Tables for F1

sdsander

July 2023

Table 1: 2019 COTA F1 Driver Home Country Counts

Country	Number of Drivers
Australia	3
Belgium	3
Canada	2
Denmark	2
Finland	4
France	3
Germany	5
Italy	1
Mexico	1
Monaco	3
Poland	1
Russia	2
Spain	3
Switzerland	2
UK	10

Table 2: 2019 COTA Indy Car Driver Home Country Counts

Country	Number of Drivers
Australia	3
Brazil	3
Canada	1
France	2
Japan	1
Mexico	2
New Zealand	3
Sweden	4
UAE	1
UK	2
US	20

Table 3: 2019 COTA F1 Car Engine Counts

Ferrari	Honda	Mercedes	Renault
12	11	11	11

Table 4: 2019 COTA Indy Car Engine Counts

Chevrolet	Honda
15	27

Table 5: 2019 COTA F1 Car Chassis Counts

Alfa Romeo Racing	Ferrari	Haas	McLaren	Mercedes	Racing Point
2	6	4	6	6	3
Reb Bull Racing	Red Bull Racing	Renault	Scuderia Toro Rosso	Williams	
3	3	5	5	2	

Table 6: 2019 COTA Indy Car Chassis Count

Dallara
42

Table 7: Linear and Polynomial Regression Models without Driver Fixed Effects

	Dependent variable:			
	average_speed			
	(1)	(2)	(3)	(4)
F1	16.530***	16.337***	16.328***	16.316***
	(0.255)	(0.208)	(0.211)	(0.218)
Round 2		1.048***	1.049***	1.048***
		(0.236)	(0.237)	(0.239)
Round 3		1.809***	1.806***	1.809***
		(0.283)	(0.285)	(0.287)
Races			0.0004	0.001
			(0.001)	(0.004)
$Races^2$				−0.00000
				(0.00002)
Constant	115.247***	114.690***	114.648***	114.622***
	(0.184)	(0.173)	(0.208)	(0.235)
Observations	87	87	87	87
R^2	0.980	0.987	0.987	0.987
Adjusted R^2	0.980	0.987	0.987	0.987
Residual Std. Error	1.190 (df = 85)	0.962 (df = 83)	0.967 (df = 82)	0.972 (df = 81)
F Statistic	4,193.910*** (df = 1; 85)	2,154.598*** (df = 3; 83)	1,599.066*** (df = 4; 82)	1,264.589*** (df = 5; 81)
Note:				*p<0.1; **p<0.05; ***p<0.01

Table 8: Linear Regression with Driver Fixed Effects

	Dependent variable:
	average_speed
F1	16.851***
	(0.557)
Round 2	0.445**
	(0.186)
Round 3	0.979***
	(0.229)
Driver Fixed Effects	Yes
Constant	115.302***
	(0.411)
Observations	87
R^2	0.997
Adjusted R^2	0.993
Residual Std. Error	0.683 (df = 41)
F Statistic	287.956*** (df = 45; 41)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 9: Mixed Effects Model with Engine and Chassis Effects

	Dependent variable:
	average_speed
F1	16.257***
	(0.741)
Round 2	0.941***
	(0.217)
Round 3	1.557***
	(0.265)
Races	0.003
	(0.004)
$Races^2$	−0.00001
	(0.00002)
Nested Engine Manufacturer Effects	Yes
Nested Chassis Manufacturer Effects	Yes
Constant	114.604***
	(0.722)
Observations	87
Log Likelihood	−134.026
Akaike Inf. Crit.	286.051
Bayesian Inf. Crit.	308.244
Note:	*p<0.1; **p<0.05; ***p<0.01