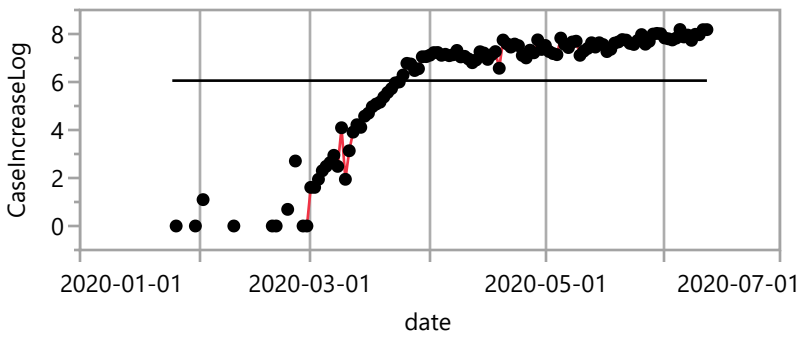
Time Series CaseIncreaseLog



Mean	6.0573937
Std	2.3872088
N	114
Zero Mean ADF	0.8209779
Single Mean ADF	-3.471114
Trend ADF	-3.225744

Time Series Basic Diagnostics

Lag	AutoCorr	-.8 -.6 -.4 -.2 0 .2 .4 .6 .8	Ljung-Box Q	p-Value
0	1.0000		.	.
1	0.6284		46.2067	<.0001*
2	0.6418		94.8349	<.0001*
3	0.5946		136.961	<.0001*
4	0.6113		181.890	<.0001*
5	0.6245		229.208	<.0001*
6	0.5334		264.047	<.0001*
7	0.5806		305.706	<.0001*
8	0.6111		352.301	<.0001*
9	0.5223		386.660	<.0001*
10	0.5929		431.353	<.0001*
11	0.5213		466.248	<.0001*
12	0.4121		488.265	<.0001*
13	0.3956		508.758	<.0001*
14	0.4041		530.356	<.0001*
15	0.4003		551.758	<.0001*
16	0.3426		567.594	<.0001*
17	0.2785		578.167	<.0001*
18	0.3636		596.377	<.0001*
19	0.3562		614.034	<.0001*
20	0.3124		627.762	<.0001*
21	0.2880		639.554	<.0001*
22	0.2486		648.440	<.0001*
23	0.1839		653.354	<.0001*
24	0.2376		661.653	<.0001*
25	0.2001		667.599	<.0001*

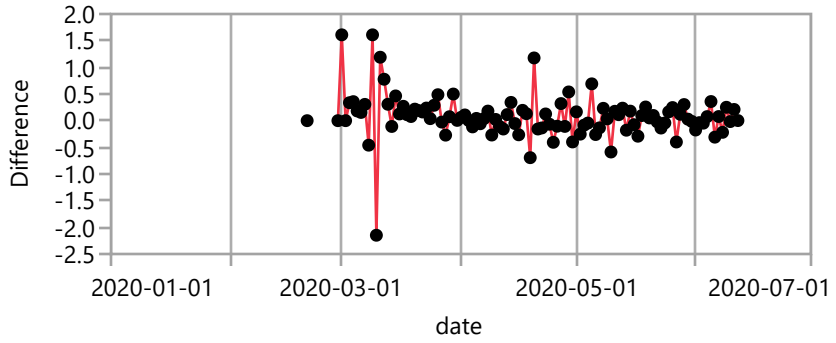
Lag	Partial	-.8	-.6	-.4	-.2	0	.2	.4	.6	.8
0	1.0000									
1	0.6284									
2	0.4080									
3	0.1973									
4	0.2048									
5	0.2063									
6	-0.0435									
7	0.1149									
8	0.2034									
9	-0.0916									
10	0.1464									
11	0.0063									
12	-0.3459									
13	-0.1548									
14	0.0595									
15	-0.1197									
16	-0.0727									
17	-0.0559									
18	0.0361									
19	0.1675									
20	0.1187									
21	0.0235									
22	0.0575									
23	-0.1343									
24	0.0779									
25	0.0402									

Time Series CaseIncreaseLog

Model Comparison

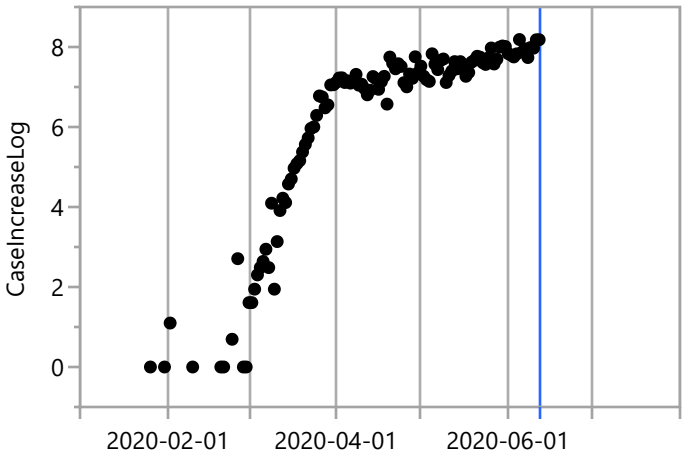
Report	Graph		Model	DF	Variance	AIC	SBC	RSquare	-2LogLH	Weights
☑	☐		ARI(1, 1)	104	0.1441364	97.671952	102.99883	0.976	93.671952	0.934554
☑	☐		ARI(20, 1)	85	0.1270273	104.14000	160.07222	0.981	62.139996	0.036820
☑	☐		ARI(14, 1)	91	0.1368762	104.64346	144.59505	0.979	74.643464	0.028626

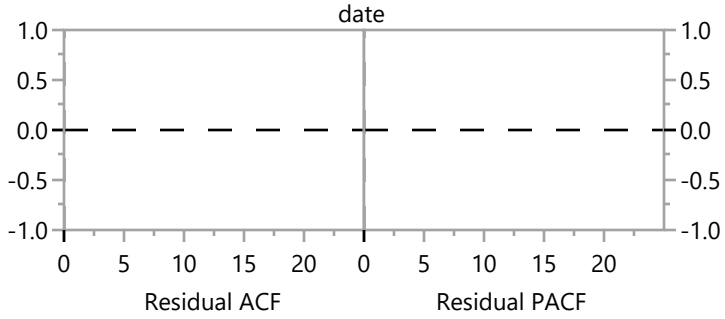
Difference: (1-B)^1



Mean	0.0771887
Std	0.4159142
N	106
Zero Mean ADF	-15.12105
Single Mean ADF	-15.94364
Trend ADF	-17.01925

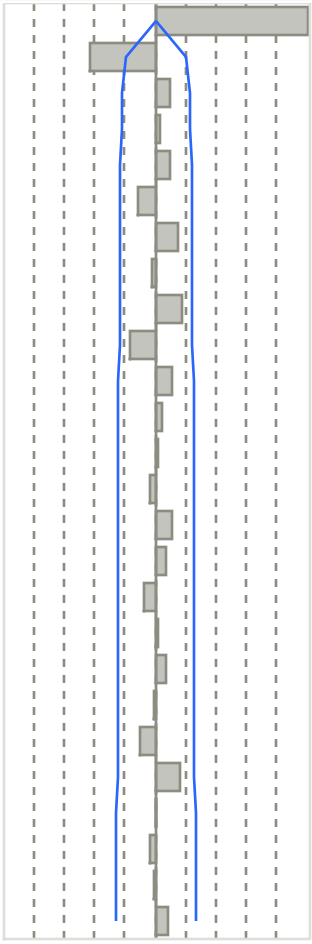
.2 .4 .6 .8	MAPE	MAE
	.	0.237163
	.	0.218043
	.	0.227585





Time Series CaseIncreaseLog

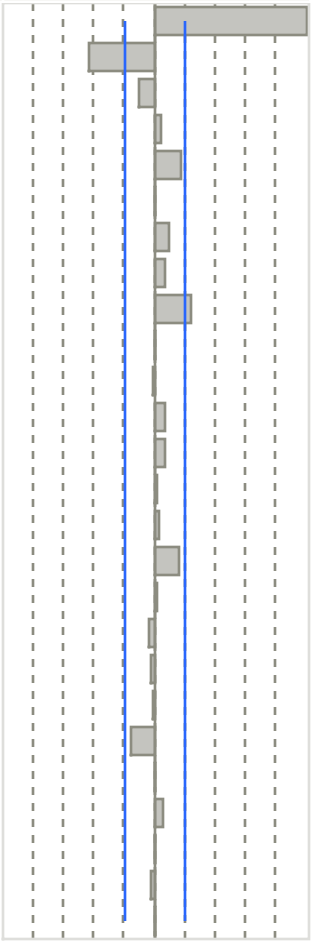
Difference: (1-B)^1

Lag	AutoCorr	-.8 -.6 -.4 -.2 0 .2 .4 .6 .8	Ljung-Box Q	p-Value
0	1.0000		.	.
1	-0.4270		19.8782	<.0001*
2	0.1029		21.0442	<.0001*
3	0.0334		21.1678	<.0001*
4	0.0956		22.1927	0.0002*
5	-0.1069		23.4871	0.0003*
6	0.1461		25.9314	0.0002*
7	-0.0210		25.9824	0.0005*
8	0.1780		29.6836	0.0002*
9	-0.1582		32.6368	0.0002*
10	0.1065		33.9904	0.0002*
11	0.0526		34.3238	0.0003*
12	0.0216		34.3805	0.0006*
13	-0.0279		34.4763	0.0010*
14	0.1125		36.0523	0.0010*
15	0.0738		36.7381	0.0014*
16	-0.0678		37.3228	0.0019*
17	0.0191		37.3698	0.0030*
18	0.0704		38.0145	0.0039*
19	-0.0064		38.0199	0.0059*
20	-0.0980		39.2991	0.0061*
21	0.1618		42.8233	0.0033*
22	0.0059		42.8280	0.0050*
23	-0.0273		42.9305	0.0071*
24	-0.0116		42.9491	0.0101*
25	0.0859		43.9922	0.0109*

Model: ARI(20, 1)

Model Summary

DF	85	Stable	Yes
Sum of Squared Errors	10.7973172	Invertible	Yes
Variance Estimate	0.12702726		
Standard Deviation	0.35640884		
Akaike's 'A' Information Criterion	104.139996		
Schwarz's Bayesian Criterion	160.072217		
RSquare	0.98068663		
RSquare Adj	0.97648808		
MAPE	.		
MAE	0.21804309		
-2LogLikelihood	62.139996		

Lag	Partial	-.8 -.6 -.4 -.2 0 .2 .4 .6 .8
0	1.0000	
1	-0.4270	
2	-0.0971	
3	0.0495	
4	0.1730	
5	0.0010	
6	0.1018	
7	0.0785	
8	0.2491	
9	0.0095	
10	-0.0130	
11	0.0747	
12	0.0755	
13	0.0227	
14	0.0349	
15	0.1612	
16	0.0146	
17	-0.0325	
18	-0.0201	
19	-0.0066	
20	-0.1468	
21	0.0045	
22	0.0563	
23	0.0036	
24	-0.0258	
25	0.0068	

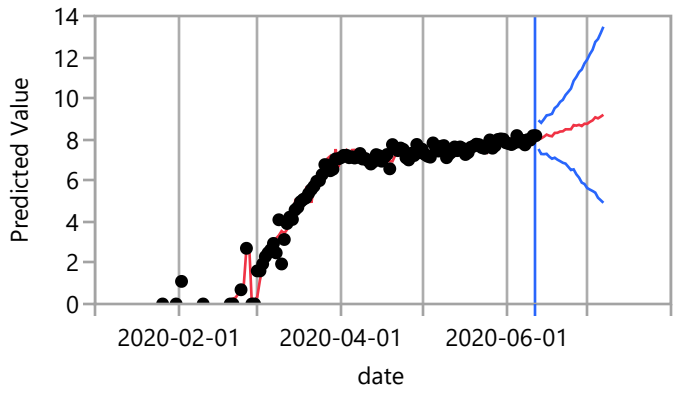
Time Series CaseIncreaseLog

Model: ARI(20, 1)

Parameter Estimates

Term	Lag	Estimate	Std Error	t Ratio	Prob>|t|	Constant Estimate	Mu
AR1	1	-0.5785053	0.0917364	-6.31	<.0001*	0.02092414	0.25252603
AR2	2	-0.2129937	0.1091890	-1.95	0.0544		
AR3	3	-0.0335371	0.1136334	-0.30	0.7686		
AR4	4	0.0290866	0.1147851	0.25	0.8006		
AR5	5	0.0264414	0.1114953	0.24	0.8131		
AR6	6	0.1757144	0.1110775	1.58	0.1174		
AR7	7	0.1809534	0.1140349	1.59	0.1163		
AR8	8	0.2556063	0.1118075	2.29	0.0247*		
AR9	9	0.0791233	0.1139661	0.69	0.4894		
AR10	10	0.1724234	0.1281755	1.35	0.1821		
AR11	11	0.2788228	0.1327713	2.10	0.0387*		
AR12	12	0.2679933	0.1307228	2.05	0.0434*		
AR13	13	0.2518015	0.1263203	1.99	0.0494*		
AR14	14	0.3088668	0.1162126	2.66	0.0094*		
AR15	15	0.2683974	0.1171638	2.29	0.0245*		
AR16	16	0.0829834	0.1207485	0.69	0.4938		
AR17	17	-0.0431203	0.1228670	-0.35	0.7265		
AR18	18	-0.0784065	0.1222014	-0.64	0.5228		
AR19	19	-0.1586928	0.1459050	-1.09	0.2798		
AR20	20	-0.3558178	0.1267164	-2.81	0.0062*		
Intercept	0	0.2525260	0.1630974	1.55	0.1253		

Forecast



Time Series CaseIncreaseLog

Model: ARI(14, 1)

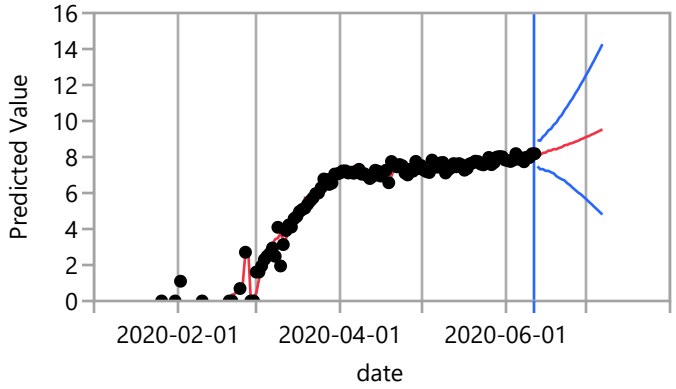
Model Summary

DF	91	Stable	Yes
Sum of Squared Errors	12.4557342	Invertible	Yes
Variance Estimate	0.1368762		
Standard Deviation	0.36996784		
Akaike's 'A' Information Criterion	104.643464		
Schwarz's Bayesian Criterion	144.59505		
RSquare	0.9794743		
RSquare Adj	0.97654205		
MAPE	.		
MAE	0.22758455		
-2LogLikelihood	74.643464		

Parameter Estimates

Term	Lag	Estimate	Std Error	t Ratio	Prob>|t|	Constant Estimate	Mu
AR1	1	-0.5529755	0.0964120	-5.74	<.0001*	0.0248806	0.34271157
AR2	2	-0.1716563	0.1117681	-1.54	0.1281		
AR3	3	0.0389356	0.1136295	0.34	0.7326		
AR4	4	0.1010460	0.1168326	0.86	0.3894		
AR5	5	0.0283639	0.1162431	0.24	0.8078		
AR6	6	0.1794313	0.1169485	1.53	0.1284		
AR7	7	0.2601576	0.1168773	2.23	0.0285*		
AR8	8	0.3247427	0.1124805	2.89	0.0049*		
AR9	9	0.0802479	0.1113568	0.72	0.4730		
AR10	10	0.1156620	0.1193860	0.97	0.3352		
AR11	11	0.1844629	0.1254465	1.47	0.1449		
AR12	12	0.1637635	0.1284168	1.28	0.2055		
AR13	13	0.1000975	0.1256446	0.80	0.4277		
AR14	14	0.0751218	0.1051792	0.71	0.4769		
Intercept	0	0.3427116	0.2147797	1.60	0.1140		

Forecast



Time Series CaseIncreaseLog

Model: ARI(1, 1)

Model Summary

DF	104	Stable	Yes
Sum of Squared Errors	14.990183	Invertible	Yes
Variance Estimate	0.14413638		
Standard Deviation	0.37965297		
Akaike's 'A' Information Criterion	97.6719516		
Schwarz's Bayesian Criterion	102.99883		
RSquare	0.97553015		
RSquare Adj	0.9753097		
MAPE	.		
MAE	0.23716256		
-2LogLikelihood	93.6719516		

Parameter Estimates

Term	Lag	Estimate	Std Error	t Ratio	Prob>|t|	Constant Estimate	Mu
AR1	1	-0.4234418	0.0872822	-4.85	<.0001*	0.11102155	0.07799514
Intercept	0	0.0779951	0.0257955	3.02	0.0031*		

Forecast