

Figure 13.13b. 65th 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]

df	Each table entry is the value (y) of the random variable $Y \sim F_{v_1, v_2}$ such that $\Pr(Y \leq y) = 0.65$ (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		
2006-12-20	1	2.6629	3.5816	3.9632	4.1703	4.2999	4.3885	4.4528	4.5017	4.5400	4.5709	4.6175	4.6646	4.7120	4.7407	4.7599	4.7839	4.7984	4.8081	4.8178	4.8275	4.8400	4.8484	4.8538	1	
	2	1.4632	1.8571	2.0040	2.0803	2.1271	2.1587	2.1814	2.1986	2.2120	2.2228	2.2390	2.2553	2.2717	2.2816	2.2882	2.2964	2.3014	2.3047	2.3080	2.3114	2.3156	2.3185	2.3204		
	3	1.2200	1.5203	1.6243	1.6761	1.7070	1.7275	1.7420	1.7529	1.7613	1.7680	1.7780	1.7880	1.7980	1.8039	1.8079	1.8128	1.8157	1.8177	1.8197	1.8216	1.8242	1.8258	1.8269		
	4	1.1179	1.3806	1.4671	1.5087	1.5328	1.5484	1.5594	1.5674	1.5736	1.5784	1.5856	1.5927	1.5996	1.6037	1.6063	1.6097	1.6116	1.6129	1.6142	1.6155	1.6172	1.6183	1.6190		
	5	1.0620	1.3046	1.3817	1.4176	1.4378	1.4507	1.4595	1.4659	1.4707	1.4744	1.4799	1.4852	1.4902	1.4931	1.4950	1.4973	1.4986	1.4995	1.5004	1.5012	1.5023	1.5030	1.5035	5	
	6	1.0269	1.2570	1.3280	1.3603	1.3781	1.3891	1.3965	1.4017	1.4057	1.4087	1.4129	1.4169	1.4206	1.4227	1.4240	1.4255	1.4264	1.4269	1.4275	1.4280	1.4287	1.4291	1.4294		
	7	1.0027	1.2243	1.2912	1.3210	1.3370	1.3467	1.3531	1.3575	1.3608	1.3632	1.3666	1.3696	1.3723	1.3737	1.3745	1.3755	1.3760	1.3763	1.3766	1.3768	1.3772	1.3773	1.3774		
	8	.98514	1.2005	1.2645	1.2923	1.3070	1.3157	1.3213	1.3252	1.3279	1.3299	1.3326	1.3349	1.3367	1.3376	1.3380	1.3385	1.3387	1.3388	1.3388	1.3389	1.3389	1.3389	1.3389	1.3389	
	9	.97176	1.1824	1.2441	1.2705	1.2842	1.2921	1.2971	1.3004	1.3027	1.3044	1.3065	1.3082	1.3093	1.3097	1.3099	1.3099	1.3098	1.3098	1.3096	1.3095	1.3093	1.3091	1.3089		
	10	.96123	1.1682	1.2281	1.2533	1.2662	1.2735	1.2780	1.2809	1.2829	1.2842	1.2859	1.2870	1.2876	1.2876	1.2875	1.2872	1.2869	1.2866	1.2863	1.2860	1.2855	1.2852	1.2849	10	
F_{v_1, v_2} 65	11	.95274	1.1567	1.2151	1.2395	1.2517	1.2585	1.2626	1.2651	1.2668	1.2679	1.2692	1.2699	1.2699	1.2696	1.2692	1.2686	1.2681	1.2677	1.2672	1.2668	1.2661	1.2656	1.2653		
	12	.94575	1.1473	1.2045	1.2280	1.2397	1.2460	1.2498	1.2521	1.2535	1.2544	1.2553	1.2556	1.2552	1.2546	1.2540	1.2531	1.2524	1.2519	1.2513	1.2507	1.2498	1.2492	1.2487		
	13	.93988	1.1394	1.1956	1.2185	1.2296	1.2356	1.2391	1.2411	1.2423	1.2430	1.2436	1.2436	1.2428	1.2419	1.2412	1.2399	1.2391	1.2384	1.2377	1.2370	1.2359	1.2352	1.2347		
	14	.93490	1.1326	1.1880	1.2103	1.2211	1.2268	1.2299	1.2317	1.2328	1.2333	1.2337	1.2333	1.2322	1.2311	1.2301	1.2287	1.2276	1.2269	1.2261	1.2252	1.2240	1.2231	1.2225		
	15	.93061	1.1268	1.1815	1.2033	1.2137	1.2191	1.2220	1.2237	1.2245	1.2250	1.2251	1.2244	1.2230	1.2217	1.2205	1.2189	1.2177	1.2168	1.2159	1.2149	1.2136	1.2126	1.2119	15	
	16	.92688	1.1218	1.1758	1.1972	1.2073	1.2124	1.2152	1.2166	1.2174	1.2176	1.2175	1.2167	1.2149	1.2134	1.2121	1.2103	1.2090	1.2080	1.2070	1.2059	1.2044	1.2033	1.2026		
	17	.92361	1.1174	1.1708	1.1919	1.2017	1.2066	1.2092	1.2105	1.2110	1.2112	1.2109	1.2098	1.2078	1.2061	1.2047	1.2026	1.2012	1.2002	1.1991	1.1979	1.1962	1.1950	1.1942		
	18	.92072	1.1135	1.1664	1.1871	1.1967	1.2014	1.2038	1.2050	1.2054	1.2055	1.2050	1.2038	1.2015	1.1996	1.1981	1.1959	1.1943	1.1932	1.1920	1.1907	1.1889	1.1876	1.1867		
	19	.91814	1.1100	1.1625	1.1829	1.1922	1.1968	1.1990	1.2001	1.2004	1.2004	1.1998	1.1983	1.1959	1.1938	1.1922	1.1898	1.1881	1.1869	1.1856	1.1842	1.1823	1.1809	1.1800		
	20	.91582	1.1069	1.1590	1.1791	1.1882	1.1926	1.1948	1.1957	1.1960	1.1958	1.1951	1.1934	1.1908	1.1886	1.1868	1.1842	1.1825	1.1812	1.1798	1.1784	1.1763	1.1749	1.1739	20	
F_{v_1, v_2} 65	22	.91185	1.1016	1.1529	1.1726	1.1814	1.1855	1.1874	1.1881	1.1882	1.1880	1.1869	1.1850	1.1819	1.1795	1.1775	1.1747	1.1727	1.1713	1.1698	1.1682	1.1659	1.1643	1.1631		
	24	.90856	1.0971	1.1479	1.1672	1.1757	1.1796	1.1813	1.1818	1.1818	1.1814	1.1801	1.1779	1.1746	1.1719	1.1698	1.1667	1.1645	1.1630	1.1613	1.1595	1.1571	1.1553	1.1541		
	26	.90578	1.0934	1.1437	1.1626	1.1709	1.1746	1.1761	1.1765	1.1764	1.1759	1.1744	1.1720	1.1683	1.1654	1.1631	1.1598	1.1575	1.1559	1.1541	1.1522	1.1495	1.1476	1.1462		
	28	.90342	1.0902	1.1401	1.1588	1.1668	1.1703	1.1717	1.1720	1.1717	1.1711	1.1695	1.1669	1.1630	1.1599	1.1575	1.1539	1.1515	1.1497	1.1478	1.1458	1.1429	1.1408	1.1394		
	30	.90137	1.0874	1.1369	1.1554	1.1632	1.1666	1.1679	1.1681	1.1677	1.1670	1.1652	1.1624	1.1583	1.1551	1.1525	1.1488	1.1462	1.1443	1.1423	1.1402	1.1371	1.1349	1.1334	30	
	35	.89731	1.0820	1.1307	1.1487	1.1562	1.1593	1.1603	1.1602	1.1597	1.1588	1.1567	1.1536	1.1490	1.1454	1.1425	1.1384	1.1355	1.1334	1.1312	1.1288	1.1253	1.1228	1.1211		
	40	.89427	1.0779	1.1261	1.1437	1.1509	1.1538	1.1546	1.1544	1.1537	1.1527	1.1504	1.1469	1.1419	1.1380	1.1350	1.1305	1.1274	1.1251	1.1227	1.1200	1.1162	1.1135	1.1116		
	45	.89192	1.0747	1.1225	1.1399	1.1468	1.1495	1.1502	1.1498	1.1490	1.1479	1.1454	1.1417	1.1364	1.1323	1.1290	1.1243	1.1210	1.1186	1.1159	1.1131	1.1090	1.1060	1.1039		
	50	.89005	1.0722	1.1197	1.1368	1.1436	1.1461	1.1466	1.1462	1.1453	1.1441	1.1414	1.1375	1.1320	1.1277	1.1243	1.1193	1.1158	1.1132	1.1104	1.1074	1.1030	1.0998	1.0975	50	
	60	.88725	1.0684	1.1154	1.1322	1.1387	1.1410	1.1414	1.1408	1.1397	1.1383	1.1354	1.1313	1.1253	1.1207	1.1171	1.1117	1.1079	1.1051	1.1020	1.0987	1.0939	1.0902	1.0876		
70	.88526	1.0657	1.1124	1.1289	1.1352	1.1374	1.1376	1.1369	1.1357	1.1342	1.1312	1.1268	1.1206	1.1157	1.1118	1.1061	1.1021	1.0992	1.0959	1.0923	1.0871	1.0831	1.0802			
80	.88377	1.0637	1.1101	1.1265	1.1327	1.1347	1.1348	1.1340	1.1327	1.1312	1.1280	1.1234	1.1170	1.1119	1.1079	1.1020	1.0978	1.0946	1.0912	1.0874	1.0818	1.0775	1.0744			
90	.88262	1.0622	1.1084	1.1245	1.1306	1.1326	1.1326	1.1317	1.1304	1.1288	1.1255	1.1208	1.1142	1.1090	1.1048	1.0987	1.0943	1.0911	1.0875	1.0835	1.0776	1.0730	1.0697			
100	.88170	1.0609	1.1069	1.1230	1.1290	1.1309	1.1309	1.1299	1.1285	1.1269	1.1235	1.1187	1.1119	1.1066	1.1023	1.0960	1.0915	1.0882	1.0845	1.0803	1.0742	1.0694	1.0658	100		
125	.88004	1.0587	1.1044	1.1203	1.1261	1.1279	1.1277	1.1266	1.1252	1.1235	1.1199	1.1149	1.1078	1.1023	1.0978	1.0912	1.0865	1.0829	1.0790	1.0745	1.0678	1.0624	1.0585			
150	.87894	1.0572	1.1027	1.1185	1.1242	1.1258	1.1256	1.1245	1.1229	1.1212	1.1175	1.1123	1.1051	1.0994	1.0948	1.0880	1.0831	1.079								