

Each individual
driver's pit times fro..

Each team's
performance in pit ti..

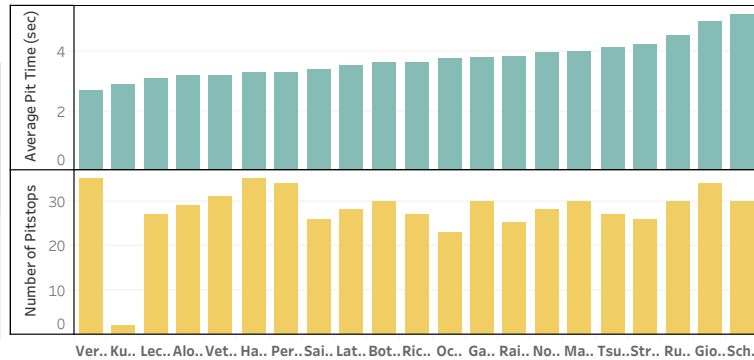
Data sourced from inmotion.dhl
Created by Lawrence Nieto
Uploaded Oct. 2022
<https://github.com/LawrenceTN>
<https://www.linkedin.com/in/lawrencenieto/>

Formula 1 Drivers Pitstop Times (2021-2022)

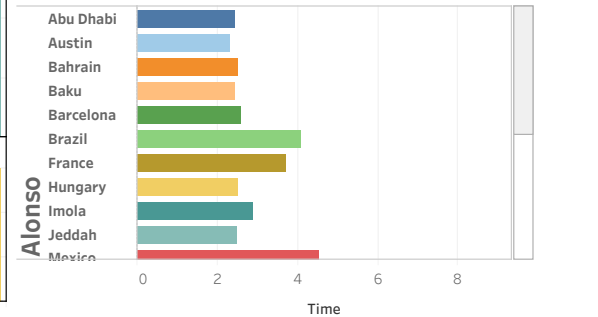
Between each season, the FIA, the governing body of F1, alters the rules and the constraints of the competition that forces each team to build a new car each season. One of the highlighted changes that were implemented this year was the 18-inch tire regulation. In the 2021 season, the regulation size of the tire was 13-inches. With this massive change, I was interested to see how this would affect each team's pitstop crew's performance regarding their time. With a 38% increase in size, I hypothesized that each team would see an increase in time in their pitstops as they adjust to the larger-sized tire.

2021 Drivers

Driver (2021)	Average Pit Time ..	Number of Pits
Verstappen	2.66	35
Kubica	2.87	2
Leclerc	3.09	27
Alonso	3.2	29
Vettel	3.21	31
Hamilton	3.28	35
Perez	3.29	34
Sainz	3.4	26
Latifi	3.51	28
Bottas	3.65	30
Ricciardo	3.66	27
Gasly	3.77	22

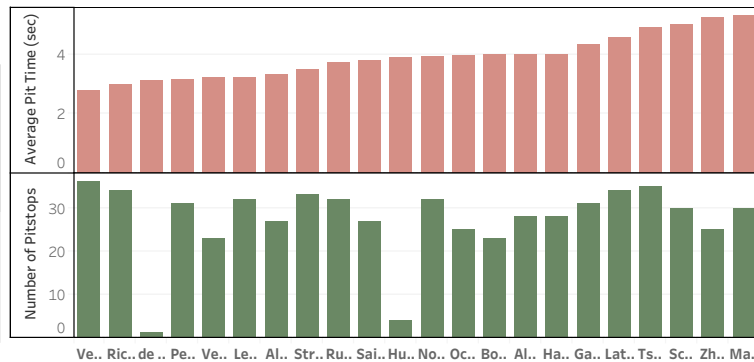


2021 Average Pit Time per Race

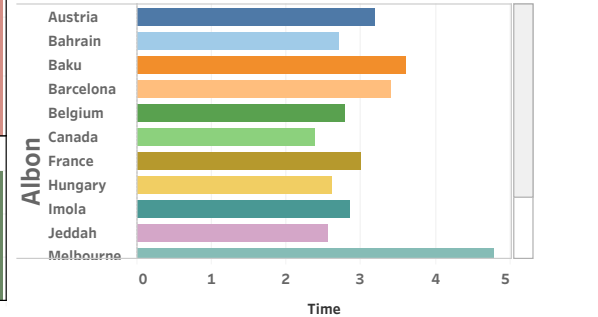


2022 Drivers

Driver (2022)	Average Pit Time (..	Number of Pitstops
Verstappen	2.80	36
Ricciardo	3.00	34
de Vries	3.10	1
Perez	3.15	31
Vettel	3.22	23
Leclerc	3.24	32
Alonso	3.30	27
Stroll	3.45	33
Russell	3.72	32
Sainz	3.79	27
Hulkenberg	3.87	4
Norris	3.91	22



2022 Average Pit Time per Race



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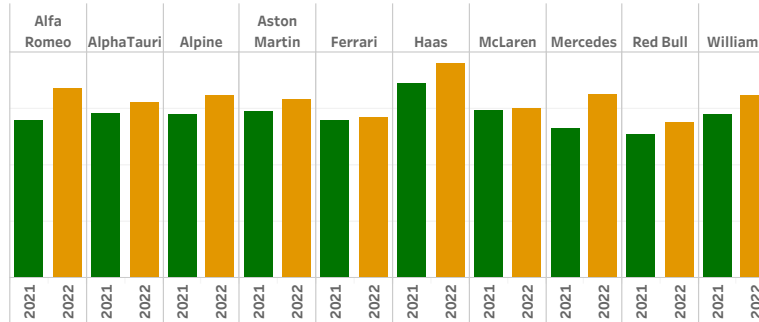
F1 Team Pitstop Times (2021-2022)

Between each season, the FIA, the governing body of F1, alters the rules and the constraints of the competition that forces each team to build a new car each season. One of the highlighted changes that were implemented this year was the 18-inch tire regulation. In the 2021 season, the regulation size of the tire was 13-inches. With this massive change, I was interested to see how this would affect each team's pitstop crew's performance regarding their time. With a 38% increase in size, I predicted that each team would see an increase in time in their pitstops as they adjust to the larger-sized tire.

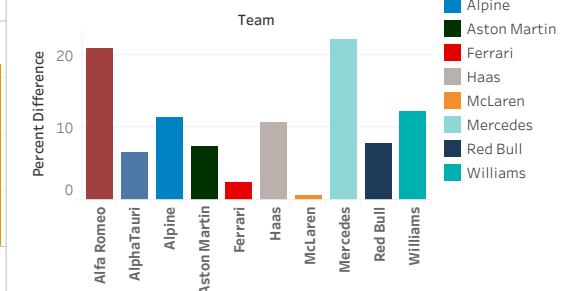
2021-2022 Team Average Pitstop Time without Outliers

Team	2021	2022	Difference	Percent Difference
Alfa Romeo	2.78	3.36	0.58	20.86
AlphaTauri	2.90	3.09	0.19	6.55
Alpine	2.89	3.22	0.33	11.42
Aston Martin	2.94	3.16	0.22	7.48
Ferrari	2.78	2.85	0.07	2.52
Haas	3.43	3.80	0.37	10.79
McLaren	2.97	2.99	0.02	0.67
Mercedes	2.66	3.25	0.59	22.18
Red Bull	2.55	2.75	0.20	7.84

Average Time (sec) without Outliers (2021 vs 2022)



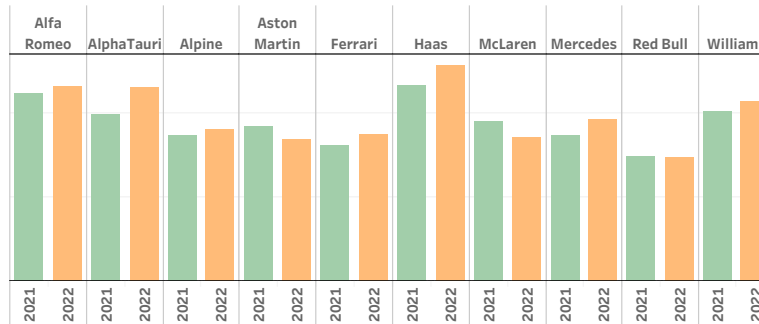
Percent Difference between 2021 and 2022 without Outliers



2021-2022 Team Average Pitstop Time with Outliers

Team	2021	2022	Difference	Percent Difference
Alfa Romeo	4.47	4.64	0.17	3.80
AlphaTauri	3.97	4.62	0.65	16.37
Alpine	3.45	3.61	0.16	4.64
Aston Martin	3.69	3.39	-0.30	-8.13
Ferrari	3.24	3.49	0.25	7.72
Haas	4.65	5.15	0.50	10.75
McLaren	3.81	3.44	-0.37	-9.71
Mercedes	3.45	3.85	0.40	11.59
Red Bull	2.97	2.96	-0.01	-0.34

Average Time (sec) with Outliers (2021 vs 2022)



Percent Difference between 2021 and 2022 with Outliers

