

Quelques tables de valeurs numériques

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Loi binomiale

Le tableau donne la fonction de répartition de la loi $\mathcal{B}(n, 1/2)$ en des valeurs entières k , et ceci pour différentes valeurs de n :

$k \setminus n$	5	6	7	8	9	10	11	12	15	20	30
0	0.0312	0.0156	0.0078	0.0039	0.0020	0.0010	0.0005	0.0002	0.0000	0.0000	0.0000
1	0.1875	0.1094	0.0625	0.0352	0.0195	0.0107	0.0059	0.0032	0.0005	0.0000	0.0000
2	0.5000	0.3438	0.2266	0.1445	0.0898	0.0547	0.0327	0.0193	0.0037	0.0002	0.0000
3	0.8125	0.6563	0.5000	0.3633	0.2539	0.1719	0.1133	0.0730	0.0176	0.0013	0.0000
4	0.9687	0.8906	0.7734	0.6367	0.5000	0.3770	0.2744	0.1938	0.0592	0.0059	0.0000
5	1.0000	0.9844	0.9375	0.8555	0.7461	0.6230	0.5000	0.3872	0.1509	0.0207	0.0002
6	1.0000	1.0000	0.9922	0.9648	0.9102	0.8281	0.7256	0.6128	0.3036	0.0577	0.0007
7	1.0000	1.0000	1.0000	0.9961	0.9805	0.9453	0.8867	0.8062	0.5000	0.1316	0.0026
8	1.0000	1.0000	1.0000	1.0000	0.9980	0.9893	0.9673	0.9270	0.6964	0.2517	0.0081
9	1.0000	1.0000	1.0000	1.0000	1.0000	0.9990	0.9941	0.9807	0.8491	0.4119	0.0214
10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9995	0.9968	0.9408	0.5881	0.0494
11	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9824	0.7483	0.1002
12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9963	0.8684	0.1808
13	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9995	0.9423	0.2923
14	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9793	0.4278
15	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9941	0.5722
16	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9987	0.7077
17	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.8192
18	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.8998
19	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9506
20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9786
21	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9919
22	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9974
23	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9993
24	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998

Les tableaux suivants donnent la fonction de répartition de la loi $\mathcal{B}(n, p)$ en des valeurs entières k et ceci pour différentes valeurs de p et de n :

		$n = 10$									
$k \setminus p$	0.005	0.01	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0	0.9511	0.9044	0.5987	0.3487	0.1969	0.1074	0.0563	0.0282	0.0135	0.0060	0.0025
1	0.9989	0.9957	0.9139	0.7361	0.5443	0.3758	0.2440	0.1493	0.0860	0.0464	0.0233
2	1.0000	0.9999	0.9885	0.9298	0.8202	0.6778	0.5256	0.3828	0.2616	0.1673	0.0996
3	1.0000	1.0000	0.9990	0.9872	0.9500	0.8791	0.7759	0.6496	0.5138	0.3823	0.2660
4	1.0000	1.0000	0.9999	0.9984	0.9901	0.9672	0.9219	0.8497	0.7515	0.6331	0.5044
5	1.0000	1.0000	1.0000	0.9999	0.9986	0.9936	0.9803	0.9527	0.9051	0.8338	0.7384
6	1.0000	1.0000	1.0000	1.0000	0.9999	0.9991	0.9965	0.9894	0.9740	0.9452	0.8980
7	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9984	0.9952	0.9877	0.9726
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9995	0.9983	0.9955
9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997

$n = 12$											
$k \setminus p$	0.005	0.01	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0	0.9416	0.8864	0.5404	0.2824	0.1422	0.0687	0.0317	0.0138	0.0057	0.0022	0.0008
1	0.9984	0.9938	0.8816	0.6590	0.4435	0.2749	0.1584	0.0850	0.0424	0.0196	0.0083
2	1.0000	0.9998	0.9804	0.8891	0.7358	0.5583	0.3907	0.2528	0.1513	0.0834	0.0421
3	1.0000	1.0000	0.9978	0.9744	0.9078	0.7946	0.6488	0.4925	0.3467	0.2253	0.1345
4	1.0000	1.0000	0.9998	0.9957	0.9761	0.9274	0.8424	0.7237	0.5833	0.4382	0.3044
5	1.0000	1.0000	1.0000	0.9995	0.9954	0.9806	0.9456	0.8822	0.7873	0.6652	0.5269
6	1.0000	1.0000	1.0000	0.9999	0.9993	0.9961	0.9857	0.9614	0.9154	0.8418	0.7393
7	1.0000	1.0000	1.0000	1.0000	0.9999	0.9994	0.9972	0.9905	0.9745	0.9427	0.8883
8	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9983	0.9944	0.9847	0.9644
9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9992	0.9972	0.9921
10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9989
11	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999
12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

$n = 15$											
$k \setminus p$	0.005	0.01	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0	0.9276	0.8601	0.4633	0.2059	0.0874	0.0352	0.0134	0.0047	0.0016	0.0005	0.0001
1	0.9975	0.9904	0.8290	0.5490	0.3186	0.1671	0.0802	0.0353	0.0142	0.0052	0.0017
2	0.9999	0.9996	0.9638	0.8159	0.6042	0.3980	0.2361	0.1268	0.0617	0.0271	0.0107
3	1.0000	1.0000	0.9945	0.9444	0.8227	0.6482	0.4613	0.2969	0.1727	0.0905	0.0424
4	1.0000	1.0000	0.9994	0.9873	0.9383	0.8358	0.6865	0.5155	0.3519	0.2173	0.1204
5	1.0000	1.0000	0.9999	0.9978	0.9832	0.9389	0.8516	0.7216	0.5643	0.4032	0.2608
6	1.0000	1.0000	1.0000	0.9997	0.9964	0.9819	0.9434	0.8689	0.7548	0.6098	0.4522
7	1.0000	1.0000	1.0000	1.0000	0.9994	0.9958	0.9827	0.9500	0.8868	0.7869	0.6535
8	1.0000	1.0000	1.0000	1.0000	0.9999	0.9992	0.9958	0.9848	0.9578	0.9050	0.8182
9	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9992	0.9963	0.9876	0.9662	0.9231
10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9993	0.9972	0.9907	0.9745
11	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9995	0.9981	0.9937
12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9989
13	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999

$n = 20$											
$k \setminus p$	0.005	0.01	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45
0	0.9046	0.8179	0.3585	0.1216	0.0388	0.0115	0.0032	0.0008	0.0002	0.0000	0.0000
1	0.9955	0.9831	0.7358	0.3917	0.1756	0.0692	0.0243	0.0076	0.0021	0.0005	0.0001
2	0.9999	0.9990	0.9245	0.6769	0.4049	0.2061	0.0913	0.0355	0.0121	0.0036	0.0009
3	1.0000	1.0000	0.9841	0.8670	0.6477	0.4114	0.2252	0.1071	0.0444	0.0160	0.0049
4	1.0000	1.0000	0.9974	0.9568	0.8298	0.6296	0.4148	0.2375	0.1182	0.0510	0.0189
5	1.0000	1.0000	0.9997	0.9887	0.9327	0.8042	0.6172	0.4164	0.2454	0.1256	0.0553
6	1.0000	1.0000	1.0000	0.9976	0.9781	0.9133	0.7858	0.6080	0.4166	0.2500	0.1299
7	1.0000	1.0000	1.0000	0.9996	0.9941	0.9679	0.8982	0.7723	0.6010	0.4159	0.2520
8	1.0000	1.0000	1.0000	0.9999	0.9987	0.9900	0.9591	0.8867	0.7624	0.5956	0.4143
9	1.0000	1.0000	1.0000	1.0000	0.9998	0.9974	0.9861	0.9520	0.8782	0.7553	0.5914
10	1.0000	1.0000	1.0000	1.0000	1.0000	0.9994	0.9961	0.9829	0.9468	0.8725	0.7507
11	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9991	0.9949	0.9804	0.9435	0.8692
12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9987	0.9940	0.9790	0.9420
13	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997	0.9985	0.9935	0.9786
14	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997	0.9984	0.9936
15	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997	0.9985
16	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997

Loi de Poisson

Les tableaux donnent quelques valeurs de la fonction de répartition F_λ , d'une loi de Poisson de paramètre

λ , pour différentes valeurs de λ : $F_\lambda(k) = \sum_{i=0}^k e^{-\lambda} \frac{\lambda^i}{i!}$ pour tout $k \in \mathbb{N}$.

$k \setminus \lambda$	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
0	0.9048	0.8187	0.7408	0.6703	0.6065	0.5488	0.4966	0.4493	0.4066	0.3679
1	0.9953	0.9825	0.9631	0.9384	0.9098	0.8781	0.8442	0.8088	0.7725	0.7358
2	0.9998	0.9989	0.9964	0.9921	0.9856	0.9769	0.9659	0.9526	0.9371	0.9197
3	1.0000	0.9999	0.9997	0.9992	0.9982	0.9966	0.9942	0.9909	0.9865	0.9810
4	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9992	0.9986	0.9977	0.9963
5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9997	0.9994
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999

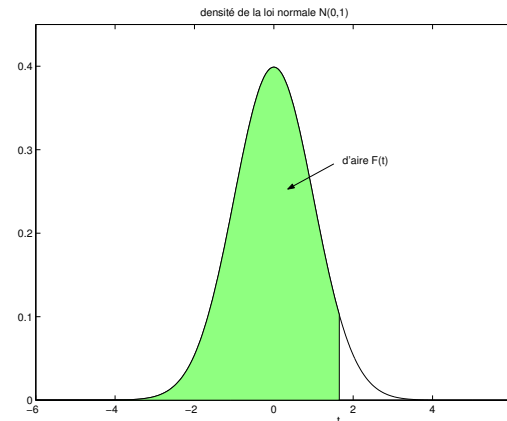
$k \setminus \lambda$	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
0	0.1353	0.0821	0.0498	0.0302	0.0183	0.0111	0.0067	0.0041	0.0025	0.0015
1	0.4060	0.2873	0.1991	0.1359	0.0916	0.0611	0.0404	0.0266	0.0174	0.0113
2	0.6767	0.5438	0.4232	0.3208	0.2381	0.1736	0.1247	0.0884	0.0620	0.0430
3	0.8571	0.7576	0.6472	0.5366	0.4335	0.3423	0.2650	0.2017	0.1512	0.1118
4	0.9473	0.8912	0.8153	0.7254	0.6288	0.5321	0.4405	0.3575	0.2851	0.2237
5	0.9834	0.9580	0.9161	0.8576	0.7851	0.7029	0.6160	0.5289	0.4457	0.3690
6	0.9955	0.9858	0.9665	0.9347	0.8893	0.8311	0.7622	0.6860	0.6063	0.5265
7	0.9989	0.9958	0.9881	0.9733	0.9489	0.9134	0.8666	0.8095	0.7440	0.6728
8	0.9998	0.9989	0.9962	0.9901	0.9786	0.9597	0.9319	0.8944	0.8472	0.7916
9	1.0000	0.9997	0.9989	0.9967	0.9919	0.9829	0.9682	0.9462	0.9161	0.8774
10	1.0000	0.9999	0.9997	0.9990	0.9972	0.9933	0.9863	0.9747	0.9574	0.9332
11	1.0000	1.0000	0.9999	0.9997	0.9991	0.9976	0.9945	0.9890	0.9799	0.9661
12	1.0000	1.0000	1.0000	0.9999	0.9997	0.9992	0.9980	0.9955	0.9912	0.9840
13	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9993	0.9983	0.9964	0.9929
14	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9994	0.9986	0.9970
15	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9995	0.9988
16	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996
17	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998
18	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999

$k \setminus \lambda$	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5
0	0.0009	0.0006	0.0003	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
1	0.0073	0.0047	0.0030	0.0019	0.0012	0.0008	0.0005	0.0003	0.0002	0.0001
2	0.0296	0.0203	0.0138	0.0093	0.0062	0.0042	0.0028	0.0018	0.0012	0.0008
3	0.0818	0.0591	0.0424	0.0301	0.0212	0.0149	0.0103	0.0071	0.0049	0.0034
4	0.1730	0.1321	0.0996	0.0744	0.0550	0.0403	0.0293	0.0211	0.0151	0.0107
5	0.3007	0.2414	0.1912	0.1496	0.1157	0.0885	0.0671	0.0504	0.0375	0.0277
6	0.4497	0.3782	0.3134	0.2562	0.2068	0.1649	0.1301	0.1016	0.0786	0.0603
7	0.5987	0.5246	0.4530	0.3856	0.3239	0.2687	0.2202	0.1785	0.1432	0.1137
8	0.7291	0.6620	0.5925	0.5231	0.4557	0.3918	0.3328	0.2794	0.2320	0.1906
9	0.8305	0.7764	0.7166	0.6530	0.5874	0.5218	0.4579	0.3971	0.3405	0.2888
10	0.9015	0.8622	0.8159	0.7634	0.7060	0.6453	0.5830	0.5207	0.4599	0.4017
11	0.9467	0.9208	0.8881	0.8487	0.8030	0.7520	0.6968	0.6387	0.5793	0.5198
12	0.9730	0.9573	0.9362	0.9091	0.8758	0.8364	0.7916	0.7420	0.6887	0.6329
13	0.9872	0.9784	0.9658	0.9486	0.9261	0.8981	0.8645	0.8253	0.7813	0.7330
14	0.9943	0.9897	0.9827	0.9726	0.9585	0.9400	0.9165	0.8879	0.8540	0.8153
15	0.9976	0.9954	0.9918	0.9862	0.9780	0.9665	0.9513	0.9317	0.9074	0.8783
16	0.9990	0.9980	0.9963	0.9934	0.9889	0.9823	0.9730	0.9604	0.9441	0.9236
17	0.9996	0.9992	0.9984	0.9970	0.9947	0.9911	0.9857	0.9781	0.9678	0.9542
18	0.9999	0.9997	0.9993	0.9987	0.9976	0.9957	0.9928	0.9885	0.9823	0.9738
19	1.0000	0.9999	0.9997	0.9995	0.9989	0.9980	0.9965	0.9942	0.9907	0.9857
20	1.0000	1.0000	0.9999	0.9998	0.9996	0.9991	0.9984	0.9972	0.9953	0.9925
21	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9993	0.9987	0.9977	0.9962
22	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9997	0.9994	0.9990	0.9982
23	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9998	0.9995	0.9992
24	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996
25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998
26	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999

Loi Normale $\mathcal{N}(0, 1)$

Le tableau donne les valeurs de la fonction de répartition F de la loi normale $\mathcal{N}(0, 1)$ en différents points t .

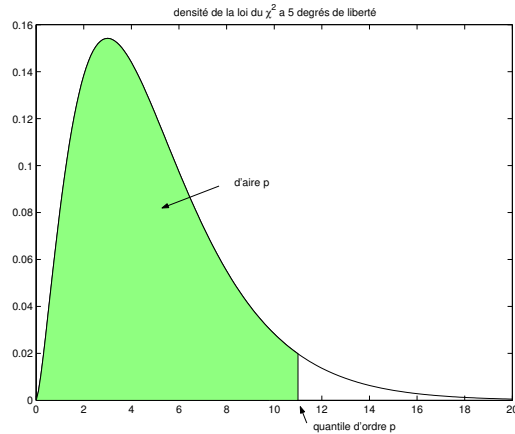
Par exemple, à l'intersection de la ligne 17 et de la colonne 6, on lit $F(1.65) = 0.9505$.



t	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9987	0.9987	0.9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990
3.1	0.9990	0.9991	0.9991	0.9991	0.9992	0.9992	0.9992	0.9992	0.9993	0.9993
3.2	0.9993	0.9993	0.9994	0.9994	0.9994	0.9994	0.9994	0.9995	0.9995	0.9995
3.3	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	0.9996	0.9996	0.9997
3.4	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998
3.5	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998
3.6	0.9998	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999

Loi du χ^2

Le tableau donne différents quantiles de la loi du χ^2 à n degrés de liberté : si F_n est la fonction de répartition de la loi du $\chi^2(n)$ et $p \in]0, 1[$, alors le quantile d'ordre p de la loi du χ^2 à n degrés de liberté est le réel t tel que $F_n(t) = p$.

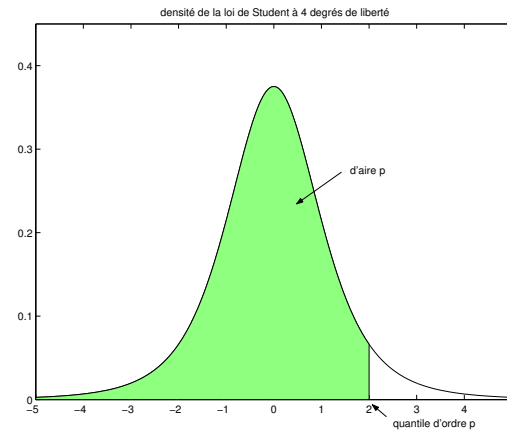


$n \setminus p$	0.001	0.005	0.010	0.020	0.025	0.050	0.1	0.15	0.2
1	0.0000	0.0000	0.0002	0.0006	0.0010	0.0039	0.0158	0.0358	0.0642
2	0.0020	0.0100	0.0201	0.0404	0.0506	0.1026	0.2107	0.3250	0.4463
3	0.0243	0.0717	0.1148	0.1848	0.2158	0.3518	0.5844	0.7978	1.0052
4	0.0908	0.2070	0.2971	0.4294	0.4844	0.7107	1.0636	1.3665	1.6488
5	0.2102	0.4117	0.5543	0.7519	0.8312	1.1455	1.6103	1.9938	2.3425
6	0.3811	0.6757	0.8721	1.1344	1.2373	1.6354	2.2041	2.6613	3.0701
7	0.5985	0.9893	1.2390	1.5643	1.6899	2.1673	2.8331	3.3583	3.8223
8	0.8571	1.3444	1.6465	2.0325	2.1797	2.7326	3.4895	4.0782	4.5936
9	1.1519	1.7349	2.0879	2.5324	2.7004	3.3251	4.1682	4.8165	5.3801
10	1.4787	2.1559	2.5582	3.0591	3.2470	3.9403	4.8652	5.5701	6.1791
11	1.8339	2.6032	3.0535	3.6087	3.8157	4.5748	5.5778	6.3364	6.9887
12	2.2142	3.0738	3.5706	4.1783	4.4038	5.2260	6.3038	7.1138	7.8073
13	2.6172	3.5650	4.1069	4.7654	5.0088	5.8919	7.0415	7.9008	8.6339
14	3.0407	4.0747	4.6604	5.3682	5.6287	6.5706	7.7895	8.6963	9.4673
15	3.4827	4.6009	5.2293	5.9849	6.2621	7.2609	8.5468	9.4993	10.3070
16	3.9416	5.1422	5.8122	6.6142	6.9077	7.9616	9.3122	10.3090	11.1521
17	4.4161	5.6972	6.4078	7.2550	7.5642	8.6718	10.0852	11.1249	12.0023
18	4.9048	6.2648	7.0149	7.9062	8.2307	9.3905	10.8649	11.9463	12.8570
19	5.4068	6.8440	7.6327	8.5670	8.9065	10.1170	11.6509	12.7727	13.7158
20	5.9210	7.4338	8.2604	9.2367	9.5908	10.8508	12.4426	13.6039	14.5784
21	6.4467	8.0337	8.8972	9.9146	10.2829	11.5913	13.2396	14.4393	15.4446
22	6.9830	8.6427	9.5425	10.6000	10.9823	12.3380	14.0415	15.2788	16.3140
23	7.5292	9.2604	10.1957	11.2926	11.6886	13.0905	14.8480	16.1219	17.1865
24	8.0849	9.8862	10.8564	11.9918	12.4012	13.8484	15.6587	16.9686	18.0618
25	8.6493	10.5197	11.5240	12.6973	13.1197	14.6114	16.4734	17.8184	18.9398
26	9.2221	11.1602	12.1981	13.4086	13.8439	15.3792	17.2919	18.6714	19.8202
27	9.8028	11.8076	12.8785	14.1254	14.5734	16.1514	18.1139	19.5272	20.7030
28	10.3909	12.4613	13.5647	14.8475	15.3079	16.9279	18.9392	20.3857	21.5880
29	10.9861	13.1211	14.2565	15.5745	16.0471	17.7084	19.7677	21.2468	22.4751
30	11.5880	13.7867	14.9535	16.3062	16.7908	18.4927	20.5992	22.1103	23.3641
31	12.1963	14.4578	15.6555	17.0423	17.5387	19.2806	21.4336	22.9762	24.2551
32	12.8107	15.1340	16.3622	17.7827	18.2908	20.0719	22.2706	23.8442	25.1478
33	13.4309	15.8153	17.0735	18.5271	19.0467	20.8665	23.1102	24.7143	26.0422
34	14.0567	16.5013	17.7891	19.2754	19.8063	21.6643	23.9523	25.5864	26.9383
35	14.6878	17.1918	18.5089	20.0274	20.5694	22.4650	24.7967	26.4604	27.8359
36	15.3241	17.8867	19.2327	20.7829	21.3359	23.2686	25.6433	27.3362	28.7350

$n \setminus p$	0.800	0.850	0.900	0.950	0.975	0.980	0.990	0.995	0.999
1	1.6424	2.0723	2.7055	3.8415	5.0239	5.4119	6.6349	7.8794	10.8276
2	3.2189	3.7942	4.6052	5.9915	7.3778	7.8240	9.2103	10.5966	13.8155
3	4.6416	5.3170	6.2514	7.8147	9.3484	9.8374	11.3449	12.8382	16.2662
4	5.9886	6.7449	7.7794	9.4877	11.1433	11.6678	13.2767	14.8603	18.4668
5	7.2893	8.1152	9.2364	11.0705	12.8325	13.3882	15.0863	16.7496	20.5150
6	8.5581	9.4461	10.6446	12.5916	14.4494	15.0332	16.8119	18.5476	22.4577
7	9.8032	10.7479	12.0170	14.0671	16.0128	16.6224	18.4753	20.2777	24.3219
8	11.0301	12.0271	13.3616	15.5073	17.5345	18.1682	20.0902	21.9550	26.1245
9	12.2421	13.2880	14.6837	16.9190	19.0228	19.6790	21.6660	23.5894	27.8772
10	13.4420	14.5339	15.9872	18.3070	20.4832	21.1608	23.2093	25.1882	29.5883
11	14.6314	15.7671	17.2750	19.6751	21.9200	22.6179	24.7250	26.7568	31.2641
12	15.8120	16.9893	18.5493	21.0261	23.3367	24.0540	26.2170	28.2995	32.9095
13	16.9848	18.2020	19.8119	22.3620	24.7356	25.4715	27.6882	29.8195	34.5282
14	18.1508	19.4062	21.0641	23.6848	26.1189	26.8728	29.1412	31.3193	36.1233
15	19.3107	20.6030	22.3071	24.9958	27.4884	28.2595	30.5779	32.8013	37.6973
16	20.4651	21.7931	23.5418	26.2962	28.8454	29.6332	31.9999	34.2672	39.2524
17	21.6146	22.9770	24.7690	27.5871	30.1910	30.9950	33.4087	35.7185	40.7902
18	22.7595	24.1555	25.9894	28.8693	31.5264	32.3462	34.8053	37.1565	42.3124
19	23.9004	25.3289	27.2036	30.1435	32.8523	33.6874	36.1909	38.5823	43.8202
20	25.0375	26.4976	28.4120	31.4104	34.1696	35.0196	37.5662	39.9968	45.3147
21	26.1711	27.6620	29.6151	32.6706	35.4789	36.3434	38.9322	41.4011	46.7970
22	27.3015	28.8225	30.8133	33.9244	36.7807	37.6595	40.2894	42.7957	48.2679
23	28.4288	29.9792	32.0069	35.1725	38.0756	38.9683	41.6384	44.1813	49.7282
24	29.5533	31.1325	33.1962	36.4150	39.3641	40.2704	42.9798	45.5585	51.1786
25	30.6752	32.2825	34.3816	37.6525	40.6465	41.5661	44.3141	46.9279	52.6197
26	31.7946	33.4295	35.5632	38.8851	41.9232	42.8558	45.6417	48.2899	54.0520
27	32.9117	34.5736	36.7412	40.1133	43.1945	44.1400	46.9629	49.6449	55.4760
28	34.0266	35.7150	37.9159	41.3371	44.4608	45.4188	48.2782	50.9934	56.8923
29	35.1394	36.8538	39.0875	42.5570	45.7223	46.6927	49.5879	52.3356	58.3012
30	36.2502	37.9903	40.2560	43.7730	46.9792	47.9618	50.8922	53.6720	59.7031
31	37.3591	39.1244	41.4217	44.9853	48.2319	49.2264	52.1914	55.0027	61.0983
32	38.4663	40.2563	42.5847	46.1943	49.4804	50.4867	53.4858	56.3281	62.4872
33	39.5718	41.3861	43.7452	47.3999	50.7251	51.7429	54.7755	57.6484	63.8701
34	40.6756	42.5140	44.9032	48.6024	51.9660	52.9952	56.0609	58.9639	65.2472
35	41.7780	43.6399	46.0588	49.8018	53.2033	54.2438	57.3421	60.2748	66.6188
36	42.8788	44.7641	47.2122	50.9985	54.4373	55.4889	58.6192	61.5812	67.9852

Loi de Student

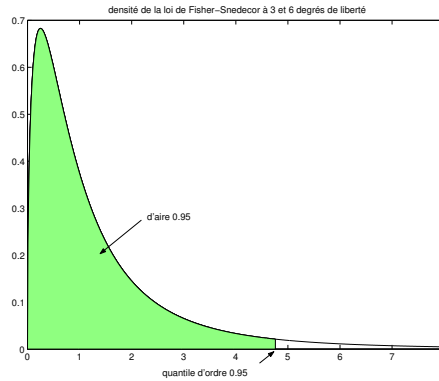
Le tableau donne différents quantiles de la loi de Student à n degrés de liberté $\mathcal{T}(n)$: si F_n est la fonction de répartition de la loi de Student $\mathcal{T}(n)$ et $p \in]0, 1[$, alors le quantile d'ordre p de la loi $\mathcal{T}(n)$ est le réel t tel que $F_n(t) = p$.



$n \setminus p$	0.550	0.650	0.750	0.850	0.900	0.950	0.975	0.990	0.995	0.999	0.9995
1	0.158	0.510	1.000	1.963	3.078	6.314	12.706	31.821	63.657	318.309	636.619
2	0.142	0.445	0.816	1.386	1.886	2.920	4.303	6.965	9.925	22.327	31.599
3	0.137	0.424	0.765	1.250	1.638	2.353	3.182	4.541	5.841	10.215	12.924
4	0.134	0.414	0.741	1.190	1.533	2.132	2.776	3.747	4.604	7.173	8.610
5	0.132	0.408	0.727	1.156	1.476	2.015	2.571	3.365	4.032	5.893	6.869
6	0.131	0.404	0.718	1.134	1.440	1.943	2.447	3.143	3.707	5.208	5.959
7	0.130	0.402	0.711	1.119	1.415	1.895	2.365	2.998	3.499	4.785	5.408
8	0.130	0.399	0.706	1.108	1.397	1.860	2.306	2.896	3.355	4.501	5.041
9	0.129	0.398	0.703	1.100	1.383	1.833	2.262	2.821	3.250	4.297	4.781
10	0.129	0.397	0.700	1.093	1.372	1.812	2.228	2.764	3.169	4.144	4.587
11	0.129	0.396	0.697	1.088	1.363	1.796	2.201	2.718	3.106	4.025	4.437
12	0.128	0.395	0.695	1.083	1.356	1.782	2.179	2.681	3.055	3.930	4.318
13	0.128	0.394	0.694	1.079	1.350	1.771	2.160	2.650	3.012	3.852	4.221
14	0.128	0.393	0.692	1.076	1.345	1.761	2.145	2.624	2.977	3.787	4.140
15	0.128	0.393	0.691	1.074	1.341	1.753	2.131	2.602	2.947	3.733	4.073
16	0.128	0.392	0.690	1.071	1.337	1.746	2.120	2.583	2.921	3.686	4.015
17	0.128	0.392	0.689	1.069	1.333	1.740	2.110	2.567	2.898	3.646	3.965
18	0.127	0.392	0.688	1.067	1.330	1.734	2.101	2.552	2.878	3.610	3.922
19	0.127	0.391	0.688	1.066	1.328	1.729	2.093	2.539	2.861	3.579	3.883
20	0.127	0.391	0.687	1.064	1.325	1.725	2.086	2.528	2.845	3.552	3.850
21	0.127	0.391	0.686	1.063	1.323	1.721	2.080	2.518	2.831	3.527	3.819
22	0.127	0.390	0.686	1.061	1.321	1.717	2.074	2.508	2.819	3.505	3.792
23	0.127	0.390	0.685	1.060	1.319	1.714	2.069	2.500	2.807	3.485	3.768
24	0.127	0.390	0.685	1.059	1.318	1.711	2.064	2.492	2.797	3.467	3.745
25	0.127	0.390	0.684	1.058	1.316	1.708	2.060	2.485	2.787	3.450	3.725
26	0.127	0.390	0.684	1.058	1.315	1.706	2.056	2.479	2.779	3.435	3.707
27	0.127	0.389	0.684	1.057	1.314	1.703	2.052	2.473	2.771	3.421	3.690
28	0.127	0.389	0.683	1.056	1.313	1.701	2.048	2.467	2.763	3.408	3.674
29	0.127	0.389	0.683	1.055	1.311	1.699	2.045	2.462	2.756	3.396	3.659
30	0.127	0.389	0.683	1.055	1.310	1.697	2.042	2.457	2.750	3.385	3.646
40	0.126	0.388	0.681	1.050	1.303	1.684	2.021	2.423	2.704	3.307	3.551
50	0.126	0.388	0.679	1.047	1.299	1.676	2.009	2.403	2.678	3.261	3.496
60	0.126	0.387	0.679	1.045	1.296	1.671	2.000	2.390	2.660	3.232	3.460
70	0.126	0.387	0.678	1.044	1.294	1.667	1.994	2.381	2.648	3.211	3.435
80	0.126	0.387	0.678	1.043	1.292	1.664	1.990	2.374	2.639	3.195	3.416
90	0.126	0.387	0.677	1.042	1.291	1.662	1.987	2.368	2.632	3.183	3.402
100	0.126	0.386	0.677	1.042	1.290	1.660	1.984	2.364	2.626	3.174	3.390

Loi de Fisher-Snedecor

Le tableau suivant donne les quantiles d'ordre $q = 0,95$ et $q = 0,975$ de la loi de Fisher-Snedecor à n_1 et n_2 degrés de liberté $\mathcal{F}(n_1, n_2)$.



n_2	$q \setminus n_1$	1	2	3	4	5	6	7	8	9	10
2	0.950	18.513	19.000	19.164	19.247	19.296	19.330	19.353	19.371	19.385	19.396
	0.975	38.506	39.000	39.165	39.248	39.298	39.331	39.355	39.373	39.387	39.398
3	0.950	10.128	9.552	9.277	9.117	9.013	8.941	8.887	8.845	8.812	8.786
	0.975	17.443	16.044	15.439	15.101	14.885	14.735	14.624	14.540	14.473	14.419
4	0.950	7.709	6.944	6.591	6.388	6.256	6.163	6.094	6.041	5.999	5.964
	0.975	12.218	10.649	9.979	9.605	9.364	9.197	9.074	8.980	8.905	8.844
5	0.950	6.608	5.786	5.409	5.192	5.050	4.950	4.876	4.818	4.772	4.735
	0.975	10.007	8.434	7.764	7.388	7.146	6.978	6.853	6.757	6.681	6.619
6	0.950	5.987	5.143	4.757	4.534	4.387	4.284	4.207	4.147	4.099	4.060
	0.975	8.813	7.260	6.599	6.227	5.988	5.820	5.695	5.600	5.523	5.461
7	0.950	5.591	4.737	4.347	4.120	3.972	3.866	3.787	3.726	3.677	3.637
	0.975	8.073	6.542	5.890	5.523	5.285	5.119	4.995	4.899	4.823	4.761
8	0.950	5.318	4.459	4.066	3.838	3.687	3.581	3.500	3.438	3.388	3.347
	0.975	7.571	6.059	5.416	5.053	4.817	4.652	4.529	4.433	4.357	4.295
9	0.950	5.117	4.256	3.863	3.633	3.482	3.374	3.293	3.230	3.179	3.137
	0.975	7.209	5.715	5.078	4.718	4.484	4.320	4.197	4.102	4.026	3.964
10	0.950	4.965	4.103	3.708	3.478	3.326	3.217	3.135	3.072	3.020	2.978
	0.975	6.937	5.456	4.826	4.468	4.236	4.072	3.950	3.855	3.779	3.717
11	0.950	4.844	3.982	3.587	3.357	3.204	3.095	3.012	2.948	2.896	2.854
	0.975	6.724	5.256	4.630	4.275	4.044	3.881	3.759	3.664	3.588	3.526
12	0.950	4.747	3.885	3.490	3.259	3.106	2.996	2.913	2.849	2.796	2.753
	0.975	6.554	5.096	4.474	4.121	3.891	3.728	3.607	3.512	3.436	3.374
13	0.950	4.667	3.806	3.411	3.179	3.025	2.915	2.832	2.767	2.714	2.671
	0.975	6.414	4.965	4.347	3.996	3.767	3.604	3.483	3.388	3.312	3.250
14	0.950	4.600	3.739	3.344	3.112	2.958	2.848	2.764	2.699	2.646	2.602
	0.975	6.298	4.857	4.242	3.892	3.663	3.501	3.380	3.285	3.209	3.147
15	0.950	4.543	3.682	3.287	3.056	2.901	2.790	2.707	2.641	2.588	2.544
	0.975	6.200	4.765	4.153	3.804	3.576	3.415	3.293	3.199	3.123	3.060
16	0.950	4.494	3.634	3.239	3.007	2.852	2.741	2.657	2.591	2.538	2.494
	0.975	6.115	4.687	4.077	3.729	3.502	3.341	3.219	3.125	3.049	2.986
17	0.950	4.451	3.592	3.197	2.965	2.810	2.699	2.614	2.548	2.494	2.450
	0.975	6.042	4.619	4.011	3.665	3.438	3.277	3.156	3.061	2.985	2.922
18	0.950	4.414	3.555	3.160	2.928	2.773	2.661	2.577	2.510	2.456	2.412
	0.975	5.978	4.560	3.954	3.608	3.382	3.221	3.100	3.005	2.929	2.866
19	0.950	4.381	3.522	3.127	2.895	2.740	2.628	2.544	2.477	2.423	2.378
	0.975	5.922	4.508	3.903	3.559	3.333	3.172	3.051	2.956	2.880	2.817
20	0.950	4.351	3.493	3.098	2.866	2.711	2.599	2.514	2.447	2.393	2.348
	0.975	5.871	4.461	3.859	3.515	3.289	3.128	3.007	2.913	2.837	2.774
30	0.950	4.171	3.316	2.922	2.690	2.534	2.421	2.334	2.266	2.211	2.165
	0.975	5.568	4.182	3.589	3.250	3.026	2.867	2.746	2.651	2.575	2.511
40	0.950	4.085	3.232	2.839	2.606	2.449	2.336	2.249	2.180	2.124	2.077
	0.975	5.424	4.051	3.463	3.126	2.904	2.744	2.624	2.529	2.452	2.388
50	0.950	4.034	3.183	2.790	2.557	2.400	2.286	2.199	2.130	2.073	2.026
	0.975	5.340	3.975	3.390	3.054	2.833	2.674	2.553	2.458	2.381	2.317
60	0.950	4.001	3.150	2.758	2.525	2.368	2.254	2.167	2.097	2.040	1.993
	0.975	5.286	3.925	3.343	3.008	2.786	2.627	2.507	2.412	2.334	2.270
70	0.950	3.978	3.128	2.736	2.503	2.346	2.231	2.143	2.074	2.017	1.969
	0.975	5.247	3.890	3.309	2.975	2.754	2.595	2.474	2.379	2.302	2.237

n_2	$q \setminus n_1$	12	14	16	18	20	30	40	50	60	70
2	0.950	19.413	19.424	19.433	19.440	19.446	19.462	19.471	19.476	19.479	19.481
	0.975	39.415	39.427	39.435	39.442	39.448	39.465	39.473	39.478	39.481	39.484
3	0.950	8.745	8.715	8.692	8.675	8.660	8.617	8.594	8.581	8.572	8.566
	0.975	14.337	14.277	14.232	14.196	14.167	14.081	14.037	14.010	13.992	13.979
4	0.950	5.912	5.873	5.844	5.821	5.803	5.746	5.717	5.699	5.688	5.679
	0.975	8.751	8.684	8.633	8.592	8.560	8.461	8.411	8.381	8.360	8.346
5	0.950	4.678	4.636	4.604	4.579	4.558	4.496	4.464	4.444	4.431	4.422
	0.975	6.525	6.456	6.403	6.362	6.329	6.227	6.175	6.144	6.123	6.107
6	0.950	4.000	3.956	3.922	3.896	3.874	3.808	3.774	3.754	3.740	3.730
	0.975	5.366	5.297	5.244	5.202	5.168	5.065	5.012	4.980	4.959	4.943
7	0.950	3.575	3.529	3.494	3.467	3.445	3.376	3.340	3.319	3.304	3.294
	0.975	4.666	4.596	4.543	4.501	4.467	4.362	4.309	4.276	4.254	4.239
8	0.950	3.284	3.237	3.202	3.173	3.150	3.079	3.043	3.020	3.005	2.994
	0.975	4.200	4.130	4.076	4.034	3.999	3.894	3.840	3.807	3.784	3.768
9	0.950	3.073	3.025	2.989	2.960	2.936	2.864	2.826	2.803	2.787	2.776
	0.975	3.868	3.798	3.744	3.701	3.667	3.560	3.505	3.472	3.449	3.433
10	0.950	2.913	2.865	2.828	2.798	2.774	2.700	2.661	2.637	2.621	2.610
	0.975	3.621	3.550	3.496	3.453	3.419	3.311	3.255	3.221	3.198	3.182
11	0.950	2.788	2.739	2.701	2.671	2.646	2.570	2.531	2.507	2.490	2.478
	0.975	3.430	3.359	3.304	3.261	3.226	3.118	3.061	3.027	3.004	2.987
12	0.950	2.687	2.637	2.599	2.568	2.544	2.466	2.426	2.401	2.384	2.372
	0.975	3.277	3.206	3.152	3.108	3.073	2.963	2.906	2.871	2.848	2.831
13	0.950	2.604	2.554	2.515	2.484	2.459	2.380	2.339	2.314	2.297	2.284
	0.975	3.153	3.082	3.027	2.983	2.948	2.837	2.780	2.744	2.720	2.703
14	0.950	2.534	2.484	2.445	2.413	2.388	2.308	2.266	2.241	2.223	2.210
	0.975	3.050	2.979	2.923	2.879	2.844	2.732	2.674	2.638	2.614	2.597
15	0.950	2.475	2.424	2.385	2.353	2.328	2.247	2.204	2.178	2.160	2.147
	0.975	2.963	2.891	2.836	2.792	2.756	2.644	2.585	2.549	2.524	2.506
16	0.950	2.425	2.373	2.333	2.302	2.276	2.194	2.151	2.124	2.106	2.093
	0.975	2.889	2.817	2.761	2.717	2.681	2.568	2.509	2.472	2.447	2.429
17	0.950	2.381	2.329	2.289	2.257	2.230	2.148	2.104	2.077	2.058	2.045
	0.975	2.825	2.753	2.697	2.652	2.616	2.502	2.442	2.405	2.380	2.362
18	0.950	2.342	2.290	2.250	2.217	2.191	2.107	2.063	2.035	2.017	2.003
	0.975	2.769	2.696	2.640	2.596	2.559	2.445	2.384	2.347	2.321	2.303
19	0.950	2.308	2.256	2.215	2.182	2.155	2.071	2.026	1.999	1.980	1.966
	0.975	2.720	2.647	2.591	2.546	2.509	2.394	2.333	2.295	2.270	2.251
20	0.950	2.278	2.225	2.184	2.151	2.124	2.039	1.994	1.966	1.946	1.932
	0.975	2.676	2.603	2.547	2.501	2.464	2.349	2.287	2.249	2.223	2.205
30	0.950	2.092	2.037	1.995	1.960	1.932	1.841	1.792	1.761	1.740	1.724
	0.975	2.412	2.338	2.280	2.233	2.195	2.074	2.009	1.968	1.940	1.920
40	0.950	2.003	1.948	1.904	1.868	1.839	1.744	1.693	1.660	1.637	1.621
	0.975	2.288	2.213	2.154	2.107	2.068	1.943	1.875	1.832	1.803	1.781
50	0.950	1.952	1.895	1.850	1.814	1.784	1.687	1.634	1.599	1.576	1.558
	0.975	2.216	2.140	2.081	2.033	1.993	1.866	1.796	1.752	1.721	1.698
60	0.950	1.917	1.860	1.815	1.778	1.748	1.649	1.594	1.559	1.534	1.516
	0.975	2.169	2.093	2.033	1.985	1.944	1.815	1.744	1.699	1.667	1.643
70	0.950	1.893	1.836	1.790	1.753	1.722	1.622	1.566	1.530	1.505	1.486
	0.975	2.136	2.059	1.999	1.950	1.910	1.779	1.707	1.660	1.628	1.604

Quantiles d'ordre $q = 0.95$ et $q = 0.975$ pour la loi de Fisher-Snedecor $\mathcal{F}(n_1, 1)$:

$q \setminus n_1$	1	2	3	4	5	6	7	8	9	10
0.950	161.448	199.500	215.707	224.583	230.162	233.986	236.768	238.883	240.543	241.882
0.975	647.789	799.500	864.163	899.583	921.848	937.111	948.217	956.656	963.285	968.627
$q \setminus n_1$	12	14	16	18	20	30	40	50	60	70
0.950	161.448	199.500	215.707	224.583	230.162	233.986	236.768	238.883	240.543	241.882
0.975	647.789	799.500	864.163	899.583	921.848	937.111	948.217	956.656	963.285	968.627