

## Production cars

$C_d$	Automobile	Year
0.7 to 1.1	typical values for a Formula One car (downforce settings change for each circuit)	
0.74	Legends car	
0.7	Caterham Seven	
0.6 +	a typical truck	
0.57	Hummer H2	2003
0.54	Mercedes Benz G-Class	
0.51	Citroën 2CV	1948
0.48	Volkswagen Beetle (original design)	1938
0.48	Rover Mini	1998
0.48	Volkswagen Cabriolet (Rabbit Convertible)	1979–1993
0.47	Lancia Aprilia	1937
0.46	Ford Mustang (coupe)	1979
0.45	Range Rover Classic	1990
0.45	Dodge Viper RT/10	1996
0.44	Ford Mustang (fastback)	1979
0.44	Peugeot 305	1978
0.44	Peugeot 504	1968
0.44	Toyota Truck	1990
0.43	TVR 3000S	1978-79
0.425	Duple 425 coach (named for its low $C_d$ by coach standards)	1985
0.42	Lamborghini Countach	1974
0.42	Triumph Spitfire Mk IV	1971
0.42	Plymouth Duster	1994
0.41	Volvo 740 (sedan)	1982
0.405	Subaru Forester	1997-2002
0.40	Ford Escape Hybrid	2005
0.40	Nissan Skyline GT-R R32	1989
0.40	Chevrolet Astro	1995-2005
0.39	Honda Odyssey	1994-98
0.39	Chevrolet Tahoe	2006
0.39	Dodge Durango	2004
0.39	Ford Escort 5 Door	1981-1984
0.39	Triumph Spitfire	1964
0.385	Nissan 280ZX	1978
0.38	Lexus GX	2003

0.38	Mazda Miata	1989
0.38	Subaru Forester	2009
0.38	VW NewBeetle without wing or spoiler 0.39	2003
0.374	Ford Capri Mk III	1978
0.372	Ferrari F50	1996
0.37	BMW Z3 M coupe	1999
0.37	Jaguar XJ (X300/X308)	
0.37	Renault Twingo	
0.37	Volkswagen Tiguan	2008
0.36	Cadillac Escalade hybrid	2008
0.36	Cadillac Fleetwood	1996
0.36	Volkswagen Jetta	1985-1992
0.36	Citroën CX (named after the term for $C_d$ )	1974
0.36	Citroën DS	1955
0.36	Chrysler Sebring	1996
0.36	Ferrari Testarossa	1986
0.36	Ford Escort	1997-2002
0.36	Ford Mustang	1999
0.36	Honda Civic	2001–2005
0.36	Opel GT	1969
0.36	Subaru Impreza WRX	2010
0.36	Saturn SW	1996-2001
0.36	Toyota Celica Convertible	1994-1999
0.355	NSU Ro 80	1967
0.35	Aston Martin Vanquish	2004
0.35	BMW Z4 M coupe	2006
0.35	BMW M3 Convertible	2005
0.35	Dodge Viper GTS	1996
0.35	Honda Del Sol	1992–1997
0.35	Jaguar XKR	2005
0.35	Lexus GX	2010
0.35	Lexus RX	2003–2009
0.35	MINI Cooper	2008
0.35	Nissan Cube	2009
0.35	Renault Clio (Mk 2)	2002
0.35	SSC Ultimate Aero	2007–present

0.35	Tesla Roadster	2008
0.35	Toyota MR-2	1998
0.35	Toyota Sequoia	2007
0.35	Toyota Previa	1991-1997
0.35	Volvo 940 (sedan)	1990
0.348	Toyota Celica Supra (Mk 2)	1982
0.342	Toyota Celica (Liftback Model)	1982
0.34	Subaru Impreza WRX (4 Door)	2009
0.34	Aston Martin DB9	2004
0.34	Chevrolet Caprice	1994
0.34	Chevrolet Tahoe hybrid	2008
0.34	Ferrari F40	1987
0.34	Ferrari 360 Modena	1999
0.34	Ferrari F430 F1	2004
0.34	Ford Sierra	1982
0.34	Ford Puma	1997
0.34	Geo Metro (Hatchback)	1995-1997
0.34	Honda Prelude	1988
0.34	Mercedes-Benz SL (Roof Down)	2001
0.34	Nissan Altima	1993-1997
0.34	Peugeot 106	1991
0.34	Saturn SL2	1991-1995
0.34	Subaru Legacy Wagon	1993-1999
0.34	Toyota Supra (with factory 3 piece turbo wing)	1989–1990
0.34	Toyota Corolla (Wagon)	1993-1997
0.338	Chevrolet Camaro	1995
0.33	Audi A3	2006
0.33	Acura Integra	1993-2001
0.33	Citroën SM	1970
0.33	Honda Civic Hatchback	1988-1991
0.33	Dodge Charger	2006
0.33	Ford Crown Victoria	1992
0.33	Ford Fusion	2010
0.33	Ford Escort ZX2	1998-2003
0.33	Honda Accord Sedan	2002
0.33	Lamborghini Murcielago	2001

0.33	Lexus RX	2010
0.33	Mazda RX-7 FC3C	1987
0.33	Nissan 200SX Coupe	1995-1998
0.33	Peugeot 206	1998
0.33	Peugeot 309	1986
0.33	Renault Modus	2004
0.33	Subaru Impreza WRX STi	2004
0.33	Saturn SL2	1999
0.33	Toyota Corolla	1993-1997
0.33	Toyota Supra (without wing)	1989–1990
0.324	Cobalt SS Supercharged	2005
0.321	Toyota Matrix	2003-2008
0.32	Volkswagen Golf MK3	1991
0.32	AMC Pacer	1975–1980
0.32	Ferrari California	2008
0.32	Buick Riviera	1995
0.32	BMW M3 Coupe	2005
0.32	Dodge Avenger	1995
0.32	Ford Taurus	1992-1995
0.32	Geo Metro (Sedan)	1995-1997
0.32	Honda Accord (Coupe)	2002
0.32	Honda NSX	1990
0.32	Honda Civic (Coupe)	1992-1995
0.32	Honda Civic (Hatchback DX)	1996-2000
0.32	Honda Civic (Sedan EX)	1996-2000
0.32	Mazdaspeed3	2007
0.32	McLaren F1	1992
0.32	Mercedes-Benz 190E 2.5-16/2.3-16	
0.32	Nissan Altima	1998-2001
0.32	Nissan 240SX Coupe	1995-1998
0.32	Nissan 300ZX	1989
0.32	Nissan Maxima	1997
0.32	Porsche 997 GT2	2008–present
0.32	Peugeot 406	1995
0.32	Peugeot 806	1994
0.32	Scion xB	2008
0.32	Suzuki Swift	1991

0.32	Toyota Celica	1994
0.32	Toyota Celica	2000-2005
0.32	Toyota Supra (N/A with wing and turbo models)	1993
0.32	Toyota Supra (with factory turbo wing)	1987–1988
0.32	Toyota Tercel Sedan	1995-2000
0.32	Volkswagen GTI Mk V	2006

**Production cars (continued)**

<b>C<sub>d</sub></b>	<b>Automobile</b>	<b>Year</b>
0.315	Saturn SL1	1996-1999
0.31	Audi A4 B5	1995
0.31	BMW 7-series	2009
0.31	Buick Park Avenue	1996
0.31	Cadillac CTS-V	2005
0.31	Chevrolet C6 Corvette Z06	2005–present
0.31	Citroën AX	1986
0.31	Citroën GS	1970
0.31	Eagle Vision	1995
0.31	FIAT Coupé	1995
0.31	Ford Falcon	1995
0.31	Ford Thunderbird	1989-1997
0.304	Ford Probe	1988-1992
0.31	Holden Commodore	1998
0.31	Honda Civic (Sedan)	2006
0.31	Honda Civic (Hatchback)	1992-1995
0.31	Kia Rio (Sedan)	2001
0.310	Lamborghini Diablo	1990
0.31	Lexus LFA (wing retracted)	2010
0.31	Mazda RX-7 FC3S	1986
0.31	Mazda RX-7 FD R1(R2)	1993
0.31	Mazda RX-8	2004
0.31	Mazda MX-6	1992–1997
0.31	Nissan Tiida / Versa	2004
0.31	Peugeot 307	2001
0.31	Porsche 997 Turbo/GT3	2006
0.31	Renault 25	1984
0.31	Saab Sonett III	1970

0.31	Saturn SC2	2001
0.31	Scion xA	2004
0.31	Toyota Avalon	1995–2000
0.31	Toyota Corolla	1998-2002
0.32	Toyota Paseo	1995-1999
0.31	Toyota RAV4	2006
0.31	Toyota Supra (N/A; without factory wing)	1993
0.31	Volkswagen GTI Mk IV	1997
0.30	Audi 100	1983
0.30	Ford Taurus	1996-1999
0.30	Honda Accord Sedan	2003, 2005–2007
0.30	Honda NSX	2002
0.30	Honda CRX DX/Si <sup>[46]</sup>	1988
0.30	Honda Odyssey	2005
0.30	Hyundai Sonata	2006
0.30	Koenigsegg CCX	2006
0.30	Mitsubishi Eclipse	2000
0.30	Nissan 180SX	1989
0.30	Nissan 300ZX	1983
0.30	Nissan 350Z Coupe Base and Enthusiast models	2003–2008
0.30	Nissan 370Z Coupe (0.29 with sport package)	2009
0.30	Renault 19 16V	1991
0.30	Saab 92	1947
0.30	Toyota Sienna	2003–2009
0.30	Toyota Corolla	2003-2008
0.295	Ford Falcon	1998
0.291	Toyota Avalon	2005
0.29	Alfa Romeo 155	1992
0.29	BMW 1-Series (116i Sportshatch)	2008
0.29	Pontiac Firebird Trans Am (with optional W62 Aero Package and N89 Turbo Cast rims)	1984
0.29	BMW 8-Series	1989
0.29	Chevrolet Corvette	2005
0.29	Chevrolet Corvette C5 Z06	2002
0.29	Daewoo Espero	1990
0.29	Dodge Charger Daytona	1969
0.29	Eagle Talon	1990s
0.29	Ford Escape	2010

0.29	Ford Focus C-Max	2003 <sup>[50]</sup>
0.29	Honda Accord Hybrid	2005, 2007
0.29	Honda Accord Coupe	2003, 2005–2007
0.29	Honda CRX HF <sup>[46]</sup>	1988
0.29	Infiniti G35 Sedan	2008
0.29	Lancia Dedra	1990
0.29	Lexus LS 400	1990
0.29	Lotus Elite	1958
0.29	Lotus Europa	1966
0.29	Mazda Millenia	1995
0.29	Mazda RX-7 FC3S Aero Package	1986
0.29	Mazda 3	2010
0.29	Mazda RX-7 FD	1993
0.29	Mercedes-Benz SL (Roof Up)	2001
0.29	Mercedes-Benz W203 C-Class Coupe	2001
0.29	Nissan 350Z Coupe Track and Grand Touring	2007–2008
0.29	Nissan Versa	2007–2008
0.29	Peugeot 308	2007
0.29	Peugeot 407	2004
0.29	Peugeot 607	1999
0.29	Porsche Boxster	2005
0.29	Subaru XT	1985
0.29	Subaru SVX	1992
0.29	Toyota Echo	2000-2005
0.29	Toyota Yaris	2007
0.29	Toyota Camry	1996–2001
0.29	Toyota Prius	2001
0.29	Volvo C70	2000
0.288	Chrysler Concorde	1998–2001
0.286	Chevrolet Corvette C6	2006
0.284	Volkswagen Passat CC	2008
0.28	Audi A2 1.4 TDI	2000
0.28	Citroën XM	1989
0.28	Citroën C4	2004
0.28	Lexus IS	2006
0.28	Mitsubishi Diamante	1995
0.28	Porsche 997 Carrera (with optional automatic spoiler, PDK transmission 0.30)	2004
0.28	Renault 25 TS	1984

0.28	Honda Civic Hybrid	2003-2005
0.28	Rumpler-Tropfenwagen	1921
0.28	Saab 9-3	2003
0.28	Toyota Camry / Lexus ES	2001
0.28	Opel Astra Coupe Turbo	2003
0.28	Opel Omega sedan	1986
0.27	Nissan GTR	2008
0.27	Mazda Mazda6	2009
0.27	Audi A2 1.6 FSI	2003
0.27	Honda Civic Hybrid	2006-
0.27	Hyundai Genesis	2009
0.27	Infiniti G35 Coupe (0.26 with "aero package")	2003–2007
0.27	Lexus GS	2005
0.27	Mazda6 (sedan and hatchback) <sup>[53]</sup>	2008
0.27	Mercedes-Benz W203 C-Class Sedan	2001
0.27	Nissan GT-R	2008
0.27	Toyota Camry Hybrid	2007
0.27	Tucker Torpedo	1948
0.27	Volkswagen Passat B5 (sedan)	1997
0.27	Mercedes-Benz S Class (0.268 with Sport Package)	2000–2005
0.27	Opel Insignia	2008–present
0.26	Opel Insignia - EcoFlex	2009–present
0.26	BMW E90 (0.26-0.30)	2009
0.26	Chevrolet Volt	2010
0.26	Hotchkiss Gregoire	1951
0.26	Lexus LS 430 (0.25 with air suspension)	2001–2006
0.26	Lexus LS 460	2006
0.26	Mercedes-Benz W221 S-Class	2006
0.26	Mercedes-Benz W211 E-Class	2002-09
0.26	Opel Calibra (8 valve version)	1989
0.26	Toyota Prius	2004–2009
0.25	Audi A2 1.2 TDI	2001
0.25	Honda Insight	1999, 2003, 2005
0.25	Toyota Prius	2010
0.24	Mercedes E 220 CDI Blue Efficiency European version only, other E-Class Coupe 0.28 (0.25 sedan)(	2009



0.212	Tatra T77a	1935
0.195	General Motors EV1	1996

### Concept/experimental cars

$C_d$	Automobile	Year
0.39	Porsche 918 Concept	2010
0.301	Chevrolet Volt (0.43 w/ a 30% reduction)	2010
0.27	Avion <sup>[59]</sup>	1986
0.26	Alfa Romeo Disco Volante	1952
0.25	Dymaxion Car	1933
0.25	SmILE (an experimental car)	1996
0.22	Citroën ECO 2000 Concept	1981
0.22	BMW Vision EfficientDynamics Concept	2009
0.20	Loremo Concept	2006 2009 (Planned production)
0.20	Opel Eco Speedster Concept	2003
0.19	Alfa Romeo B.A.T. 7 Concept	1954
0.19	Dodge Intrepid ESX Concept	1995
0.19	Mercedes-Benz Bionic Concept (based on the boxfish)	2005
0.186	Schlör's Göttinger Ei	1939
0.168	Daihatsu UFE-III Concept	2005
0.16	General Motors Precept Concept (5 seats)	2000
0.159	Volkswagen 1-litre car Concept	2002 2010 (Planned production)
0.15	Aptera 2 Series 2e	2011 (Planned production)
0.147	JCB Dieselmax land speed record holder	2006
0.146	Urbee Production vehicle	2010
0.14	Fiat Turbina Concept	1954
0.137	Ford Probe V Concept	1985
0.125	Sunracer, solar race car	1987
0.12	Reflex 1000, solar cycle	1996
0.117	Summers Brothers Goldenrod Bonneville race car	1965
0.08	Fortis Saxonia (Shell Eco-marathon) Concept	2007
0.075	PAC-Car II (Shell Eco-marathon) Concept	2005
0.07	Nuna, World Solar Challenge winner	2001–2007