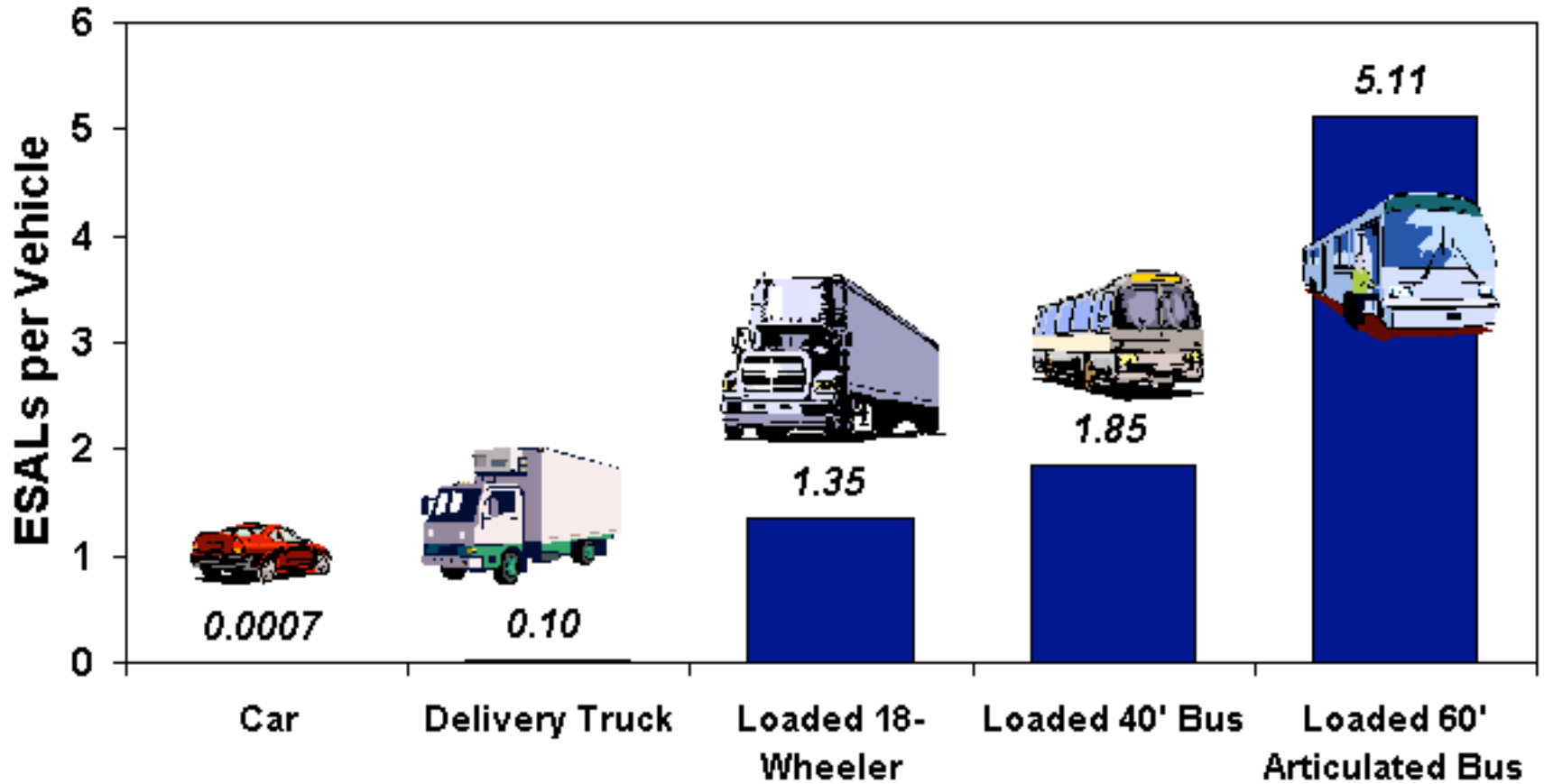


Empirical Method of Thickness Design

- Calculate traffic factor for design year
 - Project the number and mix of vehicles
 - **One 80,000# truck** equals the loading (damage) of **7,000 to 10,000 cars**
 - AASHTO : 18,000# per axle or 18kips
Equivalent Single Axle Loads (ESALS)
 - Empirical formula to calculate traffic factor which will be used with soil and pavement strengths to set thickness



ESALS



Source: <http://www.pavementinteractive.org/article/loads/>

