

Figure 13.13d. 85th PERCENTILES FOR THE F DISTRIBUTION $[F_{v_1, v_2}]$

[Calculated with qf in R Version 3.3.2 using 17-digit arithmetic;
the accuracy of all digits in the table entries has not been verified]

Each table entry is the value (y) of the random variable $Y \sim F_{v_1, v_2}$ such that $\Pr(Y \leq y) = 0.85$ (v_1 is the numerator, v_2 the denominator, degrees of freedom)

$\downarrow v_2 \nearrow$	Each table entry is the value (y) of the random variable $Y \sim F_{v_1, v_2}$ such that $\Pr(Y \leq y) = 0.85$ (v_1 is the numerator, v_2 the denominator, degrees of freedom)																								
	v_2/v_1	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	17.350	21722	23.572	24.582	25.217	25.652	25.968	26.208	26.397	26.549	26779	27.011	27.245	27.386	27.481	27.600	27.672	27719	27767	27815	27877	27918	27945	1
	2	5.2072	5.6667	5.8258	5.9065	5.9553	5.9880	6.0114	6.0290	6.0427	6.0537	6.0702	6.0867	6.1033	6.1132	6.1199	6.1282	6.1332	6.1365	6.1398	6.1431	6.1474	6.1503	6.1521	
	3	3.7030	3.8133	3.8209	3.8166	3.8109	3.8058	3.8013	3.7976	3.7945	3.7918	3.7874	3.7828	3.7778	3.7746	3.7724	3.7695	3.7678	3.7666	3.7654	3.7642	3.7626	3.7616	3.7609	
	4	3.1620	3.1640	3.1236	3.0916	3.0678	3.0497	3.0357	3.0245	3.0153	3.0078	2.9959	2.9835	2.9704	2.9623	2.9567	2.9496	2.9453	2.9423	2.9394	2.9364	2.9325	2.9299	2.9282	
	5	2.8878	2.8395	2.7764	2.7309	2.6980	2.6733	2.6543	2.6391	2.6268	2.6165	2.6006	2.5838	2.5662	2.5552	2.5477	2.5381	2.5322	2.5282	2.5242	2.5202	2.5149	2.5113	2.5090	5
	6	2.7231	2.6462	2.5699	2.5164	2.4780	2.4493	2.4270	2.4093	2.3949	2.3830	2.3643	2.3446	2.3239	2.3110	2.3021	2.2907	2.2837	2.2790	2.2742	2.2694	2.2631	2.2589	2.2561	
	7	2.6134	2.5183	2.4334	2.3746	2.3324	2.3009	2.2764	2.2570	2.2411	2.2279	2.2072	2.1854	2.1623	2.1479	2.1379	2.1252	2.1173	2.1120	2.1066	2.1012	2.0941	2.0893	2.0861	
	8	2.5352	2.4274	2.3366	2.2740	2.2291	2.1955	2.1694	2.1486	2.1316	2.1174	2.0952	2.0717	2.0468	2.0310	2.0202	2.0063	1.9978	1.9920	1.9861	1.9801	1.9723	1.9670	1.9635	
	9	2.4766	2.3597	2.2644	2.1989	2.1520	2.1168	2.0894	2.0675	2.0496	2.0347	2.0112	1.9863	1.9598	1.9431	1.9316	1.9167	1.9075	1.9013	1.8949	1.8885	1.8801	1.8744	1.8706	
	10	2.4312	2.3072	2.2086	2.1408	2.0922	2.0557	2.0273	2.0046	1.9860	1.9704	1.9459	1.9198	1.8920	1.8744	1.8622	1.8465	1.8368	1.8301	1.8234	1.8166	1.8076	1.8015	1.7975	10
University of Waterloo	11	2.3949	2.2654	2.1640	2.0945	2.0446	2.0071	1.9778	1.9543	1.9351	1.9190	1.8936	1.8666	1.8376	1.8192	1.8065	1.7900	1.7797	1.7728	1.7657	1.7585	1.7490	1.7425	1.7383	
	12	2.3653	2.2313	2.1278	2.0568	2.0058	1.9673	1.9374	1.9133	1.8935	1.8770	1.8508	1.8229	1.7929	1.7738	1.7606	1.7434	1.7327	1.7254	1.7180	1.7105	1.7005	1.6937	1.6893	
	13	2.3407	2.2030	2.0976	2.0254	1.9735	1.9343	1.9037	1.8791	1.8589	1.8419	1.8151	1.7864	1.7556	1.7358	1.7221	1.7043	1.6932	1.6857	1.6779	1.6701	1.6597	1.6526	1.6479	
	14	2.3198	2.1791	2.0722	1.9989	1.9462	1.9064	1.8752	1.8502	1.8296	1.8123	1.7849	1.7555	1.7238	1.7036	1.6894	1.6710	1.6596	1.6517	1.6437	1.6356	1.6248	1.6174	1.6125	
	15	2.3020	2.1586	2.0504	1.9763	1.9228	1.8825	1.8509	1.8254	1.8044	1.7868	1.7589	1.7289	1.6965	1.6757	1.6613	1.6423	1.6305	1.6224	1.6142	1.6057	1.5945	1.5869	1.5818	15
	16	2.2865	2.1409	2.0316	1.9567	1.9027	1.8618	1.8298	1.8040	1.7827	1.7648	1.7364	1.7059	1.6728	1.6515	1.6367	1.6173	1.6051	1.5968	1.5883	1.5796	1.5680	1.5601	1.5549	
	17	2.2730	2.1255	2.0152	1.9396	1.8850	1.8437	1.8113	1.7852	1.7636	1.7455	1.7167	1.6856	1.6520	1.6303	1.6151	1.5952	1.5828	1.5742	1.5655	1.5565	1.5446	1.5365	1.5311	
	18	2.2611	2.1119	2.0007	1.9245	1.8695	1.8278	1.7951	1.7686	1.7468	1.7285	1.6993	1.6678	1.6335	1.6114	1.5960	1.5757	1.5629	1.5542	1.5452	1.5360	1.5238	1.5154	1.5098	
	19	2.2506	2.0998	1.9878	1.9111	1.8556	1.8136	1.7806	1.7539	1.7319	1.7133	1.6838	1.6518	1.6171	1.5946	1.5789	1.5582	1.5451	1.5362	1.5270	1.5176	1.5050	1.4964	1.4907	
	20	2.2411	2.0890	1.9764	1.8992	1.8433	1.8010	1.7677	1.7408	1.7185	1.6997	1.6699	1.6376	1.6023	1.5795	1.5635	1.5424	1.5291	1.5200	1.5106	1.5010	1.4881	1.4793	1.4734	20
F_{v_1, v_2} 0.85	22	2.2249	2.0705	1.9567	1.8787	1.8222	1.7793	1.7455	1.7182	1.6956	1.6765	1.6460	1.6130	1.5769	1.5535	1.5370	1.5152	1.5015	1.4920	1.4822	1.4722	1.4587	1.4495	1.4433	
	24	2.2116	2.0553	1.9405	1.8618	1.8047	1.7614	1.7272	1.6995	1.6766	1.6572	1.6263	1.5927	1.5559	1.5319	1.5149	1.4925	1.4783	1.4685	1.4584	1.4480	1.4340	1.4244	1.4179	
	26	2.2004	2.0425	1.9269	1.8476	1.7901	1.7464	1.7119	1.6839	1.6607	1.6411	1.6097	1.5756	1.5381	1.5136	1.4962	1.4733	1.4587	1.4486	1.4382	1.4274	1.4130	1.4029	1.3962	
	28	2.1908	2.0317	1.9154	1.8356	1.7777	1.7336	1.6988	1.6705	1.6471	1.6273	1.5955	1.5610	1.5228	1.4979	1.4802	1.4568	1.4418	1.4315	1.4207	1.4096	1.3947	1.3843	1.3773	
	30	2.1826	2.0223	1.9054	1.8252	1.7669	1.7226	1.6875	1.6590	1.6354	1.6154	1.5833	1.5483	1.5097	1.4843	1.4663	1.4424	1.4271	1.4165	1.4055	1.3941	1.3787	1.3680	1.3608	30
	35	2.1663	2.0038	1.8857	1.8046	1.7457	1.7007	1.6651	1.6362	1.6121	1.5917	1.5590	1.5231	1.4834	1.4572	1.4385	1.4135	1.3975	1.3864	1.3748	1.3627	1.3463	1.3348	1.3270	
	40	2.1542	1.9900	1.8711	1.7894	1.7299	1.6845	1.6485	1.6192	1.5948	1.5741	1.5408	1.5043	1.4637	1.4368	1.4175	1.3917	1.3751	1.3635	1.3514	1.3387	1.3214	1.3092	1.3009	
	45	2.1449	1.9794	1.8598	1.7776	1.7177	1.6719	1.6357	1.6061	1.5814	1.5605	1.5268	1.4897	1.4483	1.4209	1.4012	1.3747	1.3575	1.3455	1.3329	1.3197	1.3016	1.2888	1.2800	
	50	2.1374	1.9710	1.8508	1.7682	1.7080	1.6620	1.6254	1.5956	1.5707	1.5496	1.5155	1.4780	1.4361	1.4081	1.3880	1.3609	1.3433	1.3309	1.3180	1.3043	1.2855	1.2721	1.2629	50
	60	2.1264	1.9584	1.8375	1.7543	1.6936	1.6471	1.6102	1.5800	1.5548	1.5334	1.4988	1.4606	1.4176	1.3889	1.3682	1.3401	1.3218	1.3088	1.2952	1.2807	1.2606	1.2462	1.2362	
70	2.1185	1.9495	1.8280	1.7444	1.6833	1.6365	1.5993	1.5689	1.5435	1.5218	1.4868	1.4481	1.4045	1.3752	1.3540	1.3251	1.3062	1.2928	1.2785	1.2634	1.2423	1.2269	1.2162		
80	2.1126	1.9428	1.8209	1.7370	1.6757	1.6287	1.5912	1.5606	1.5350	1.5132	1.4779	1.4388	1.3946	1.3652	1.3433	1.3138	1.2944	1.2805	1.2659	1.2502	1.2281	1.2119	1.2006		
90	2.1081	1.9377	1.8155	1.7313	1.6698	1.6226	1.5850	1.5542	1.5285	1.5065	1.4710	1.4315	1.3869	1.3568	1.3349	1.3049	1.2851	1.2709	1.2559	1.2397	1.2219	1.2050	1.1880		
100	2.1045	1.9336	1.8111	1.7267	1.6650	1.6177	1.5800	1.5491	1.5232	1.5012	1.4654	1.4257	1.3807	1.3503	1.3282	1.2977	1.2776	1.2632	1.2478	1.2312	1.2077	1.1901	1.1776	100	
STAT 221 – W.H. Cherry	125	2.0980	1.9262	1.8033	1.7185	1.6566	1.6089	1.5710	1.5399	1.5138	1.4916	1.4555	1.4153	1.3696	1.3386	1.3160	1.2847	1.2640	1.2490	1.2329	1.2156	1.1905	1.1716	1.1579	
	150	2.0936	1.9213	1.7981	1.7131	1.6509	1.6031	1.5650	1.5338	1.5075	1.4852	1.4488	1.4083	1.3622	1.3308	1.3078	1.2760	1.2548	1.2394	1.2229	1.2048	1.1787	1.1586	1.1439	
	175																								