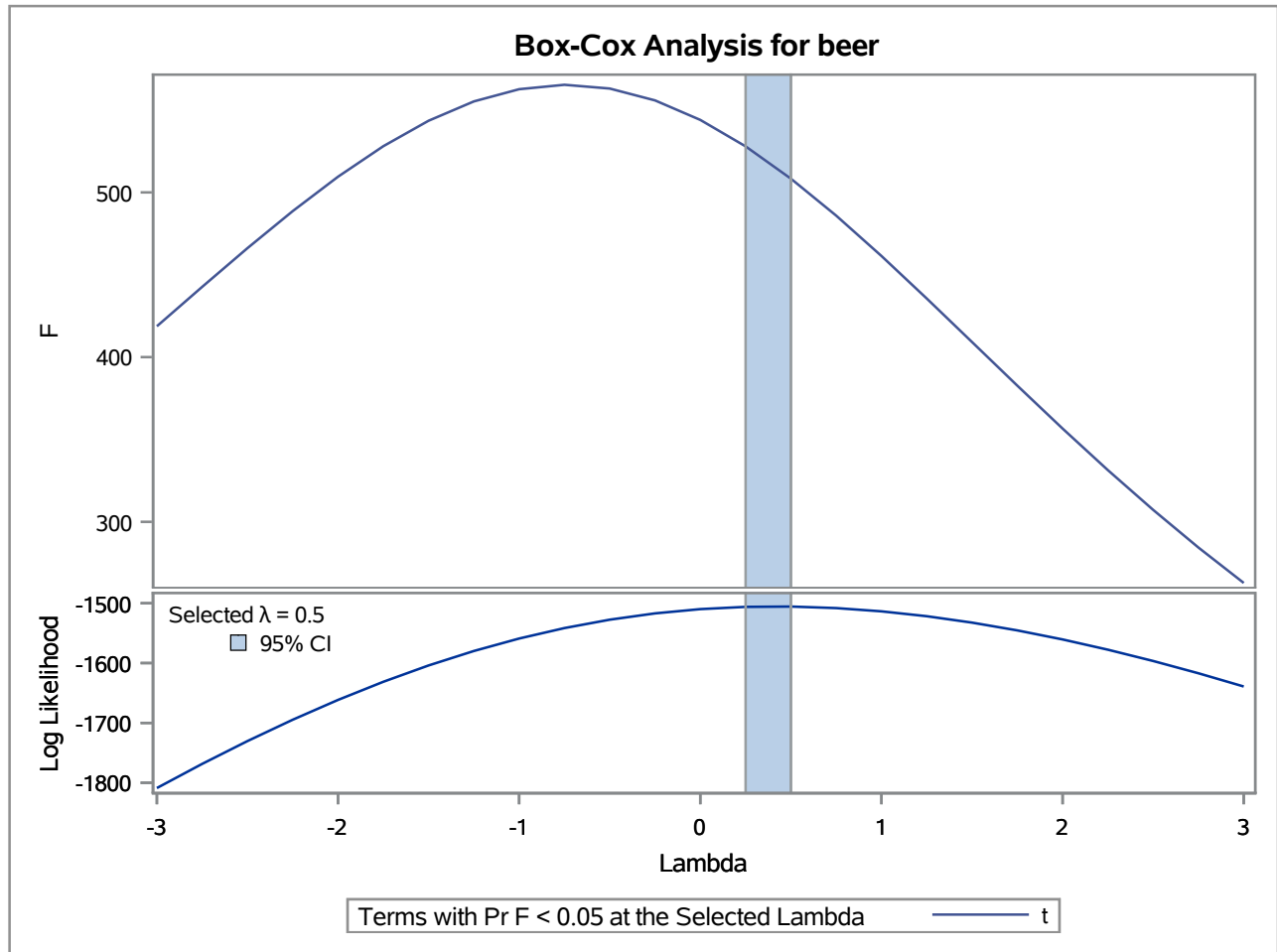


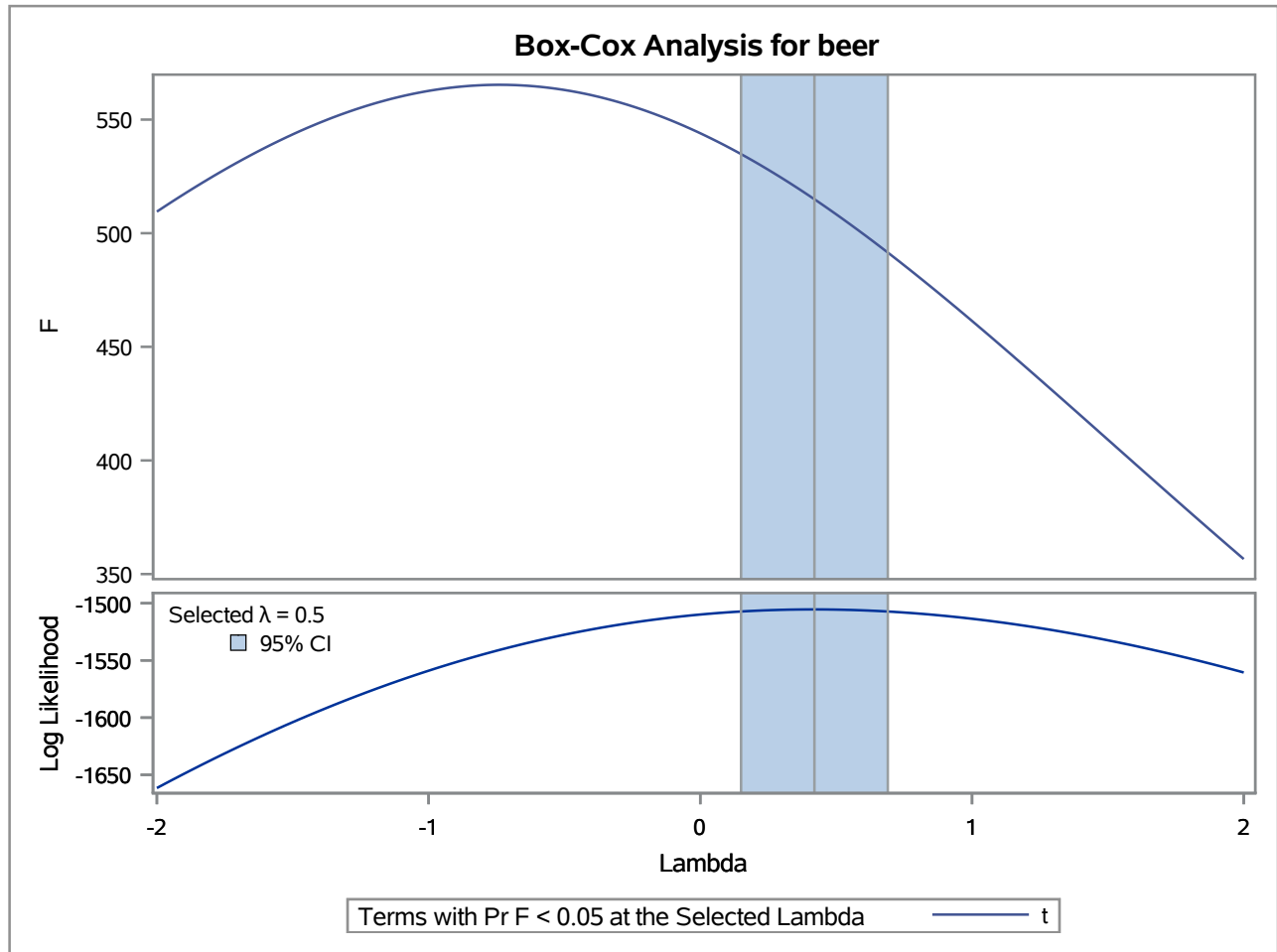
The MEANS Procedure

Variable	Minimum	Maximum	Median
Month	-1461.00	12996.00	5767.50
beer	64.8000000	217.8000000	139.1500000
t	1.0000000	476.0000000	238.5000000

The TRANSREG Procedure

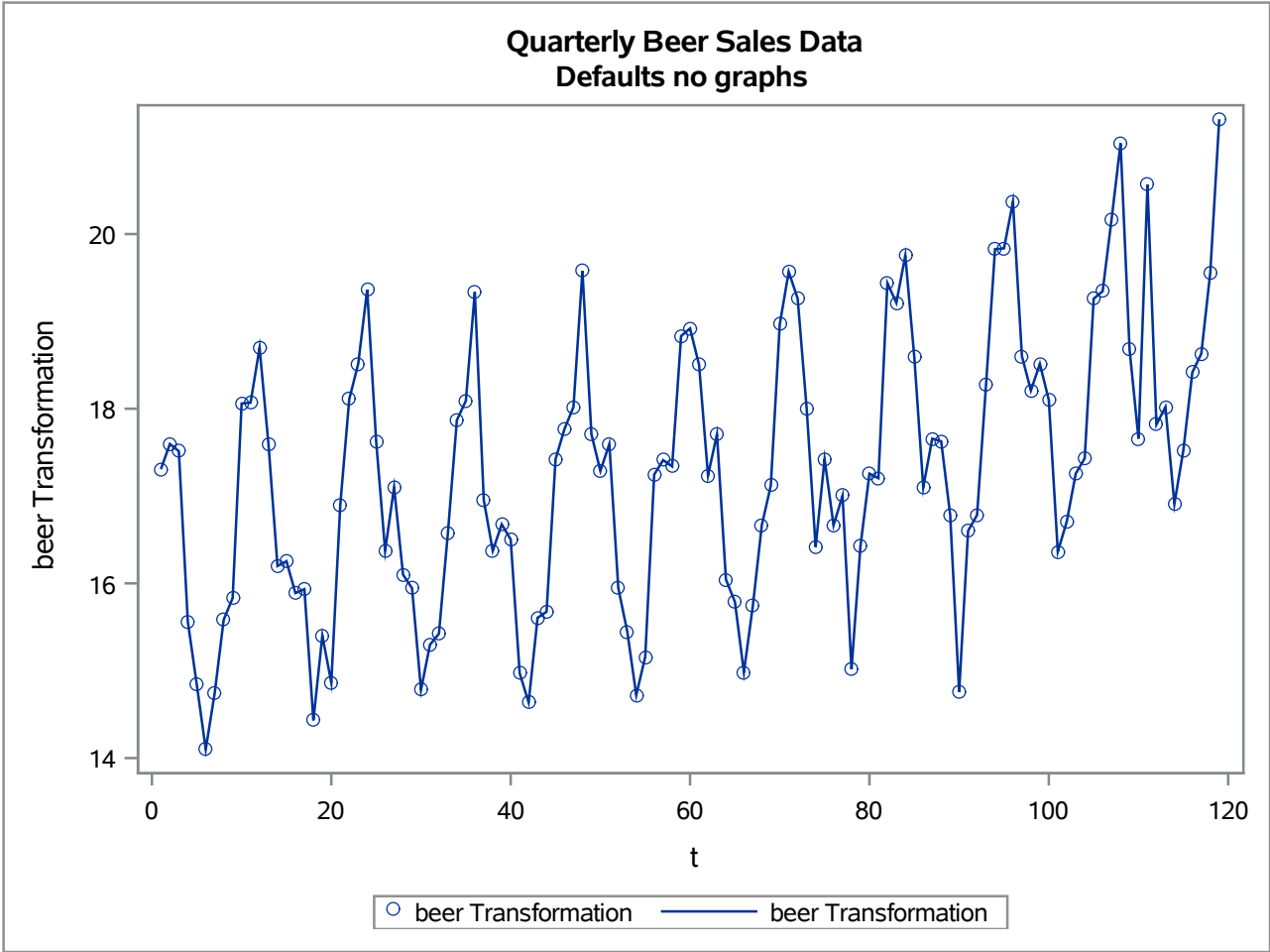


The TRANSREG Procedure



The TRANSREG Procedure

Model Statement Specification Details				
Type	DF	Variable	Description	Value
Dep	1	BoxCox(beer)	Lambda Used	0.5
			Lambda	0.42
			Log Likelihood	-1505.4
			Conv. Lambda	0.5
			Conv. Lambda LL	-1505.6
			CI Limit	-1507.4
			Alpha	0.05
			Options	Convenient Lambda Used
Ind	1	Identity(t)	DF	1



Quarterly Beer Sales Data

Defaults no graphs

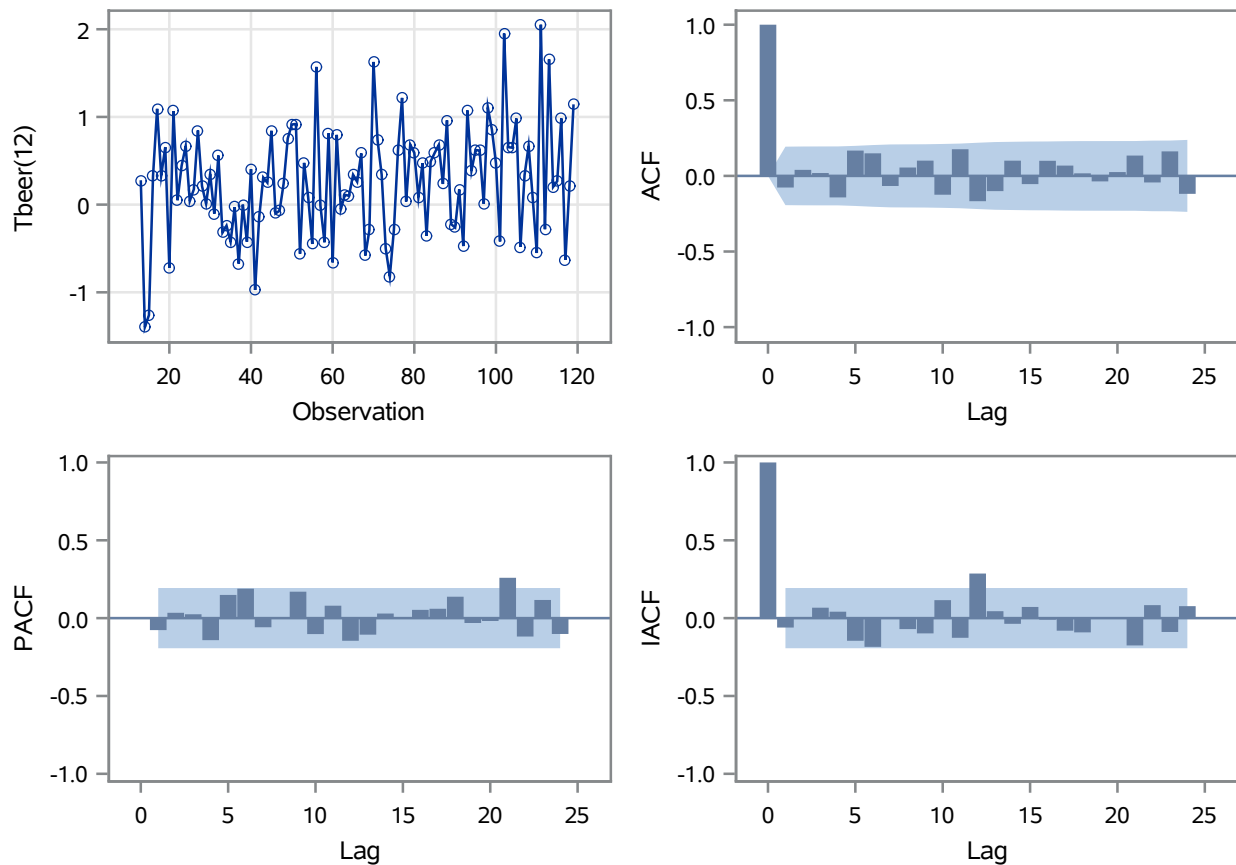
Monday, November 18, 2024 12:09:35 PM 7

The ARIMA Procedure

Name of Variable = Tbeer	
Period(s) of Differencing	12
Mean of Working Series	0.263788
Standard Deviation	0.63939
Number of Observations	107
Observation(s) eliminated by differencing	12

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	8.93	6	0.1773	-0.077	0.040	0.019	-0.142	0.167	0.149
12	20.09	12	0.0654	-0.067	0.055	0.101	-0.124	0.176	-0.167
18	24.91	18	0.1274	-0.101	0.101	-0.054	0.100	0.068	0.017
24	33.51	24	0.0938	-0.036	0.025	0.134	-0.043	0.162	-0.119

Trend and Correlation Analysis for Tbeer(12)

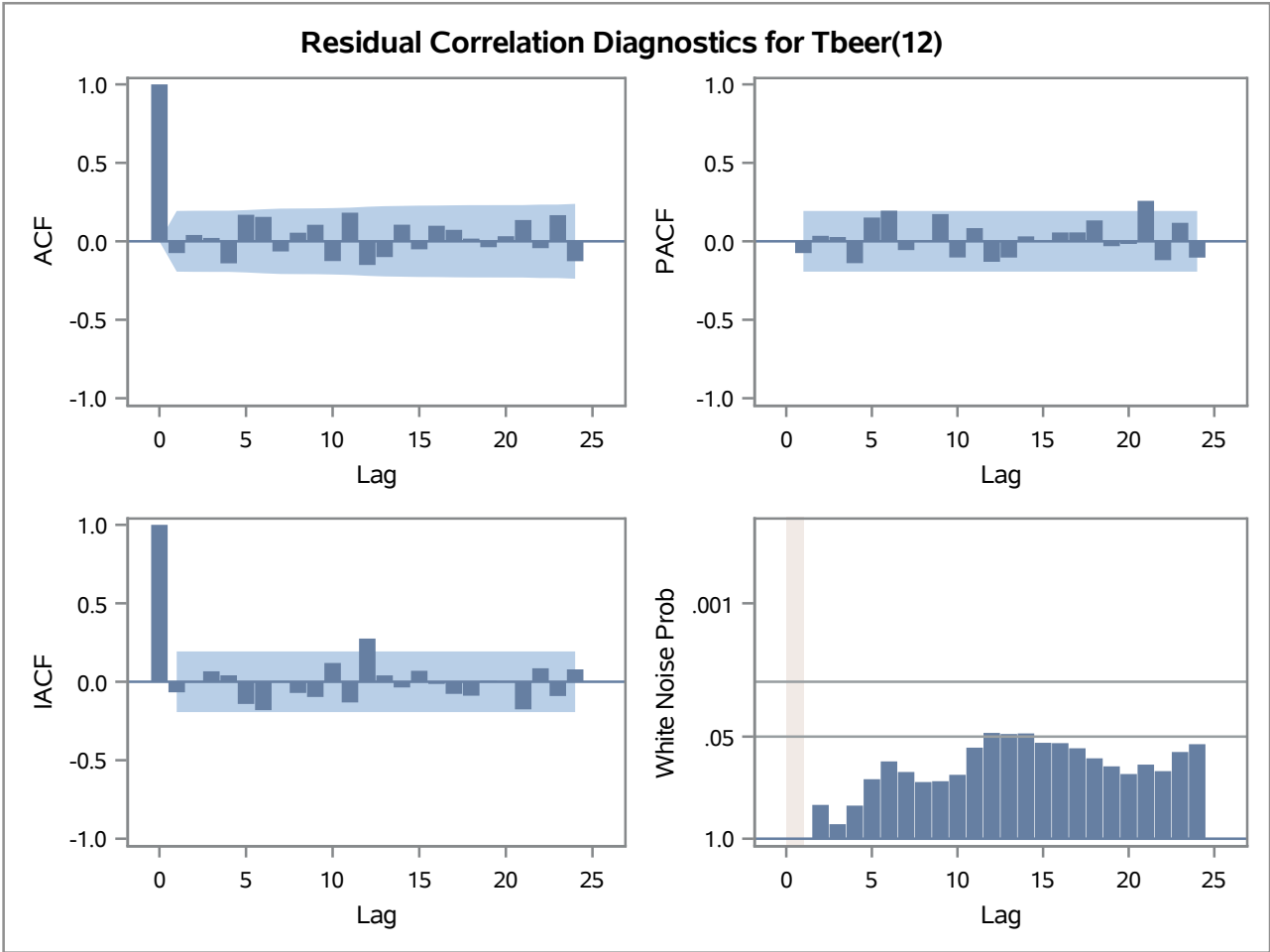


The ARIMA Procedure

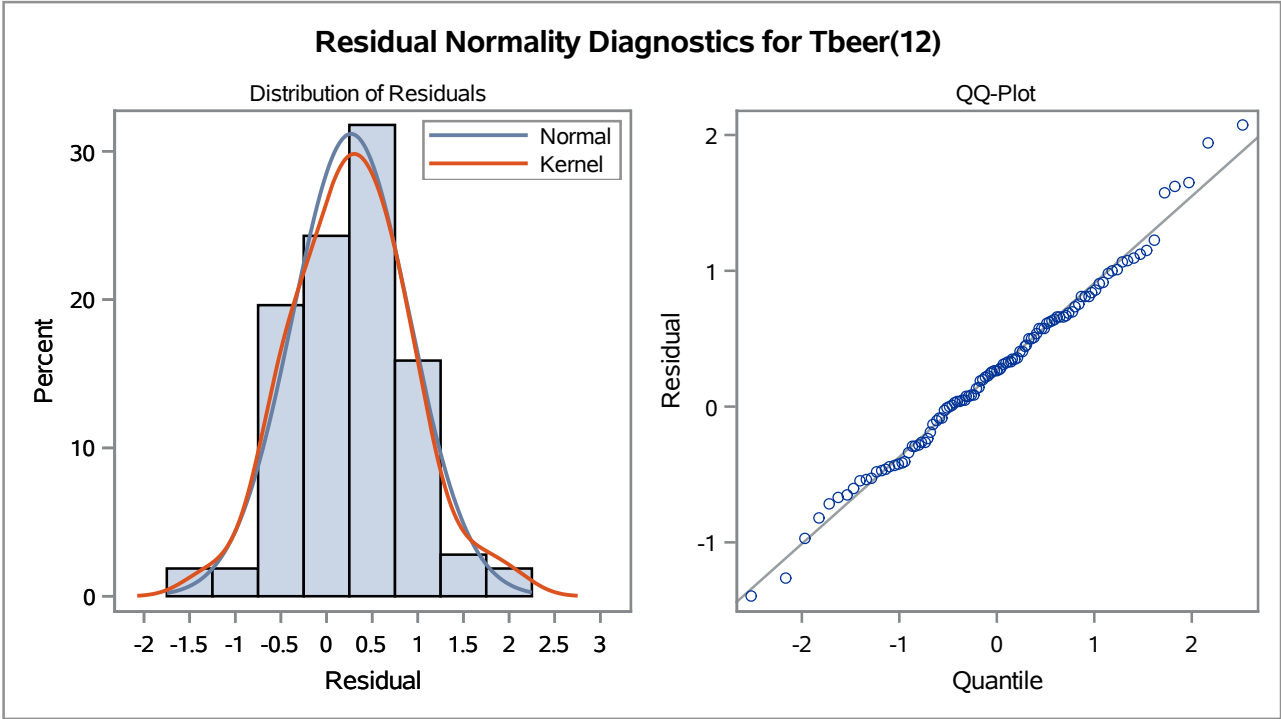
Maximum Likelihood Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag
MA1,1	0.02539	0.10935	0.23	0.8164	12

Variance Estimate	0.48265
Std Error Estimate	0.69473
AIC	226.7103
SBC	229.3831
Number of Residuals	107

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	27.86	5	<.0001	0.082	0.187	0.182	0.040	0.296	0.283
12	49.25	11	<.0001	0.086	0.194	0.222	0.029	0.289	0.001
18	67.92	17	<.0001	0.043	0.221	0.080	0.204	0.180	0.122
24	86.87	23	<.0001	0.080	0.135	0.221	0.065	0.247	-0.003



The ARIMA Procedure



Model for variable Tbeer	
Period(s) of Differencing	12

No mean term in this model.

Moving Average Factors	
Factor 1:	1 - 0.02539 B**(12)

