

| Denominator<br>D.f. | F-values         |         |         |         |         |         |
|---------------------|------------------|---------|---------|---------|---------|---------|
|                     | Numerator D.f. 1 | 2       | 3       | 4       | 5       | 6       |
| 1                   | 405284           | 499999  | 540379  | 562500  | 576405  | 585937  |
| 2                   | 998.500          | 999.000 | 999.167 | 999.250 | 999.300 | 999.333 |
| 3                   | 167.029          | 148.500 | 141.108 | 137.100 | 134.580 | 132.847 |
| 4                   | 74.137           | 61.246  | 56.177  | 53.436  | 51.712  | 50.525  |
| 5                   | 47.181           | 37.122  | 33.202  | 31.085  | 29.752  | 28.834  |
| 6                   | 35.507           | 27.000  | 23.703  | 21.924  | 20.803  | 20.030  |
| 7                   | 29.245           | 21.689  | 18.772  | 17.198  | 16.206  | 15.521  |
| 8                   | 25.415           | 18.494  | 15.829  | 14.392  | 13.485  | 12.858  |
| 9                   | 22.857           | 16.387  | 13.902  | 12.560  | 11.714  | 11.128  |
| 10                  | 21.040           | 14.905  | 12.553  | 11.283  | 10.481  | 9.926   |
| 11                  | 19.687           | 13.812  | 11.561  | 10.346  | 9.578   | 9.047   |
| 12                  | 18.643           | 12.974  | 10.804  | 9.633   | 8.892   | 8.379   |
| 13                  | 17.815           | 12.313  | 10.209  | 9.073   | 8.354   | 7.856   |
| 14                  | 17.143           | 11.779  | 9.729   | 8.622   | 7.922   | 7.436   |
| 15                  | 16.587           | 11.339  | 9.335   | 8.253   | 7.567   | 7.092   |
| 16                  | 16.120           | 10.971  | 9.006   | 7.944   | 7.272   | 6.805   |
| 17                  | 15.722           | 10.658  | 8.727   | 7.683   | 7.022   | 6.562   |
| 18                  | 15.379           | 10.390  | 8.487   | 7.459   | 6.808   | 6.355   |
| 19                  | 15.081           | 10.157  | 8.280   | 7.265   | 6.622   | 6.175   |
| 20                  | 14.819           | 9.953   | 8.098   | 7.096   | 6.461   | 6.019   |
| 21                  | 14.587           | 9.772   | 7.938   | 6.947   | 6.318   | 5.881   |
| 22                  | 14.380           | 9.612   | 7.796   | 6.814   | 6.191   | 5.758   |
| 23                  | 14.195           | 9.469   | 7.669   | 6.696   | 6.078   | 5.649   |
| 24                  | 14.028           | 9.339   | 7.554   | 6.589   | 5.977   | 5.550   |
| 25                  | 13.877           | 9.223   | 7.451   | 6.493   | 5.885   | 5.462   |
| 26                  | 13.739           | 9.116   | 7.357   | 6.406   | 5.802   | 5.381   |
| 27                  | 13.613           | 9.019   | 7.272   | 6.326   | 5.726   | 5.308   |
| 28                  | 13.498           | 8.931   | 7.193   | 6.253   | 5.656   | 5.241   |
| 29                  | 13.391           | 8.849   | 7.121   | 6.186   | 5.593   | 5.179   |
| 30                  | 13.293           | 8.773   | 7.054   | 6.125   | 5.534   | 5.122   |
| 31                  | 13.202           | 8.704   | 6.993   | 6.067   | 5.480   | 5.070   |
| 32                  | 13.117           | 8.639   | 6.936   | 6.014   | 5.429   | 5.021   |
| 33                  | 13.039           | 8.579   | 6.883   | 5.965   | 5.382   | 4.976   |
| 34                  | 12.965           | 8.522   | 6.833   | 5.919   | 5.339   | 4.934   |
| 35                  | 12.896           | 8.470   | 6.787   | 5.876   | 5.298   | 4.894   |
| 36                  | 12.832           | 8.420   | 6.744   | 5.836   | 5.260   | 4.857   |
| 37                  | 12.771           | 8.374   | 6.703   | 5.799   | 5.224   | 4.823   |
| 38                  | 12.714           | 8.331   | 6.665   | 5.763   | 5.190   | 4.790   |
| 39                  | 12.660           | 8.290   | 6.629   | 5.730   | 5.158   | 4.759   |
| 40                  | 12.609           | 8.251   | 6.595   | 5.698   | 5.128   | 4.731   |
| 41                  | 12.561           | 8.214   | 6.562   | 5.668   | 5.100   | 4.703   |
| 42                  | 12.516           | 8.179   | 6.532   | 5.640   | 5.073   | 4.677   |
| 43                  | 12.472           | 8.146   | 6.503   | 5.613   | 5.048   | 4.653   |
| 44                  | 12.431           | 8.115   | 6.476   | 5.588   | 5.024   | 4.630   |
| 45                  | 12.392           | 8.086   | 6.450   | 5.564   | 5.001   | 4.608   |
| 50                  | 12.222           | 7.956   | 6.336   | 5.459   | 4.901   | 4.512   |
| 60                  | 11.973           | 7.768   | 6.171   | 5.307   | 4.757   | 4.372   |
| 70                  | 11.799           | 7.637   | 6.057   | 5.201   | 4.656   | 4.275   |
| 80                  | 11.671           | 7.540   | 5.972   | 5.123   | 4.582   | 4.204   |
| 90                  | 11.573           | 7.466   | 5.908   | 5.064   | 4.526   | 4.150   |
| 100                 | 11.495           | 7.408   | 5.857   | 5.017   | 4.482   | 4.107   |
| 110                 | 11.432           | 7.360   | 5.816   | 4.979   | 4.445   | 4.072   |
| 120                 | 11.380           | 7.321   | 5.781   | 4.947   | 4.416   | 4.044   |
| 130                 | 11.336           | 7.288   | 5.753   | 4.921   | 4.391   | 4.020   |