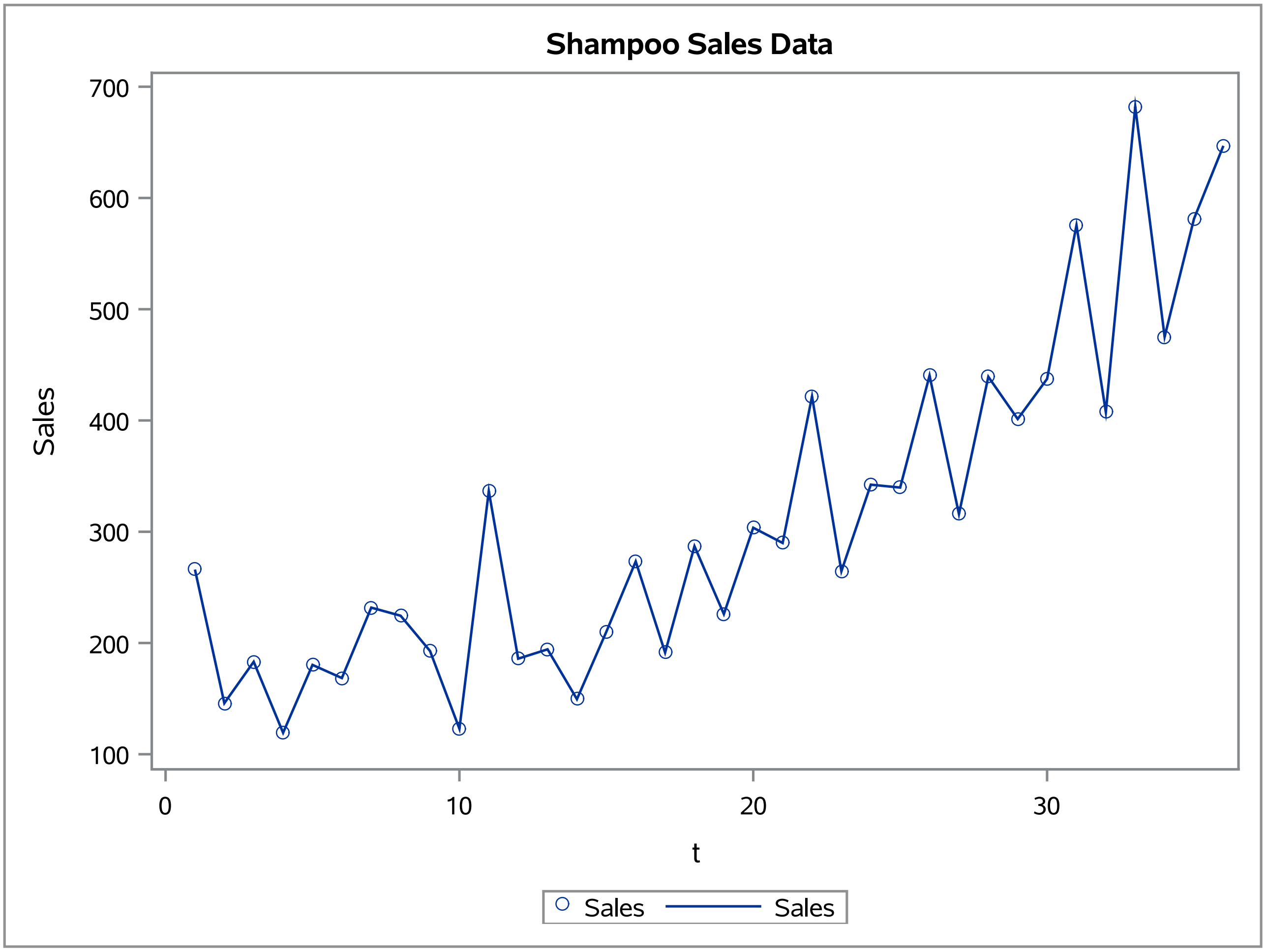
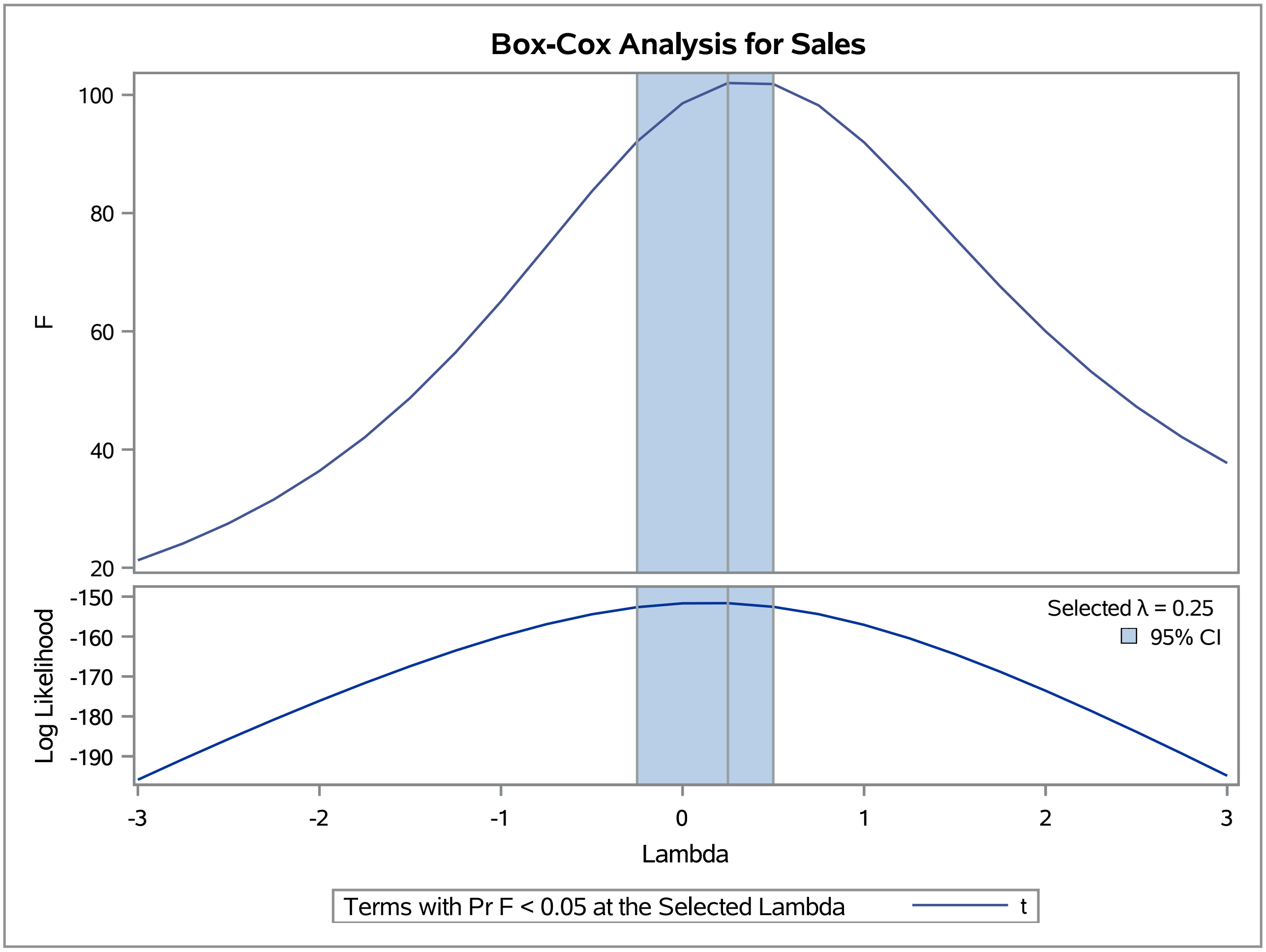
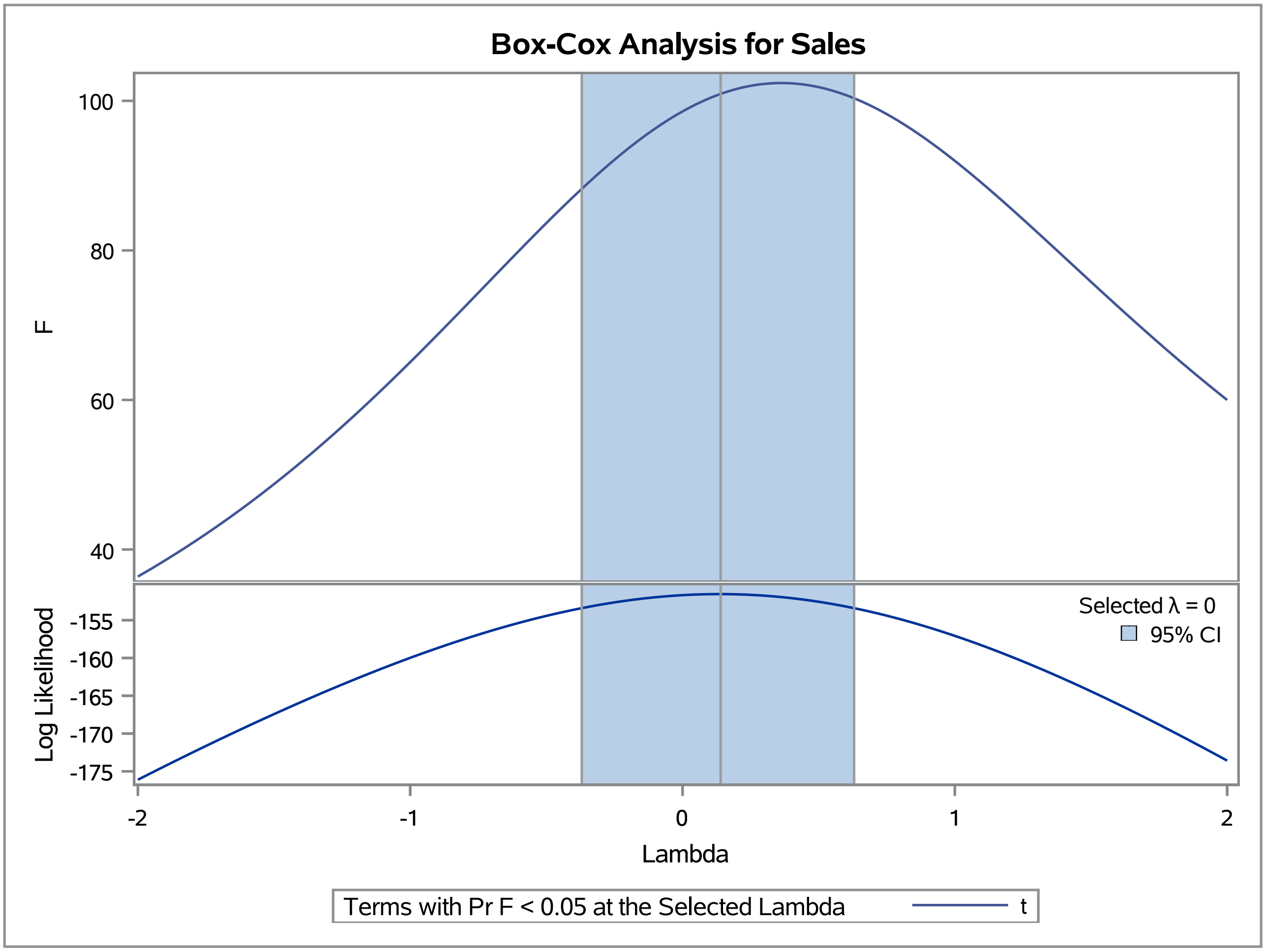

Shampoo Sales Data
Sales
700
600
500
400
300
200
100
0
10
20
30
t
Sales
Sales

Shampoo Sales Data
Defaults no graphs

The TRANSREG Procedure



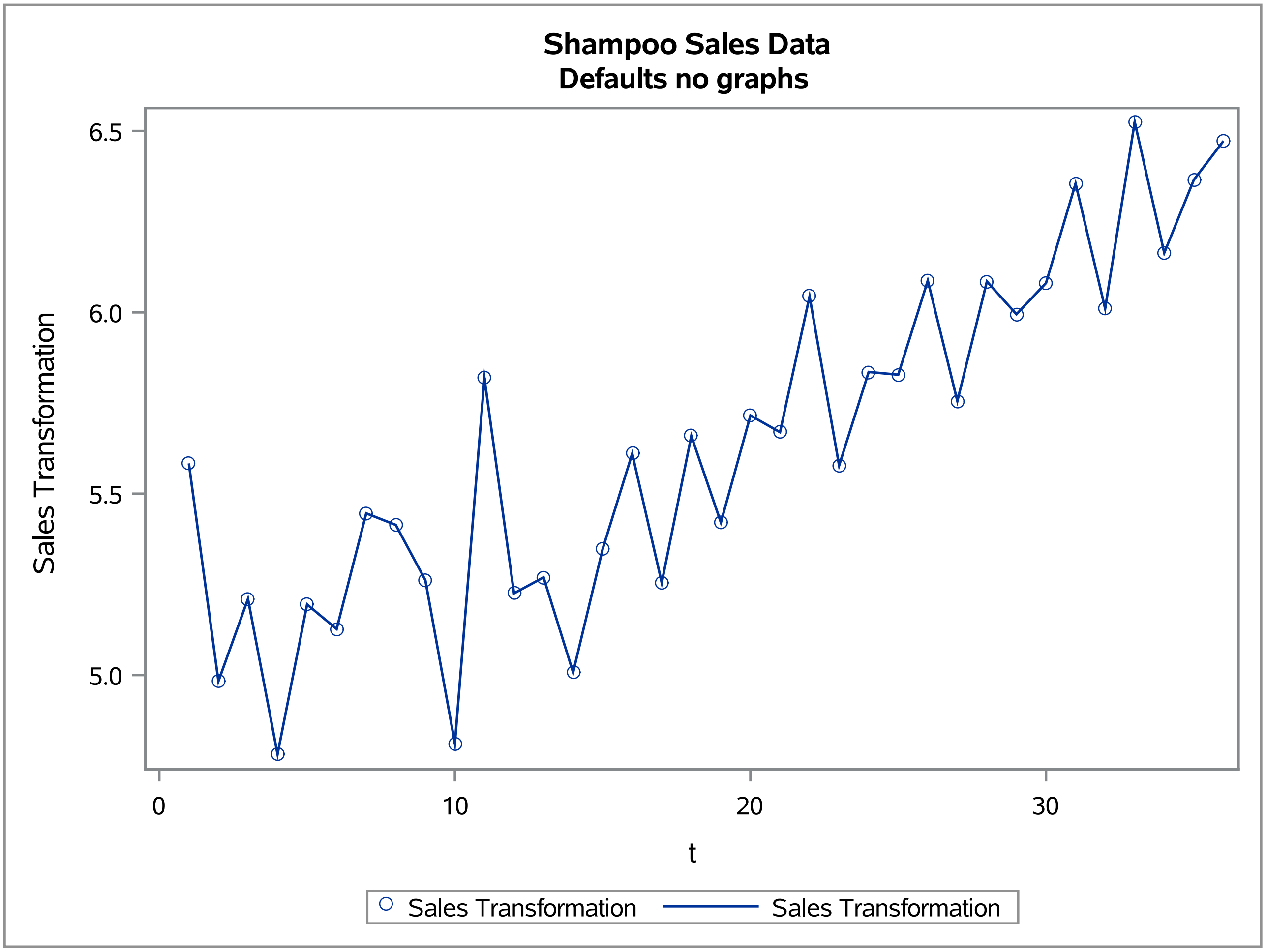
The TRANSREG Procedure



Shampoo Sales Data
Defaults no graphs

The TRANSREG Procedure

Model Statement Specification Details				
Type	**DF**	**Variable**	**Description**	**Value**
Dep	1	BoxCox(Sales)	Lambda Used	0
			Lambda	0.14
			Log Likelihood	-151.5
			Conv. Lambda	0
			Conv. Lambda LL	-151.7
			CI Limit	-153.5
			Alpha	0.05
			Options	Convenient Lambda Used
Ind	1	Identity(t)	DF	1

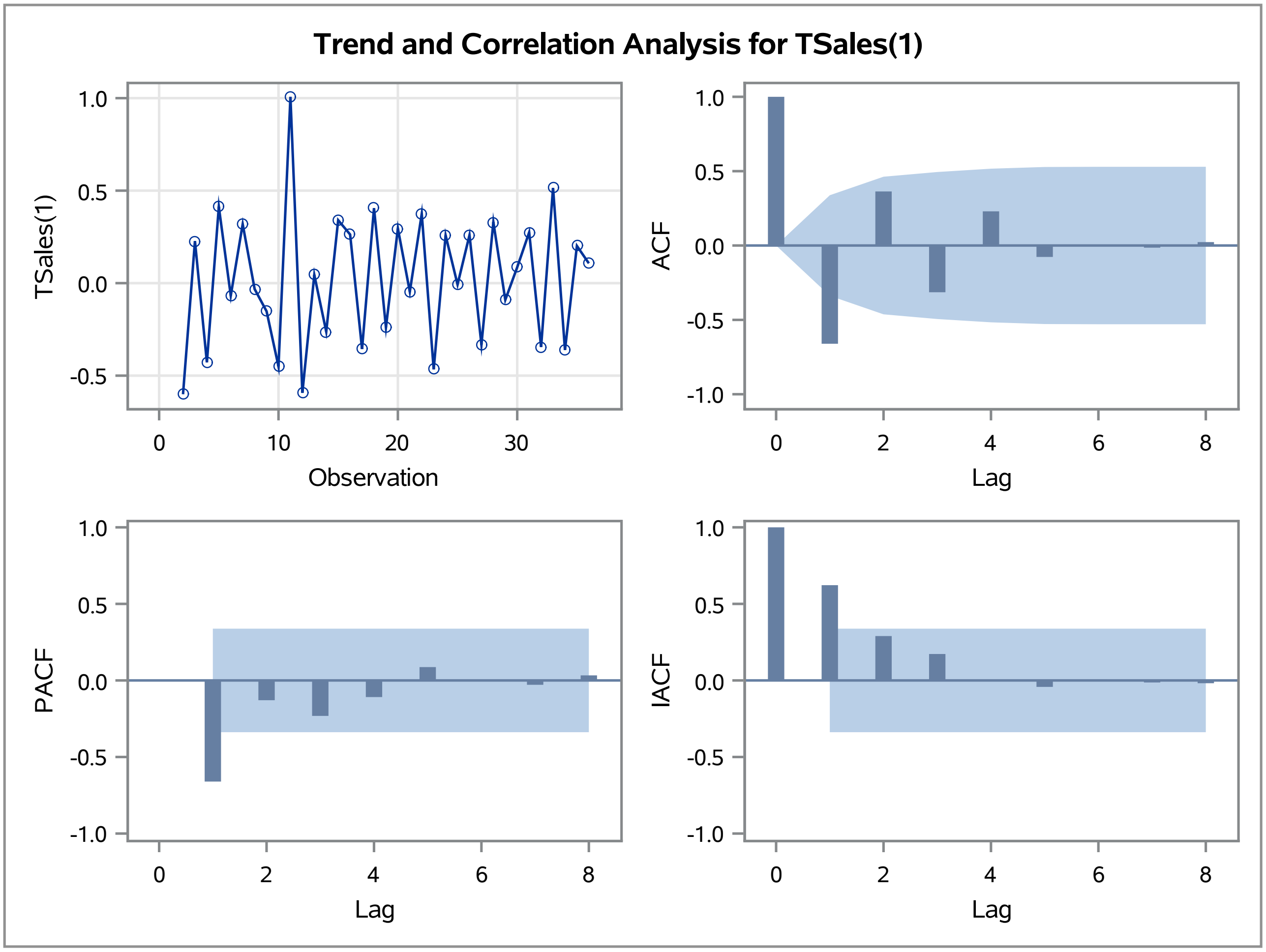

Shampoo Sales Data
Defaults no graphs
Sales Transformation
6.5
6.0
5.5
5.0
0
10
20
30
t
Sales Transformation
Sales Transformation

Shampoo Sales Data
Defaults no graphs

The ARIMA Procedure

Name of Variable = TSales	
Period(s) of Differencing	1
Mean of Working Series	0.025391
Standard Deviation	0.358748
Number of Observations	35
Observation(s) eliminated by differencing	1

Autocorrelation Check for White Noise									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	28.26	6	<.0001	-0.661	0.364	-0.314	0.230	-0.077	0.005



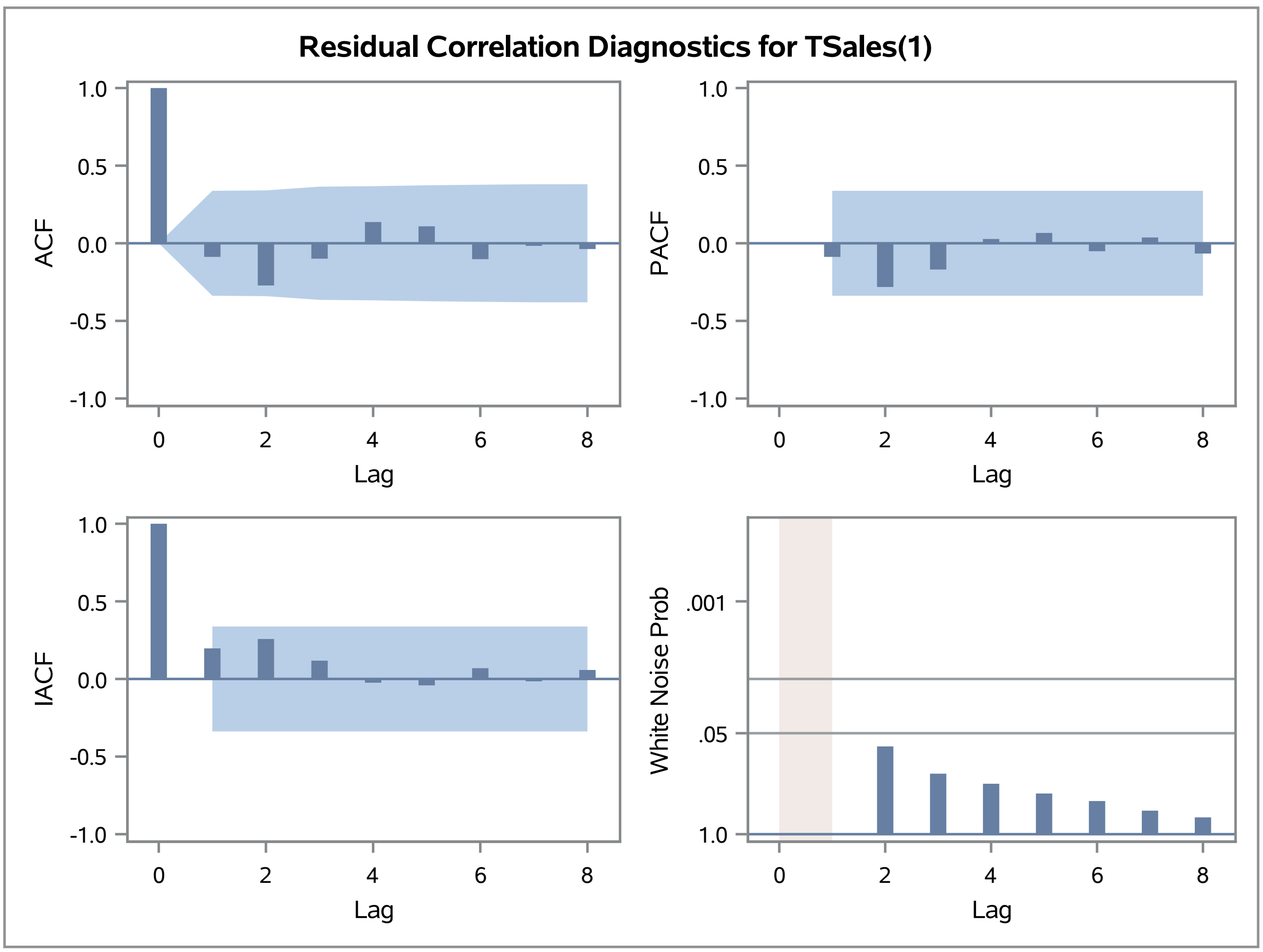
Maximum Likelihood Estimation					
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**
AR1,1	-0.68568	0.12101	-5.67	<.0001	1

Shampoo Sales Data
Defaults no graphs

The ARIMA Procedure

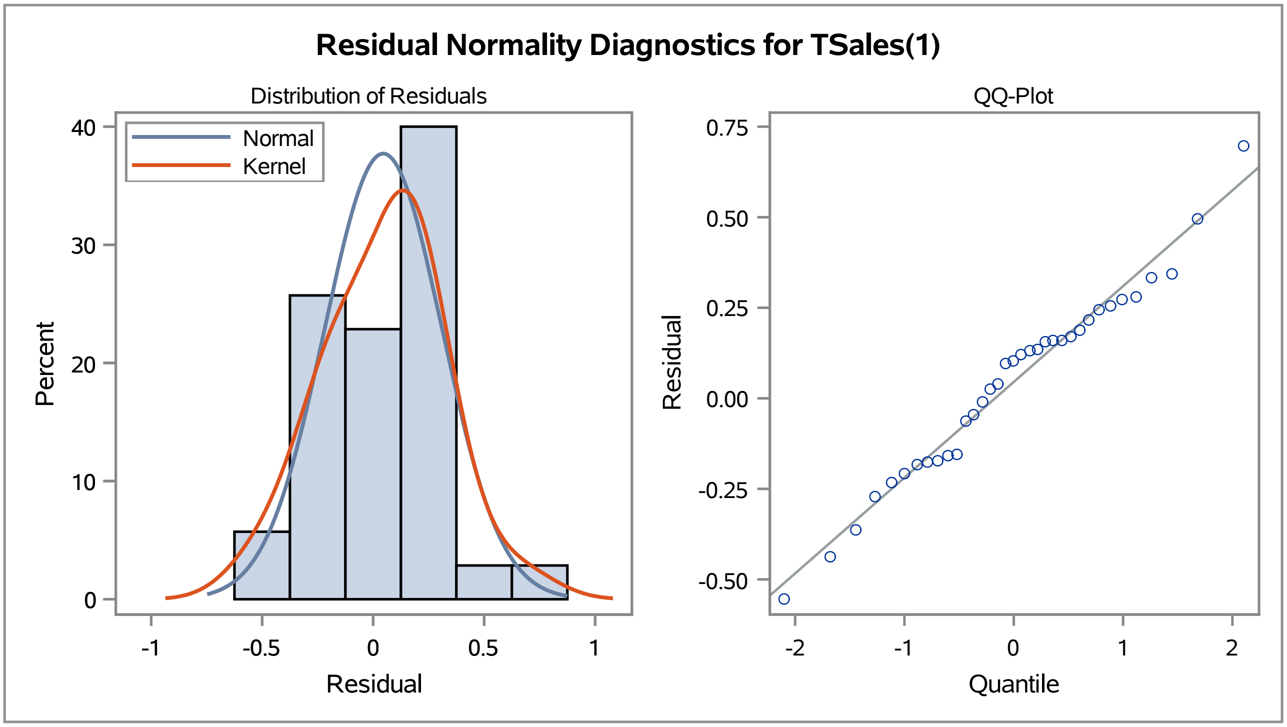
Variance Estimate	0.072033
Std Error Estimate	0.26839
AIC	8.874362
SBC	10.42971
Number of Residuals	35

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	4.54	5	0.4743	-0.051	-0.225	-0.051	0.171	0.144	-0.072
12	11.09	11	0.4357	0.009	-0.010	-0.010	0.224	0.185	-0.192
18	15.94	17	0.5284	0.019	0.079	0.174	-0.186	0.034	-0.022
24	17.87	23	0.7643	-0.050	0.063	-0.046	0.063	-0.080	-0.033



Shampoo Sales Data
Defaults no graphs

The ARIMA Procedure



Model for variable TSales	
Period(s) of Differencing	1

No mean term in this model.

Autoregressive Factors	
Factor 1:	1 + 0.68568 B**(1)

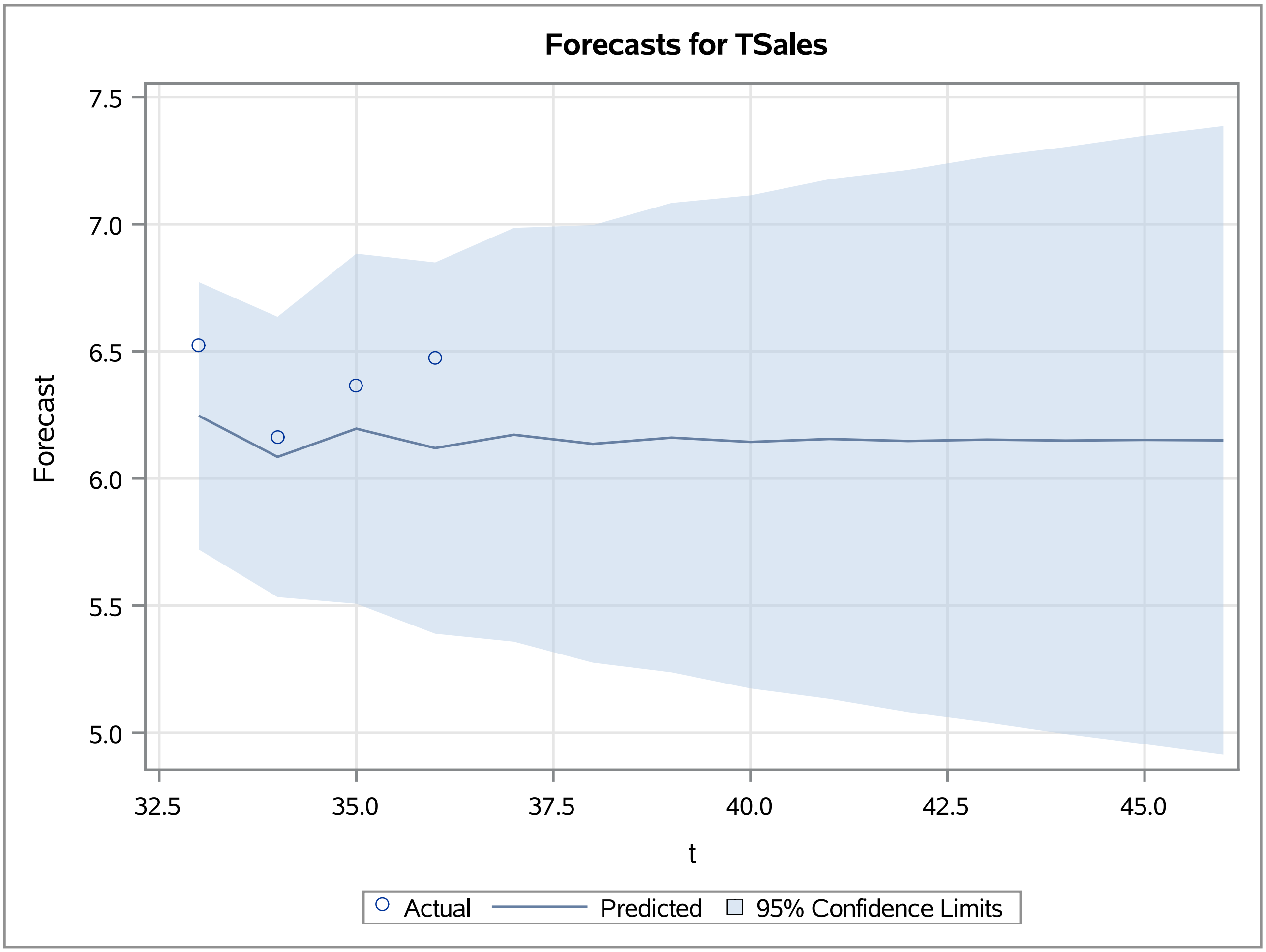
Forecasts for variable TSales

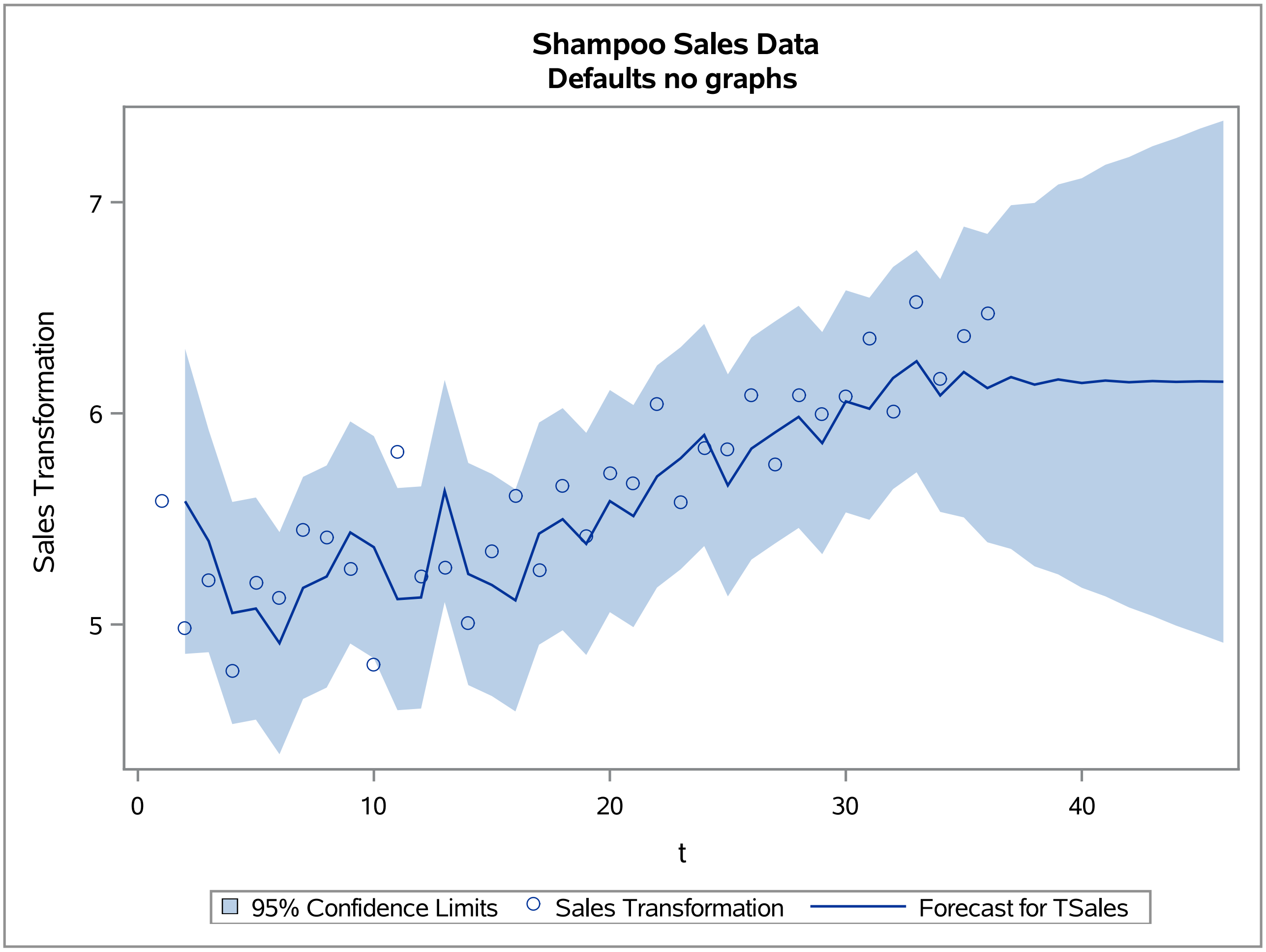
Obs	Forecast	Std Error	95% Confidence Limits		Actual	Residual
33	6.2468	0.2684	5.7208	6.7728	6.5250	0.2782
34	6.0846	0.2813	5.5332	6.6360	6.1639	0.0793
35	6.1958	0.3514	5.5071	6.8846	6.3653	0.1694
36	6.1196	0.3726	5.3892	6.8499	6.4722	0.3526
37	6.1719	0.4153	5.3579	6.9859	.	.
38	6.1360	0.4391	5.2753	6.9967	.	.
39	6.1606	0.4711	5.2373	7.0839	.	.
40	6.1437	0.4948	5.1739	7.1136	.	.
41	6.1553	0.5215	5.1332	7.1774	.	.
42	6.1474	0.5442	5.0808	7.2140	.	.
43	6.1528	0.5677	5.0401	7.2655	.	.

Shampoo Sales Data
Defaults no graphs

The ARIMA Procedure

Forecasts for variable TSales						
Obs	Forecast	Std Error	95% Confidence Limits		Actual	Residual
44	6.1491	0.5891	4.9944	7.3038	.	.
45	6.1516	0.6106	4.9549	7.3484	.	.
46	6.1499	0.6308	4.9135	7.3862	.	.





Shampoo Sales Data
Defaults no graphs
Sales Transformation
7
6
5
0
10
20
30
40
t
95% Confidence Limits
Sales Transformation
Forecast for TSales