

Distribución Fisher-Snedecor acumulada:

Valores x tales que $P(X \leq x) = p$ **p=0,90** $F_{n,m}$

n=n° de grados de libertad del numerador

Valores con redondeo en el 5º decimal

m=n° de grados de libertad del denominador

n \ m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	20	25	30	40	50	60	100	500	∞	m / n
1	39,8635	8,5263	5,5383	4,5448	4,0604	3,7759	3,5894	3,4579	3,3603	3,2850	3,2252	3,1765	3,1362	3,1022	3,0732	2,9747	2,9177	2,8807	2,8354	2,8087	2,7911	2,7564	2,7156	2,7055	1
2	49,5000	9,0000	5,4624	4,3246	3,7797	3,4633	3,2574	3,1131	3,0065	2,9245	2,8595	2,8068	2,7632	2,7265	2,6952	2,5893	2,5283	2,4887	2,4404	2,4120	2,3933	2,3564	2,3132	2,3026	2
3	53,5932	9,1618	5,3908	4,1909	3,6195	3,2888	3,0741	2,9238	2,8129	2,7277	2,6602	2,6055	2,5603	2,5222	2,4898	2,3801	2,3170	2,2761	2,2261	2,1967	2,1774	2,1394	2,0948	2,0838	3
4	55,8330	9,2434	5,3426	4,1072	3,5202	3,1808	2,9605	2,8064	2,6927	2,6053	2,5362	2,4801	2,4337	2,3947	2,3614	2,2489	2,1842	2,1422	2,0909	2,0608	2,0410	2,0019	1,9561	1,9449	4
5	57,2401	9,2926	5,3092	4,0506	3,4530	3,1075	2,8833	2,7264	2,6106	2,5216	2,4512	2,3940	2,3467	2,3069	2,2730	2,1582	2,0922	2,0492	1,9968	1,9660	1,9457	1,9057	1,8588	1,8473	5
6	58,2044	9,3255	5,2847	4,0097	3,4045	3,0546	2,8274	2,6683	2,5509	2,4606	2,3891	2,3310	2,2830	2,2426	2,2081	2,0913	2,0241	1,9803	1,9269	1,8954	1,8747	1,8339	1,7859	1,7741	6
7	58,9060	9,3491	5,2662	3,9790	3,3679	3,0145	2,7849	2,6241	2,5053	2,4140	2,3416	2,2828	2,2341	2,1931	2,1582	2,0397	1,9714	1,9269	1,8725	1,8405	1,8194	1,7778	1,7288	1,7167	7
8	59,4390	9,3668	5,2517	3,9549	3,3393	2,9830	2,7516	2,5893	2,4694	2,3772	2,3040	2,2446	2,1953	2,1539	2,1185	1,9985	1,9292	1,8841	1,8289	1,7963	1,7748	1,7324	1,6825	1,6702	8
9	59,8576	9,3805	5,2400	3,9357	3,3163	2,9577	2,7247	2,5612	2,4403	2,3473	2,2735	2,2135	2,1638	2,1220	2,0862	1,9649	1,8947	1,8490	1,7929	1,7598	1,7380	1,6949	1,6441	1,6315	9
10	60,1950	9,3916	5,2304	3,9199	3,2974	2,9369	2,7025	2,5380	2,4163	2,3226	2,2482	2,1878	2,1376	2,0954	2,0593	1,9367	1,8658	1,8195	1,7627	1,7291	1,7070	1,6632	1,6115	1,5987	10
11	60,4727	9,4006	5,2224	3,9067	3,2816	2,9195	2,6839	2,5186	2,3961	2,3018	2,2269	2,1660	2,1155	2,0729	2,0366	1,9129	1,8412	1,7944	1,7369	1,7029	1,6805	1,6360	1,5835	1,5705	11
12	60,7052	9,4081	5,2156	3,8955	3,2682	2,9047	2,6681	2,5020	2,3789	2,2841	2,2087	2,1474	2,0966	2,0537	2,0171	1,8924	1,8200	1,7727	1,7146	1,6802	1,6574	1,6124	1,5590	1,5458	12
13	60,9028	9,4145	5,2098	3,8859	3,2567	2,8920	2,6545	2,4876	2,3640	2,2687	2,1930	2,1313	2,0802	2,0370	2,0001	1,8745	1,8015	1,7538	1,6950	1,6602	1,6372	1,5916	1,5374	1,5240	13
14	61,0727	9,4200	5,2047	3,8776	3,2468	2,8809	2,6426	2,4752	2,3510	2,2553	2,1792	2,1173	2,0658	2,0224	1,9853	1,8588	1,7853	1,7371	1,6778	1,6426	1,6193	1,5731	1,5182	1,5046	14
15	61,2203	9,4247	5,2003	3,8704	3,2380	2,8712	2,6322	2,4642	2,3396	2,2435	2,1671	2,1049	2,0532	2,0095	1,9722	1,8449	1,7708	1,7223	1,6624	1,6269	1,6034	1,5566	1,5010	1,4871	15
16	61,3499	9,4289	5,1964	3,8639	3,2303	2,8626	2,6230	2,4545	2,3295	2,2330	2,1563	2,0938	2,0419	1,9981	1,9605	1,8325	1,7579	1,7090	1,6486	1,6128	1,5890	1,5418	1,4854	1,4714	16
17	61,4644	9,4325	5,1929	3,8582	3,2234	2,8550	2,6148	2,4458	2,3205	2,2237	2,1467	2,0839	2,0318	1,9878	1,9501	1,8214	1,7463	1,6970	1,6362	1,6000	1,5760	1,5283	1,4712	1,4570	17
18	61,5664	9,4358	5,1898	3,8531	3,2172	2,8481	2,6074	2,4380	2,3123	2,2153	2,1380	2,0750	2,0227	1,9785	1,9407	1,8113	1,7358	1,6862	1,6249	1,5884	1,5642	1,5160	1,4583	1,4439	18
19	61,6579	9,4387	5,1870	3,8485	3,2117	2,8419	2,6008	2,4310	2,3050	2,2077	2,1302	2,0670	2,0145	1,9701	1,9321	1,8022	1,7263	1,6763	1,6146	1,5778	1,5534	1,5047	1,4464	1,4318	19
20	61,7403	9,4413	5,1845	3,8443	3,2067	2,8363	2,5947	2,4246	2,2983	2,2007	2,1230	2,0597	2,0070	1,9625	1,9243	1,7938	1,7175	1,6673	1,6052	1,5681	1,5435	1,4943	1,4354	1,4206	20
21	61,8150	9,4437	5,1822	3,8405	3,2021	2,8312	2,5892	2,4188	2,2922	2,1944	2,1165	2,0530	2,0001	1,9555	1,9172	1,7862	1,7095	1,6590	1,5965	1,5592	1,5343	1,4848	1,4252	1,4102	21
22	61,8829	9,4458	5,1801	3,8371	3,1979	2,8266	2,5842	2,4135	2,2867	2,1887	2,1106	2,0469	1,9939	1,9490	1,9106	1,7792	1,7021	1,6514	1,5884	1,5509	1,5259	1,4759	1,4157	1,4006	22
23	61,9450	9,4478	5,1781	3,8339	3,1941	2,8223	2,5796	2,4086	2,2816	2,1833	2,1051	2,0412	1,9881	1,9431	1,9046	1,7727	1,6953	1,6443	1,5810	1,5432	1,5180	1,4677	1,4069	1,3916	23
24	62,0020	9,4496	5,1764	3,8310	3,1905	2,8183	2,5753	2,4041	2,2768	2,1784	2,1000	2,0360	1,9827	1,9377	1,8990	1,7667	1,6890	1,6377	1,5741	1,5361	1,5107	1,4600	1,3986	1,3832	24
25	62,0545	9,4513	5,1747	3,8283	3,1873	2,8147	2,5714	2,3999	2,2725	2,1739	2,0953	2,0312	1,9778	1,9326	1,8939	1,7611	1,6831	1,6316	1,5677	1,5294	1,5039	1,4528	1,3909	1,3753	25
26	62,1030	9,4528	5,1732	3,8258	3,1842	2,8113	2,5677	2,3961	2,2684	2,1697	2,0909	2,0267	1,9732	1,9279	1,8891	1,7559	1,6776	1,6259	1,5617	1,5232	1,4975	1,4460	1,3836	1,3678	26
27	62,1480	9,4542	5,1718	3,8235	3,1814	2,8082	2,5643	2,3925	2,2646	2,1657	2,0869	2,0225	1,9689	1,9235	1,8846	1,7510	1,6725	1,6206	1,5560	1,5173	1,4915	1,4397	1,3767	1,3608	27
28	62,1897	9,4556	5,1705	3,8213	3,1788	2,8053	2,5612	2,3891	2,2611	2,1621	2,0831	2,0186	1,9649	1,9194	1,8804	1,7465	1,6677	1,6156	1,5507	1,5118	1,4859	1,4337	1,3702	1,3541	28
29	62,2286	9,4568	5,1693	3,8193	3,1764	2,8025	2,5582	2,3860	2,2578	2,1586	2,0795	2,0149	1,9611	1,9155	1,8765	1,7422	1,6632	1,6109	1,5458	1,5067	1,4806	1,4280	1,3641	1,3479	29
30	62,2650	9,4579	5,1681	3,8174	3,1741	2,8000	2,5555	2,3830	2,2547	2,1554	2,0762	2,0115	1,9576	1,9119	1,8728	1,7382	1,6589	1,6065	1,5411	1,5018	1,4755	1,4227	1,3582	1,3419	30
35	62,4157	9,4627	5,1633	3,8096	3,1645	2,7893	2,5439	2,3707	2,2418	2,1420	2,0623	1,9971	1,9428	1,8968	1,8573	1,7213	1,6410	1,5877	1,5211	1,4810	1,4541	1,3998	1,3331	1,3160	35
40	62,5291	9,4662	5,1597	3,8036	3,1573	2,7812	2,5351	2,3614	2,2320	2,1317	2,0516	1,9861	1,9315	1,8852	1,8454	1,7083	1,6272	1,5732	1,5056	1,4648	1,4373	1,3817	1,3129	1,2951	40
45	62,6173	9,4690	5,1569	3,7990	3,1517	2,7748	2,5282	2,3540	2,2242	2,1236	2,0432	1,9774	1,9225	1,8760	1,8360	1,6980	1,6161	1,5616	1,4932	1,4517	1,4238	1,3670	1,2963	1,2779	45
50	62,6881	9,4712	5,1546	3,7952	3,1471	2,7697	2,5226	2,3481	2,2180	2,1171	2,0364	1,9704	1,9153	1,8686	1,8284	1,6896	1,6072	1,5522	1,4830	1,4409	1,4126	1,3548	1,2823	1,2634	50
60	62,7943	9,4746	5,1512	3,7896	3,1402	2,7620	2,5142	2,3391	2,2085	2,1072	2,0261	1,9597	1,9043	1,8572	1,8168	1,6768	1,5934	1,5376	1,4672	1,4242	1,3952	1,3356	1,2600	1,2400	60
70	62,8703	9,4769	5,1487	3,7855	3,1353	2,7564	2,5082	2,3326	2,2017	2,1000	2,0187	1,9520	1,8963	1,8490	1,8083	1,6674	1,5833	1,5269	1,4555	1,4119	1,3822	1,3212	1,2428	1,2218	70
80	62,9273	9,4787	5,1469	3,7825	3,1316	2,7522	2,5036	2,3277	2,1965																

Distribución Fisher-Snedecor acumulada

Valores x tales que $P(X \leq x) = p$

p=0,95

$F_{n,m}$

n=nº de grados de libertad del numerador

Valores con redondeo en el 5º decimal

m=nº de grados de libertad del denominador

n \ m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	20	25	30	40	50	60	100	500	∞	m / n
1	161,4476	18,5128	10,1280	7,7086	6,6079	5,9874	5,5914	5,3177	5,1174	4,9646	4,8443	4,7472	4,6672	4,6001	4,5431	4,3512	4,2417	4,1709	4,0847	4,0343	4,0012	3,9361	3,8601	3,8415	1
2	199,5000	19,0000	9,5521	6,9443	5,7861	5,1433	4,7374	4,4590	4,2565	4,1028	3,9823	3,8853	3,8056	3,7389	3,6823	3,4928	3,3852	3,3158	3,2317	3,1826	3,1504	3,0873	3,0138	2,9957	2
3	215,7073	19,1643	9,2766	6,5914	5,4095	4,7571	4,3468	4,0662	3,8625	3,7083	3,5874	3,4903	3,4105	3,3439	3,2874	3,0984	2,9912	2,9223	2,8387	2,7900	2,7581	2,6955	2,6227	2,6049	3
4	224,5832	19,2468	9,1172	6,3882	5,1922	4,5337	4,1203	3,8379	3,6331	3,4780	3,3567	3,2592	3,1791	3,1122	3,0556	2,8661	2,7587	2,6896	2,6060	2,5572	2,5252	2,4626	2,3898	2,3719	4
5	230,1619	19,2964	9,0135	6,2561	5,0503	4,3874	3,9715	3,6875	3,4817	3,3258	3,2039	3,1059	3,0254	2,9582	2,9013	2,7109	2,6030	2,5336	2,4495	2,4004	2,3683	2,3053	2,2320	2,2141	5
6	233,9860	19,3295	8,9406	6,1631	4,9503	4,2839	3,8660	3,5806	3,3738	3,2172	3,0946	2,9961	2,9153	2,8477	2,7905	2,5990	2,4904	2,4205	2,3359	2,2864	2,2541	2,1906	2,1167	2,0986	6
7	236,7684	19,3532	8,8867	6,0942	4,8759	4,2067	3,7870	3,5005	3,2927	3,1355	3,0123	2,9134	2,8321	2,7642	2,7066	2,5140	2,4047	2,3343	2,2490	2,1992	2,1665	2,1025	2,0279	2,0096	7
8	238,8827	19,3710	8,8452	6,0410	4,8183	4,1468	3,7257	3,4381	3,2296	3,0717	2,9480	2,8486	2,7669	2,6987	2,6408	2,4471	2,3371	2,2662	2,1802	2,1299	2,0970	2,0323	1,9569	1,9384	8
9	240,5433	19,3848	8,8123	5,9988	4,7725	4,0990	3,6767	3,3881	3,1789	3,0204	2,8962	2,7964	2,7144	2,6458	2,5876	2,3928	2,2821	2,2107	2,1240	2,0734	2,0401	1,9748	1,8986	1,8799	9
10	241,8817	19,3959	8,7855	5,9644	4,7351	4,0600	3,6365	3,3472	3,1373	2,9782	2,8536	2,7534	2,6710	2,6022	2,5437	2,3479	2,2365	2,1646	2,0772	2,0261	1,9926	1,9267	1,8496	1,8307	10
11	242,9835	19,4050	8,7633	5,9358	4,7040	4,0274	3,6030	3,3130	3,1025	2,9430	2,8179	2,7173	2,6347	2,5655	2,5068	2,3100	2,1979	2,1256	2,0376	1,9861	1,9522	1,8857	1,8078	1,7887	11
12	243,9060	19,4125	8,7446	5,9117	4,6777	3,9999	3,5747	3,2839	3,0729	2,9130	2,7876	2,6866	2,6037	2,5342	2,4753	2,2776	2,1649	2,0921	2,0035	1,9515	1,9174	1,8503	1,7715	1,7522	12
13	244,6898	19,4189	8,7287	5,8911	4,6552	3,9764	3,5503	3,2590	3,0475	2,8872	2,7614	2,6602	2,5769	2,5073	2,4481	2,2495	2,1362	2,0630	1,9738	1,9214	1,8870	1,8193	1,7398	1,7202	13
14	245,3640	19,4244	8,7149	5,8733	4,6358	3,9559	3,5292	3,2374	3,0255	2,8647	2,7386	2,6371	2,5536	2,4837	2,4244	2,2250	2,1111	2,0374	1,9476	1,8949	1,8602	1,7919	1,7116	1,6918	14
15	245,9499	19,4291	8,7029	5,8578	4,6188	3,9381	3,5107	3,2184	3,0061	2,8450	2,7186	2,6169	2,5331	2,4630	2,4034	2,2033	2,0889	2,0148	1,9245	1,8714	1,8364	1,7675	1,6864	1,6664	15
16	246,4639	19,4333	8,6923	5,8441	4,6038	3,9223	3,4944	3,2016	2,9890	2,8276	2,7009	2,5989	2,5149	2,4446	2,3849	2,1840	2,0691	1,9946	1,9037	1,8503	1,8151	1,7456	1,6638	1,6435	16
17	246,9184	19,4370	8,6829	5,8320	4,5904	3,9083	3,4799	3,1867	2,9737	2,8120	2,6851	2,5828	2,4987	2,4282	2,3683	2,1667	2,0513	1,9765	1,8851	1,8313	1,7959	1,7259	1,6432	1,6228	17
18	247,3232	19,4402	8,6745	5,8211	4,5785	3,8957	3,4669	3,1733	2,9600	2,7980	2,6709	2,5684	2,4841	2,4134	2,3533	2,1511	2,0353	1,9601	1,8682	1,8141	1,7784	1,7079	1,6245	1,6039	18
19	247,6861	19,4431	8,6670	5,8114	4,5678	3,8844	3,4551	3,1613	2,9477	2,7854	2,6581	2,5554	2,4709	2,4000	2,3398	2,1370	2,0207	1,9452	1,8529	1,7985	1,7625	1,6915	1,6074	1,5865	19
20	248,0131	19,4458	8,6602	5,8025	4,5581	3,8742	3,4445	3,1503	2,9365	2,7740	2,6464	2,5436	2,4589	2,3879	2,3275	2,1242	2,0075	1,9317	1,8389	1,7841	1,7480	1,6764	1,5916	1,5705	20
21	248,3094	19,4481	8,6540	5,7945	4,5493	3,8649	3,4349	3,1404	2,9263	2,7636	2,6358	2,5328	2,4479	2,3768	2,3163	2,1124	1,9953	1,9192	1,8260	1,7709	1,7346	1,6626	1,5770	1,5558	21
22	248,5791	19,4503	8,6484	5,7872	4,5413	3,8564	3,4260	3,1313	2,9169	2,7541	2,6261	2,5229	2,4379	2,3667	2,3060	2,1016	1,9842	1,9077	1,8141	1,7588	1,7222	1,6497	1,5635	1,5420	22
23	248,8256	19,4523	8,6432	5,7805	4,5339	3,8486	3,4179	3,1229	2,9084	2,7453	2,6172	2,5139	2,4287	2,3573	2,2966	2,0917	1,9738	1,8972	1,8031	1,7475	1,7108	1,6378	1,5509	1,5292	23
24	249,0518	19,4541	8,6385	5,7744	4,5272	3,8415	3,4105	3,1152	2,9005	2,7372	2,6090	2,5055	2,4202	2,3487	2,2878	2,0825	1,9643	1,8874	1,7929	1,7371	1,7001	1,6267	1,5392	1,5173	24
25	249,2601	19,4558	8,6341	5,7687	4,5209	3,8348	3,4036	3,1081	2,8932	2,7298	2,6014	2,4977	2,4123	2,3407	2,2797	2,0739	1,9554	1,8782	1,7835	1,7273	1,6902	1,6163	1,5282	1,5061	25
26	249,4525	19,4573	8,6301	5,7635	4,5151	3,8287	3,3972	3,1015	2,8864	2,7229	2,5943	2,4905	2,4050	2,3333	2,2722	2,0660	1,9472	1,8698	1,7746	1,7183	1,6809	1,6067	1,5178	1,4956	26
27	249,6309	19,4587	8,6263	5,7586	4,5097	3,8230	3,3913	3,0954	2,8801	2,7164	2,5877	2,4838	2,3982	2,3264	2,2652	2,0586	1,9395	1,8618	1,7663	1,7097	1,6722	1,5976	1,5081	1,4857	27
28	249,7966	19,4600	8,6229	5,7541	4,5047	3,8177	3,3858	3,0897	2,8743	2,7104	2,5816	2,4776	2,3918	2,3199	2,2587	2,0517	1,9323	1,8544	1,7586	1,7017	1,6641	1,5890	1,4989	1,4763	28
29	249,9510	19,4613	8,6196	5,7498	4,5001	3,8128	3,3806	3,0844	2,8688	2,7048	2,5759	2,4718	2,3859	2,3139	2,2525	2,0452	1,9255	1,8474	1,7513	1,6942	1,6564	1,5809	1,4903	1,4675	29
30	250,0951	19,4624	8,6166	5,7459	4,4957	3,8082	3,3758	3,0794	2,8637	2,6996	2,5705	2,4663	2,3803	2,3082	2,2468	2,0391	1,9192	1,8409	1,7444	1,6872	1,6491	1,5733	1,4821	1,4591	30
35	250,6934	19,4672	8,6039	5,7294	4,4775	3,7889	3,3557	3,0586	2,8422	2,6776	2,5480	2,4433	2,3570	2,2845	2,2227	2,0135	1,8924	1,8132	1,7154	1,6571	1,6183	1,5407	1,4467	1,4229	35
40	251,1432	19,4707	8,5944	5,7170	4,4638	3,7743	3,3404	3,0428	2,8259	2,6609	2,5309	2,4259	2,3392	2,2664	2,2043	1,9938	1,8718	1,7918	1,6928	1,6337	1,5943	1,5151	1,4186	1,3940	40
45	251,4935	19,4735	8,5870	5,7073	4,4530	3,7629	3,3285	3,0304	2,8131	2,6477	2,5174	2,4121	2,3252	2,2521	2,1897	1,9783	1,8554	1,7748	1,6748	1,6149	1,5749	1,4944	1,3955	1,3702	45
50	251,7742	19,4757	8,5810	5,6995	4,4444	3,7537	3,3189	3,0204	2,8028	2,6371	2,5066	2,4010	2,3138	2,2405	2,1780	1,9656	1,8421	1,7609	1,6600	1,5995	1,5590	1,4772	1,3762	1,3501	50
60	252,1957	19,4791	8,5720	5,6877	4,4314	3,7398	3,3043	3,0053	2,7872	2,6211	2,4901	2,3842	2,2966	2,2229	2,1601	1,9464	1,8217	1,7396	1,6373	1,5757	1,5343	1,4504	1,3455	1,3180	60
70	252,4973	19,4814	8,5656	5,6793	4,4220	3,7298	3,2939	2,9944	2,7760																

Distribución Fisher-Snedecor acumulada

Valores x tales que $P(X \leq x) = p$ **p=0,975**

n=nº de grados de libertad del numerador

Valores con redondeo en el 5º decimal

m=nº de grados de libertad del denominador

n \ m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	20	25	30	40	50	60	100	500	∞	m / n
1	647,7890	38,5063	17,4434	12,2179	10,0070	8,8131	8,0727	7,5709	7,2093	6,9367	6,7241	6,5538	6,4143	6,2979	6,1995	5,8715	5,6864	5,5675	5,4239	5,3403	5,2856	5,1786	5,0543	5,0239	1
2	799,5000	39,0000	16,0441	10,6491	8,4336	7,2599	6,5415	6,0595	5,7147	5,4564	5,2559	5,0959	4,9653	4,8567	4,7650	4,4613	4,2909	4,1821	4,0510	3,9749	3,9253	3,8284	3,7162	3,6889	2
3	864,1630	39,1655	15,4392	9,9792	7,7636	6,5988	5,8898	5,4160	5,0781	4,8256	4,6300	4,4742	4,3472	4,2417	4,1528	3,8587	3,6943	3,5894	3,4633	3,3902	3,3425	3,2496	3,1423	3,1161	3
4	899,5833	39,2484	15,1010	9,6045	7,3879	6,2272	5,5226	5,0526	4,7181	4,4683	4,2751	4,1212	3,9959	3,8919	3,8043	3,5147	3,3530	3,2499	3,1261	3,0544	3,0077	2,9166	2,8114	2,7858	4
5	921,8479	39,2982	14,8848	9,3645	7,1464	5,9876	5,2852	4,8173	4,4844	4,2361	4,0440	3,8911	3,7667	3,6634	3,5764	3,2891	3,1287	3,0265	2,9037	2,8327	2,7863	2,6961	2,5919	2,5665	5
6	937,1111	39,3315	14,7347	9,1973	6,9777	5,8198	5,1186	4,6517	4,3197	4,0721	3,8807	3,7283	3,6043	3,5014	3,4147	3,1283	2,9685	2,8667	2,7444	2,6736	2,6274	2,5374	2,4335	2,4082	6
7	948,2169	39,3552	14,6244	9,0741	6,8531	5,6955	4,9949	4,5286	4,1970	3,9498	3,7586	3,6065	3,4827	3,3799	3,2934	3,0074	2,8478	2,7460	2,6238	2,5530	2,5068	2,4168	2,3129	2,2876	7
8	956,6562	39,3730	14,5399	8,9796	6,7572	5,5996	4,8993	4,4333	4,1020	3,8549	3,6638	3,5118	3,3880	3,2853	3,1987	2,9128	2,7531	2,6513	2,5289	2,4579	2,4117	2,3215	2,2172	2,1918	8
9	963,2846	39,3869	14,4731	8,9047	6,6811	5,5234	4,8232	4,3572	4,0260	3,7790	3,5879	3,4358	3,3120	3,2093	3,1227	2,8365	2,6766	2,5746	2,4519	2,3808	2,3344	2,2439	2,1392	2,1137	9
10	968,6274	39,3980	14,4189	8,8439	6,6192	5,4613	4,7611	4,2951	3,9639	3,7168	3,5257	3,3736	3,2497	3,1469	3,0602	2,7737	2,6135	2,5112	2,3882	2,3168	2,2702	2,1793	2,0740	2,0483	10
11	973,0252	39,4071	14,3742	8,7935	6,5678	5,4098	4,7095	4,2434	3,9121	3,6649	3,4737	3,3215	3,1975	3,0946	3,0078	2,7209	2,5603	2,4577	2,3343	2,2627	2,2159	2,1245	2,0186	1,9927	11
12	976,7079	39,4146	14,3366	8,7512	6,5245	5,3662	4,6658	4,1997	3,8682	3,6209	3,4296	3,2773	3,1532	3,0502	2,9633	2,6758	2,5149	2,4120	2,2882	2,2162	2,1692	2,0773	1,9708	1,9447	12
13	979,8368	39,4210	14,3045	8,7150	6,4876	5,3290	4,6285	4,1622	3,8306	3,5832	3,3917	3,2393	3,1150	3,0119	2,9249	2,6369	2,4756	2,3724	2,2481	2,1758	2,1286	2,0363	1,9290	1,9028	13
14	982,5278	39,4265	14,2768	8,6838	6,4556	5,2968	4,5961	4,1297	3,7980	3,5504	3,3588	3,2062	3,0819	2,9786	2,8915	2,6030	2,4413	2,3378	2,2130	2,1404	2,0929	2,0001	1,8921	1,8657	14
15	984,8668	39,4313	14,2527	8,6565	6,4277	5,2687	4,5678	4,1012	3,7694	3,5217	3,3299	3,1772	3,0527	2,9493	2,8621	2,5731	2,4110	2,3072	2,1819	2,1090	2,0613	1,9679	1,8592	1,8326	15
16	986,9187	39,4354	14,2315	8,6326	6,4032	5,2439	4,5428	4,0761	3,7441	3,4963	3,3044	3,1515	3,0269	2,9234	2,8360	2,5465	2,3840	2,2799	2,1542	2,0810	2,0330	1,9391	1,8297	1,8028	16
17	988,7331	39,4391	14,2127	8,6113	6,3814	5,2218	4,5206	4,0538	3,7216	3,4737	3,2816	3,1286	3,0039	2,9003	2,8128	2,5228	2,3599	2,2554	2,1293	2,0558	2,0076	1,9132	1,8030	1,7760	17
18	990,3490	39,4424	14,1960	8,5924	6,3619	5,2021	4,5008	4,0338	3,7015	3,4534	3,2612	3,1081	2,9832	2,8795	2,7919	2,5014	2,3381	2,2334	2,1068	2,0330	1,9846	1,8897	1,7787	1,7515	18
19	991,7973	39,4453	14,1810	8,5753	6,3444	5,1844	4,4829	4,0158	3,6833	3,4351	3,2428	3,0896	2,9646	2,8607	2,7730	2,4821	2,3184	2,2134	2,0864	2,0122	1,9636	1,8682	1,7566	1,7291	19
20	993,1028	39,4479	14,1674	8,5599	6,3286	5,1684	4,4667	3,9995	3,6669	3,4185	3,2261	3,0728	2,9477	2,8437	2,7559	2,4645	2,3005	2,1952	2,0677	1,9933	1,9445	1,8486	1,7362	1,7085	20
21	994,2856	39,4503	14,1551	8,5460	6,3142	5,1538	4,4520	3,9846	3,6520	3,4035	3,2109	3,0575	2,9322	2,8282	2,7403	2,4484	2,2840	2,1785	2,0506	1,9759	1,9269	1,8305	1,7174	1,6895	21
22	995,3622	39,4525	14,1438	8,5332	6,3011	5,1406	4,4386	3,9711	3,6383	3,3897	3,1970	3,0434	2,9181	2,8139	2,7260	2,4337	2,2690	2,1631	2,0349	1,9599	1,9106	1,8138	1,7000	1,6719	22
23	996,3462	39,4544	14,1336	8,5216	6,2891	5,1284	4,4263	3,9587	3,6257	3,3770	3,1843	3,0306	2,9052	2,8009	2,7128	2,4201	2,2551	2,1490	2,0203	1,9451	1,8956	1,7983	1,6838	1,6555	23
24	997,2492	39,4562	14,1241	8,5109	6,2780	5,1172	4,4150	3,9472	3,6142	3,3654	3,1725	3,0187	2,8932	2,7888	2,7006	2,4076	2,2422	2,1359	2,0069	1,9313	1,8817	1,7839	1,6687	1,6402	24
25	998,0808	39,4579	14,1155	8,5010	6,2679	5,1069	4,4045	3,9367	3,6035	3,3546	3,1616	3,0077	2,8821	2,7777	2,6894	2,3959	2,2303	2,1237	1,9943	1,9186	1,8687	1,7705	1,6546	1,6259	25
26	998,8490	39,4594	14,1074	8,4919	6,2584	5,0973	4,3949	3,9269	3,5936	3,3446	3,1516	2,9976	2,8719	2,7673	2,6790	2,3851	2,2192	2,1124	1,9827	1,9066	1,8566	1,7579	1,6414	1,6124	26
27	999,5609	39,4609	14,1000	8,4834	6,2497	5,0884	4,3859	3,9178	3,5845	3,3353	3,1422	2,9881	2,8623	2,7577	2,6692	2,3751	2,2089	2,1018	1,9718	1,8955	1,8453	1,7461	1,6289	1,5998	27
28	1000,2225	39,4622	14,0930	8,4755	6,2416	5,0802	4,3775	3,9093	3,5759	3,3267	3,1334	2,9793	2,8534	2,7487	2,6602	2,3657	2,1992	2,0919	1,9615	1,8850	1,8346	1,7351	1,6172	1,5879	28
29	1000,8388	39,4634	14,0866	8,4681	6,2340	5,0724	4,3697	3,9014	3,5679	3,3186	3,1253	2,9710	2,8451	2,7403	2,6517	2,3569	2,1901	2,0827	1,9519	1,8752	1,8246	1,7247	1,6062	1,5766	29
30	1001,4144	39,4646	14,0805	8,4613	6,2269	5,0652	4,3624	3,8940	3,5604	3,3110	3,1176	2,9633	2,8372	2,7324	2,6437	2,3486	2,1816	2,0739	1,9429	1,8659	1,8152	1,7148	1,5957	1,5660	30
35	1003,8028	39,4693	14,0554	8,4327	6,1973	5,0352	4,3319	3,8632	3,5292	3,2794	3,0856	2,9309	2,8046	2,6994	2,6104	2,3139	2,1458	2,0372	1,9047	1,8267	1,7752	1,6729	1,5508	1,5201	35
40	1005,5981	39,4729	14,0365	8,4111	6,1750	5,0125	4,3089	3,8398	3,5055	3,2554	3,0613	2,9063	2,7797	2,6742	2,5850	2,2873	2,1183	2,0089	1,8752	1,7963	1,7440	1,6401	1,5151	1,4836	40
45	1006,9967	39,4757	14,0217	8,3943	6,1576	4,9947	4,2908	3,8215	3,4869	3,2366	3,0422	2,8870	2,7601	2,6544	2,5650	2,2663	2,0964	1,9864	1,8516	1,7719	1,7191	1,6136	1,4860	1,4536	45
50	1008,1171	39,4779	14,0099	8,3808	6,1436	4,9804	4,2763	3,8067	3,4719	3,2214	3,0268	2,8714	2,7443	2,6384	2,5488	2,2493	2,0787	1,9681	1,8324	1,7520	1,6985	1,5917	1,4616	1,4284	50
60	1009,8001	39,4812	13,9921	8,3604	6,1225	4,9589	4,2544	3,7844	3,4493	3,1984	3,0035	2,8478	2,7204	2,6142	2,5242	2,2234	2,0516	1,9400	1,8028	1,7211	1,6668	1,5575	1,4231	1,3883	60
70	1011,0040	39,4836	13,9793	8,3458	6,1074	4,9434	4,2386	3,7684	3,4																

Distribución Fisher-Snedecor acumulada

Valores x tales que $P(X \leq x) = p$ **p=0,99**

$$F_{n,m}$$

n=nº de grados de libertad del numerador

Valores con redondeo en el 5º decimal

m=nº de grados de libertad del denominador

n \ m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	20	25	30	40	50	60	100	500	∞	m / n
1	4052,1807	98,5025	34,1162	21,1977	16,2582	13,7450	12,2464	11,2586	10,5614	10,0443	9,6460	9,3302	9,0738	8,8616	8,6831	8,0960	7,7698	7,5625	7,3141	7,1706	7,0771	6,8953	6,6858	6,6349	1
2	4999,5000	99,0000	30,8165	18,0000	13,2739	10,9248	9,5466	8,6491	8,0215	7,5594	7,2057	6,9266	6,7010	6,5149	6,3589	5,8489	5,5680	5,3903	5,1785	5,0566	4,9774	4,8239	4,6478	4,6052	2
3	5403,3520	99,1662	29,4567	16,6944	12,0600	9,7795	8,4513	7,5910	6,9919	6,5523	6,2167	5,9525	5,7394	5,5639	5,4170	4,9382	4,6755	4,5097	4,3126	4,1993	4,1259	3,9837	3,8210	3,7816	3
4	5624,5833	99,2494	28,7099	15,9770	11,3919	9,1483	7,8466	7,0061	6,4221	5,9943	5,6683	5,4120	5,2053	5,0354	4,8932	4,4307	4,1774	4,0179	3,8283	3,7195	3,6490	3,5127	3,3569	3,3192	4
5	5763,6496	99,2993	28,2371	15,5219	10,9670	8,7459	7,4604	6,6318	6,0569	5,6363	5,3160	5,0643	4,8616	4,6950	4,5556	4,1027	3,8550	3,6990	3,5138	3,4077	3,3389	3,2059	3,0540	3,0173	5
6	5858,9861	99,3326	27,9107	15,2069	10,6723	8,4661	7,1914	6,3707	5,8018	5,3858	5,0692	4,8206	4,6204	4,4558	4,3183	3,8714	3,6272	3,4735	3,2910	3,1864	3,1187	2,9877	2,8381	2,8020	6
7	5928,3557	99,3564	27,6717	14,9758	10,4555	8,2600	6,9928	6,1776	5,6129	5,2001	4,8861	4,6395	4,4410	4,2779	4,1415	3,6987	3,4568	3,3045	3,1238	3,0202	2,9530	2,8233	2,6751	2,6393	7
8	5981,0703	99,3742	27,4892	14,7989	10,2893	8,1017	6,8400	6,0289	5,4671	5,0567	4,7445	4,4994	4,3021	4,1399	4,0045	3,5644	3,3239	3,1726	2,9930	2,8900	2,8233	2,6943	2,5469	2,5113	8
9	6022,4732	99,3881	27,3452	14,6591	10,1578	7,9761	6,7188	5,9106	5,3511	4,9424	4,6315	4,3875	4,1911	4,0297	3,8948	3,4567	3,2172	3,0665	2,8876	2,7850	2,7185	2,5898	2,4429	2,4074	9
10	6055,8467	99,3992	27,2287	14,5459	10,0510	7,8741	6,6201	5,8143	5,2565	4,8491	4,5393	4,2961	4,1003	3,9394	3,8049	3,3682	3,1294	2,9791	2,8005	2,6981	2,6318	2,5033	2,3565	2,3209	10
11	6083,3168	99,4083	27,1326	14,4523	9,9626	7,7896	6,5382	5,7343	5,1779	4,7715	4,4624	4,2198	4,0245	3,8640	3,7299	3,2941	3,0558	2,9057	2,7274	2,6250	2,5587	2,4302	2,2833	2,2477	11
12	6106,3207	99,4159	27,0518	14,3736	9,8883	7,7183	6,4691	5,6667	5,1114	4,7059	4,3974	4,1553	3,9603	3,8001	3,6662	3,2311	2,9931	2,8431	2,6648	2,5625	2,4961	2,3676	2,2204	2,1848	12
13	6125,8647	99,4223	26,9831	14,3065	9,8248	7,6575	6,4100	5,6089	5,0545	4,6496	4,3416	4,0999	3,9052	3,7452	3,6115	3,1769	2,9389	2,7890	2,6107	2,5083	2,4419	2,3132	2,1656	2,1299	13
14	6142,6740	99,4278	26,9238	14,2486	9,7700	7,6049	6,3590	5,5589	5,0052	4,6008	4,2932	4,0518	3,8573	3,6975	3,5639	3,1296	2,8917	2,7418	2,5634	2,4609	2,3943	2,2654	2,1174	2,0815	14
15	6157,2846	99,4325	26,8722	14,1982	9,7222	7,5590	6,3143	5,5151	4,9621	4,5581	4,2509	4,0096	3,8154	3,6557	3,5222	3,0880	2,8502	2,7002	2,5216	2,4190	2,3523	2,2230	2,0746	2,0385	15
16	6170,1012	99,4367	26,8269	14,1539	9,6802	7,5186	6,2750	5,4766	4,9240	4,5204	4,2134	3,9724	3,7783	3,6187	3,4852	3,0512	2,8133	2,6632	2,4844	2,3816	2,3148	2,1852	2,0362	2,0000	16
17	6181,4348	99,4404	26,7867	14,1146	9,6429	7,4827	6,2401	5,4423	4,8902	4,4869	4,1801	3,9392	3,7452	3,5857	3,4523	3,0183	2,7803	2,6301	2,4511	2,3481	2,2811	2,1511	2,0016	1,9652	17
18	6191,5287	99,4436	26,7509	14,0795	9,6096	7,4507	6,2089	5,4116	4,8599	4,4569	4,1503	3,9095	3,7156	3,5561	3,4228	2,9887	2,7506	2,6003	2,4210	2,3178	2,2507	2,1203	1,9702	1,9336	18
19	6200,5756	99,4465	26,7188	14,0480	9,5797	7,4219	6,1808	5,3840	4,8327	4,4299	4,1234	3,8827	3,6888	3,5294	3,3961	2,9620	2,7238	2,5732	2,3937	2,2903	2,2230	2,0923	1,9415	1,9048	19
20	6208,7302	99,4492	26,6898	14,0196	9,5526	7,3958	6,1554	5,3591	4,8080	4,4054	4,0990	3,8584	3,6646	3,5052	3,3719	2,9377	2,6993	2,5487	2,3689	2,2652	2,1978	2,0666	1,9152	1,8783	20
21	6216,1184	99,4516	26,6635	13,9938	9,5281	7,3722	6,1324	5,3364	4,7856	4,3831	4,0769	3,8363	3,6425	3,4832	3,3498	2,9156	2,6770	2,5262	2,3461	2,2423	2,1747	2,0431	1,8910	1,8539	21
22	6222,8433	99,4537	26,6396	13,9703	9,5058	7,3506	6,1113	5,3157	4,7651	4,3628	4,0566	3,8161	3,6224	3,4630	3,3297	2,8953	2,6565	2,5055	2,3252	2,2211	2,1533	2,0214	1,8686	1,8314	22
23	6228,9903	99,4557	26,6176	13,9488	9,4853	7,3309	6,0921	5,2967	4,7463	4,3441	4,0380	3,7976	3,6038	3,4445	3,3111	2,8766	2,6377	2,4865	2,3059	2,2016	2,1336	2,0012	1,8479	1,8104	23
24	6234,6309	99,4575	26,5975	13,9291	9,4665	7,3127	6,0743	5,2793	4,7290	4,3269	4,0209	3,7805	3,5868	3,4274	3,2940	2,8594	2,6203	2,4689	2,2880	2,1835	2,1154	1,9826	1,8285	1,7908	24
25	6239,8251	99,4592	26,5790	13,9109	9,4491	7,2960	6,0580	5,2631	4,7130	4,3111	4,0051	3,7647	3,5710	3,4116	3,2782	2,8434	2,6041	2,4526	2,2714	2,1667	2,0984	1,9652	1,8105	1,7726	25
26	6244,6239	99,4607	26,5618	13,8940	9,4331	7,2805	6,0428	5,2482	4,6982	4,2963	3,9904	3,7500	3,5563	3,3969	3,2635	2,8286	2,5891	2,4374	2,2559	2,1510	2,0825	1,9489	1,7936	1,7555	26
27	6249,0708	99,4621	26,5460	13,8784	9,4182	7,2661	6,0287	5,2344	4,6845	4,2827	3,9768	3,7364	3,5427	3,3833	3,2499	2,8148	2,5751	2,4233	2,2415	2,1363	2,0677	1,9337	1,7777	1,7394	27
28	6253,2031	99,4635	26,5312	13,8639	9,4043	7,2527	6,0157	5,2214	4,6717	4,2700	3,9641	3,7237	3,5300	3,3706	3,2372	2,8019	2,5620	2,4100	2,2280	2,1226	2,0538	1,9194	1,7627	1,7242	28
29	6257,0530	99,4647	26,5174	13,8503	9,3914	7,2402	6,0034	5,2094	4,6598	4,2581	3,9522	3,7119	3,5182	3,3587	3,2253	2,7898	2,5498	2,3976	2,2153	2,1097	2,0408	1,9059	1,7486	1,7099	29
30	6260,6486	99,4658	26,5045	13,8377	9,3793	7,2285	5,9920	5,1981	4,6486	4,2469	3,9411	3,7008	3,5070	3,3476	3,2141	2,7785	2,5383	2,3860	2,2034	2,0976	2,0285	1,8933	1,7353	1,6964	30
35	6275,5679	99,4706	26,4511	13,7850	9,3291	7,1799	5,9444	5,1512	4,6020	4,2005	3,8948	3,6544	3,4606	3,3010	3,1674	2,7310	2,4900	2,3369	2,1531	2,0463	1,9764	1,8393	1,6783	1,6384	35
40	6286,7821	99,4742	26,4108	13,7454	9,2912	7,1432	5,9084	5,1156	4,5666	4,1653	3,8596	3,6192	3,4253	3,2656	3,1319	2,6947	2,4530	2,2992	2,1142	2,0066	1,9360	1,7972	1,6332	1,5923	40
45	6295,5187	99,4769	26,3794	13,7144	9,2616	7,1145	5,8803	5,0878	4,5390	4,1377	3,8320	3,5915	3,3976	3,2378	3,1039	2,6661	2,4237	2,2693	2,0833	1,9749	1,9037	1,7633	1,5964	1,5546	45
50	6302,5172	99,4792	26,3542	13,6896	9,2378	7,0915	5,8577	5,0654	4,5167	4,1155	3,8097	3,5692	3,3752	3,2153	3,0814	2,6430	2,3999	2,2450	2,0581	1,9490	1,8772	1,7353	1,5658	1,5231	50
60	6313,0301	99,4825	26,3164	13,6522	9,2020	7,0567	5,8236	5,0316	4,4831	4,0819	3,7761	3,5355	3,3413	3,1813	3,0471	2,6077	2,3637	2,2094	2,0194	1,9090	1,8363	1,6918	1,5174	1,4730	60
70	6320,5503	99,4849	26,2892	13,625																					

Distribución Fisher-Snedecor acumulada

Valores x tales que $P(X \leq x) = p$ **p=0,995**

n=n° de grados de libertad del numerador

Valores con redondeo en el 5° decimal

m=m° de grados de libertad del denominador

n \ m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	20	25	30	40	50	60	100	500	∞	m / n
1	16210,7227	198,5013	55,5520	31,3328	22,7848	18,6350	16,2356	14,6882	13,6136	12,8265	12,2263	11,7542	11,3735	11,0603	10,7980	9,9439	9,4753	9,1797	8,8279	8,6258	8,4946	8,2406	7,9498	7,8795	1
2	19999,5000	199,0000	49,7993	26,2843	18,3138	14,5441	12,4040	11,0424	10,1067	9,4270	8,9122	8,5096	8,1865	7,9216	7,7008	6,9865	6,5982	6,3547	6,0664	5,9016	5,7950	5,5892	5,3549	5,2983	2
3	21614,7414	199,1664	47,4672	24,2591	16,5298	12,9166	10,8824	9,5965	8,7171	8,0807	7,6004	7,2258	6,9258	6,6804	6,4760	5,8177	5,4615	5,2388	4,9758	4,8259	4,7290	4,5424	4,3304	4,2794	3
4	22499,5833	199,2497	46,1946	23,1545	15,5561	12,0275	10,0505	8,8051	7,9559	7,3428	6,8809	6,5211	6,2335	5,9984	5,8029	5,1743	4,8351	4,6234	4,3738	4,2316	4,1399	3,9634	3,7632	3,7151	4
5	23055,7982	199,2996	45,3916	22,4564	14,9396	11,4637	9,5221	8,3018	7,4712	6,8724	6,4217	6,0711	5,7910	5,5623	5,3721	4,7616	4,4327	4,2276	3,9860	3,8486	3,7599	3,5895	3,3963	3,3499	5
6	23437,1111	199,3330	44,8385	21,9746	14,5133	11,0730	9,1553	7,9520	7,1339	6,5446	6,1016	5,7570	5,4819	5,2574	5,0708	4,4721	4,1500	3,9492	3,7129	3,5785	3,4918	3,3252	3,1366	3,0913	6
7	23714,5658	199,3568	44,4341	21,6217	14,2004	10,7859	8,8854	7,6941	6,8849	6,3025	5,8648	5,5245	5,2529	5,0313	4,8473	4,2569	3,9394	3,7416	3,5088	3,3765	3,2911	3,1271	2,9414	2,8968	7
8	23925,4062	199,3746	44,1256	21,3520	13,9610	10,5658	8,6781	7,4959	6,6933	6,1159	5,6821	5,3451	5,0761	4,8566	4,6744	4,0900	3,7758	3,5801	3,3498	3,2189	3,1344	2,9722	2,7885	2,7444	8
9	24091,0041	199,3885	43,8824	21,1391	13,7716	10,3915	8,5138	7,3386	6,5411	5,9676	5,5368	5,2021	4,9351	4,7173	4,5364	3,9564	3,6447	3,4505	3,2220	3,0920	3,0083	2,8472	2,6649	2,6211	9
10	24224,4868	199,3996	43,6858	20,9667	13,6182	10,2500	8,3803	7,2106	6,4172	5,8467	5,4183	5,0855	4,8199	4,6034	4,4235	3,8470	3,5370	3,3440	3,1167	2,9875	2,9042	2,7440	2,5625	2,5188	10
11	24334,3581	199,4087	43,5236	20,8243	13,4912	10,1329	8,2697	7,1045	6,3142	5,7462	5,3197	4,9884	4,7240	4,5085	4,3295	3,7555	3,4470	3,2547	3,0284	2,8997	2,8166	2,6570	2,4760	2,4325	11
12	24426,3662	199,4163	43,3874	20,7047	13,3845	10,0343	8,1764	7,0149	6,2274	5,6613	5,2363	4,9062	4,6429	4,4281	4,2497	3,6779	3,3704	3,1787	2,9531	2,8247	2,7419	2,5825	2,4018	2,3583	12
13	24504,5356	199,4227	43,2715	20,6027	13,2934	9,9501	8,0967	6,9384	6,1530	5,5887	5,1649	4,8358	4,5733	4,3591	4,1813	3,6111	3,3044	3,1132	2,8880	2,7599	2,6771	2,5180	2,3373	2,2938	13
14	24571,7673	199,4282	43,1716	20,5148	13,2148	9,8774	8,0279	6,8721	6,0887	5,5257	5,1031	4,7748	4,5129	4,2993	4,1219	3,5530	3,2469	3,0560	2,8312	2,7032	2,6205	2,4614	2,2806	2,2371	14
15	24630,2051	199,4329	43,0847	20,4383	13,1463	9,8140	7,9678	6,8143	6,0325	5,4707	5,0489	4,7213	4,4600	4,2468	4,0698	3,5020	3,1963	3,0057	2,7811	2,6531	2,5705	2,4113	2,2304	2,1868	15
16	24681,4673	199,4371	43,0083	20,3710	13,0861	9,7582	7,9148	6,7633	5,9829	5,4221	5,0011	4,6741	4,4132	4,2005	4,0237	3,4568	3,1515	2,9611	2,7365	2,6086	2,5259	2,3666	2,1854	2,1417	16
17	24726,7982	199,4408	42,9407	20,3113	13,0327	9,7086	7,8678	6,7180	5,9388	5,3789	4,9586	4,6321	4,3716	4,1592	3,9827	3,4164	3,1114	2,9211	2,6966	2,5686	2,4859	2,3265	2,1449	2,1011	17
18	24767,1704	199,4440	42,8804	20,2581	12,9850	9,6644	7,8258	6,6775	5,8994	5,3403	4,9205	4,5945	4,3344	4,1221	3,9459	3,3802	3,0754	2,8852	2,6607	2,5326	2,4498	2,2902	2,1082	2,0643	18
19	24803,3549	199,4470	42,8263	20,2104	12,9422	9,6247	7,7881	6,6411	5,8639	5,3055	4,8863	4,5606	4,3008	4,0888	3,9127	3,3475	3,0429	2,8526	2,6281	2,4999	2,4171	2,2572	2,0748	2,0307	19
20	24835,9709	199,4496	42,7775	20,1673	12,9035	9,5888	7,7540	6,6082	5,8318	5,2740	4,8552	4,5299	4,2703	4,0585	3,8826	3,3178	3,0133	2,8230	2,5984	2,4702	2,3872	2,2270	2,0441	1,9999	20
21	24865,5212	199,4520	42,7333	20,1282	12,8684	9,5562	7,7230	6,5783	5,8027	5,2454	4,8270	4,5020	4,2426	4,0310	3,8552	3,2907	2,9862	2,7960	2,5713	2,4429	2,3598	2,1993	2,0159	1,9715	21
22	24892,4186	199,4541	42,6929	20,0925	12,8364	9,5264	7,6947	6,5510	5,7760	5,2192	4,8012	4,4765	4,2173	4,0058	3,8301	3,2659	2,9615	2,7712	2,5463	2,4178	2,3346	2,1738	1,9899	1,9453	22
23	24917,0048	199,4561	42,6561	20,0599	12,8071	9,4992	7,6688	6,5260	5,7516	5,1953	4,7775	4,4530	4,1940	3,9827	3,8071	3,2431	2,9387	2,7483	2,5233	2,3947	2,3114	2,1502	1,9657	1,9209	23
24	24939,5653	199,4579	42,6222	20,0300	12,7802	9,4742	7,6450	6,5029	5,7292	5,1732	4,7557	4,4314	4,1726	3,9614	3,7859	3,2220	2,9176	2,7272	2,5020	2,3732	2,2898	2,1283	1,9432	1,8983	24
25	24960,3404	199,4596	42,5910	20,0024	12,7554	9,4511	7,6230	6,4817	5,7084	5,1528	4,7356	4,4115	4,1528	3,9417	3,7662	3,2025	2,8981	2,7076	2,4823	2,3533	2,2697	2,1080	1,9223	1,8771	25
26	24979,5341	199,4611	42,5622	19,9769	12,7325	9,4298	7,6027	6,4620	5,6892	5,1339	4,7170	4,3930	4,1344	3,9234	3,7480	3,1845	2,8800	2,6894	2,4639	2,3348	2,2511	2,0889	1,9026	1,8573	26
27	24997,3202	199,4625	42,5355	19,9532	12,7112	9,4100	7,5838	6,4438	5,6714	5,1164	4,6997	4,3759	4,1174	3,9064	3,7311	3,1676	2,8631	2,6725	2,4467	2,3174	2,2336	2,0711	1,8842	1,8387	27
28	25013,8481	199,4639	42,5106	19,9312	12,6914	9,3915	7,5662	6,4268	5,6548	5,1001	4,6835	4,3599	4,1015	3,8906	3,7153	3,1519	2,8473	2,6566	2,4307	2,3012	2,2172	2,0544	1,8669	1,8212	28
29	25029,2466	199,4651	42,4874	19,9107	12,6729	9,3743	7,5498	6,4109	5,6393	5,0848	4,6684	4,3449	4,0866	3,8758	3,7006	3,1372	2,8326	2,6417	2,4156	2,2860	2,2019	2,0387	1,8506	1,8047	29
30	25043,6277	199,4663	42,4658	19,8915	12,6556	9,3582	7,5345	6,3961	5,6248	5,0706	4,6543	4,3309	4,0727	3,8619	3,6867	3,1234	2,8187	2,6278	2,4015	2,2717	2,1874	2,0239	1,8352	1,7891	30
35	25103,3002	199,4710	42,3759	19,8118	12,5839	9,2913	7,4707	6,3343	5,5643	5,0110	4,5955	4,2725	4,0146	3,8040	3,6289	3,0656	2,7605	2,5691	2,3418	2,2112	2,1263	1,9610	1,7692	1,7222	35
40	25148,1532	199,4746	42,3082	19,7518	12,5297	9,2408	7,4224	6,2875	5,5186	4,9659	4,5508	4,2282	3,9704	3,7600	3,5850	3,0215	2,7160	2,5241	2,2958	2,1644	2,0789	1,9119	1,7172	1,6692	40
45	25183,0971	199,4774	42,2554	19,7049	12,4875	9,2014	7,3847	6,2510	5,4827	4,9306	4,5158	4,1934	3,9358	3,7254	3,5504	2,9868	2,6808	2,4884	2,2593	2,1272	2,0410	1,8725	1,6750	1,6259	45
50	25211,0888	199,4796	42,2131	19,6673	12,4535	9,1697	7,3544	6,2215	5,4539	4,9022	4,4876	4,1653	3,9078	3,6975	3,5225	2,9586	2,6522	2,4594	2,2295	2,0967	2,0100	1,8400	1,6398	1,5898	50
60	25253,1369	199,4829	42,1494	19,6107	12,4024	9,1219	7,3088	6,1772	5,4104	4,8592	4,4450	4,122													