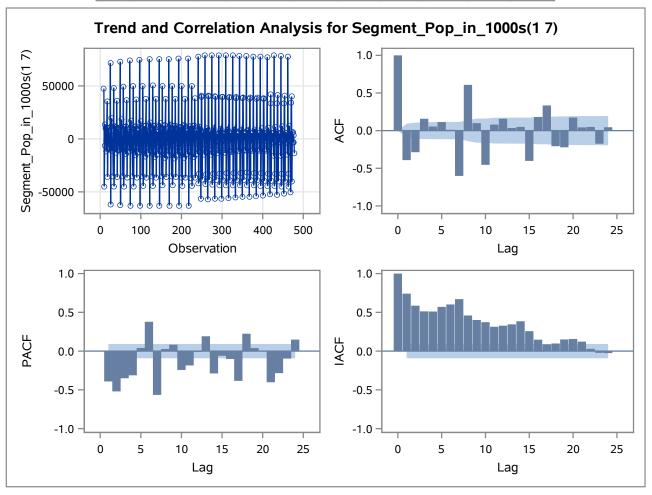
Industry_Mgmt_professional_and_R=.

Name of Variable = Segment_Pop_in_1000s					
Period(s) of Differencing 1,7					
Mean of Working Series 22.22347					
Standard Deviation 30056.59					
Number of Observations 470					
Observation(s) eliminated by differencing	8				

	Autocorrelation Check for White Noise								
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	130.90	6	<.0001	-0.392	-0.287	0.158	0.054	0.114	0.011
12	601.21	12	<.0001	-0.601	0.608	0.099	-0.454	0.080	0.158
18	773.75	18	<.0001	0.035	0.049	-0.402	0.181	0.335	-0.207
24	830.80	24	<.0001	-0.222	0.174	0.043	0.049	-0.173	0.045



Warning: The model defined by the new estimates is unstable. The iteration process has been terminated.

Warning: Estimates may not have converged.

Industry_Mgmt_professional_and_R=.

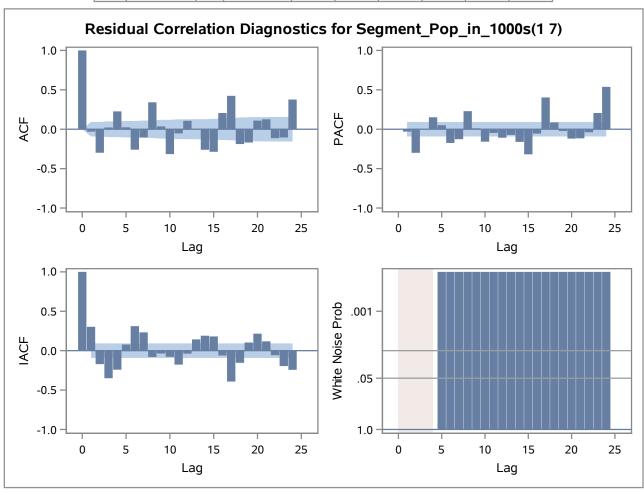
ARIMA Estimation Optimization Summary						
Estimation Method	Maximum Likelihood					
Parameters Estimated	5					
Termination Criteria	Maximum Relative Change in Estimates					
Iteration Stopping Value	0.001					
Criteria Value	40.39892					
Maximum Absolute Value of Gradient	2.5E10					
R-Square Change from Last Iteration	0.377834					
Objective Function	Log Gaussian Likelihood					
Objective Function Value	-5141.9					
Marquardt's Lambda Coefficient	0.00001					
Numerical Derivative Perturbation Delta	0.001					
Iterations	5					
Warning Message	Estimates may not have converged.					

Maximum Likelihood Estimation								
Parameter Estimate Standard t Value Pr > t La								
MU	4.11913	3.61927	1.14	0.2551	0			
MA1,1	0.90895	0.04309	21.10	<.0001	1			
MA2,1	0.99980	7.08720	0.14	0.8878	7			
AR1,1	0.12917	0.05712	2.26	0.0237	1			
AR2,1	-0.27064	0.04729	-5.72	<.0001	7			

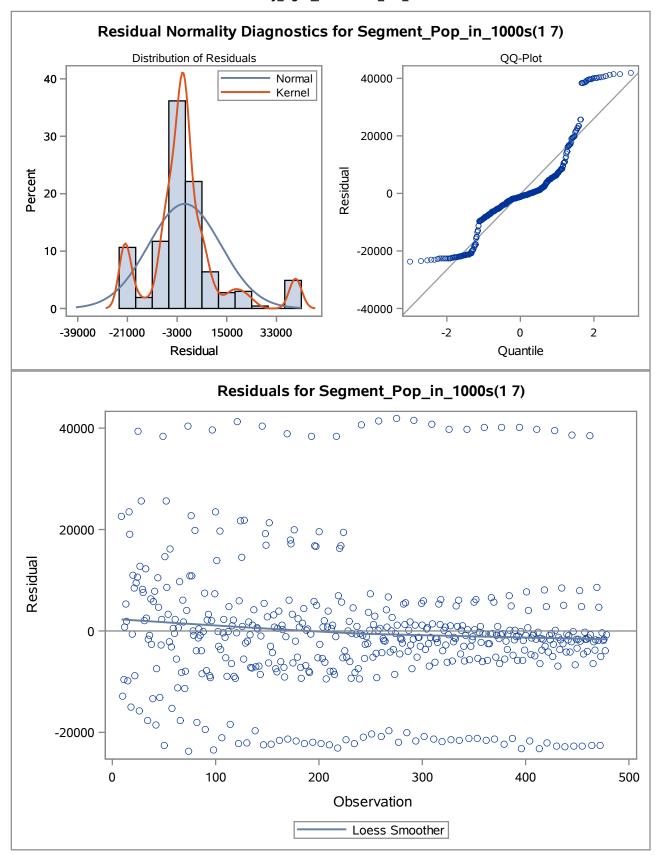
Constant Estimate	4.557877
Variance Estimate	1.7418E8
Std Error Estimate	13197.82
AIC	10293.8
SBC	10314.56
Number of Residuals	470

Correlations of Parameter Estimates								
Parameter MU MA1,1 MA2,1 AR1,1 AR2								
MU	1.000	-0.468	-0.511	-0.259	-0.181			
MA1,1	-0.468	1.000	0.018	0.577	0.204			
MA2,1	-0.511	0.018	1.000	0.103	0.276			
AR1,1	-0.259	0.577	0.103	1.000	0.327			
AR2,1	-0.181	0.204	0.276	0.327	1.000			

	Autocorrelation Check of Residuals								
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	99.50	2	<.0001	-0.030	-0.298	0.023	0.226	0.024	-0.259
12	216.21	8	<.0001	-0.104	0.342	0.036	-0.315	-0.052	0.107
18	415.26	14	<.0001	-0.001	-0.260	-0.286	0.206	0.424	-0.188
24	525.51	20	<.0001	-0.168	0.110	0.126	-0.113	-0.104	0.377
30	561.86	26	<.0001	0.098	0.016	-0.051	0.155	0.039	-0.185
36	596.15	32	<.0001	-0.084	0.013	-0.060	0.225	0.002	-0.076
42	627.63	38	<.0001	-0.071	-0.145	-0.109	0.117	-0.089	-0.040
48	700.95	44	<.0001	0.108	0.035	0.061	-0.088	-0.052	0.336



Industry_Mgmt_professional_and_R=.



Model for variable Segment_Pop_in_1000s					
Estimated Mean 4.119127					
Period(s) of Differencing	1,7				

Autoregressive Factors Factor 1: 1 - 0.12917 B**(1) Factor 2: 1 + 0.27064 B**(7)

Moving Average Factors					
Factor 1: 1 - 0.90895 B**(1)					
Factor 2: 1 - 0.9998 B**(7)					

Warning: Observation 2 is out of order according to the ID variable YEAR.

Warning: Observation 3 is out of order according to the ID variable YEAR.

Warning: Observation 4 is out of order according to the ID variable YEAR.

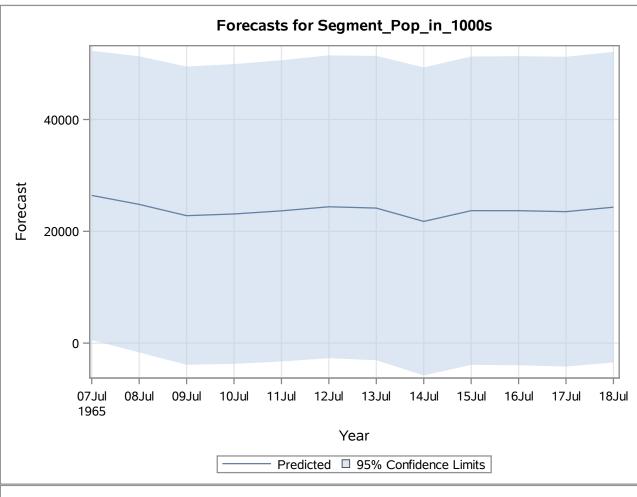
Warning: Observation 5 is out of order according to the ID variable YEAR.

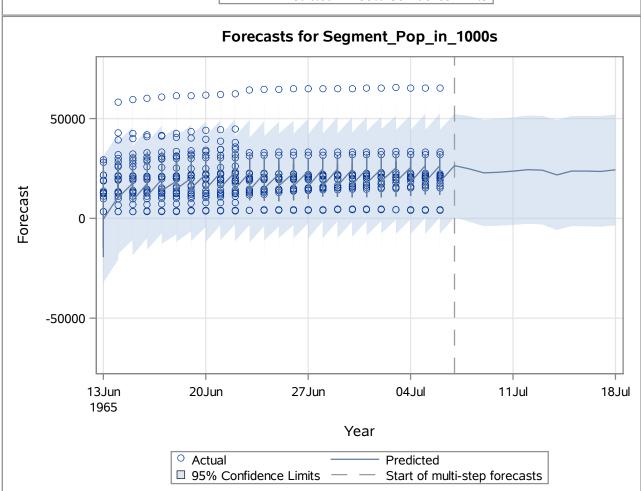
Warning: Observation 6 is out of order according to the ID variable YEAR.

Warning: Observation 7 is out of order according to the ID variable YEAR.

Note: Further warnings will not be printed.

	Forecasts for	variable Seg	ment_Pop_in	_1000s	
Obs	Forecast	Std Error	95% Confidence Limits		
479	26420.5024	13197.820	553.2513	52287.7535	
480	24817.6007	13514.041	-1669.4327	51304.6340	
481	22795.9917	13605.746	-3870.7807	49462.7641	
482	23100.0934	13678.131	-3708.5512	49908.7379	
483	23658.0263	13747.886	-3287.3354	50603.3881	
484	24389.0563	13817.003	-2691.7711	51469.8837	
485	24153.9320	13885.738	-3061.6147	51369.4786	
486	21766.4248	14057.280	-5785.3377	49318.1872	
487	23689.5877	14069.818	-3886.7497	51265.9251	
488	23687.1333	14102.081	-3952.4379	51326.7045	
489	23515.3573	14137.478	-4193.5909	51224.3056	
490	24315.0711	14173.211	-3463.9127	52094.0549	





Outlier Detection Summary					
Maximum number searched	5				
Number found	5				
Significance used	0.05				

	Outlier Details								
Obs	Туре	Estimate	Chi-Square	Approx Prob>ChiSq					
121	Additive	43428.2	38.95	<.0001					
145	Additive	43225.4	40.27	<.0001					
97	Additive	42946.5	41.78	<.0001					
73	Additive	42729.6	42.74	<.0001					
169	Additive	42389.2	44.83	<.0001					