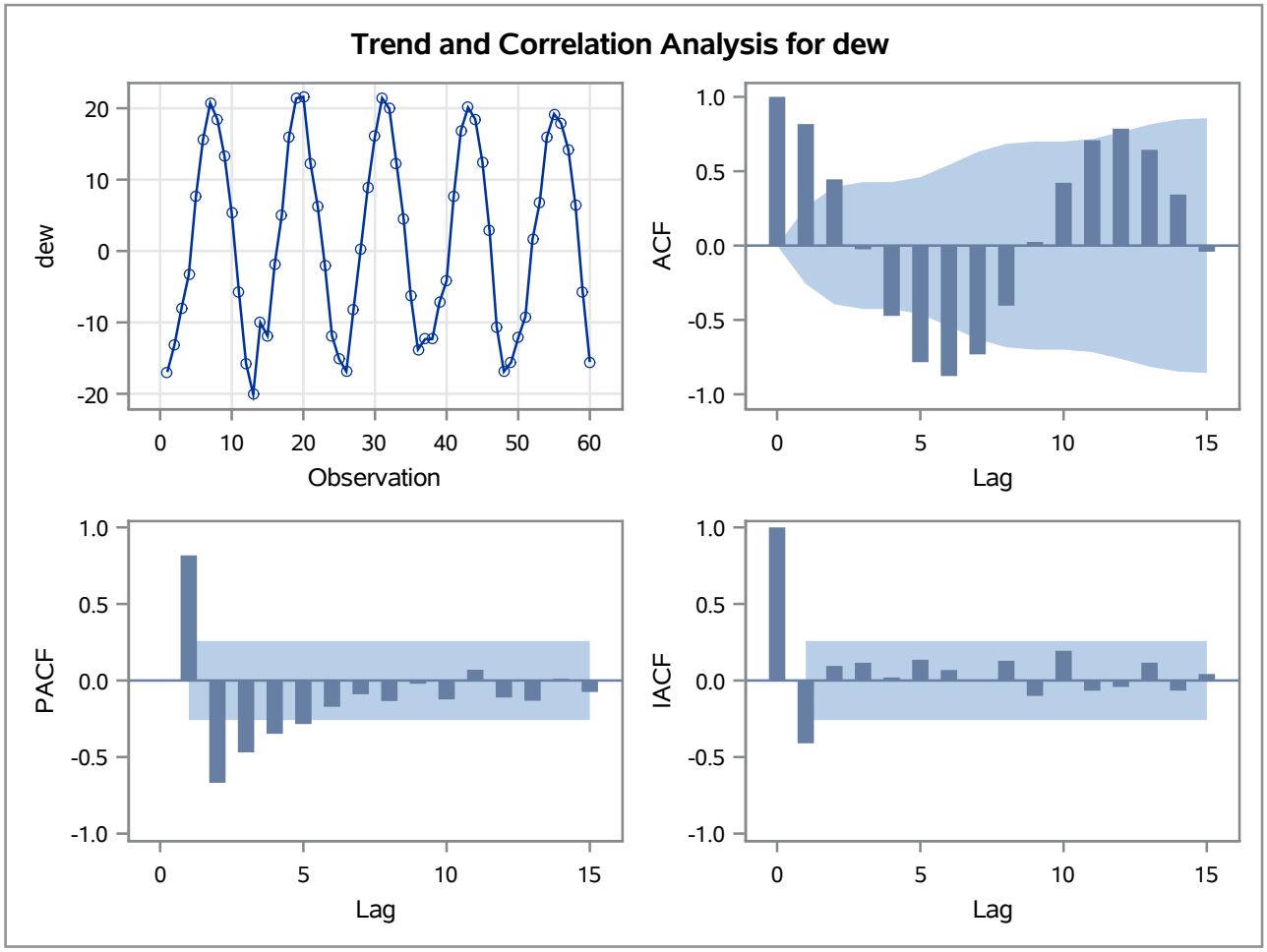
Name of Variable = dew	
Mean of Working Series	1.747567
Standard Deviation	13.09266
Number of Observations	60

Autocorrelation Check for White Noise									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	164.31	6	<.0001	0.817	0.445	-0.025	-0.473	-0.784	-0.877
12	312.85	12	<.0001	-0.732	-0.404	0.024	0.422	0.708	0.786



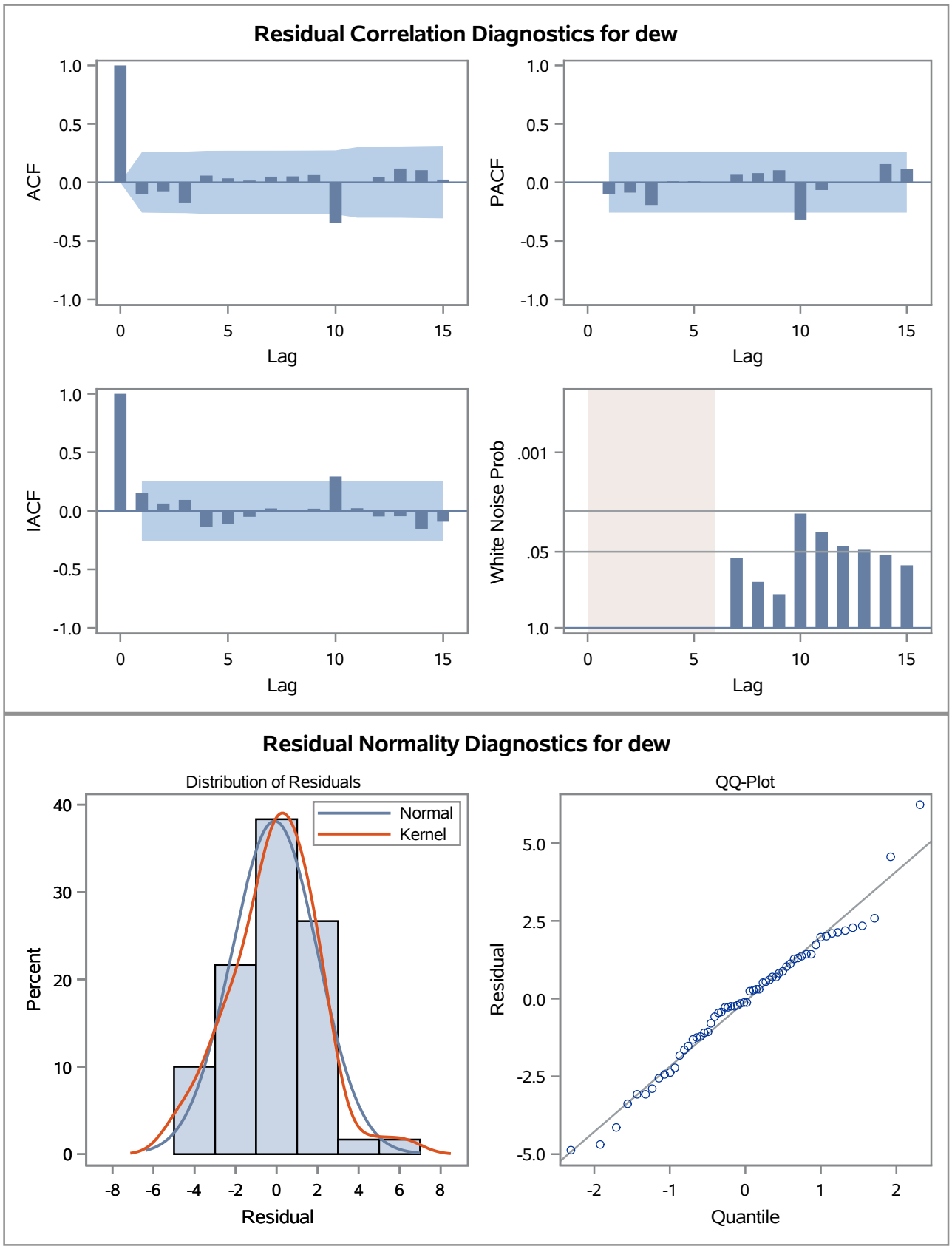
Maximum Likelihood Estimation					
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**
MU	1.77684	0.34814	5.10	<.0001	0
MA1,1	1.39221	0.16742	8.32	<.0001	1
MA1,2	-0.51130	0.21526	-2.38	0.0175	2
MA1,3	-0.13263	0.20781	-0.64	0.5233	3
MA1,4	-0.10496	0.13734	-0.76	0.4447	4

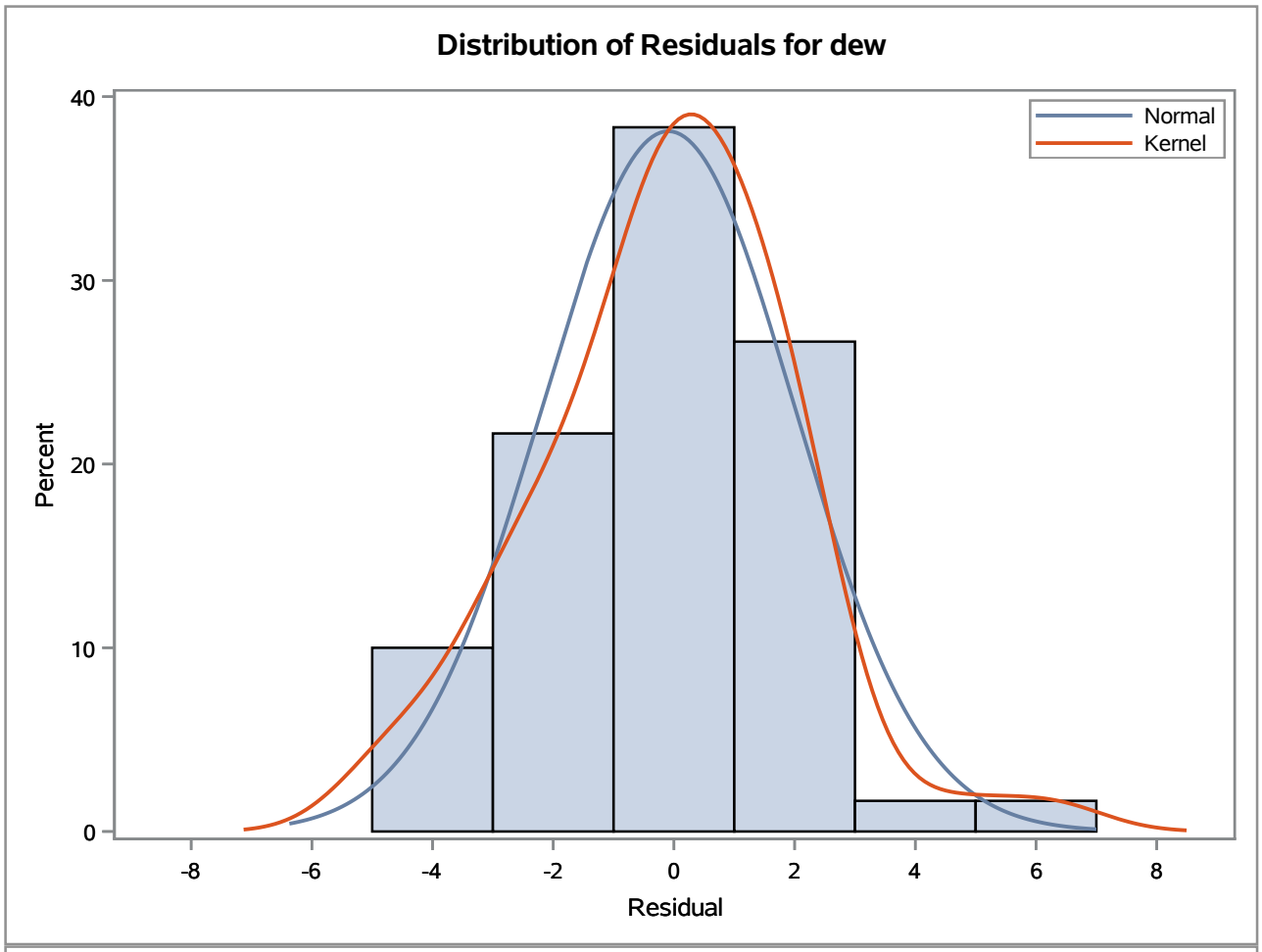
Maximum Likelihood Estimation					
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**
AR1,1	1.73034	0.0017250	1003.07	<.0001	1
AR1,2	-0.99996	0.0003659	-2733.0	<.0001	2

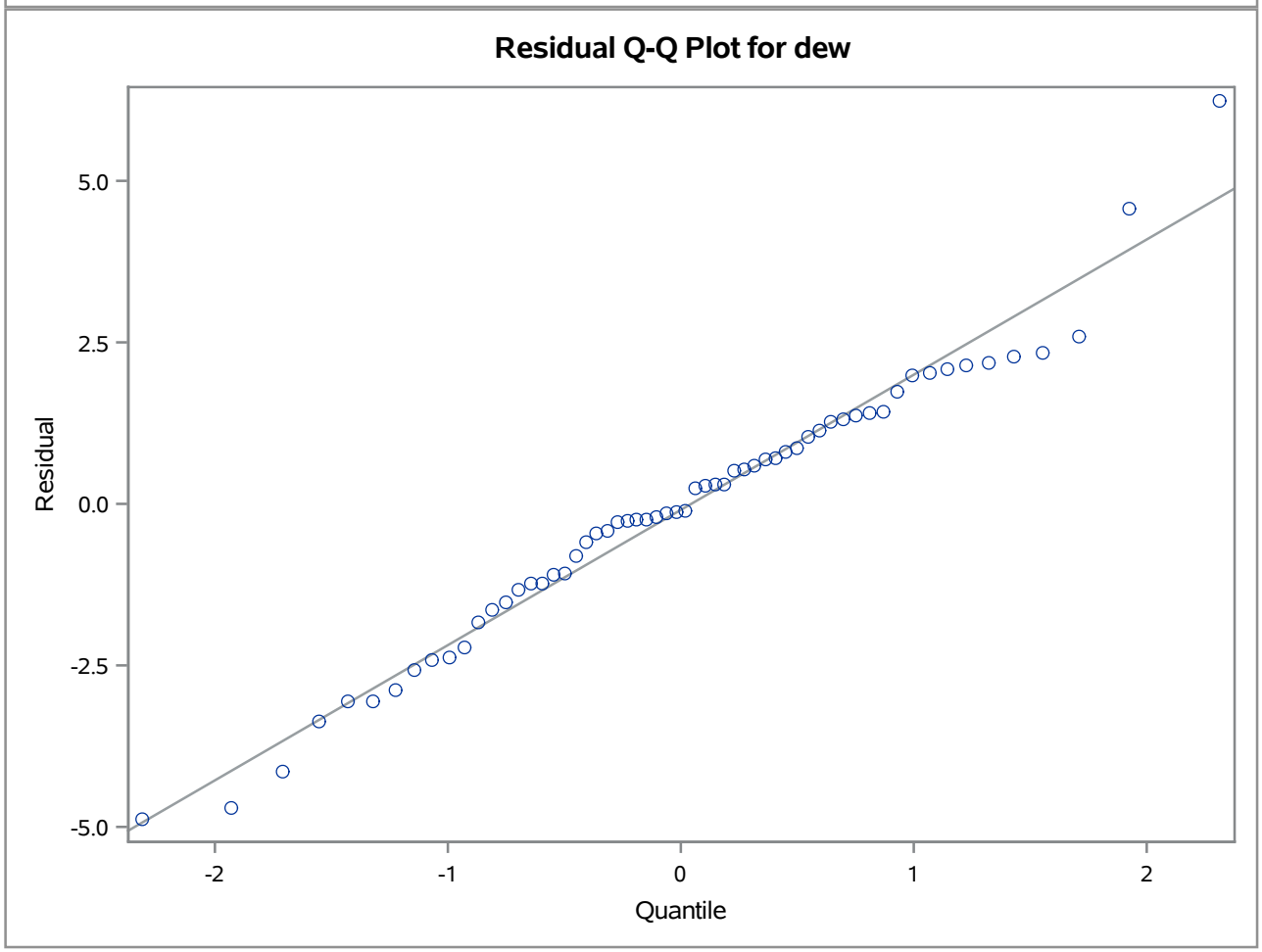
Constant Estimate	0.479083
Variance Estimate	4.886494
Std Error Estimate	2.210541
AIC	284.1712
SBC	298.8316
Number of Residuals	60

Correlations of Parameter Estimates							
Parameter	**MU**	**MA1,1**	**MA1,2**	**MA1,3**	**MA1,4**	**AR1,1**	**AR1,2**
MU	1.000	0.040	0.005	-0.005	0.011	-0.168	0.157
MA1,1	0.040	1.000	-0.758	0.175	0.006	-0.198	-0.156
MA1,2	0.005	-0.758	1.000	-0.677	0.261	0.045	0.185
MA1,3	-0.005	0.175	-0.677	1.000	-0.774	-0.023	0.072
MA1,4	0.011	0.006	0.261	-0.774	1.000	0.119	0.024
AR1,1	-0.168	-0.198	0.045	-0.023	0.119	1.000	-0.122
AR1,2	0.157	-0.156	0.185	0.072	0.024	-0.122	1.000

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	.	0	.	-0.101	-0.076	-0.171	0.058	0.035	0.016
12	13.11	6	0.0413	0.050	0.051	0.069	-0.348	-0.007	0.043
18	16.27	12	0.1791	0.117	0.103	0.021	-0.116	-0.018	0.012
24	20.96	18	0.2815	-0.055	0.038	-0.059	-0.154	0.070	-0.105


Residual Correlation Diagnostics for dew
ACF
PACF
IACF
White Noise Prob
Lag
Residual Normality Diagnostics for dew
Distribution of Residuals
Normal
Kernel
Percent
Residual
QQ-Plot
Residual
Quantile


Distribution of Residuals for dew
Normal
Kernel
Percent
40
30
20
10
0
-8
-6
-4
-2
0
2
4
6
8
Residual


Residual Q-Q Plot for dew
Residual
5.0
2.5
0.0
-2.5
-5.0
-2
-1
0
1
2
Quantile

Model for variable dew	
Estimated Mean	1.776839

Autoregressive Factors	
Factor 1:	1 - 1.73034 B**(1) + 0.99996 B**(2)

Moving Average Factors	
Factor 1:	1 - 1.39221 B**(1) + 0.5113 B**(2) + 0.13263 B**(3) + 0.10496 B**(4)

Name of Variable = pollution	
Mean of Working Series	94.20369
Standard Deviation	27.42528
Number of Observations	60

Autocorrelation Check for White Noise									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	17.55	6	0.0075	0.127	-0.028	-0.041	-0.061	-0.214	-0.435
12	26.25	12	0.0099	-0.151	0.049	-0.026	-0.113	0.110	0.254

Correlation of pollution and dew	
Number of Observations	60
Variance of transformed series pollution	773.4497
Variance of transformed series dew	47.99989

Both series have been prewhitened.

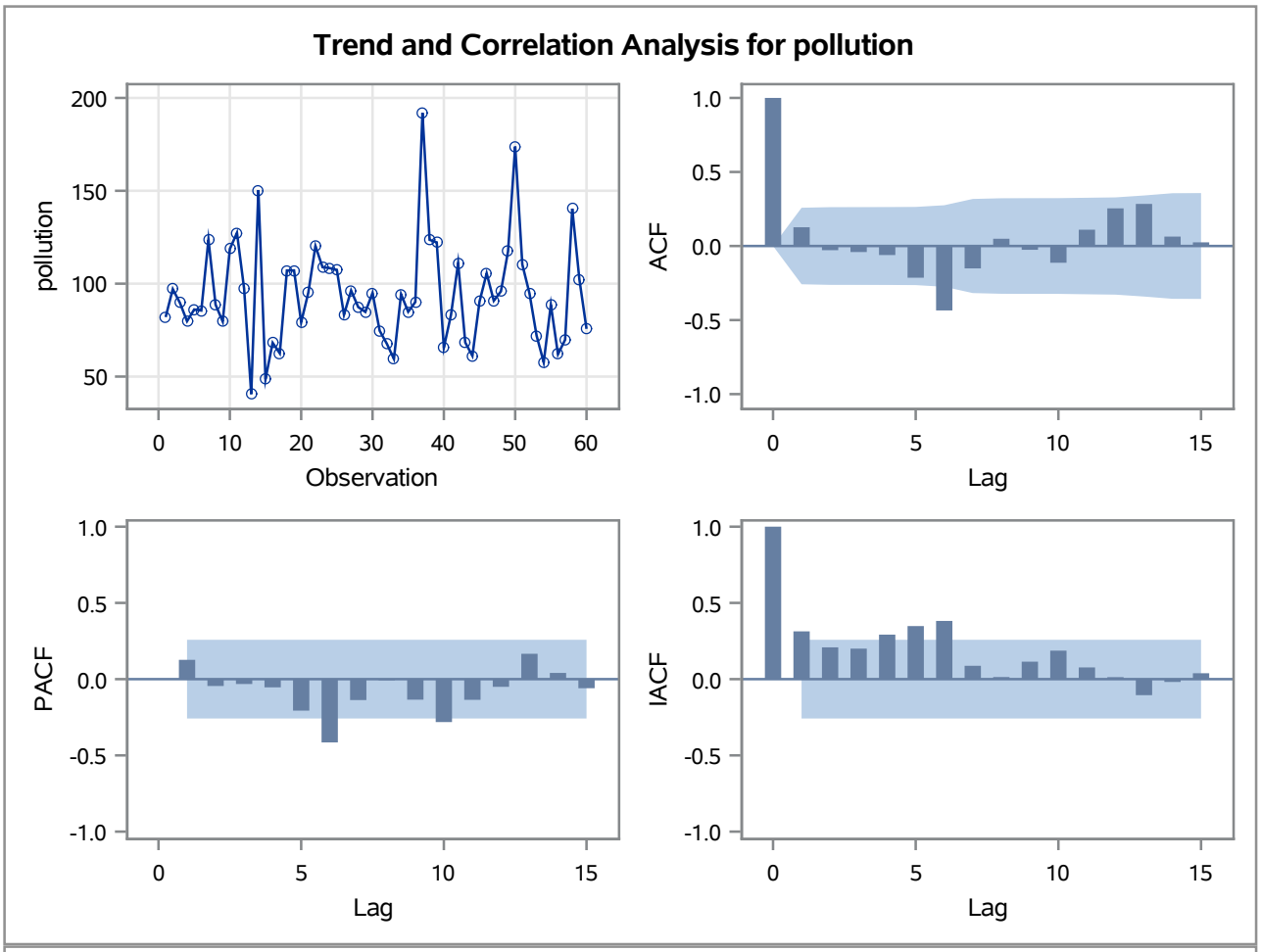
Crosscorrelation Check Between Series									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Crosscorrelations**					
5	8.67	6	0.1933	0.046	-0.123	-0.007	0.122	0.227	0.247
11	19.31	12	0.0813	0.130	0.144	0.037	-0.124	-0.276	-0.216

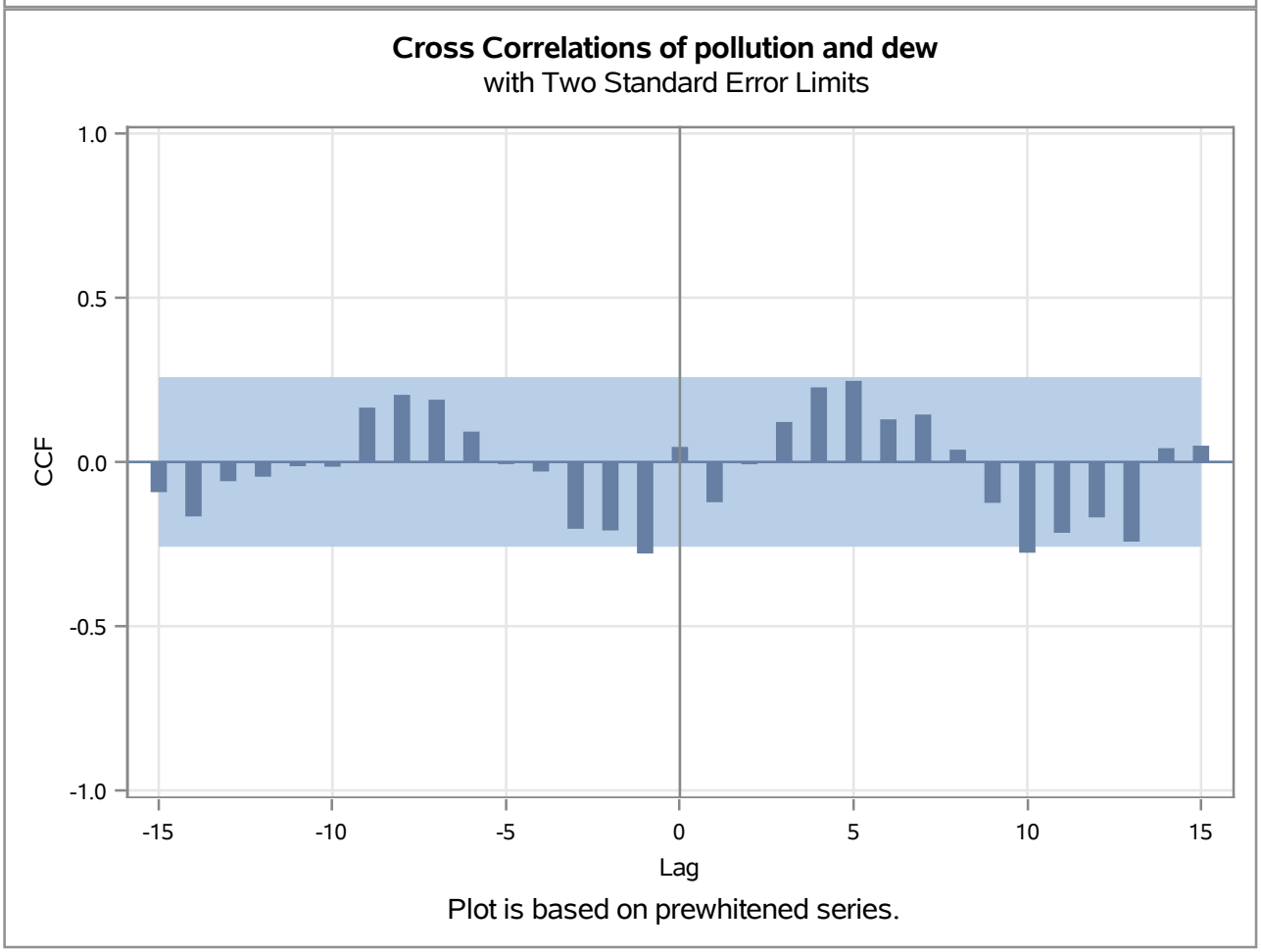
Both variables have been prewhitened by the following filter:

Prewhitening Filter

Autoregressive Factors	
Factor 1:	1 - 1.73034 B**(1) + 0.99996 B**(2)

Moving Average Factors	
Factor 1:	1 - 1.39221 B**(1) + 0.5113 B**(2) + 0.13263 B**(3) + 0.10496 B**(4)


Trend and Correlation Analysis for pollution
pollution
Observation
ACF
Lag
PACF
Lag
IACF
Lag

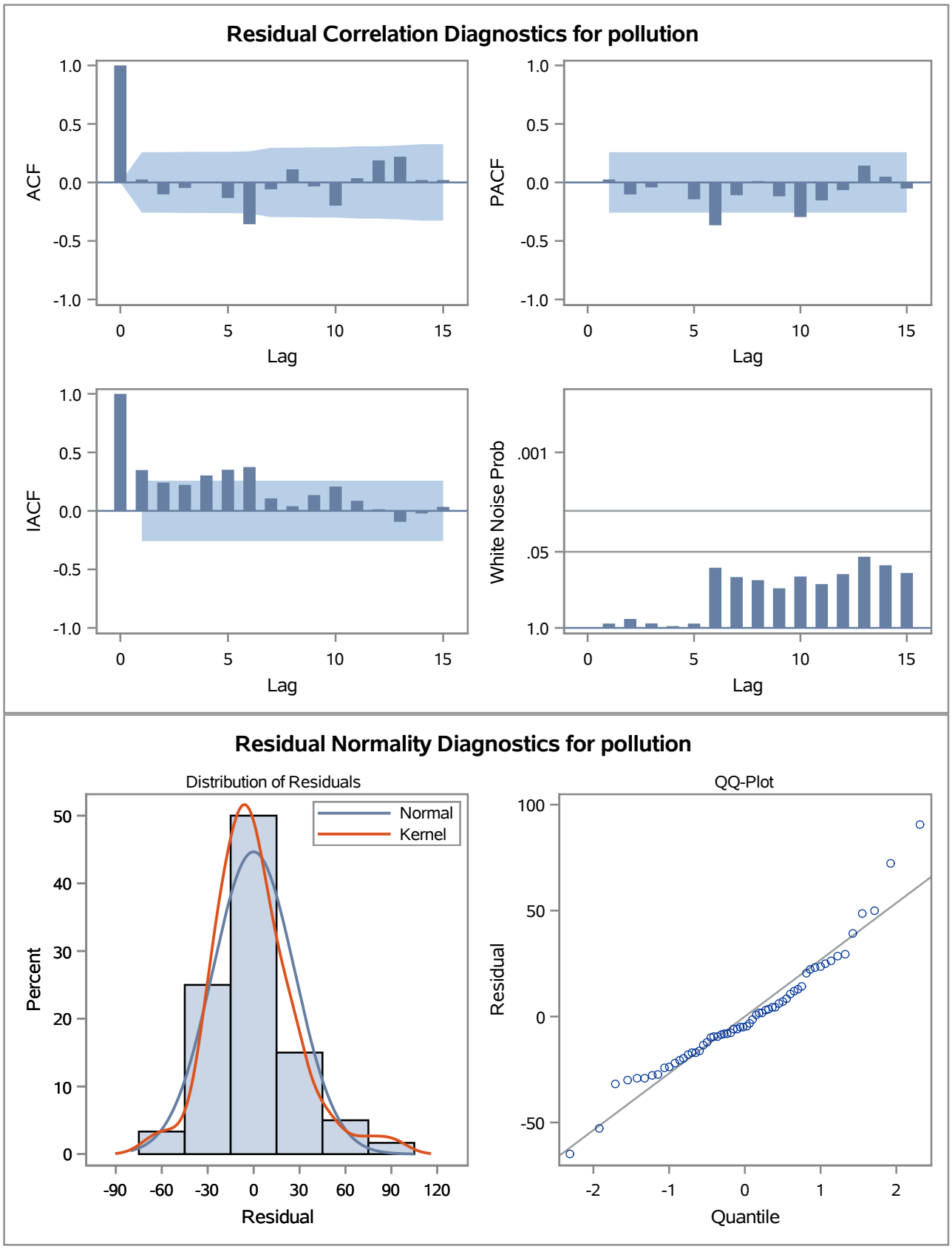

Cross Correlations of pollution and dew
with Two Standard Error Limits
CCF
Lag
Plot is based on prewhitened series.

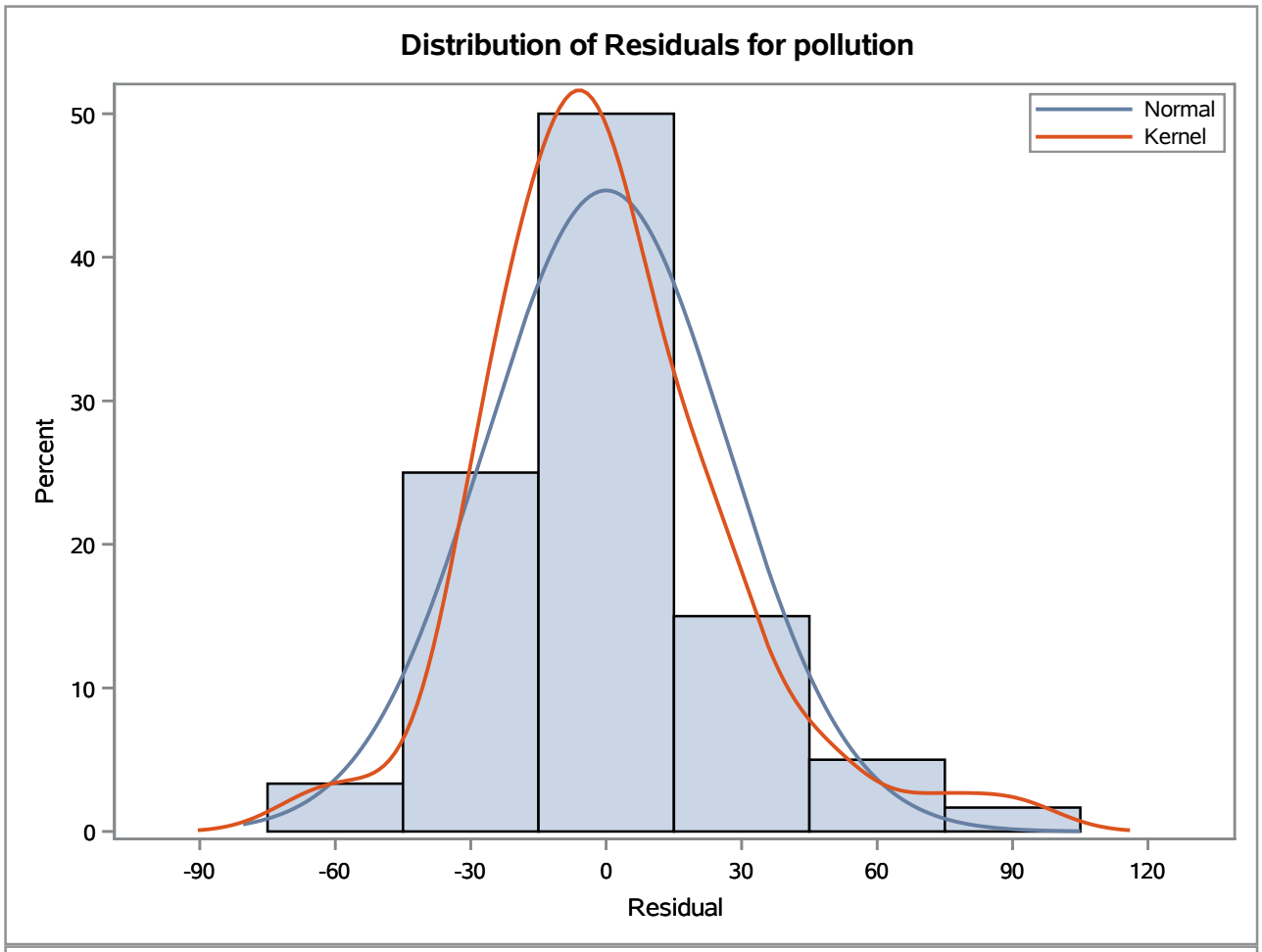
Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	95.10733	3.52062	27.01	<.0001	0	pollution	0
NUM1	-0.51708	0.26654	-1.94	0.0524	0	dew	0

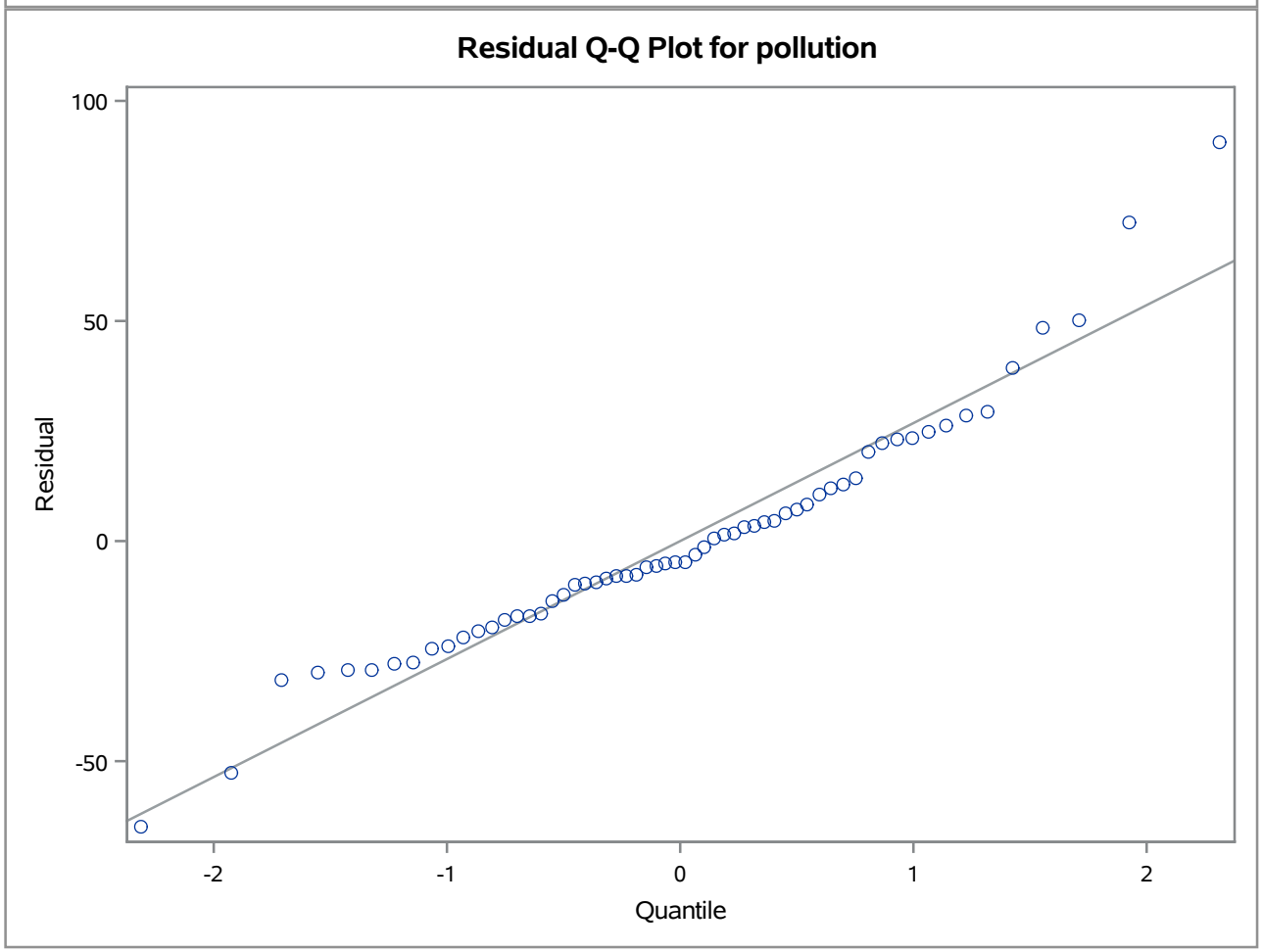
Constant Estimate	95.10733
Variance Estimate	730.6684
Std Error Estimate	27.03088
AIC	567.8761
SBC	572.0648
Number of Residuals	60

Correlations of Parameter Estimates			
Variable	**Parameter**	**pollution MU**	**dew NUM1**
pollution	**MU**	1.000	-0.132
dew	**NUM1**	-0.132	1.000

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	10.83	6	0.0937	0.025	-0.102	-0.047	0.000	-0.133	-0.357
12	17.84	12	0.1205	-0.059	0.112	-0.034	-0.199	0.036	0.188
18	23.71	18	0.1649	0.220	0.021	0.020	0.091	-0.109	-0.054
24	30.55	24	0.1670	-0.014	0.061	-0.010	-0.222	0.041	-0.120


Residual Correlation Diagnostics for pollution
ACF
PACF
IACF
White Noise Prob
Lag
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
.001
.05
1.0
Residual Normality Diagnostics for pollution
Distribution of Residuals
Normal
Kernel
Percent
Residual
50
40
30
20
10
0
-90
-60
-30
0
30
60
90
120
QQ-Plot
Residual
Quantile
100
50
0
-50
-2
-1
0
1
2


Distribution of Residuals for pollution
Normal
Kernel
Percent
50
40
30
20
10
0
-90
-60
-30
0
30
60
90
120
Residual

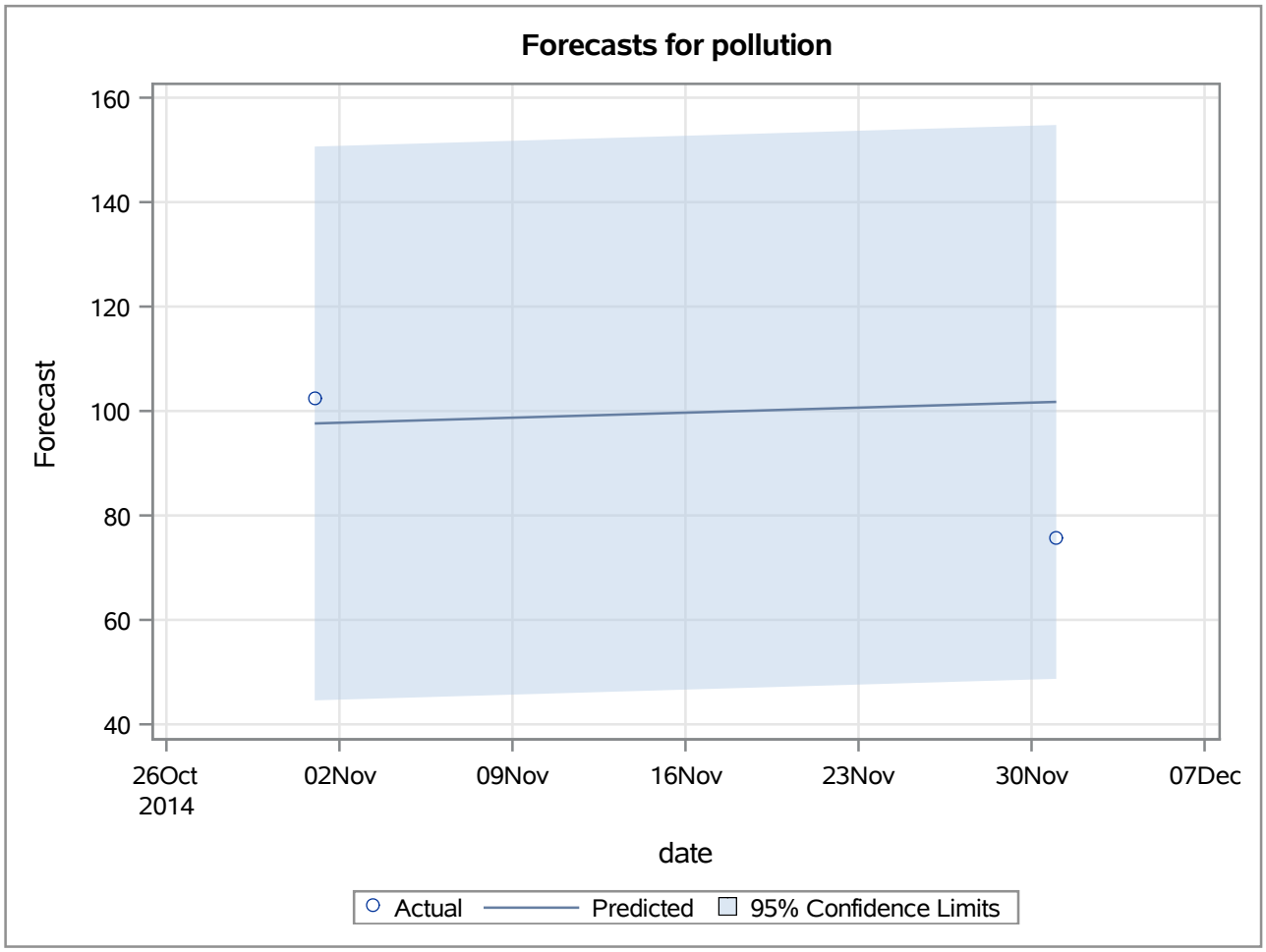

Residual Q-Q Plot for pollution
Residual
100
50
0
-50
-2
-1
0
1
2
Quantile

Crosscorrelation Check of Residuals with Input dew									
To Lag	Chi-Square	DF	Pr > ChiSq	Crosscorrelations					
5	30.86	6	<.0001	0.669	0.105	-0.132	-0.187	-0.023	0.048
11	35.64	12	0.0004	-0.145	-0.073	0.048	0.124	-0.178	-0.062
17	39.12	18	0.0027	0.136	0.087	0.168	0.041	0.045	-0.010
23	43.11	24	0.0097	-0.059	0.027	-0.008	-0.026	-0.163	0.187

Model for variable pollution	
Estimated Intercept	95.10733

Input Number 1	
Input Variable	dew
Overall Regression Factor	-0.51708

Forecasts for variable pollution						
Obs	Forecast	Std Error	95% Confidence Limits		Actual	Residual
59	97.6153	27.0550	44.5884	150.6422	102.3486	4.7333
60	101.7452	27.0578	48.7129	154.7775	75.6882	-26.0570



Outlier Detection Summary	
Maximum number searched	2
Number found	2
Significance used	0.05

Outlier Details

Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
37	Additive	90.48976	13.76	0.0002
50	Additive	72.43850	11.62	0.0007