

FRICTION

The following friction data was taken from "Friction Applications in Accident Reconstruction" by Warner et al. (Society of Automotive Engineers document number: SAE 830612).

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Commonly Used Friction/Drag Values

Description of Road Surface	Dry Under 30 mph	Dry Over 30 mph	Wet Under 30 mph	Wet Over 30 mph
PORTLAND CEMENT				
New, Sharp	.80 - 1.20	.70 - 1.00	.50 - .80	.40 - .75
Travel ed	.60 - .80	.60 - .75	.45 - .70	.45 - .65
Traffi c Pol i shed	.55 - .75	.50 - .65	.45 - .65	.45 - .60
ASPHALT, TAR				
New, Sharp	.80 - 1.20	.65 - 1.00	.50 - .80	.45 - .75
Travel ed	.60 - .80	.55 - .70	.45 - .70	.40 - .65
Traffi c Pol i shed	.55 - .75	.45 - .65	.45 - .65	.40 - .60
Excess Tar	.50 - .60	.35 - .60	.30 - .60	.25 - .55
GRAVEL				
Packed, Oi led	.55 - .85	.50 - .80	.40 - .80	.40 - .60
Loose	.40 - .70	.40 - .70	.45 - .75	.45 - .75
CI NDERS				
Packed	.50 - .70	.50 - .70	.65 - .75	.65 - .75
ROCK				
Crushed	.55 - .75	.55 - .75	.55 - .75	.55 - .75
ICE				
Smooth	.10 - .25	.07 - .20	.05 - .10	.05 - .10
SNOW				
Packed	.30 - .55	.35 - .55	.30 - .60	.30 - .60
Loose	.10 - .25	.10 - .20	.30 - .60	.30 - .60

REF. (16), p. 210.

Collins Drag Table

Description of Road Surface	Automobile Tire	Truck Tire
DRY CONCRETE	.85	.65
DRY ASPHALT	.80	.60
WET CONCRETE	.70 - .80	.50
WET ASPHALT	.45 - .80	.30
PACKED SNOW	.15	.15
ICE	.05	.11 (Dry) .07 (Wet)
DRY DIRT	.65	- - -
MUD	.40 - .50	- - -
GRAVEL OR SAND	.55	- - -
WET, OILY, SMOOTH CONCRETE	- - -	.25
HARD-PACKED SNOW W/CHAINS	- - -	.60
DRY ICE W/CHAINS	- - -	.25

REF. (17), p. 171, 187.
