Input Data Set				
Name WORK.PREPROCESSEDDATA				
Time ID Variable Date_of_death				

## Imputed: Gender=Female

	Estimation Span Summary								
Variable									Standard Deviation
count	Dependent	JAN2000	SEP2019	237	0	1.00000	12.00000	4.55274	2.75603

	Forecast Span Summary								
Variable	Variable Type First Obs Last Obs NObs NMiss Min Max Mean Deviation								
count	Dependent	JAN2000	SEP2019	237	0	1.00000	12.00000	4.55274	2.75603

Preliminary Estimates of the Free Parameters					
Component Parameter Estimate					
Irregular	Error Variance	6.05094			
Level	Error Variance	2.26910			
Season	Error Variance	6.80790			

Likelihood Based Fit Statistic	Likelihood Based Fit Statistics				
Statistic	Value				
Full Log Likelihood	-554				
Diffuse Part of Log Likelihood	-2.485				
Non-Missing Observations Used	237				
Estimated Parameters	3				
Initialized Diffuse State Elements	12				
Normalized Residual Sum of Squares	225				
AIC (smaller is better)	1114				
BIC (smaller is better)	1124.3				
AICC (smaller is better)	1114.2				
HQIC (smaller is better)	1118.2				
CAIC (smaller is better)	1127.3				

Likelihood Optimization Algorithm Converged in 13 Iterations.

Final Estimates of the Free Parameters							
Component Parameter Estimate Approx Std Error t Value Pr >  t							
Irregular	Error Variance	6.42721	0.62425	10.30	<.0001		
Level	Error Variance	0.02079	0.01724	1.21	0.2279		
Season	Error Variance	0.00000179	0.0006364	0.00	0.9978		

Fit Statistics Based on Residuals					
Mean Squared Error 8.06520					
Root Mean Squared Error	2.83993				
Number of non-missing residuals used for computing the	fit statistics = 225				

Fit Statistics Based on Residuals			
Mean Absolute Percentage Error	69.12461		
Maximum Percent Error	85.19251		
R-Square	-0.07412		
Adjusted R-Square	-0.08380		
Random Walk R-Square	0.43058		
Amemiya's Adjusted R-Square	-0.10315		
Number of non-missing residuals used for computing the fit statistics = 225			

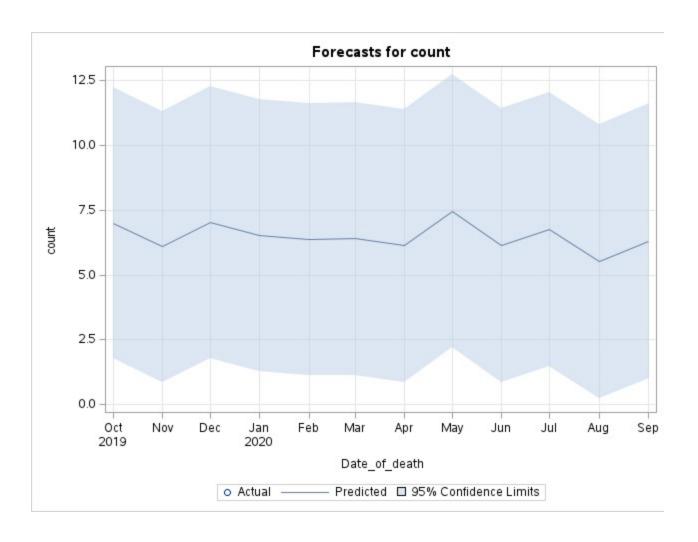
Significance Analysis of Components (Based on the Final State)							
Component DF Chi-Square Pr > ChiSq							
Irregular	1	0.16	0.6935				
Level	1	117.82	<.0001				
Season	11	9.04	0.6185				

Trend Information (Based on the Final State)				
Name Estimate Err				
Level	6.479428774	0.5969254		

Summary of Seasons						
Name	Name Type Season Length Error Variance					
Season DUMMY 12 0.00000						

	Outlier Summary							
Obs	Date_of_death	Break Type	Estimate	Standard Error	Chi-Square	DF	Pr > ChiSq	
23	NOV2001	Additive Outlier	9.47863	2.6419739	12.87	1	0.0003	
27	MAR2002	Additive Outlier	9.08664	2.6362532	11.88	1	0.0006	
82	OCT2006	Additive Outlier	8.20799	2.6379572	9.68	1	0.0019	

	F	orecasts for	Variable co	unt			
Obs	Date_of_death	Forecast	Standard Error	95% Confid	nfidence Limits		
238	OCT2019	6.999419	2.67030	1.765720	12.233117		
239	NOV2019	6.089466	2.67376	0.848994	11.329938		
240	DEC2019	7.021741	2.67718	1.774563	12.268920		
241	JAN2020	6.528969	2.67785	1.280484	11.777455		
242	FEB2020	6.364569	2.68120	1.109507	11.619631		
243	MAR2020	6.400197	2.68453	1.138621	11.661773		
244	APR2020	6.135782	2.68782	0.867752	11.403811		
245	MAY2020	7.471406	2.69108	2.196983	12.745828		
246	JUN2020	6.156980	2.69431	0.876226	11.437733		
247	JUL2020	6.742638	2.69751	1.455613	12.029664		
248	AUG2020	5.528197	2.70068	0.234961	10.821434		
249	SEP2020	6.313782	2.70382	1.014395	11.613169		



Imputed: Gender=Male

	Estimation Span Summary								
Variable	Туре	First Obs	Last Obs	NObs	NMiss	Min	Max	Mean	Standard Deviation
count	Dependent	JAN2000	OCT2019	238	0	17.00000	132.00000	75.51261	21.78350

Forecast Span Summary									
Variable	Туре	First Obs	Last Obs	NObs	NMiss	Min	Max	Mean	Standard Deviation
count	Dependent	JAN2000	OCT2019	238	0	17.00000	132.00000	75.51261	21.78350

Preliminary Estimates of the Free Parameters				
Component Parameter Estimate				
Irregular	Error Variance	378.02172		
Level	Error Variance	141.75815		
Season	Error Variance	99.51727		

Likelihood Based Fit Statistics			
Statistic	Value		
Full Log Likelihood	-888.9		
Diffuse Part of Log Likelihood	-2.485		
Non-Missing Observations Used	238		
Estimated Parameters	3		

Likelihood Based Fit Statistics				
Statistic	Value			
Initialized Diffuse State Elements	12			
Normalized Residual Sum of Squares	226			
AIC (smaller is better)	1783.7			
BIC (smaller is better)	1794			
AICC (smaller is better)	1783.8			
HQIC (smaller is better)	1787.9			
CAIC (smaller is better)	1797			

Likelihood Optimization Algorithm Converged in 5 Iterations.

Final Estimates of the Free Parameters							
Component Parameter Estimate Approx Std Error t Value Pr >  t							
Irregular	Error Variance	94.57026	12.52180	7.55	<.0001		
Level	Error Variance	2.95699	1.26040	2.35	0.0190		
Season	Error Variance	3.17804	2.28343	1.39	0.1640		

Fit Statistics Based on Residuals			
Mean Squared Error	146.53193		
Root Mean Squared Error	12.10504		
Mean Absolute Percentage Error	13.36061		
Maximum Percent Error	36.19397		
R-Square	0.66636		
Adjusted R-Square	0.66337		
Random Walk R-Square	0.38766		
Amemiya's Adjusted R-Square	0.65738		
Number of non-missing residuals used for computing the fit statistics = 226			

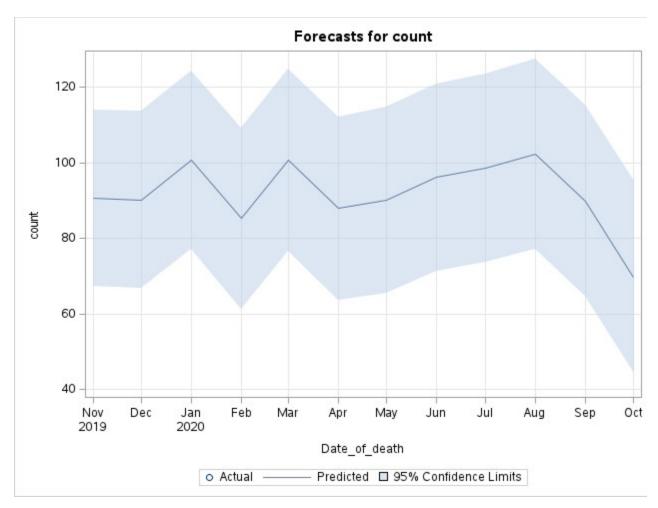
Significance Analysis of Components (Based on the Final State)						
Component DF Chi-Square Pr > ChiSq						
Irregular	1	88.06	<.0001			
Level	1	536.18	<.0001			
Season	11	49.24	<.0001			

Trend Info	Trend Information (Based on the Final State)				
Name	Estimate	Standard Error			
Level	91.91978013	3.9696595			

Summary of Seasons					
Name	Туре	Season Length	Error Variance		
Season	DUMMY	12	3.17804		

	Outlier Summary							
Obs	Date_of_death	Break Type	Estimate	Standard Error	Chi-Square	DF	Pr > ChiSq	
238	OCT2019	Additive Outlier	-79.19677	11.916503	44.17	1	<.0001	
151	JUL2012	Additive Outlier	36.36429	10.903637	11.12	1	0.0009	
166	OCT2013	Additive Outlier	33.09247	10.913577	9.19	1	0.0024	

Forecasts for Variable count								
Obs	Date_of_death	Forecast	Standard Error	95% Confidence Limits				
239	NOV2019	90.720188	11.91644	67.364402	114.075974			
240	DEC2019	90.279693	11.95772	66.842986	113.716401			
241	JAN2020	100.776033	12.06616	77.126803	124.425264			
242	FEB2020	85.271607	12.18126	61.396784	109.146430			
243	MAR2020	100.861976	12.29693	76.760443	124.963510			
244	APR2020	87.916138	12.41141	63.590219	112.242057			
245	MAY2020	90.170202	12.52404	65.623532	114.716871			
246	JUN2020	96.227195	12.63431	71.464410	120.989979			
247	JUL2020	98.646689	12.74127	73.674265	123.619112			
248	AUG2020	102.403332	12.84244	77.232612	127.574053			
249	SEP2020	90.021358	12.92938	64.680231	115.362486			
250	OCT2020	69.742949	12.96145	44.338970	95.146929			



## Imputed: Gender=Transgender

Estimation Span Summary									
Variable	Туре	First Obs	Last Obs	NObs	NMiss	Min	Max	Mean	Standard Deviation
count	Dependent	DEC2002	FEB2019	195	0	1.00000	1.00000	1.00000	0

Forecast Span Summary									
Variable	Туре	First Obs	Last Obs	NObs	NMiss	Min	Max	Mean	Standard Deviation
count	Dependent	DEC2002	FEB2019	195	0	1.00000	1.00000	1.00000	0