

### Forth Power Law

Vehicle	Curb weight and driver (at 75 kG) kG	Number of axles	Axle load kN	Axle load P <sub>0</sub> kN	Damage exponent "n"	Number of ESALs "N"	Equivalent number of vehicles
-	kG	-	kN	kN	-	-	-
<b>Compact car</b>							
Toyota Echo	1,020	2	5.00	80.00	4	1.5297E-05	65,374
Beaver	525	2	2.58			1.0736E-06	931,465
VW-CC0	365	2	1.79			2.5082E-07	3,986,873
SUV Suburban	2,704	2	13.26			7.5548E-04	1,324
Tractor-trailer	40,774	5	80.00			9.9993E-01	1
BMW X5	2,140	2	10.50			2.9638E-04	3,374
Mazda MDX	2,121	2	10.40			2.8600E-04	3,497
Hummer H2	2,984	2	14.64			1.1204E-03	893
Hummer H3	2,207	2	10.83			3.3528E-04	2,983
Mercury Sable	1,600	2	7.85			9.2614E-05	10,798
	0	2	0.00			0.0000E+00	#DIV/0!
ESALs = Equivalent Standard Axle Loads				Ref.: Author: David Cebon Title: "Handbook of Vehicle-Road Interaction" ISBN 90 265 1554 5			