

Figure 13.13m. 99.995th PERCENTILES FOR THE F DISTRIBUTION $[F_{v_1, v_2}]$ [Calculated with qf in R Version 3.2.2 using 17-digit arithmetic; the accuracy of all digits in the table entries has not been verified]

$\downarrow \begin{matrix} df \rightarrow \\ v_2 / v_1 \end{matrix}$		Each table entry is the value (y) of the random variable $Y \sim F_{v_1, v_2}$ such that $\Pr(Y \leq y) = 0.99995$ (v_1 is the numerator, v_2 the denominator, degrees of freedom)																								
		1	2	3	4	5	6	7	8	9	10	12	15	20	25	30	40	50	60	75	100	175	350	1,000		
2017-02-20	1	16211893	200 000 000	216151858	225 000 000	230561982	234375000	237149467	239257812	240913744	242248535	244267273	246305607	248363209	249606871	250439721	251484949	252114288	252534758	252955952	253377868	253921385	254284386	254520617	1	
	2	19998.5	19999.0	19999.2	19999.2	19999.3	19999.3	19999.4	19999.4	19999.4	19999.4	19999.4	19999.4	19999.4	19999.5	19999.5	19999.5	19999.5	19999.5	19999.5	19999.5	19999.5	19999.5	19999.5		
	3	1245.94	110371	1047.34	1016.86	99771	984.57	974.98	967.67	961.92	957.27	950.23	943.09	935.86	931.47	928.52	924.82	922.59	921.09	919.59	918.09	916.15	914.86	914.01		
	4	343.08	280.84	256.64	243.61	235.44	229.83	225.73	222.61	220.14	218.15	215.13	212.07	208.96	207.07	205.80	204.20	203.24	202.59	201.95	201.30	200.46	199.90	199.53		
	5	166.225	128.826	114.472	106.771	101.943	98.626	96.204	94.356	92.899	91.720	89.930	88.111	86.262	85.138	84.381	83.428	82.852	82.466	82.079	81.690	81.188	80.852	80.632	5	
	6	105.286	78.433	68.220	62.754	59.329	56.975	55.255	53.943	52.907	52.069	50.794	49.498	48.179	47.375	46.834	46.151	45.738	45.462	45.183	44.904	44.543	44.302	44.144		
	7	77.132	55.783	47.718	43.408	40.709	38.854	37.497	36.461	35.643	34.981	33.973	32.947	31.901	31.263	30.833	30.290	29.962	29.741	29.519	29.297	29.009	28.815	28.689		
	8	61.633	43.568	36.777	33.154	30.885	29.324	28.183	27.311	26.622	26.064	25.214	24.348	23.463	22.923	22.559	22.098	21.819	21.632	21.443	21.254	21.008	20.844	20.736		
	9	52.060	36.144	30.184	27.006	25.017	23.648	22.647	21.881	21.276	20.786	20.038	19.276	18.496	18.019	17.697	17.290	17.043	16.877	16.710	16.542	16.324	16.178	16.082		
	10	45.654	31.239	25.857	22.990	21.195	19.959	19.055	18.364	17.817	17.373	16.697	16.006	15.299	14.867	14.574	14.203	13.978	13.827	13.674	13.521	13.322	13.188	13.101	10	
F_{v_1, v_2} 99995	11	41.1083	27.7942	22.8353	20.1955	18.5423	17.4045	16.5713	15.9336	15.4293	15.0201	14.3958	13.7575	13.1033	12.7021	12.4307	12.0866	11.8774	11.7367	11.5950	11.4521	11.2669	11.1423	11.0608		
	12	37.7348	25.2600	20.6231	18.1558	16.6105	15.5467	14.7674	14.1707	13.6986	13.3154	12.7304	12.1318	11.5175	11.1404	10.8850	10.5609	10.3636	10.2308	10.0970	9.9621	9.7870	9.6691	9.5920		
	13	35.1426	23.3270	18.9425	16.6103	15.1496	14.1438	13.4066	12.8420	12.3951	12.0322	11.4780	10.9103	10.3271	9.9686	9.7257	9.4170	9.2290	9.1024	8.9746	8.8458	8.6784	8.5656	8.4918		
	14	33.0943	21.8092	17.6274	15.4038	14.0109	13.0516	12.3483	11.8094	11.3827	11.0361	10.5064	9.9635	9.4052	9.0616	8.8285	8.5322	8.3514	8.2296	8.1067	7.9826	7.8212	7.7124	7.6412		
	15	31.4383	20.5887	16.5732	14.4385	13.1013	12.1800	11.5044	10.9867	10.5765	10.2432	9.7336	9.2109	8.6728	8.3413	8.1163	7.8298	7.6550	7.5370	7.4180	7.2977	7.1411	7.0355	6.9663	15	
	16	30.0738	19.5879	15.7110	13.6505	12.3596	11.4701	10.8176	10.3174	9.9210	9.5987	9.1059	8.6000	8.0786	7.7571	7.5387	7.2604	7.0903	6.9756	6.8597	6.7425	6.5898	6.4867	6.4191		
	17	28.9315	18.7535	14.9939	12.9961	11.7444	10.8817	10.2487	9.7633	9.3785	9.0657	8.5869	8.0951	7.5879	7.2748	7.0619	6.7904	6.6243	6.5122	6.3989	6.2842	6.1347	6.0337	5.9674		
	18	27.9619	18.0480	14.3889	12.4448	11.2266	10.3869	9.7706	9.2978	8.9230	8.6181	8.1514	7.6717	7.1764	6.8705	6.6622	6.3965	6.2338	6.1239	6.0127	5.9001	5.7533	5.6540	5.5887		
	19	27.1293	17.4441	13.8720	11.9743	10.7852	9.9653	9.3635	8.9017	8.5354	8.2375	7.7811	7.3118	6.8269	6.5271	6.3228	6.0620	5.9022	5.7941	5.6847	5.5739	5.4293	5.3314	5.2670		
	20	26.4069	16.9217	13.4256	11.5686	10.4048	9.6023	9.0130	8.5608	8.2020	7.9101	7.4628	7.0026	6.5267	6.2321	6.0313	5.7747	5.6173	5.5108	5.4030	5.2937	5.1509	5.0541	4.9905	20	
STAT 221 – W. H. Cherry	22	25.2165	16.0642	12.6945	10.9050	9.7833	9.0096	8.4413	8.0049	7.6586	7.3767	6.9445	6.4992	6.0381	5.7522	5.5571	5.3073	5.1539	5.0499	4.9445	4.8376	4.6976	4.6026	4.5400		
	24	24.2770	15.3905	12.1216	10.3859	9.2979	8.5471	7.9954	7.5717	7.2353	6.9613	6.5410	6.1077	5.6583	5.3792	5.1885	4.9440	4.7935	4.6915	4.5880	4.4827	4.3448	4.2510	4.1891		
	26	23.5173	14.8479	11.6612	9.9693	8.9087	8.1766	7.6386	7.2251	6.8968	6.6293	6.2187	5.7949	5.3550	5.0814	4.8941	4.6538	4.5057	4.4052	4.3030	4.1991	4.0626	3.9696	3.9082		
	28	22.8907	14.4017	11.2834	9.6280	8.5900	7.8735	7.3467	6.9418	6.6202	6.3580	5.9555	5.5397	5.1075	4.8383	4.6540	4.4170	4.2708	4.1714	4.0703	3.9673	3.8319	3.7394	3.6783		
	30	22.3653	14.0286	10.9679	9.3433	8.3245	7.6211	7.1038	6.7062	6.3901	6.1325	5.7367	5.3276	4.9018	4.6364	4.4544	4.2202	4.0755	3.9770	3.8767	3.7745	3.6398	3.5477	3.4867	30	
	35	21.3612	13.3185	10.3689	8.8035	7.8217	7.1435	6.6445	6.2607	5.9555	5.7065	5.3237	4.9273	4.5140	4.2556	4.0779	3.8487	3.7066	3.6097	3.5107	3.4096	3.2758	3.1840	3.1230		
	40	20.6471	12.8157	9.9459	8.4231	7.4678	6.8077	6.3219	5.9480	5.6505	5.4077	5.0341	4.6469	4.2422	3.9887	3.8141	3.5881	3.4477	3.3517	3.2535	3.1528	3.0192	2.9270	2.8656		
	45	20.1135	12.4413	9.6317	8.1408	7.2055	6.5590	6.0831	5.7167	5.4250	5.1869	4.8202	4.4398	4.0415	3.7916	3.6191	3.3955	3.2561	3.1606	3.0628	2.9622	2.8283	2.7355	2.6735		
	50	19.6999	12.1519	9.3891	7.9232	7.0035	6.3676	5.8994	5.5387	5.2516	5.0171	4.6558	4.2806	3.8874	3.6401	3.4692	3.2473	3.1086	3.0134	2.9157	2.8151	2.6806	2.5871	2.5244	50	
	60	19.1006	11.7339	9.0394	7.6099	6.7128	6.0925	5.6354	5.2833	5.0028	4.7735	4.4200	4.0524	3.6663	3.4228	3.2541	3.0343	2.8964	2.8015	2.7037	2.6026	2.4666	2.3714	2.3071		
70	18.6875	11.4467	8.7996	7.3954	6.5140	5.9044	5.4551	5.1088	4.8328	4.6072	4.2591	3.8968	3.5155	3.2745	3.1072	2.8887	2.7512	2.6562	2.5582	2.4564	2.3188	2.2217	2.1557			
80	18.3856	11.2372	8.6250	7.2393	6.3695	5.7677	5.3241	4.9821	4.7095	4.4866	4.1424	3.7839	3.4061	3.1669	3.0006	2.7829	2.6455	2.5504	2.4520	2.3495	2.2102	2.1113	2.0437			
90	18.1554	11.0778	8.4922	7.1207	6.2597	5.6640	5.2247	4.8860	4.6160	4.3951	4.0540	3.6983	3.3231	3.0853	2.9197	2.7025	2.5651	2.4699	2.3710	2.2678	2.1269	2.0263	1.9570			
100	17.9740	10.9524	8.3878	7.0275	6.1735	5.5825	5.1468	4.8106	4.5426	4.3233	3.9846	3.6312	3.2580	3.0212	2.8562	2.6393	2.5019	2.4065	2.3072	2.2033	2.0609	1.9586	1.8878	100		
#3.7	125	17.6537	10.7313	8.2040	6.8636	6.0219	5.4394	5.0097	4.6782	4.4137	4.1973	3.8627	3.5133	3.1438	2.9088	2.7446	2.5282	2.3906	2.2946	2.1944	2.0890	1.9433	1.8372	1.7		