### Emilia Romagna Grand Prix, 2021

### **Forecasting Lewis Hamilton's Next 5 Lap Times** Nathan Jones 2022

Name of Variable = time				
Period(s) of Differencing 1,1				
Mean of Working Series	-0.76351			
Standard Deviation	29.44907			
Number of Observations	61			
Observation(s) eliminated by differencing	2			

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	46.54	6	<.0001	-0.620	0.111	0.255	-0.402	0.267	-0.121
12	46.69	12	<.0001	0.035	-0.017	0.019	-0.005	-0.006	0.013

Variance Estimate	867.8304
Std Error Estimate	29.45896
AIC	585.8363
SBC	585.8363
Number of Residuals	61

#### \* AIC and SBC do not include log determinant.

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	46.47	6	<.0001	-0.620	0.111	0.255	-0.401	0.267	-0.121
12	46.62	12	<.0001	0.035	-0.017	0.019	-0.005	-0.006	0.013
18	46.66	18	0.0002	-0.010	-0.003	0.010	-0.012	0.012	-0.007
24	49.44	24	0.0017	-0.004	0.016	0.003	-0.046	0.103	-0.119

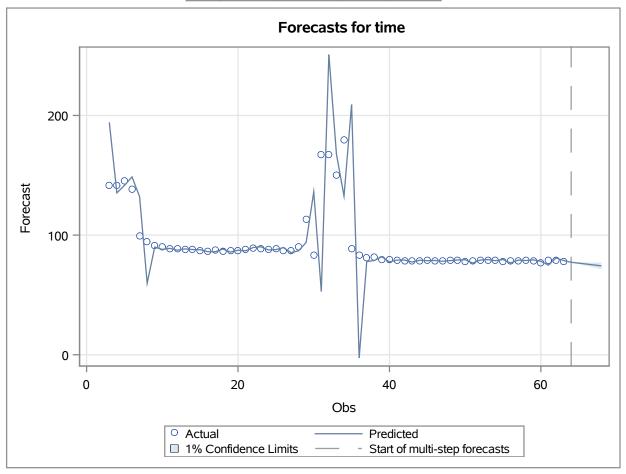
Model for variable time				
Period(s) of Differencing	1,1			

No mean term in this model.

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Forecasts for variable time							
Obs	Forecast	Std Error	1% Confidence Limits				
64	77.2890	29.4590	76.9198	77.6582			
65	76.5400	65.8722	75.7144	77.3656			
66	75.7910	110.2253	74.4095	77.1725			
67	75.0420	161.3534	73.0197	77.0643			
68	74.2930	218.4735	71.5548	77.0312			



Outlier Detection Summary				
Maximum number searched	2			
Number found	2			
Significance used	0.05			

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Outlier Details							
Obs	Туре	Estimate	Chi-Square	Approx Prob>ChiSq			
34	Additive	62.37800	5237.23	<.0001			
30	Additive	-60.77683	4971.82	<.0001			