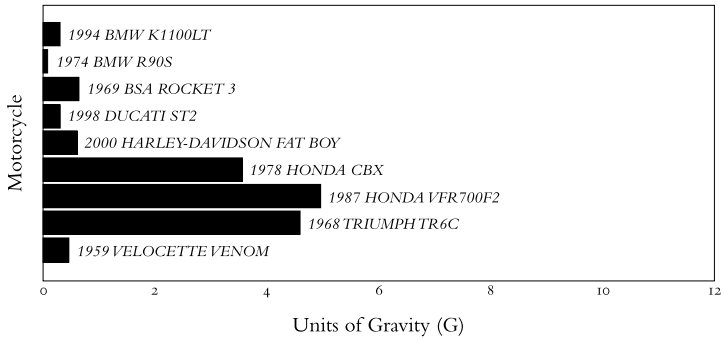
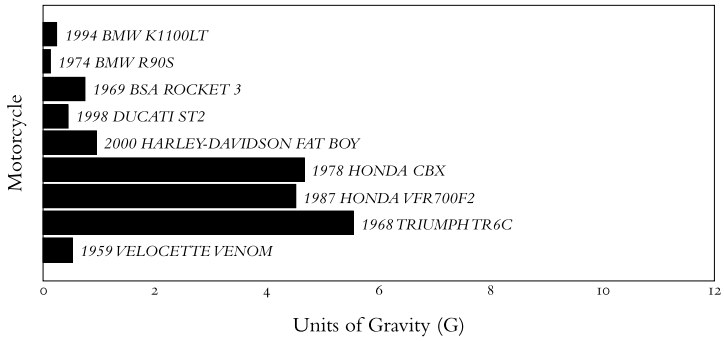
OVERALL MOTORCYCLE COMPARISON

60mph Footpeg Vibration — Root Mean Square (RMS)

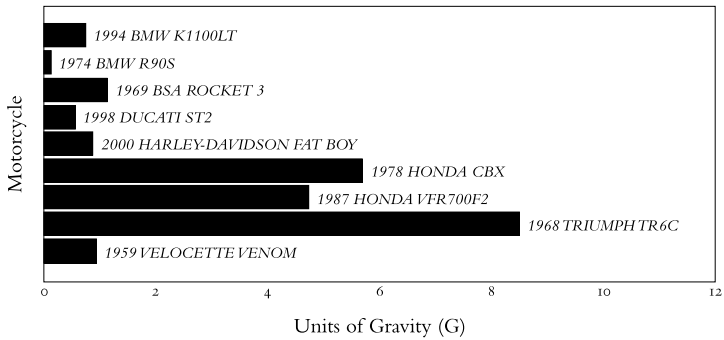
x-Axis



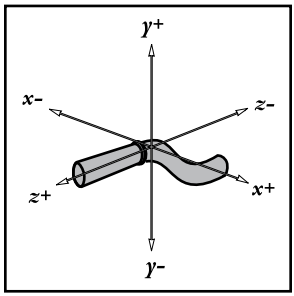
y-Axis



z-Axis

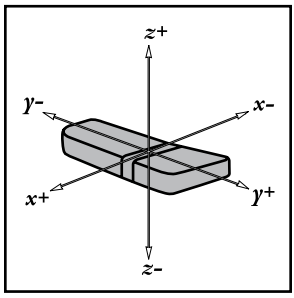


It's important, in evaluating our results, to understand how the vibration forces were gathered by the accelerometers. For example, the transducers measured vibration with three axes of reference— *x, y, z*—aligned thus:



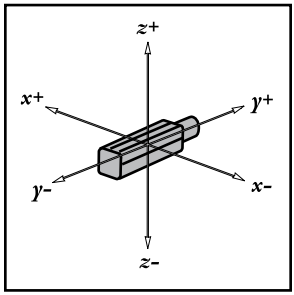
HANDLEBAR

***x*-axis:** perpendicular to handlebar *(+ points backward)*
***y*-axis:** perpendicular to handlebar *(+ points upward)*
***z*-axis:** parallel to handlebar *(+ points left)*



SEAT

***x*-axis:** perpendicular to bike longitudinal axis *(+ points left)*
***y*-axis:** parallel to bike longitudinal axis *(+ points backward)*
***z*-axis:** perpendicular to bike longitudinal axis *(+ points upward)*



FOOTPEG

***x*-axis:** parallel to bike longitudinal axis *(+ points forward)*
***y*-axis:** perpendicular to bike longitudinal axis *(+ points right)*
***z*-axis:** perpendicular to bike longitudinal axis *(+ points upward)*