

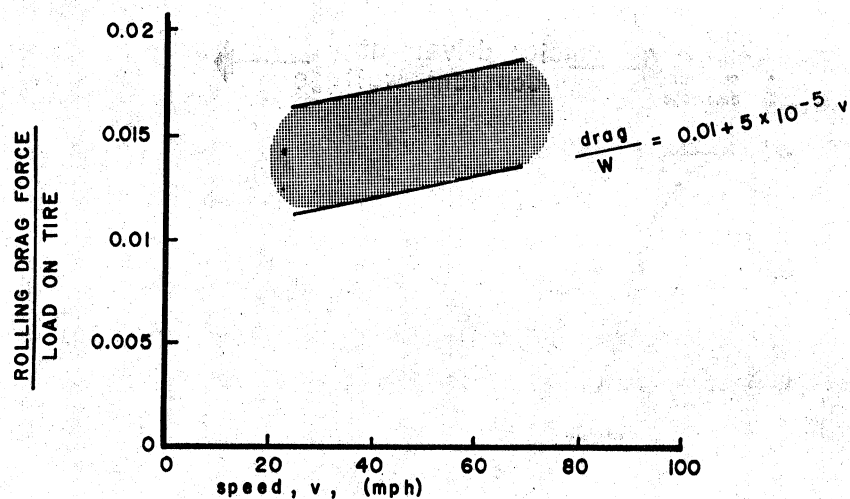


FIGURE 6.—Passenger car tire characteristics at speed.

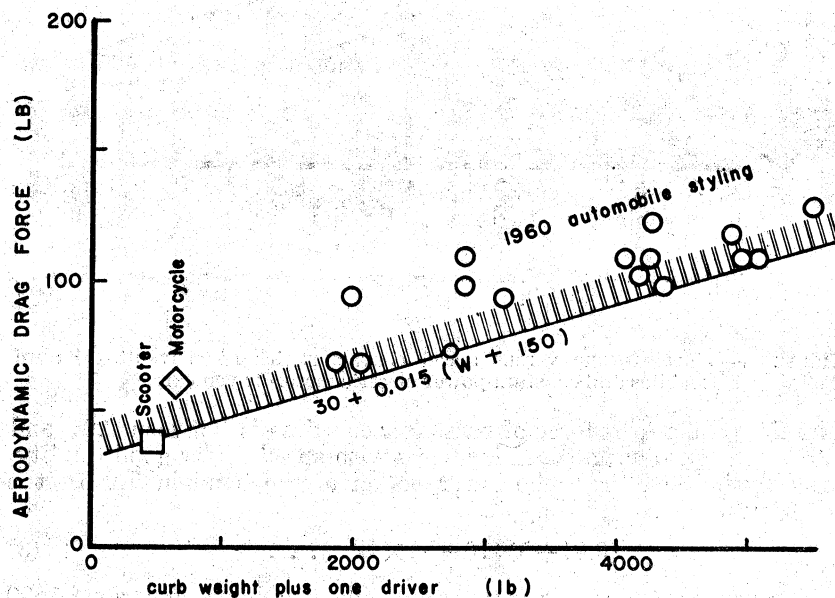


FIGURE 7.—Weight and aerodynamic drag of vehicles at 60 mph.

Aerodynamic drag of cars is quadratic with speed,⁵ so that expression (4) may be multiplied by $(v/60)^2$ to yield the drag-speed relation of automobiles to be

$$[0.0083 + 4.2 \times 10^{-6} (W + 150)] v^2 \dots \dots (5)$$

⁵ P. R. Kyriopoulos et al., "Automobile Aerodynamics," Society of Automotive Engineers, reprint No. SP-180, March 1960.