	5.85	4.94	4.43	4.10	3.87	3.70	3.56	3.46	3.37	3.29	3.23	3.18	3.13	
24	7.82	5.61	4.72	4.22	3.90	3.67	3.50	3.36	3.26	3.17	3.09	3.03	2.98	2.93	
30	7.56	5.39	4.51	4.02	3.70	3.47	3.30	3.17	3.07	2.98	2.91	2.84	2.79	2.74	
40	7.31	5.18	4.31	3.83	3.51	3.29	3.12	2.99	2.89	2.80	2.73	2.66	2.61	2.56	
50	7.17	5.06	4.20	3.72	3.41	3.19	3.02	2.89	2.78	2.70	2.63	2.56	2.51	2.46	
60	7.08	4.98	4.13	3.65	3.34	3.12	2.95	2.82	2.72	2.63	2.56	2.50	2.44	2.39	
80	6.96	4.88	4.04	3.56	3.26	3.04	2.87	2.74	2.64	2.55	2.48	2.42	2.36	2.31	
100	6.90	4.82	3.98	3.51	3.21	2.99	2.82	2.69	2.59	2.50	2.43	2.37	2.31	2.27	
$\infty$	6.63	4.61	3.78	3.32	3.02	2.80	2.64	2.51	2.41	2.32	2.25	2.18	2.13	2.08	

Tabell 7 forts.

$\alpha = 0.01$

$f_2$	$f_1$	15	16	17	18	19	20	24	30	40	50	60	80	100	$\infty$
1	6157	6170	6181	6192	6201	6209	6235	6261	6287	6303	6313	6326	6334	6366	
2	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
3	26.9	26.8	26.8	26.8	26.7	26.7	26.6	26.5	26.4	26.4	26.3	26.3	26.2	26.1	
4	14.2	14.2	14.1	14.1	14.1	14.0	13.9	13.8	13.7	13.7	13.7	13.6	13.6	13.5	
5	9.72	9.68	9.64	9.61	9.58	9.55	9.47	9.38	9.29	9.24	9.20	9.16	9.13	9.02	
6	7.56	7.52	7.48	7.45	7.42	7.40	7.31	7.23	7.14	7.09	7.06	7.01	6.99	6.88	
7	6.31	6.28	6.24	6.21	6.18	6.16	6.07	5.99	5.91	5.86	5.82	5.78	5.75	5.65	
8	5.52	5.48	5.44	5.41	5.38	5.36	5.28	5.20	5.12	5.07	5.03	4.99	4.96	4.86	
9	4.96	4.92	4.89	4.86	4.83	4.81	4.73	4.65	4.57	4.52	4.48	4.44	4.41	4.31	
10	4.56	4.52	4.49	4.46	4.43	4.41	4.33	4.25	4.17	4.12	4.08	4.04	4.01	3.91	
11	4.25	4.21	4.18	4.15	4.12	4.10	4.02	3.94	3.86	3.81	3.78	3.73	3.71	3.60	
12	4.01	3.97	3.94	3.91	3.88	3.86	3.78	3.70	3.62	3.57	3.54	3.49	3.47	3.36	
13	3.82	3.78	3.75	3.72	3.69	3.66	3.59	3.51	3.43	3.38	3.34	3.30	3.27	3.17	
14	3.66	3.62	3.59	3.56	3.53	3.51	3.43	3.35	3.27	3.22	3.18	3.14	3.11	3.00	
15	3.52	3.49	3.45	3.42	3.40	3.37	3.29	3.21	3.13	3.08	3.05	3.00	2.98	2.87	
16	3.41	3.37	3.34	3.31	3.28	3.26	3.18	3.10	3.02	2.97	2.93	2.89	2.86	2.75	
17	3.31	3.27	3.24	3.21	3.19	3.16	3.08	3.00	2.92	2.87	2.83	2.79	2.76	2.65	
18	3.23	3.19	3.16	3.13	3.10	3.08	3.00	2.92	2.84	2.78	2.75	2.70	2.68	2.57	
19	3.15	3.12	3.08	3.05	3.03	3.00	2.92	2.84	2.76	2.71	2.67	2.63	2.60	2.49	
20	3.09	3.05	3.02	2.99	2.96	2.94	2.86	2.78	2.69	2.64	2.61	2.56	2.54	2.42	
24	2.89	2.85	2.82	2.79	2.76	2.74	2.66	2.58	2.49	2.44	2.40	2.36	2.33	2.21	
30	2.70	2.66	2.63	2.60	2.57	2.55	2.47	2.39	2.30	2.25	2.21	2.16	2.13	2.01	
40	2.52	2.48	2.45	2.42	2.39	2.37	2.29	2.20	2.11	2.06	2.02	1.97	1.94	1.80	
50	2.42	2.38	2.35	2.32	2.29	2.27	2.18	2.10	2.01	1.95	1.91	1.86	1.82	1.68	
60	2.35	2.31	2.28	2.25	2.22	2.20	2.12	2.03	1.94	1.88	1.84	1.78	1.75	1.60	
80	2.27	2.23	2.20	2.17	2.14	2.12	2.03	1.94	1.85	1.79	1.75	1.69	1.65	1.49	
100	2.22	2.19	2.15	2.12	2.09	2.07	1.98	1.89	1.80	1.74	1.69	1.63	1.60	1.43	
$\infty$	2.04	2.00	1.97	1.93	1.90	1.88	1.79	1.70	1.59	1.52	1.47	1.40	1.36	1.00	



Tabell 7 forts.

$$\alpha = 0.005$$

$f_2$	$f_1$	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2		198	199	199	199	199	199	199	199	199	199	199	199	199	199
3		55.6	49.8	47.5	46.2	45.4	44.8	44.4	44.1	43.9	43.7	43.5	43.4	43.3	43.2
4		31.3	26.3	24.3	23.2	22.5	22.0	21.6	21.4	21.1	21.0	20.8	20.7	20.6	20.5
5		22.8	18.3	16.5	15.6	14.9	14.5	14.2	14.0	13.8	13.6	13.5	13.4	13.3	13.2
6		18.6	14.5	12.9	12.0	11.5	11.1	10.8	10.6	10.4	10.3	10.1	10.0	9.95	9.88
7		16.2	12.4	10.9	10.1	9.52	9.16	8.89	8.68	8.51	8.38	8.27	8.18	8.10	8.03
8		14.7	11.0	9.60	8.81	8.30	7.95	7.69	7.50	7.34	7.21	7.10	7.01	6.94	6.87
9		13.6	10.1	8.72	7.96	7.47	7.13	6.88	6.69	6.54	6.42	6.31	6.23	6.15	6.09
10		12.8	9.43	8.08	7.34	6.87	6.54	6.30	6.12	5.97	5.85	5.75	5.66	5.59	5.53
11		12.2	8.91	7.60	6.88	6.42	6.10	5.86	5.68	5.54	5.42	5.32	5.24	5.16	5.10
12		11.8	8.51	7.23	6.52	6.07	5.76	5.52	5.35	5.20	5.09	4.99	4.91	4.84	4.77
13		11.4	8.19	6.93	6.23	5.79	5.48	5.25	5.08	4.94	4.82	4.72	4.64	4.57	4.51
14		11.1	7.92	6.68	6.00	5.56	5.26	5.03	4.86	4.72	4.60	4.51	4.43	4.36	4.30
15		10.8	7.70	6.48	5.80	5.37	5.07	4.85	4.67	4.54	4.42	4.33	4.25	4.18	4.12
16		10.6	7.51	6.30	5.64	5.21	4.91	4.69	4.52	4.38	4.27	4.18	4.10	4.03	3.97
17		10.4	7.35	6.16	5.50	5.07	4.78	4.56	4.39	4.25	4.14	4.05	3.97	3.90	3.84
18		10.2	7.21	6.03	5.37	4.96	4.66	4.44	4.28	4.14	4.03	3.94	3.86	3.79	3.73
19		10.1	7.09	5.92	5.27	4.85	4.56	4.34	4.18	4.04	3.93	3.84	3.76	3.70	3.64
20		9.94	6.99	5.82	5.17	4.76	4.47	4.26	4.09	3.96	3.85	3.76	3.68	3.61	3.55
24		9.55	6.66	5.52	4.89	4.49	4.20	3.99	3.83	3.69	3.59	3.50	3.42	3.35	3.30
30		9.18	6.35	5.24	4.62	4.23	3.95	3.74	3.58	3.45	3.34	3.25	3.18	3.11	3.06
40		8.83	6.07	4.98	4.37	3.99	3.71	3.51	3.35	3.22	3.12	3.03	2.95	2.89	2.83
50		8.63	5.90	4.83	4.23	3.85	3.58	3.38	3.22	3.09	2.99	2.90	2.82	2.76	2.70
60		8.49	5.79	4.73	4.14	3.76	3.49	3.29	3.13	3.01	2.90	2.82	2.74	2.68	2.62
80		8.33	5.67	4.61	4.03	3.65	3.39	3.19	3.03	2.91	2.80	2.72	2.64	2.58	2.52
100		8.24	5.59	4.54	3.96	3.59	3.33	3.13	2.97	2.85	2.74	2.66	2.58	2.52	2.46
$\infty$		7.88	5.30	4.28	3.72	3.35	3.09	2.90	2.74	2.62	2.52	2.43	2.36	2.29	2.24

Tabell 7 forts.

$$\alpha = 0.005$$

$f_2$	$f_1$	15	16	17	18	19	20	24	30	40	50	60	80	100	$\infty$
2	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199
3	43.1	43.0	42.9	42.9	42.8	42.8	42.6	42.5	42.3	42.2	42.2	42.1	42.0	41.8	
4	20.4	20.4	20.3	20.3	20.2	20.2	20.0	19.9	19.8	19.7	19.6	19.5	19.5	19.3	
5	13.2	13.1	13.0	13.0	12.9	12.9	12.8	12.7	12.5	12.5	12.4	12.3	12.3	12.1	
6	9.81	9.76	9.71	9.66	9.62	9.59	9.47	9.36	9.24	9.17	9.12	9.06	9.03	8.88	
7	7.97	7.91	7.87	7.83	7.79	7.75	7.64	7.53	7.42	7.35	7.31	7.25	7.22	7.08	
8	6.81	6.76	6.72	6.68	6.64	6.61	6.50	6.40	6.29	6.22	6.18	6.12	6.09	5.95	
9	6.03	5.98	5.94	5.90	5.86	5.83	5.73	5.62	5.52	5.45	5.41	5.36	5.32	5.19	
10	5.47	5.42	5.38	5.34	5.31	5.27	5.17	5.07	4.97	4.90	4.86	4.80	4.77	4.64	
11	5.05	5.00	4.96	4.92	4.89	4.86	4.76	4.65	4.55	4.49	4.45	4.39	4.36	4.23	
12	4.72	4.67	4.63	4.59	4.56	4.53	4.43	4.33	4.23	4.17	4.12	4.07	4.04	3.90	
13	4.46	4.41	4.37	4.33	4.30	4.27	4.17	4.07	3.97	3.91	3.87	3.81	3.78	3.65	
14	4.25	4.20	4.16	4.12	4.09	4.06	3.96	3.86	3.76	3.70	3.66	3.60	3.57	3.44	
15	4.07	4.02	3.98	3.95	3.91	3.88	3.79	3.69	3.58	3.52	3.48	3.43	3.39	3.26	
16	3.92	3.87	3.83	3.80	3.76	3.73	3.64	3.54	3.44	3.37	3.33	3.28	3.25	3.11	
17	3.79	3.75	3.71	3.67	3.64	3.61	3.51	3.41	3.31	3.25	3.21	3.15	3.12	2.98	
18	3.68	3.64	3.60	3.56	3.53	3.50	3.40	3.30	3.20	3.14	3.10	3.04	3.01	2.87	
19	3.59	3.54	3.50	3.46	3.43	3.40	3.31	3.21	3.11	3.04	3.00	2.95	2.91	2.78	
20	3.50	3.46	3.42	3.38	3.35	3.32	3.22	3.12	3.02	2.96	2.92	2.86	2.83	2.69	
24	3.25	3.20	3.16	3.12	3.09	3.06	2.97	2.87	2.77	2.70	2.66	2.60	2.57	2.43	
30	3.01	2.96	2.92	2.89	2.85	2.82	2.73	2.63	2.52	2.46	2.42	2.36	2.32	2.18	
40	2.78	2.74	2.70	2.66	2.63	2.60	2.50	2.40	2.30	2.23	2.18	2.12	2.09	1.93	
50	2.65	2.61	2.57	2.53	2.50	2.47	2.37	2.27	2.16	2.10	2.05	1.99	1.95	1.79	
60	2.57	2.53	2.49	2.45	2.42	2.39	2.29	2.19	2.08	2.01	1.96	1.90	1.86	1.69	
80	2.47	2.43	2.39	2.35	2.32	2.29	2.19	2.08	1.97	1.90	1.85	1.79	1.75	1.56	
100	2.41	2.37	2.33	2.29	2.26	2.23	2.13	2.02	1.91	1.84	1.79	1.72	1.68	1.49	
$\infty$	2.19	2.14	2.10	2.06	2.03	2.00	1.90	1.79	1.67	1.59	1.53	1.45	1.40	1.00	

Tabell 7 forts.

$$\alpha = 0.001$$

$f_2$	$f_1$	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2		998	999	999	999	999	999	999	999	999	999	999	999	999	999
3		167	148	141	137	135	133	132	131	130	129	129	128	128	128
4		74.1	61.2	56.2	53.4	51.7	50.5	49.7	49.0	48.5	48.1	47.7	47.4	47.2	47.0
5		47.2	37.1	33.2	31.1	29.8	28.8	28.2	27.7	27.2	26.9	26.6	26.4	26.2	26.1
6		35.5	27.0	23.7	21.9	20.8	20.0	19.5	19.0	18.7	18.4	18.2	18.0	17.8	17.7
7		29.2	21.7	18.8	17.2	16.2	15.5	15.0	14.6	14.3	14.1	13.9	13.7	13.6	13.4
8		25.4	18.5	15.8	14.4	13.5	12.9	12.4	12.0	11.8	11.5	11.4	11.2	11.1	10.9
9		22.9	16.4	13.9	12.6	11.7	11.1	10.7	10.4	10.1	9.89	9.72	9.57	9.44	9.33
10		21.0	14.9	12.6	11.3	10.5	9.93	9.52	9.20	8.96	8.75	8.59	8.45	8.32	8.22
11		19.7	13.8	11.6	10.4	9.58	9.05	8.66	8.35	8.12	7.92	7.76	7.63	7.51	7.41
12		18.6	13.0	10.8	9.63	8.89	8.38	8.00	7.71	7.48	7.29	7.14	7.00	6.89	6.79
13		17.8	12.3	10.2	9.07	8.35	7.86	7.49	7.21	6.98	6.80	6.65	6.52	6.41	6.31
14		17.1	11.8	9.73	8.62	7.92	7.44	7.08	6.80	6.58	6.40	6.26	6.13	6.02	5.93
15		16.6	11.3	9.34	8.25	7.57	7.09	6.74	6.47	6.26	6.08	5.94	5.81	5.71	5.62
16		16.1	11.0	9.01	7.94	7.27	6.80	6.46	6.19	5.98	5.81	5.67	5.55	5.44	5.35
17		15.7	10.7	8.73	7.68	7.02	6.56	6.22	5.96	5.75	5.58	5.44	5.32	5.22	5.13
18		15.4	10.4	8.49	7.46	6.81	6.35	6.02	5.76	5.56	5.39	5.25	5.13	5.03	4.94
19		15.1	10.2	8.28	7.27	6.62	6.18	5.85	5.59	5.39	5.22	5.08	4.97	4.87	4.78
20		14.8	9.95	8.10	7.10	6.46	6.02	5.69	5.44	5.24	5.08	4.94	4.82	4.72	4.64
24		14.0	9.34	7.55	6.59	5.98	5.55	5.23	4.99	4.80	4.64	4.51	4.39	4.30	4.21
30		13.3	8.77	7.05	6.12	5.53	5.12	4.82	4.58	4.39	4.24	4.11	4.00	3.91	3.82
40		12.6	8.25	6.59	5.70	5.13	4.73	4.44	4.21	4.02	3.87	3.75	3.64	3.55	3.47
50		12.2	7.96	6.34	5.46	4.90	4.51	4.22	4.00	3.82	3.67	3.55	3.44	3.35	3.27
60		12.0	7.77	6.17	5.31	4.76	4.37	4.09	3.86	3.69	3.54	3.42	3.32	3.23	3.15
80		11.7	7.54	5.97	5.12	4.58	4.20	3.92	3.70	3.53	3.39	3.27	3.16	3.07	3.00
100		11.5	7.41	5.86	5.02	4.48	4.11	3.83	3.61	3.44	3.30	3.18	3.07	2.99	2.91
$\infty$		10.8	6.91	5.42	4.62	4.10	3.74	3.47	3.27	3.10	2.96	2.84	2.74	2.66	2.58

Tabell 7 forts.

$\alpha = 0.001$

$f_2$	$f_1$	15	16	17	18	19	20	24	30	40	50	60	80	100	$\infty$
2	999	999	999	999	999	999	999	999	999	999	999	999	999	999	999
3	127	127	127	127	127	126	126	125	125	125	124	124	124	124	123
4	46.8	46.6	46.5	46.3	46.2	46.1	45.8	45.4	45.1	44.9	44.7	44.6	44.5	44.5	44.1
5	25.9	25.8	25.7	25.6	25.5	25.4	25.1	24.9	24.6	24.4	24.3	24.2	24.1	24.1	23.8
6	17.6	17.5	17.4	17.3	17.2	17.1	16.9	16.7	16.4	16.3	16.2	16.1	16.0	16.0	15.7
7	13.3	13.2	13.1	13.1	13.0	12.9	12.7	12.5	12.3	12.2	12.1	12.0	12.0	12.0	11.7
8	10.8	10.8	10.7	10.6	10.5	10.5	10.3	10.1	9.92	9.80	9.73	9.63	9.57	9.57	9.33
9	9.24	9.15	9.08	9.01	8.95	8.90	8.72	8.55	8.37	8.26	8.19	8.09	8.04	8.04	7.81
10	8.13	8.05	7.98	7.91	7.86	7.80	7.64	7.47	7.30	7.19	7.12	7.03	6.98	6.98	6.76
11	7.32	7.24	7.17	7.11	7.06	7.01	6.85	6.68	6.52	6.42	6.35	6.26	6.21	6.21	6.00
12	6.71	6.63	6.57	6.51	6.45	6.40	6.25	6.09	5.93	5.83	5.76	5.68	5.63	5.63	5.42
13	6.23	6.16	6.09	6.03	5.98	5.93	5.78	5.63	5.47	5.37	5.30	5.22	5.17	5.17	4.97
14	5.85	5.78	5.71	5.66	5.60	5.56	5.41	5.25	5.10	5.00	4.94	4.86	4.81	4.81	4.60
15	5.54	5.46	5.40	5.35	5.29	5.25	5.10	4.95	4.80	4.70	4.64	4.56	4.51	4.51	4.31
16	5.27	5.20	5.14	5.09	5.04	4.99	4.85	4.70	4.54	4.45	4.39	4.31	4.26	4.26	4.06
17	5.05	4.99	4.92	4.87	4.82	4.78	4.63	4.48	4.33	4.24	4.18	4.10	4.05	4.05	3.85
18	4.87	4.80	4.74	4.68	4.63	4.59	4.45	4.30	4.15	4.06	4.00	3.92	3.87	3.87	3.67
19	4.70	4.64	4.58	4.52	4.47	4.43	4.29	4.14	3.99	3.90	3.84	3.76	3.71	3.71	3.51
20	4.56	4.49	4.44	4.38	4.33	4.29	4.15	4.00	3.86	3.77	3.70	3.62	3.58	3.58	3.38
24	4.14	4.07	4.02	3.96	3.92	3.87	3.74	3.59	3.45	3.36	3.29	3.22	3.17	3.17	2.97
30	3.75	3.69	3.63	3.58	3.53	3.49	3.36	3.22	3.07	2.98	2.92	2.84	2.79	2.79	2.59
40	3.40	3.34	3.28	3.23	3.19	3.14	3.01	2.87	2.73	2.64	2.57	2.49	2.44	2.44	2.23
50	3.20	3.14	3.09	3.04	2.99	2.95	2.82	2.68	2.53	2.44	2.38	2.30	2.25	2.25	2.03
60	3.08	3.02	2.96	2.91	2.87	2.83	2.69	2.55	2.41	2.32	2.25	2.17	2.12	2.12	1.89
80	2.93	2.87	2.81	2.76	2.72	2.68	2.54	2.41	2.26	2.16	2.10	2.01	1.96	1.96	1.72
100	2.84	2.78	2.73	2.68	2.63	2.59	2.46	2.32	2.17	2.08	2.01	1.92	1.87	1.87	1.62
$\infty$	2.51	2.45	2.40	2.35	2.31	2.27	2.13	1.99	1.84	1.73	1.66	1.56	1.49	1.49	1.00

Tabell 7 forts.

$\alpha = 0.0005$

$f_2$	$f_1$	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2	1998	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999
3	267	237	225	218	214	211	209	208	207	206	205	204	204	203	
4	106	87.4	80.1	76.1	73.6	71.9	70.7	69.7	69.0	68.3	67.8	67.4	67.1	66.8	
5	63.6	49.8	44.4	41.5	39.7	38.5	37.6	36.9	36.3	35.9	35.5	35.2	34.9	34.7	
6	46.1	34.8	30.5	28.1	26.6	25.6	24.9	24.3	23.9	23.5	23.2	23.0	22.8	22.6	
7	37.0	27.2	23.5	21.4	20.2	19.3	18.7	18.2	17.8	17.5	17.2	17.0	16.8	16.6	
8	31.6	22.8	19.4	17.6	16.4	15.7	15.1	14.6	14.3	14.0	13.8	13.6	13.4	13.3	
9	28.0	19.9	16.8	15.1	14.1	13.3	12.8	12.4	12.1	11.8	11.6	11.4	11.3	11.1	
10	25.5	17.9	15.0	13.4	12.4	11.8	11.3	10.9	10.6	10.3	10.1	9.94	9.80	9.67	
11	23.7	16.4	13.7	12.2	11.2	10.6	10.1	9.76	9.48	9.24	9.05	8.88	8.74	8.62	
12	22.2	15.3	12.7	11.3	10.4	9.74	9.28	8.94	8.66	8.43	8.25	8.09	7.96	7.84	
13	21.1	14.4	11.9	10.5	9.66	9.07	8.63	8.29	8.03	7.81	7.63	7.48	7.35	7.23	
14	20.2	13.7	11.3	9.95	9.11	8.53	8.11	7.78	7.52	7.31	7.13	6.99	6.86	6.75	
15	19.5	13.2	10.8	9.48	8.66	8.10	7.68	7.37	7.11	6.91	6.73	6.59	6.47	6.36	
16	18.9	12.7	10.3	9.08	8.29	7.74	7.33	7.02	6.77	6.57	6.40	6.26	6.14	6.03	
17	18.4	12.3	9.99	8.75	7.98	7.43	7.04	6.73	6.49	6.29	6.12	5.98	5.86	5.76	
18	17.9	11.9	9.69	8.47	7.71	7.18	6.78	6.48	6.24	6.05	5.89	5.75	5.63	5.53	
19	17.5	11.6	9.42	8.23	7.48	6.95	6.57	6.27	6.03	5.84	5.68	5.55	5.43	5.33	
20	17.2	11.4	9.20	8.02	7.27	6.76	6.38	6.09	5.85	5.66	5.50	5.37	5.25	5.15	
24	16.2	10.6	8.51	7.39	6.68	6.18	5.82	5.54	5.31	5.13	4.98	4.85	4.74	4.64	
30	15.2	9.90	7.89	6.82	6.13	5.66	5.31	5.04	4.82	4.65	4.50	4.38	4.27	4.18	
40	14.4	9.25	7.33	6.30	5.64	5.19	4.85	4.59	4.38	4.21	4.07	3.95	3.85	3.76	
50	13.9	8.88	7.01	6.01	5.37	4.93	4.60	4.34	4.14	3.97	3.83	3.71	3.61	3.52	
60	13.6	8.65	6.81	5.82	5.20	4.76	4.44	4.19	3.98	3.82	3.68	3.57	3.46	3.38	
80	13.2	8.37	6.57	5.60	4.99	4.56	4.24	4.00	3.80	3.64	3.50	3.39	3.29	3.20	
100	13.0	8.21	6.43	5.48	4.87	4.45	4.13	3.89	3.69	3.53	3.40	3.28	3.19	3.10	
$\infty$	12.1	7.60	5.91	5.00	4.42	4.02	3.72	3.48	3.30	3.14	3.01	2.90	2.81	2.72	

Tabell 7 forts.

$$\alpha = 0.0005$$

$f_2$	$f_1$	15	16	17	18	19	20	24	30	40	50	60	80	100	$\infty$
2	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999
3	203	202	202	202	201	201	200	200	199	198	198	198	198	197	196
4	66.5	66.2	66.0	65.9	65.7	65.5	65.1	64.6	64.1	63.8	63.6	63.3	63.2	63.2	62.6
5	34.5	34.3	34.2	34.0	33.9	33.8	33.4	33.1	32.7	32.5	32.4	32.2	32.1	32.1	31.6
6	22.4	22.3	22.1	22.0	21.9	21.8	21.5	21.3	21.0	20.8	20.7	20.5	20.4	20.4	20.0
7	16.5	16.4	16.3	16.2	16.1	16.0	15.8	15.5	15.2	15.1	15.0	14.8	14.8	14.8	14.4
8	13.1	13.0	12.9	12.8	12.8	12.7	12.5	12.2	12.0	11.9	11.8	11.6	11.6	11.6	11.3
9	11.0	10.9	10.8	10.7	10.7	10.6	10.4	10.2	9.94	9.81	9.72	9.61	9.54	9.54	9.26
10	9.56	9.46	9.38	9.30	9.23	9.17	8.96	8.76	8.55	8.43	8.34	8.23	8.17	8.17	7.91
11	8.52	8.43	8.34	8.27	8.20	8.14	7.95	7.75	7.55	7.43	7.35	7.25	7.19	7.19	6.93
12	7.74	7.65	7.57	7.50	7.43	7.37	7.19	7.00	6.81	6.69	6.61	6.51	6.45	6.45	6.20
13	7.13	7.05	6.97	6.90	6.84	6.78	6.60	6.42	6.23	6.11	6.04	5.94	5.88	5.88	5.64
14	6.65	6.57	6.49	6.43	6.37	6.31	6.13	5.95	5.77	5.66	5.58	5.49	5.43	5.43	5.19
15	6.26	6.18	6.11	6.04	5.98	5.93	5.75	5.58	5.40	5.29	5.21	5.12	5.06	5.06	4.83
16	5.94	5.86	5.79	5.72	5.66	5.61	5.44	5.27	5.09	4.98	4.91	4.81	4.76	4.76	4.53
17	5.67	5.59	5.52	5.45	5.40	5.34	5.18	5.01	4.83	4.72	4.65	4.56	4.50	4.50	4.27
18	5.44	5.36	5.29	5.23	5.17	5.12	4.95	4.78	4.61	4.50	4.43	4.34	4.28	4.28	4.05
19	5.24	5.16	5.09	5.03	4.97	4.92	4.76	4.59	4.42	4.31	4.24	4.15	4.10	4.10	3.87
20	5.07	4.99	4.92	4.86	4.80	4.75	4.59	4.42	4.25	4.15	4.08	3.99	3.93	3.93	3.71
24	4.56	4.48	4.41	4.35	4.30	4.25	4.09	3.93	3.76	3.66	3.59	3.50	3.45	3.45	3.22
30	4.09	4.02	3.96	3.90	3.85	3.80	3.64	3.49	3.32	3.22	3.15	3.06	3.01	3.01	2.78
40	3.68	3.61	3.54	3.49	3.44	3.39	3.24	3.08	2.92	2.82	2.75	2.66	2.60	2.60	2.37
50	3.45	3.38	3.31	3.26	3.21	3.16	3.01	2.86	2.69	2.59	2.52	2.43	2.37	2.37	2.13
60	3.30	3.23	3.17	3.11	3.06	3.02	2.87	2.71	2.55	2.45	2.38	2.29	2.23	2.23	1.98
80	3.12	3.06	3.00	2.94	2.89	2.85	2.70	2.54	2.38	2.28	2.20	2.11	2.05	2.05	1.79
100	3.02	2.96	2.89	2.84	2.79	2.75	2.60	2.44	2.28	2.18	2.10	2.01	1.95	1.95	1.67
$\infty$	2.65	2.58	2.52	2.47	2.42	2.37	2.23	2.07	1.90	1.79	1.71	1.60	1.53	1.53	1.00