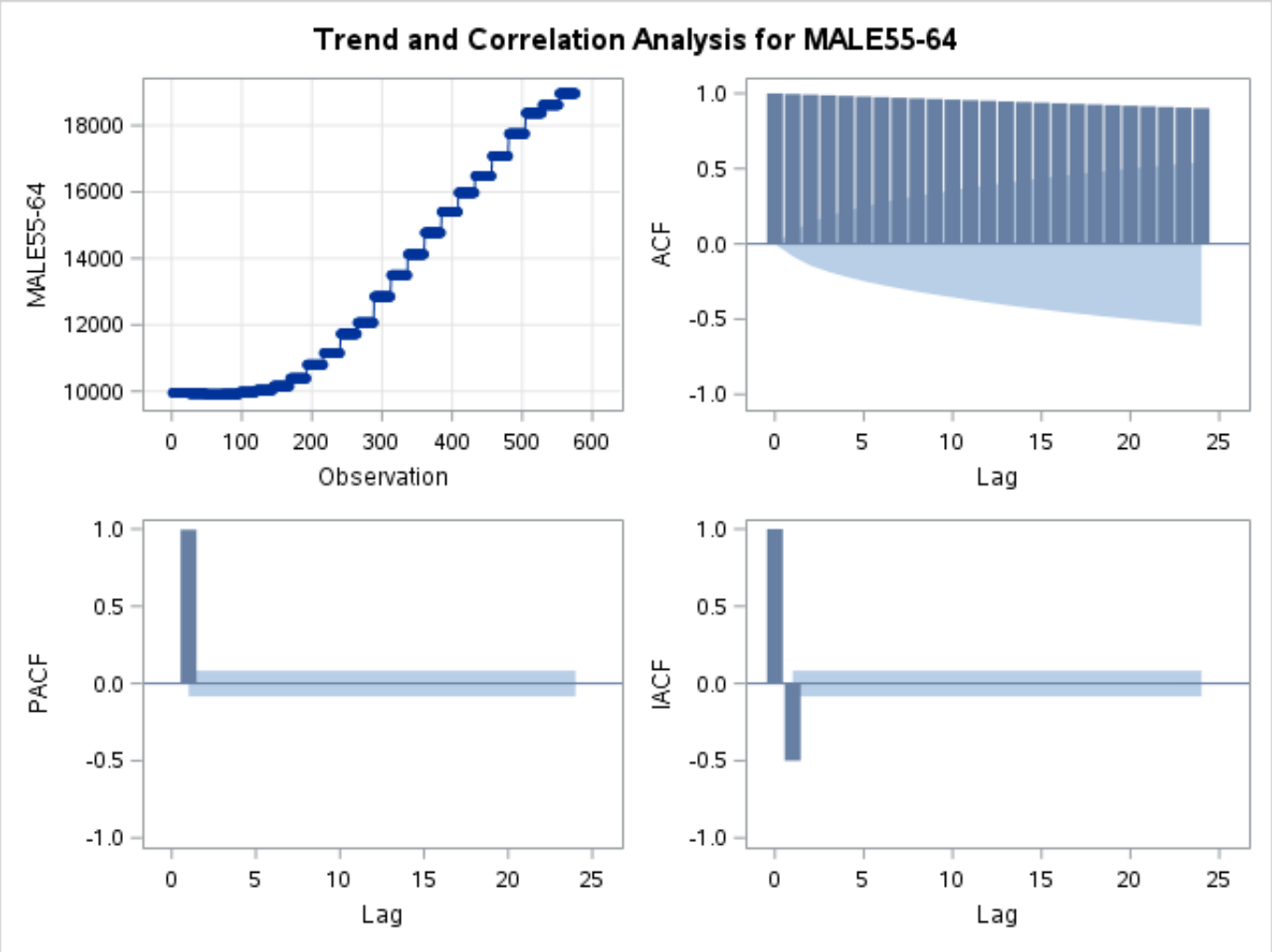
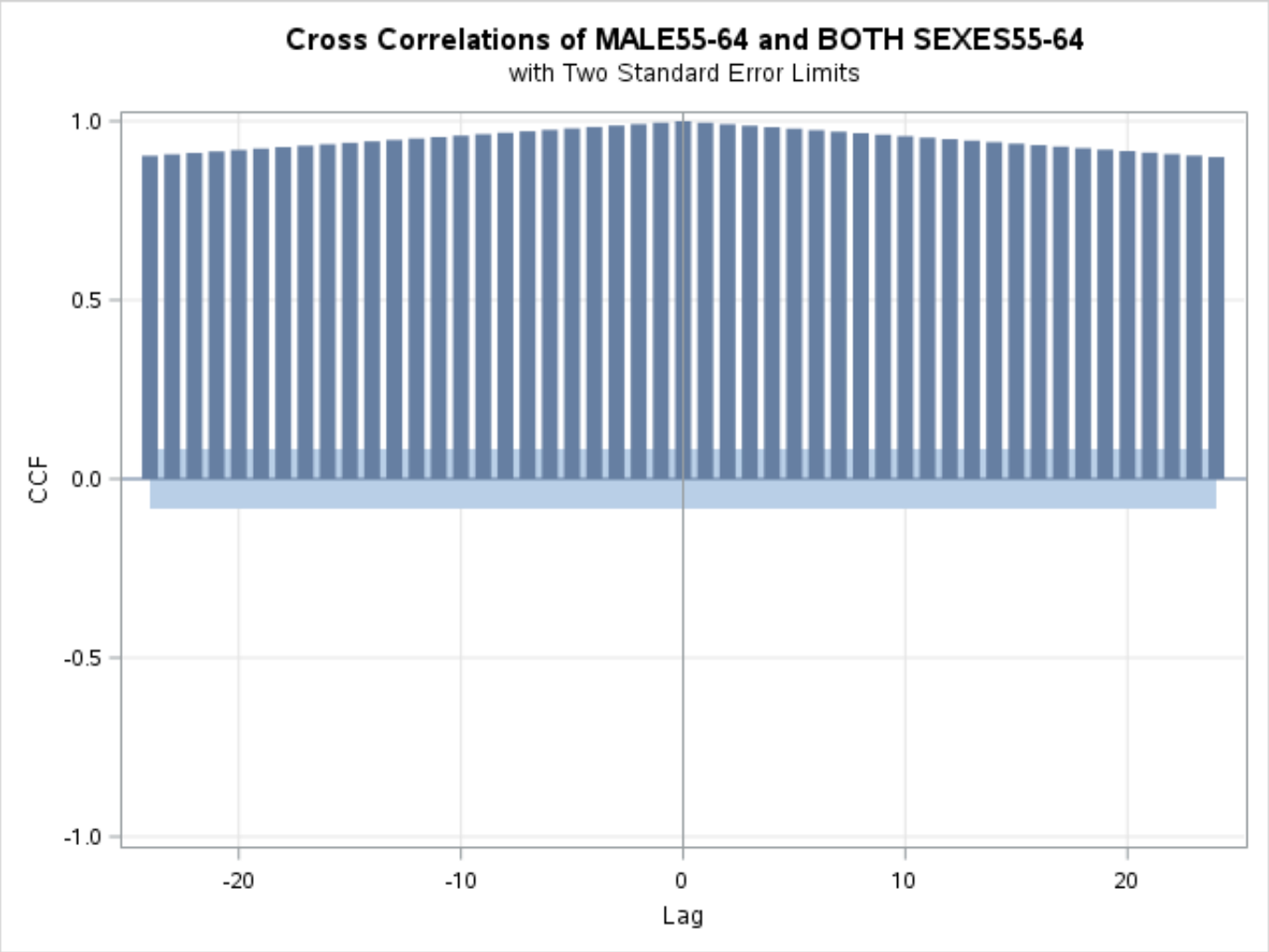
(BOTH SEXES55-64)

Name of Variable = MALE55-64	
Mean of Working Series	13327.34
Standard Deviation	3196.515
Number of Observations	576

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	3389.98	6	<.0001	0.996	0.992	0.988	0.984	0.980	0.975
12	6647.24	12	<.0001	0.971	0.967	0.963	0.959	0.955	0.951
18	9773.25	18	<.0001	0.947	0.943	0.939	0.934	0.930	0.926
24	9999.99	24	<.0001	0.922	0.918	0.914	0.910	0.906	0.902

Correlation of MALE55-64 and BOTH SEXES55-64	
Variance of input =	42102345
Number of Observations	576





ARIMA Estimation Optimization Summary	
Estimation Method	Maximum Likelihood
Parameters Estimated	6
Termination Criteria	Maximum Relative Change in Estimates
Iteration Stopping Value	0.001
Criteria Value	1.75E-14
Maximum Absolute Value of Gradient	310.5882
R-Square Change from Last Iteration	0.008297
Objective Function	Log Gaussian Likelihood
Objective Function Value	-1502.06
Marquardt's Lambda Coefficient	1E12
Numerical Derivative Perturbation Delta	0.001
Iterations	12
Warning Message	Estimates may not have converged.

Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	-310.87949	47.32989	-6.57	<.0001	0	MALE55-64	0

MA1,1	0.43778	49.49664	0.01	0.9929	1	MALE55-64	0
MA2,1	0.0015057	0.21837	0.01	0.9945	1	MALE55-64	0
AR1,1	0.44019	49.30021	0.01	0.9929	1	MALE55-64	0
AR2,1	0.99792	0.0020028	498.27	<.0001	1	MALE55-64	0
NUM1	0.48949	0.0007273	672.98	<.0001	0	BOTH SEXES55-64	0

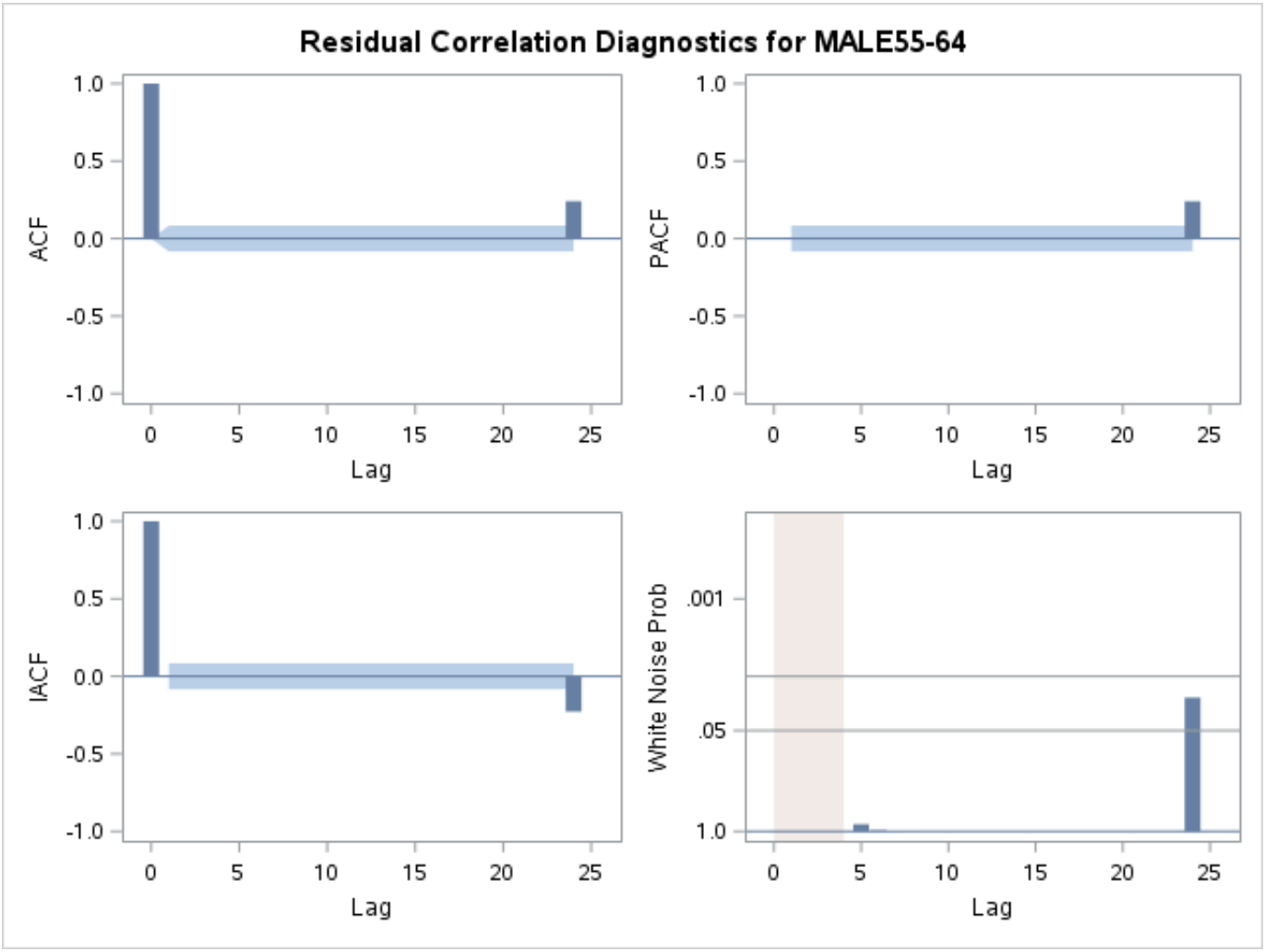
Constant Estimate	-0.36137
Variance Estimate	10.78909
Std Error Estimate	3.284675
AIC	3016.113
SBC	3042.249
Number of Residuals	576

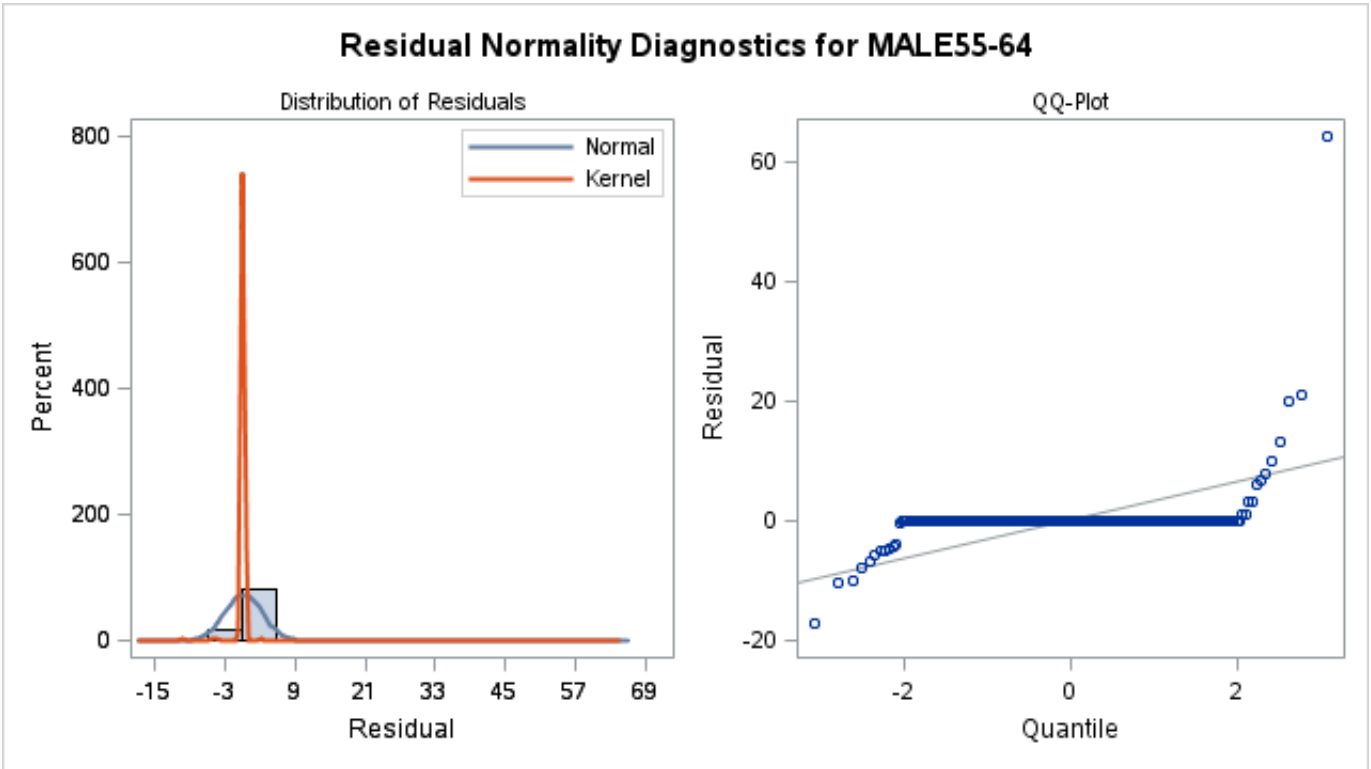
Correlations of Parameter Estimates

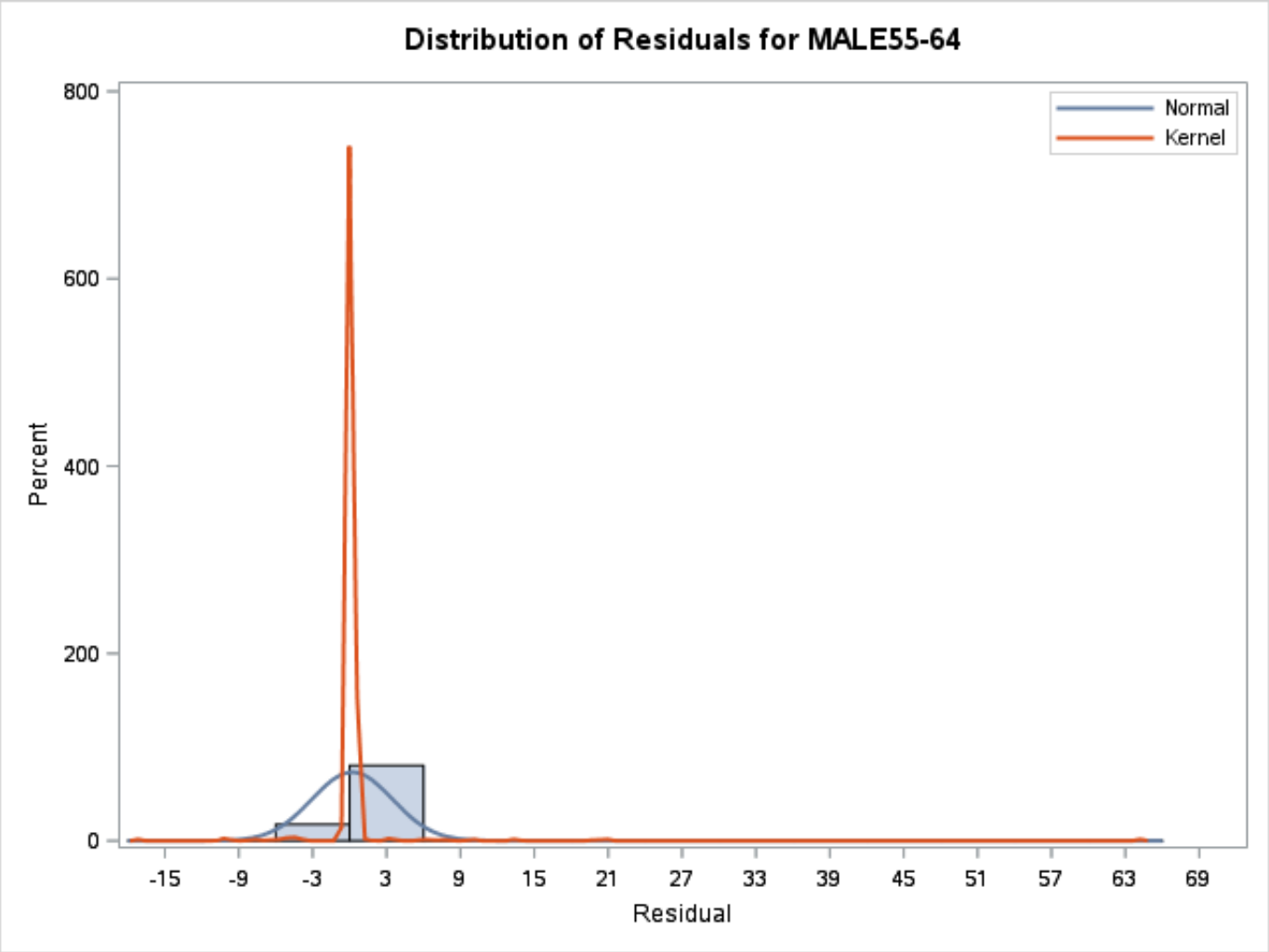
Variable Parameter	MALE55-64 MU	MALE55-64 MA1,1	MALE55-64 MA2,1	MALE55-64 AR1,1	MALE55-64 AR2,1	BOTH SEXES55-64 NUM1
MALE55-64 MU	1.000	-0.029	0.018	-0.029	0.290	-0.493
MALE55-64 MA1,1	-0.029	1.000	-0.900	1.000	-0.114	0.020
MALE55-64 MA2,1	0.018	-0.900	1.000	-0.899	0.071	-0.012
MALE55-64 AR1,1	-0.029	1.000	-0.899	1.000	-0.114	0.020
MALE55-64 AR2,1	0.290	-0.114	0.071	-0.114	1.000	-0.232
BOTH SEXES55-64 NUM1	-0.493	0.020	-0.012	0.020	-0.232	1.000

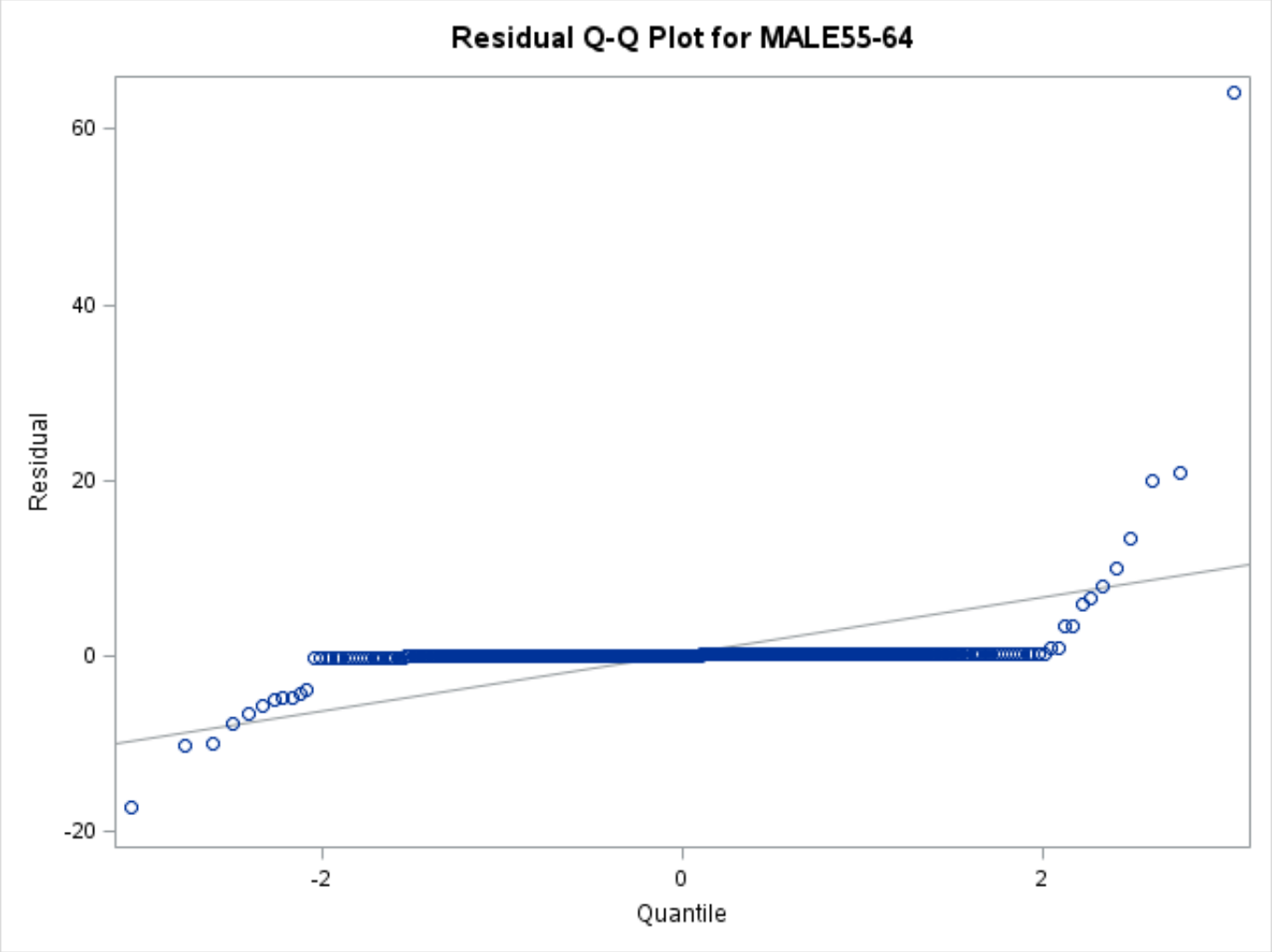
Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	0.00	2	0.9996	-0.001	-0.001	-0.000	-0.000	0.000	0.000
12	0.00	8	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.00	14	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
24	36.05	20	0.0152	0.000	0.000	-0.000	-0.000	-0.000	0.244
30	36.05	26	0.0908	0.000	0.000	0.000	0.000	0.000	0.000
36	36.05	32	0.2847	0.000	0.000	0.000	0.000	0.000	0.000
42	36.05	38	0.5598	0.000	0.000	0.000	0.000	0.000	0.000
48	69.51	44	0.0084	0.000	0.000	0.000	0.000	0.000	0.230


Residual Correlation Diagnostics for MALE55-64
ACF
PACF
IACF
White Noise Prob
Lag
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
.001
.05
1.0


Residual Normality Diagnostics for MALE55-64
Distribution of Residuals
Normal
Kernel
Percent
800
600
400
200
0
-15
-3
9
21
33
45
57
69
Residual
QQ-Plot
Residual
60
40
20
0
-20
-2
0
2
Quantile


Distribution of Residuals for MALE55-64
Normal
Kernel
Percent
800
600
400
200
0
-15
-9
-3
3
9
15
21
27
33
39
45
51
57
63
69
Residual



Model for variable MALE55-64	
Estimated Intercept	-310.879

Autoregressive Factors	
Factor 1:	1 - 0.44019 B**(1)
Factor 2:	1 - 0.99792 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.43778 B**(1)
Factor 2:	1 - 0.00151 B**(1)

Input Number 1	
Input Variable	BOTH SEXES55-64
Overall Regression Factor	0.489487

Note: Further warnings will not be printed.

The value for option LEAD= has been reduced to 0.

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

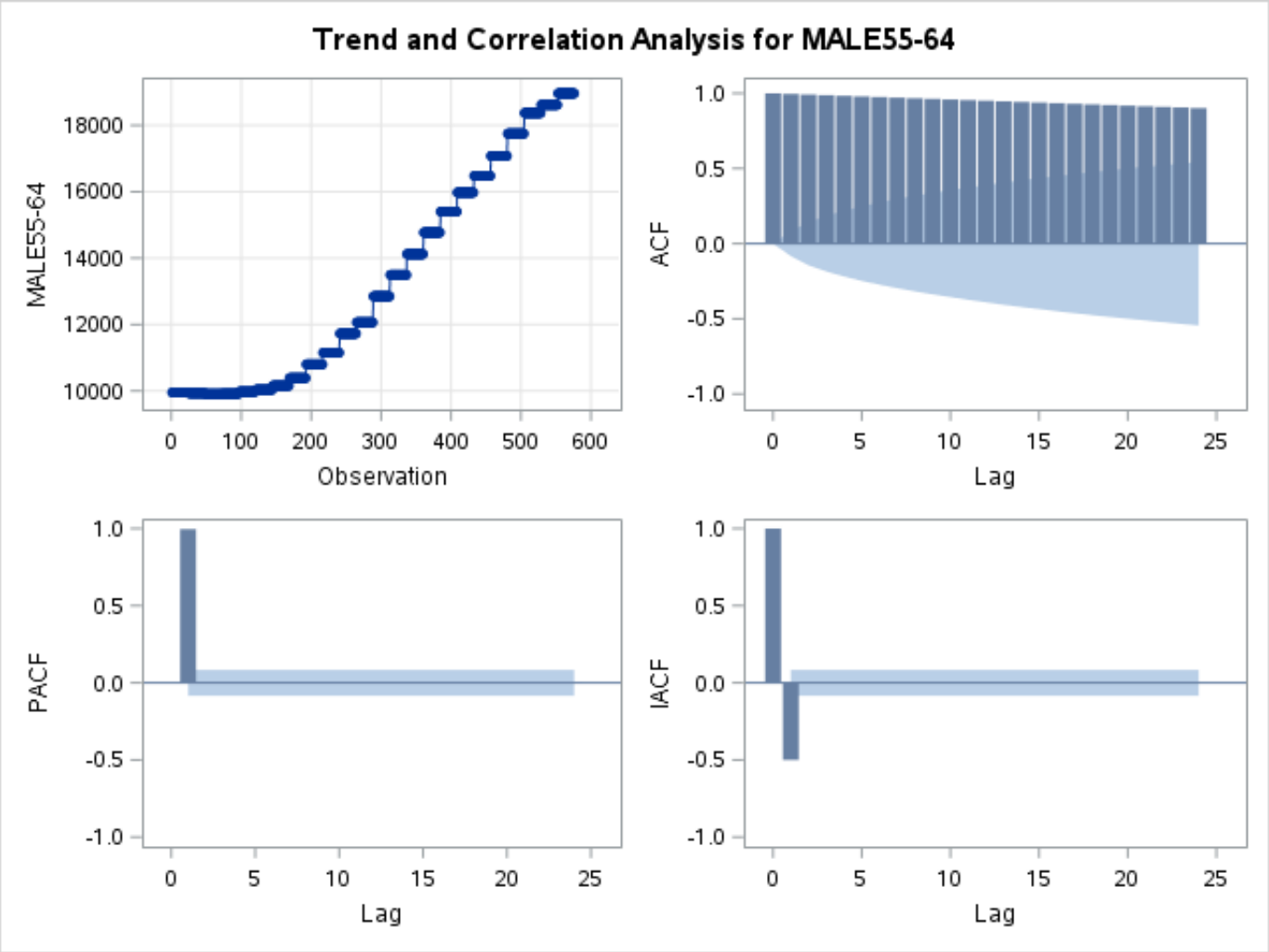
Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
241	Shift	64.05802	164393.6	<.0001
25	Shift	20.86701	138832.4	<.0001
49	Shift	19.87137	189268.5	<.0001
505	Shift	-17.45717	26608.49	<.0001
73	Shift	13.15201	15130.76	<.0001

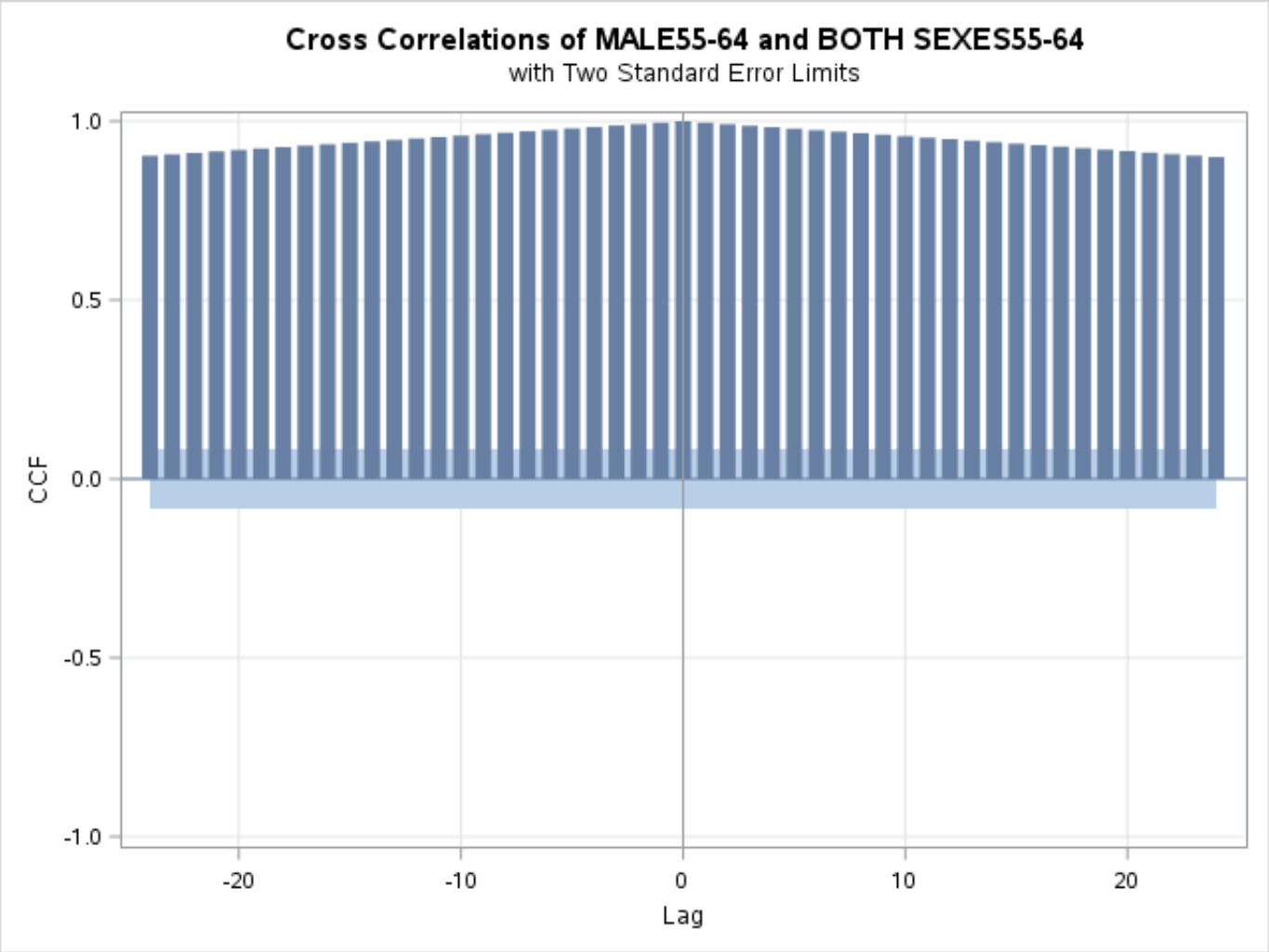
(MALE55-64)

Name of Variable = MALE55-64	
Mean of Working Series	13327.34
Standard Deviation	3196.515
Number of Observations	576

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	3389.98	6	<.0001	0.996	0.992	0.988	0.984	0.980	0.975
12	6647.24	12	<.0001	0.971	0.967	0.963	0.959	0.955	0.951
18	9773.25	18	<.0001	0.947	0.943	0.939	0.934	0.930	0.926
24	9999.99	24	<.0001	0.922	0.918	0.914	0.910	0.906	0.902

Correlation of MALE55-64 and BOTH SEXES55-64	
Variance of input =	42102345
Number of Observations	576


Trend and Correlation Analysis for MALE55-64
MALE55-64
18000
16000
14000
12000
10000
0
100
200
300
400
500
600
Observation
ACF
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
Lag
PACF
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
Lag
IACF
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
Lag



ARIMA Estimation Optimization Summary	
Estimation Method	Maximum Likelihood
Parameters Estimated	6
Termination Criteria	Maximum Relative Change in Estimates
Iteration Stopping Value	0.001
Criteria Value	1.75E-14
Maximum Absolute Value of Gradient	310.5882
R-Square Change from Last Iteration	0.008297
Objective Function	Log Gaussian Likelihood
Objective Function Value	-1502.06
Marquardt's Lambda Coefficient	1E12
Numerical Derivative Perturbation Delta	0.001
Iterations	12
Warning Message	Estimates may not have converged.

Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	-310.87949	47.32989	-6.57	<.0001	0	MALE55-64	0

MA1,1	0.43778	49.49664	0.01	0.9929	1	MALE55-64	0
MA2,1	0.0015057	0.21837	0.01	0.9945	1	MALE55-64	0
AR1,1	0.44019	49.30021	0.01	0.9929	1	MALE55-64	0
AR2,1	0.99792	0.0020028	498.27	<.0001	1	MALE55-64	0
NUM1	0.48949	0.0007273	672.98	<.0001	0	BOTH SEXES55-64	0

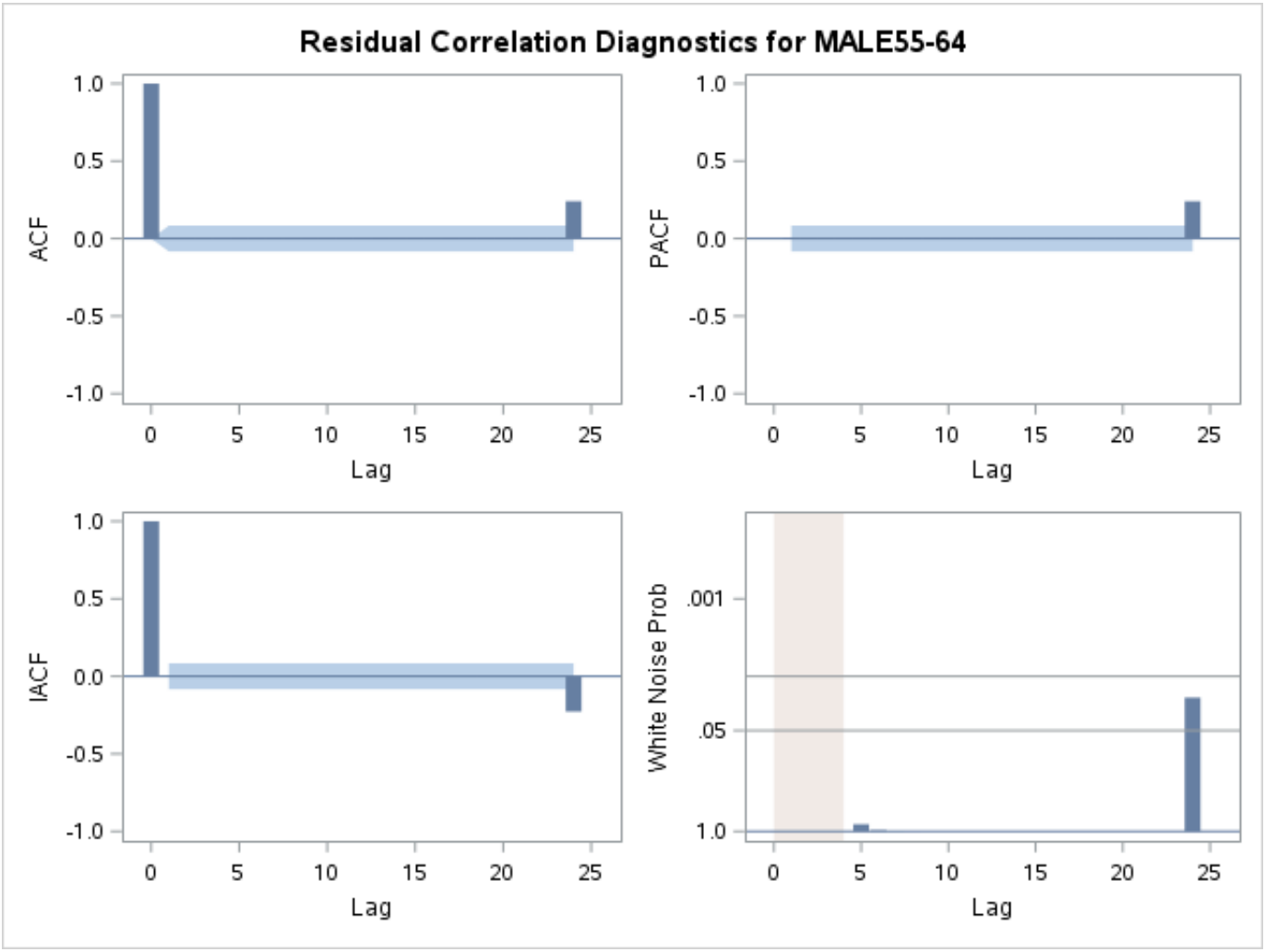
Constant Estimate	-0.36137
Variance Estimate	10.78909
Std Error Estimate	3.284675
AIC	3016.113
SBC	3042.249
Number of Residuals	576

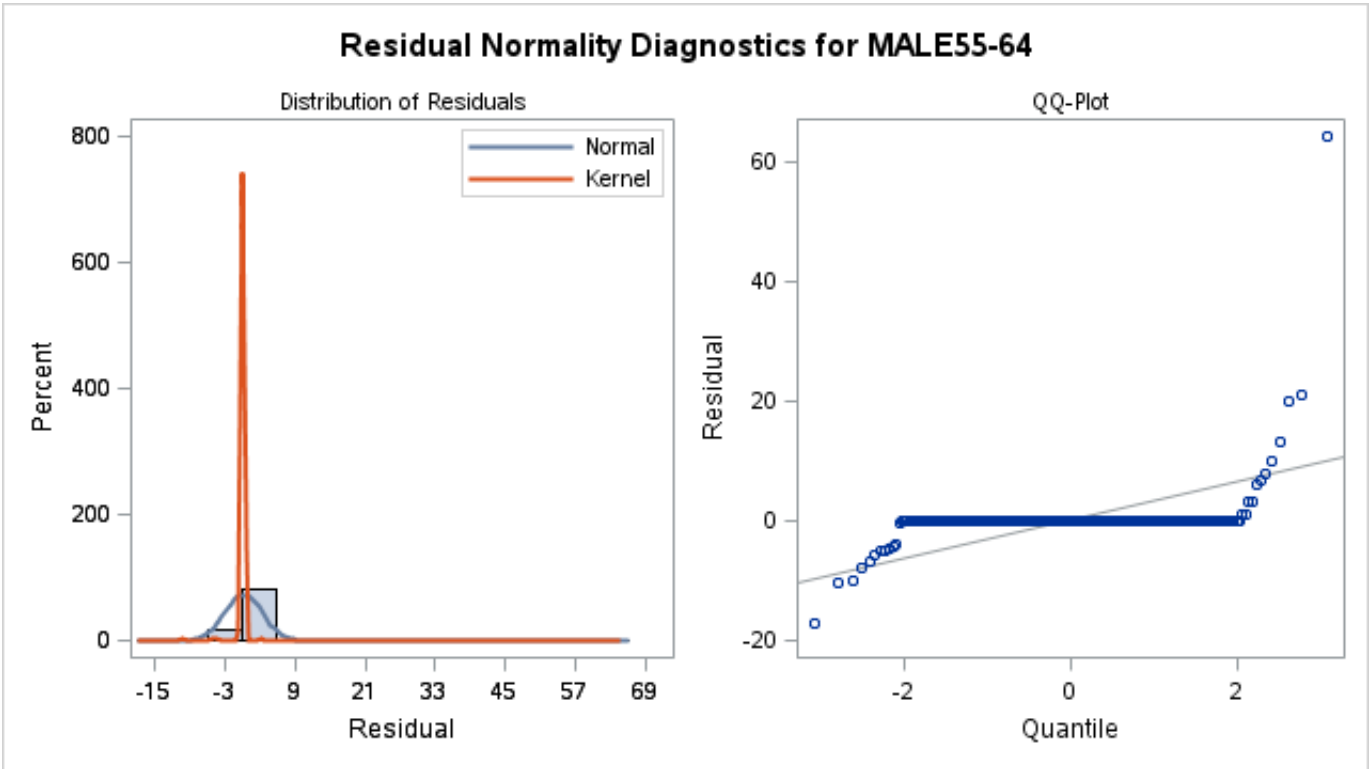
Correlations of Parameter Estimates

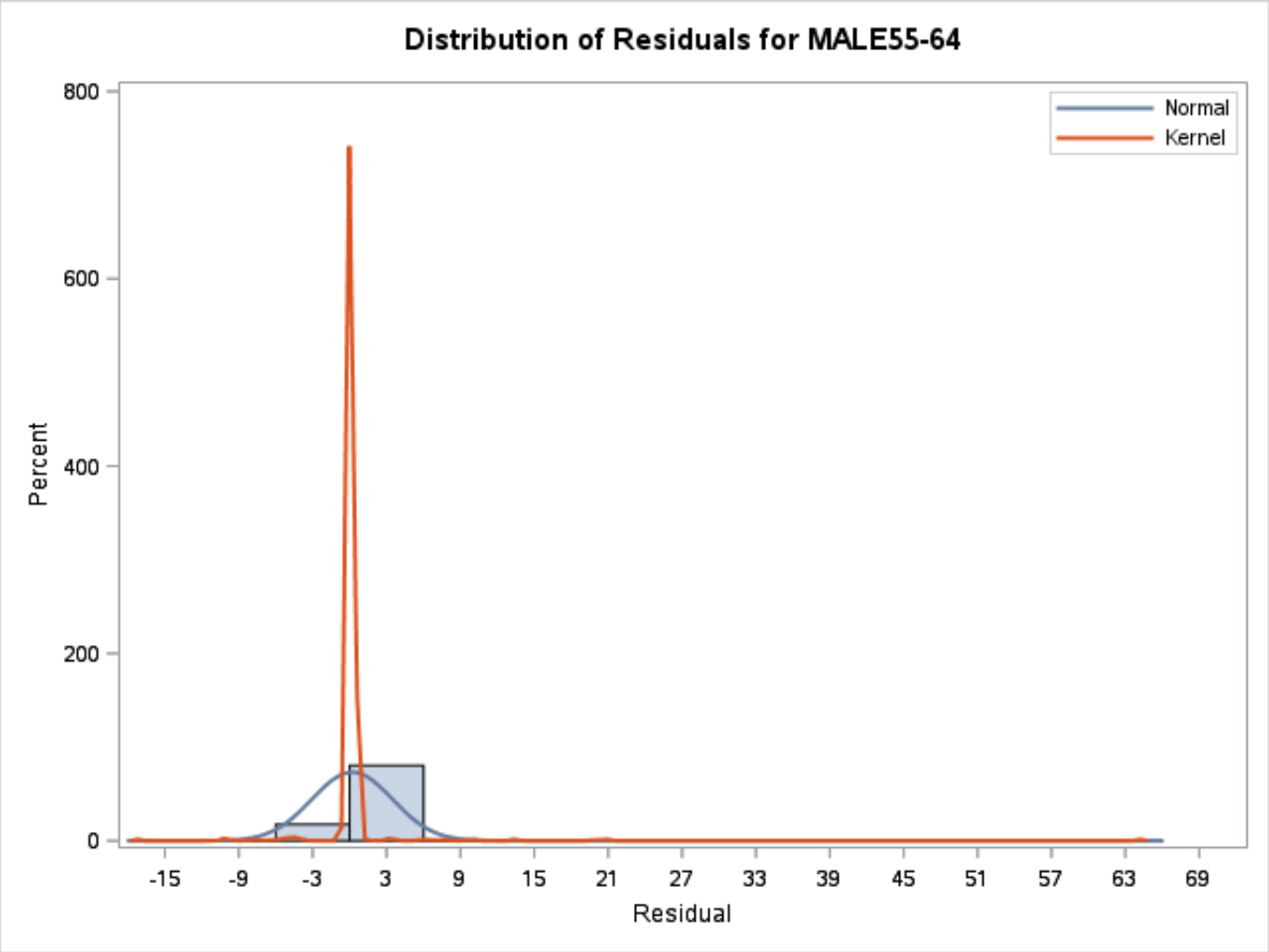
Variable Parameter	MALE55-64 MU	MALE55-64 MA1,1	MALE55-64 MA2,1	MALE55-64 AR1,1	MALE55-64 AR2,1	BOTH SEXES55-64 NUM1
MALE55-64 MU	1.000	-0.029	0.018	-0.029	0.290	-0.493
MALE55-64 MA1,1	-0.029	1.000	-0.900	1.000	-0.114	0.020
MALE55-64 MA2,1	0.018	-0.900	1.000	-0.899	0.071	-0.012
MALE55-64 AR1,1	-0.029	1.000	-0.899	1.000	-0.114	0.020
MALE55-64 AR2,1	0.290	-0.114	0.071	-0.114	1.000	-0.232
BOTH SEXES55-64 NUM1	-0.493	0.020	-0.012	0.020	-0.232	1.000

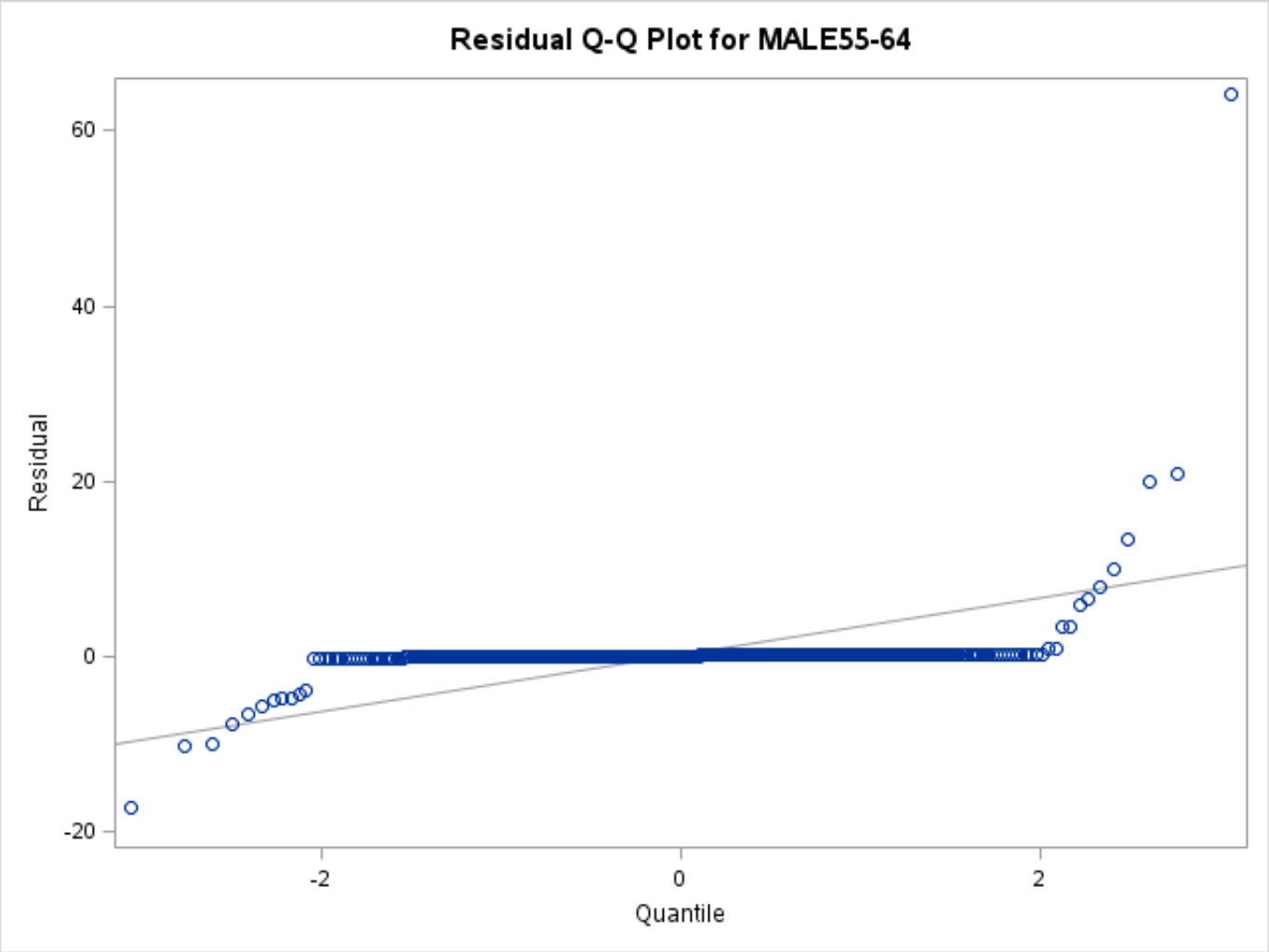
Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	0.00	2	0.9996	-0.001	-0.001	-0.000	-0.000	0.000	0.000
12	0.00	8	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.00	14	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
24	36.05	20	0.0152	0.000	0.000	-0.000	-0.000	-0.000	0.244
30	36.05	26	0.0908	0.000	0.000	0.000	0.000	0.000	0.000
36	36.05	32	0.2847	0.000	0.000	0.000	0.000	0.000	0.000
42	36.05	38	0.5598	0.000	0.000	0.000	0.000	0.000	0.000
48	69.51	44	0.0084	0.000	0.000	0.000	0.000	0.000	0.230


Residual Correlation Diagnostics for MALE55-64
ACF
PACF
IACF
White Noise Prob
Lag
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
.001
.05
1.0


Residual Normality Diagnostics for MALE55-64
Distribution of Residuals
Normal
Kernel
Percent
Residual
800
600
400
200
0
-15
-3
9
21
33
45
57
69
QQ-Plot
Residual
Quantile
60
40
20
0
-20
-2
0
2


Distribution of Residuals for MALE55-64
Normal
Kernel
Percent
800
600
400
200
0
-15
-9
-3
3
9
15
21
27
33
39
45
51
57
63
69
Residual



Model for variable MALE55-64	
Estimated Intercept	-310.879

Autoregressive Factors	
Factor 1:	1 - 0.44019 B**(1)
Factor 2:	1 - 0.99792 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.43778 B**(1)
Factor 2:	1 - 0.00151 B**(1)

Input Number 1	
Input Variable	BOTH SEXES55-64
Overall Regression Factor	0.489487

Note: Further warnings will not be printed.

The value for option LEAD= has been reduced to 0.

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

Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
241	Shift	64.05802	164393.6	<.0001
25	Shift	20.86701	138832.4	<.0001
49	Shift	19.87137	189268.5	<.0001
505	Shift	-17.45717	26608.49	<.0001
73	Shift	13.15201	15130.76	<.0001

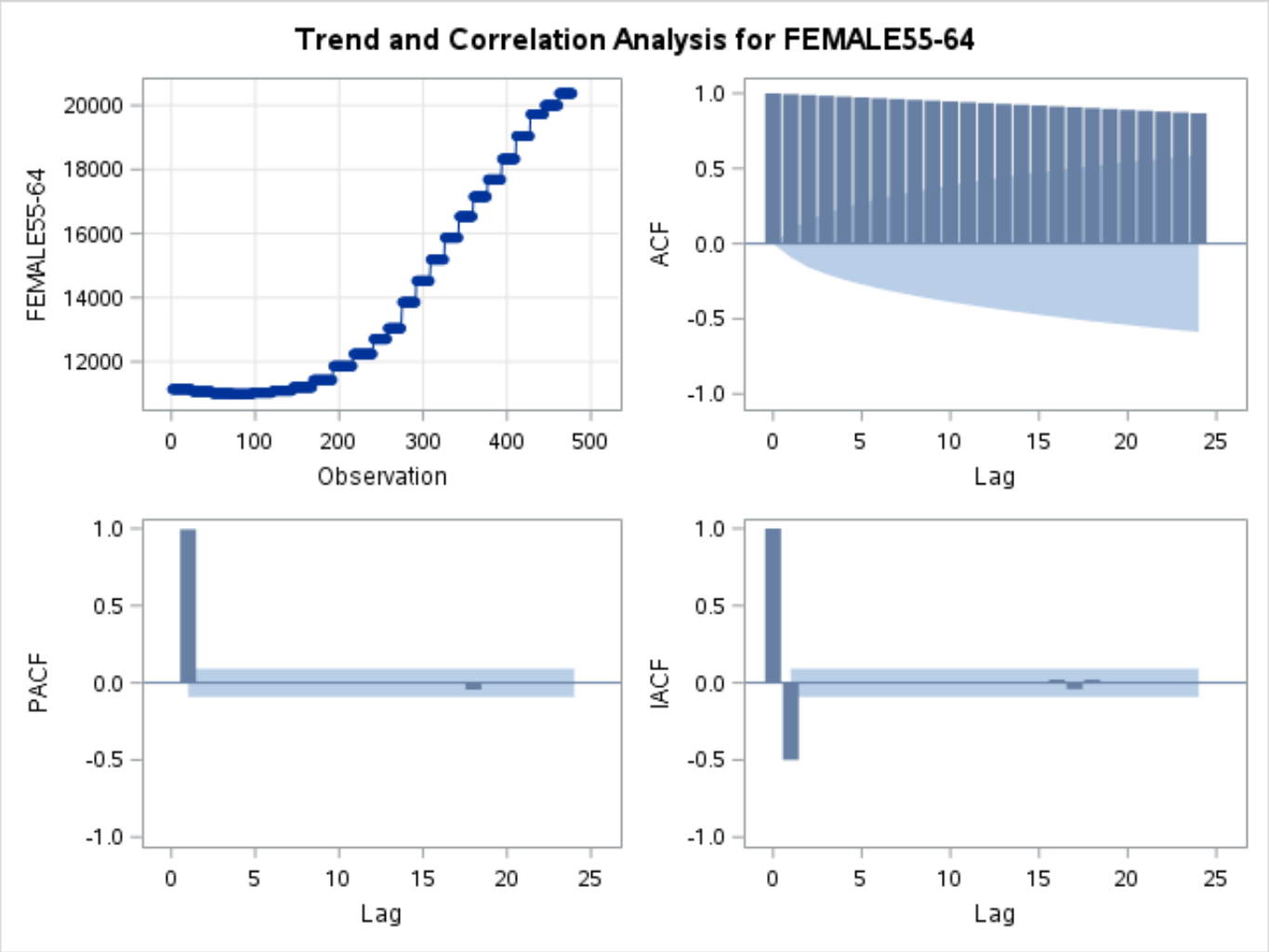
(MALE55-64)

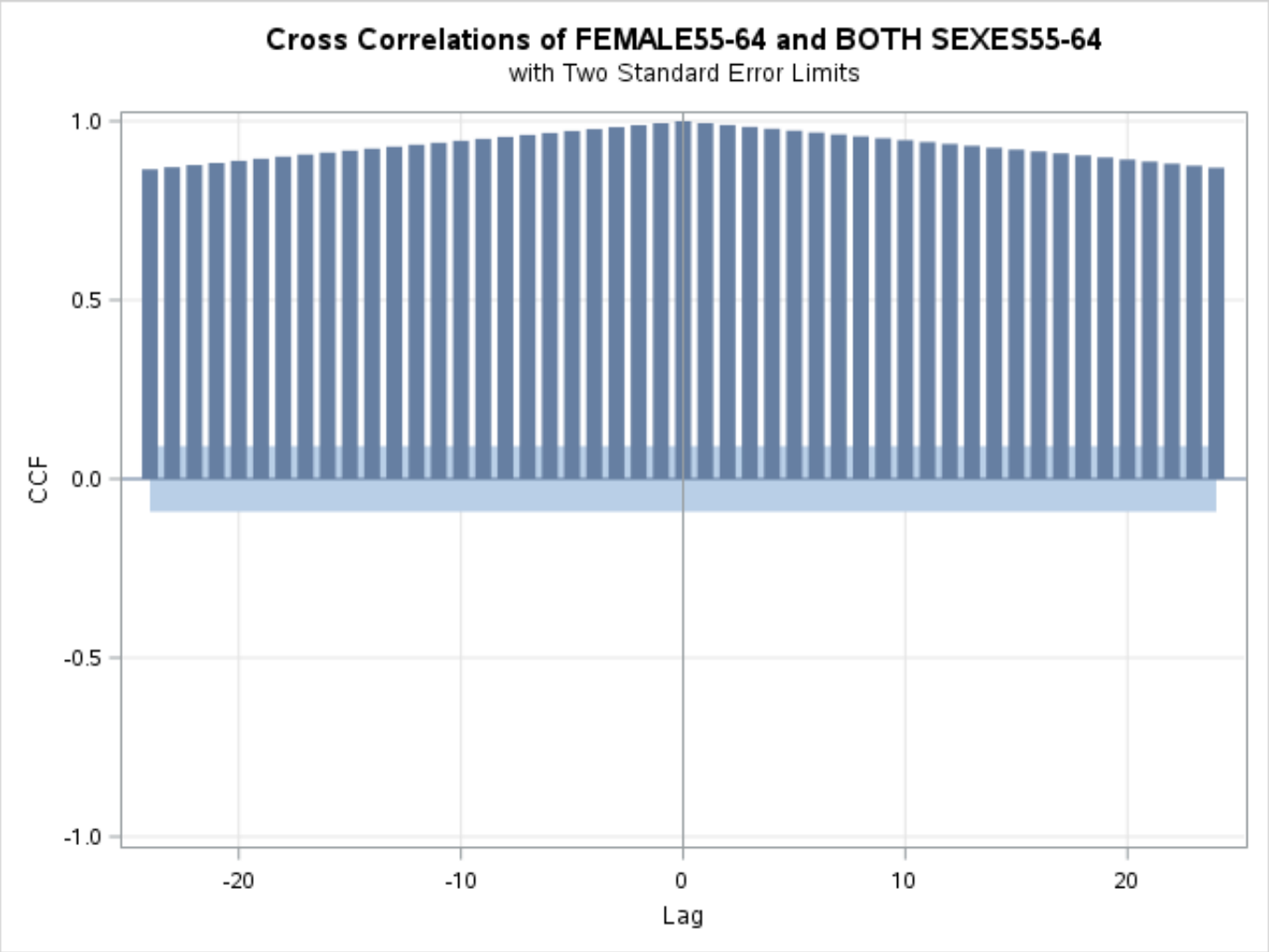
Industry_Mgmt_professional_and_R=.

Name of Variable = FEMALE55-64	
Mean of Working Series	14000.19
Standard Deviation	3243.414
Number of Observations	478

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	2792.67	6	<.0001	0.995	0.989	0.984	0.978	0.973	0.968
12	5437.33	12	<.0001	0.962	0.957	0.951	0.946	0.941	0.935
18	7936.00	18	<.0001	0.930	0.924	0.919	0.914	0.908	0.902
24	9999.99	24	<.0001	0.896	0.891	0.885	0.879	0.873	0.867

Correlation of FEMALE55-64 and BOTH SEXES55-64	
Variance of input =	40930140
Number of Observations	478


Trend and Correlation Analysis for FEMALE55-64
FEMALE55-64
20000
18000
16000
14000
12000
0
100
200
300
400
500
Observation
ACF
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
Lag
PACF
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
Lag
IACF
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
Lag



ARIMA Estimation Optimization Summary	
Estimation Method	Maximum Likelihood
Parameters Estimated	6
Termination Criteria	Maximum Relative Change in Estimates
Iteration Stopping Value	0.001
Criteria Value	2.98E-14
Maximum Absolute Value of Gradient	131.7259
R-Square Change from Last Iteration	0.002162
Objective Function	Log Gaussian Likelihood
Objective Function Value	-1296.51
Marquardt's Lambda Coefficient	1E12
Numerical Derivative Perturbation Delta	0.001
Iterations	21
Warning Message	Estimates may not have converged.

Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	313.80141	46.56793	6.74	<.0001	0	FEMALE55-64	0

MA1,1	0.01536	6.31226	0.00	0.9981	1	FEMALE55-64	0
MA2,1	0.09310	37.42623	0.00	0.9980	1	FEMALE55-64	0
AR1,1	0.99726	0.0026372	378.15	<.0001	1	FEMALE55-64	0
AR2,1	0.10964	31.13715	0.00	0.9972	1	FEMALE55-64	0
NUM1	0.51046	0.0008121	628.60	<.0001	0	BOTH SEXES55-64	0

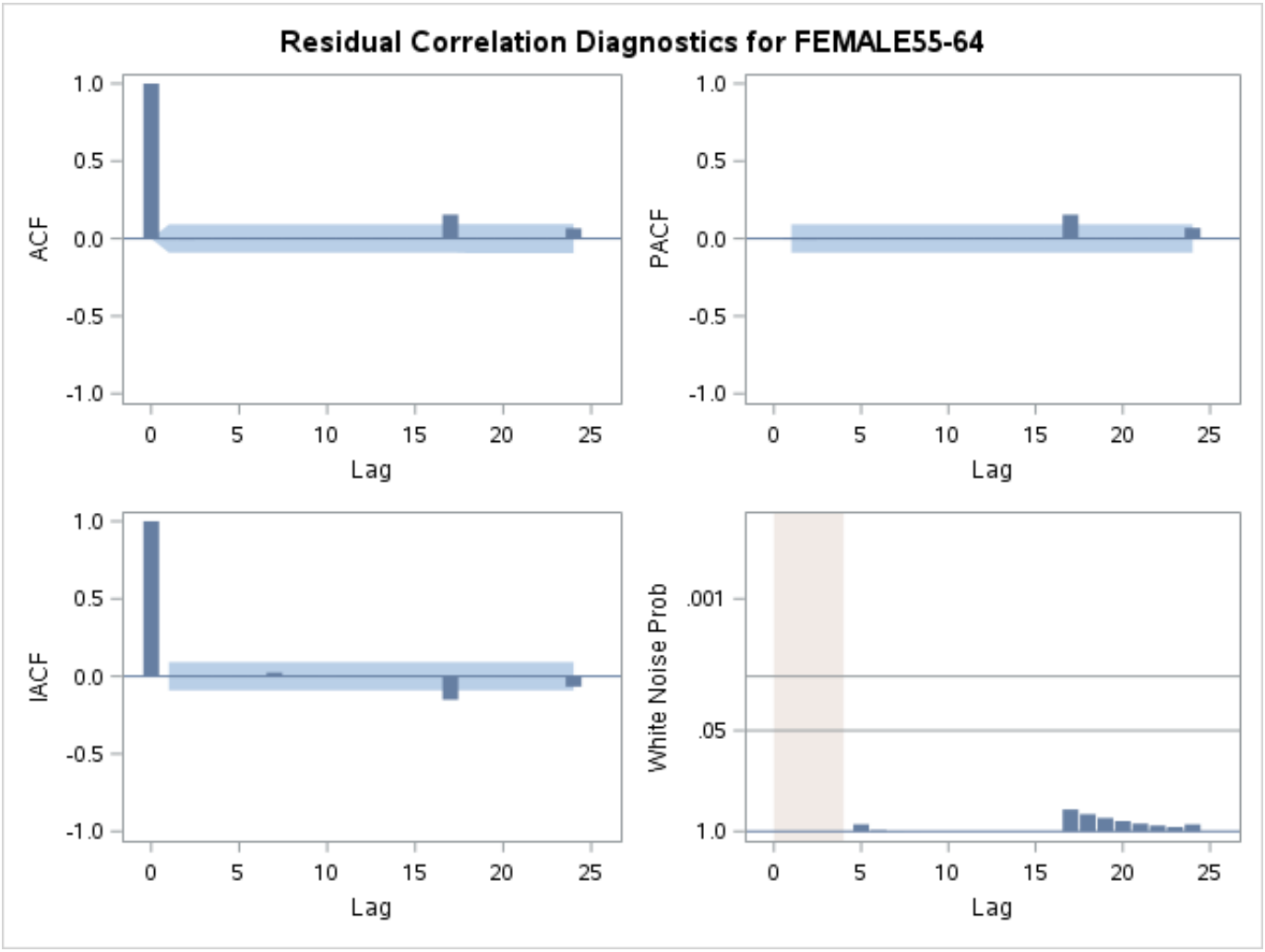
Constant Estimate	0.76519
Variance Estimate	13.31099
Std Error Estimate	3.648422
AIC	2605.027
SBC	2630.045
Number of Residuals	478

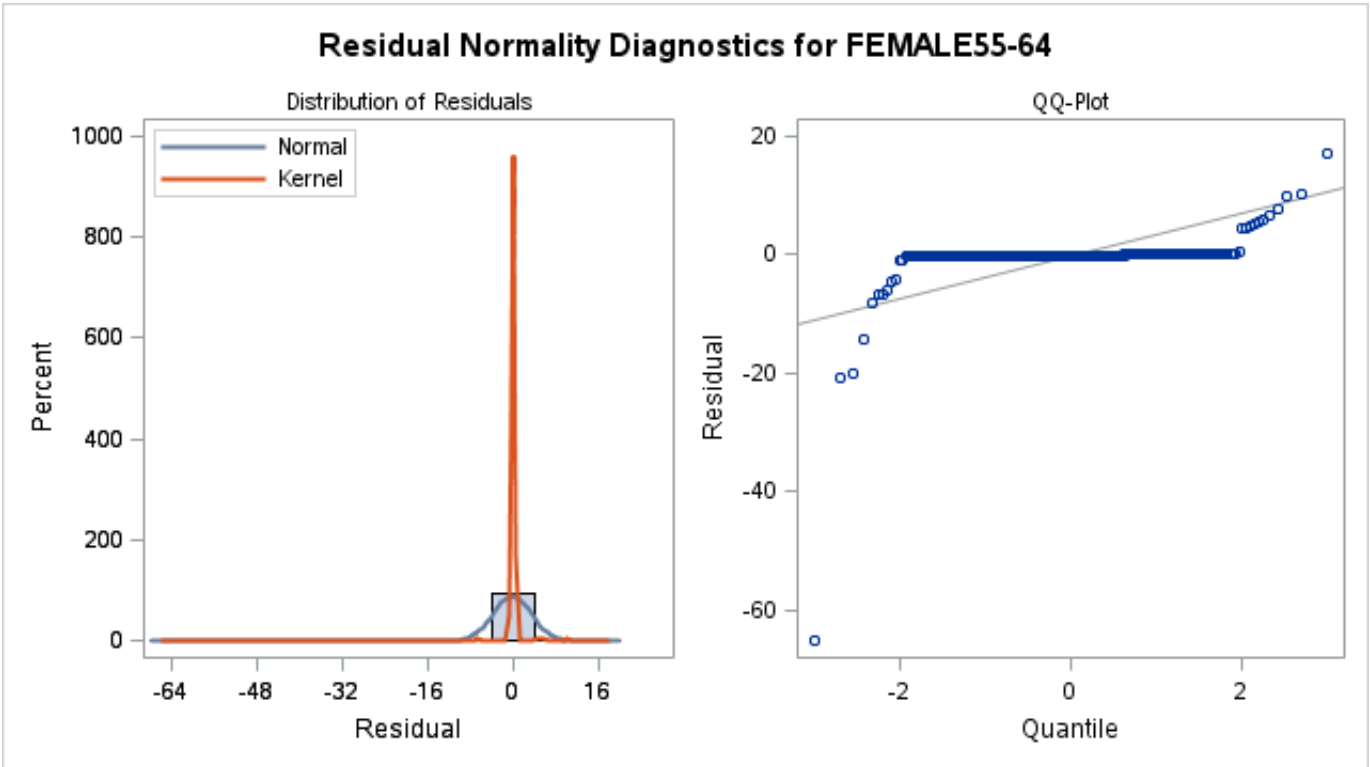
Correlations of Parameter Estimates

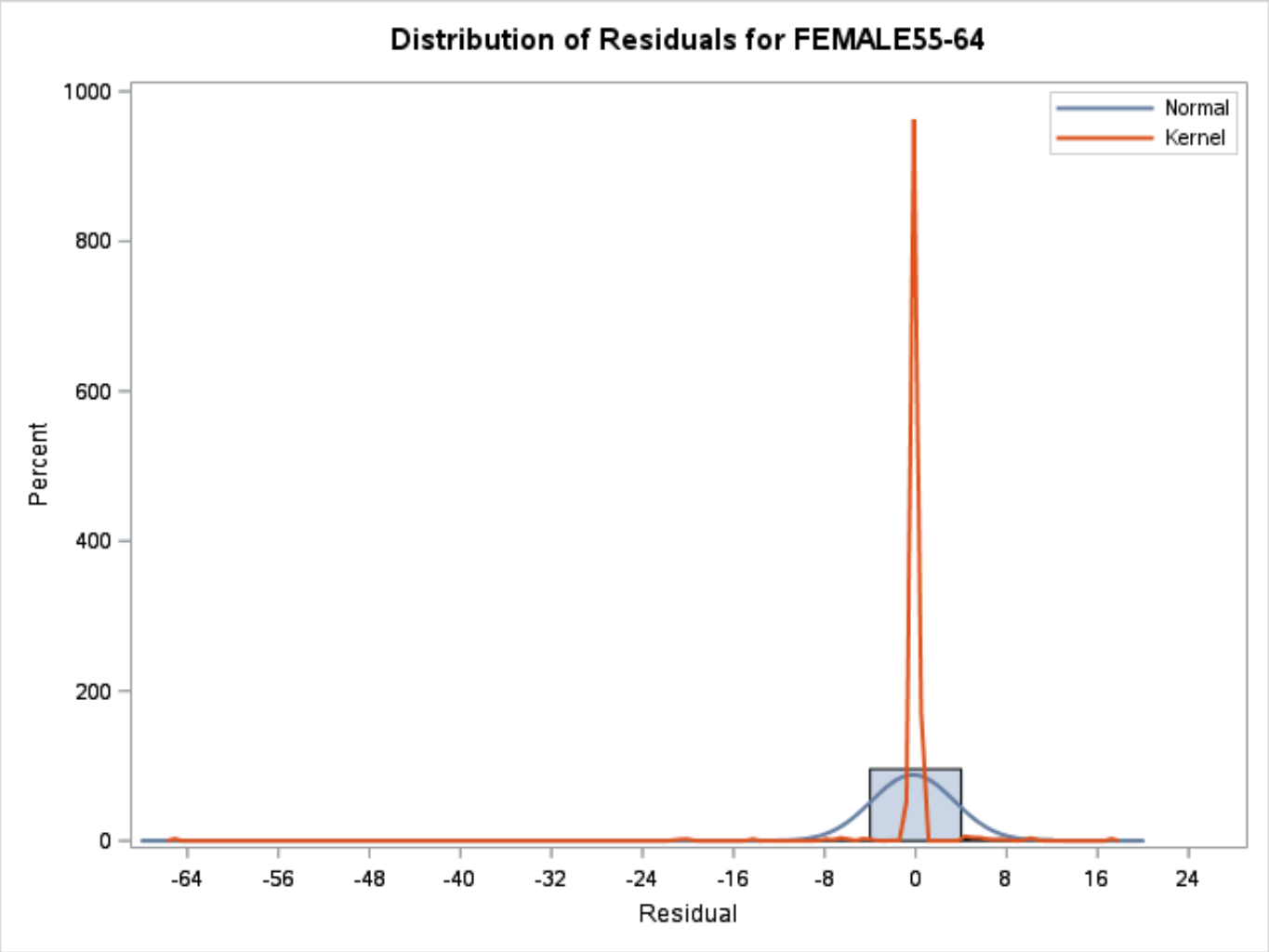
Variable Parameter	FEMALE55-64 MU	FEMALE55-64 MA1,1	FEMALE55-64 MA2,1	FEMALE55-64 AR1,1	FEMALE55-64 AR2,1	BOTH SEXES55-64 NUM1
FEMALE55-64 MU	1.000	-0.021	0.023	-0.299	0.024	-0.548
FEMALE55-64 MA1,1	-0.021	1.000	-0.997	0.083	-0.996	0.017
FEMALE55-64 MA2,1	0.023	-0.997	1.000	-0.089	1.000	-0.018
FEMALE55-64 AR1,1	-0.299	0.083	-0.089	1.000	-0.091	0.267
FEMALE55-64 AR2,1	0.024	-0.996	1.000	-0.091	1.000	-0.018
BOTH SEXES55-64 NUM1	-0.548	0.017	-0.018	0.267	-0.018	1.000

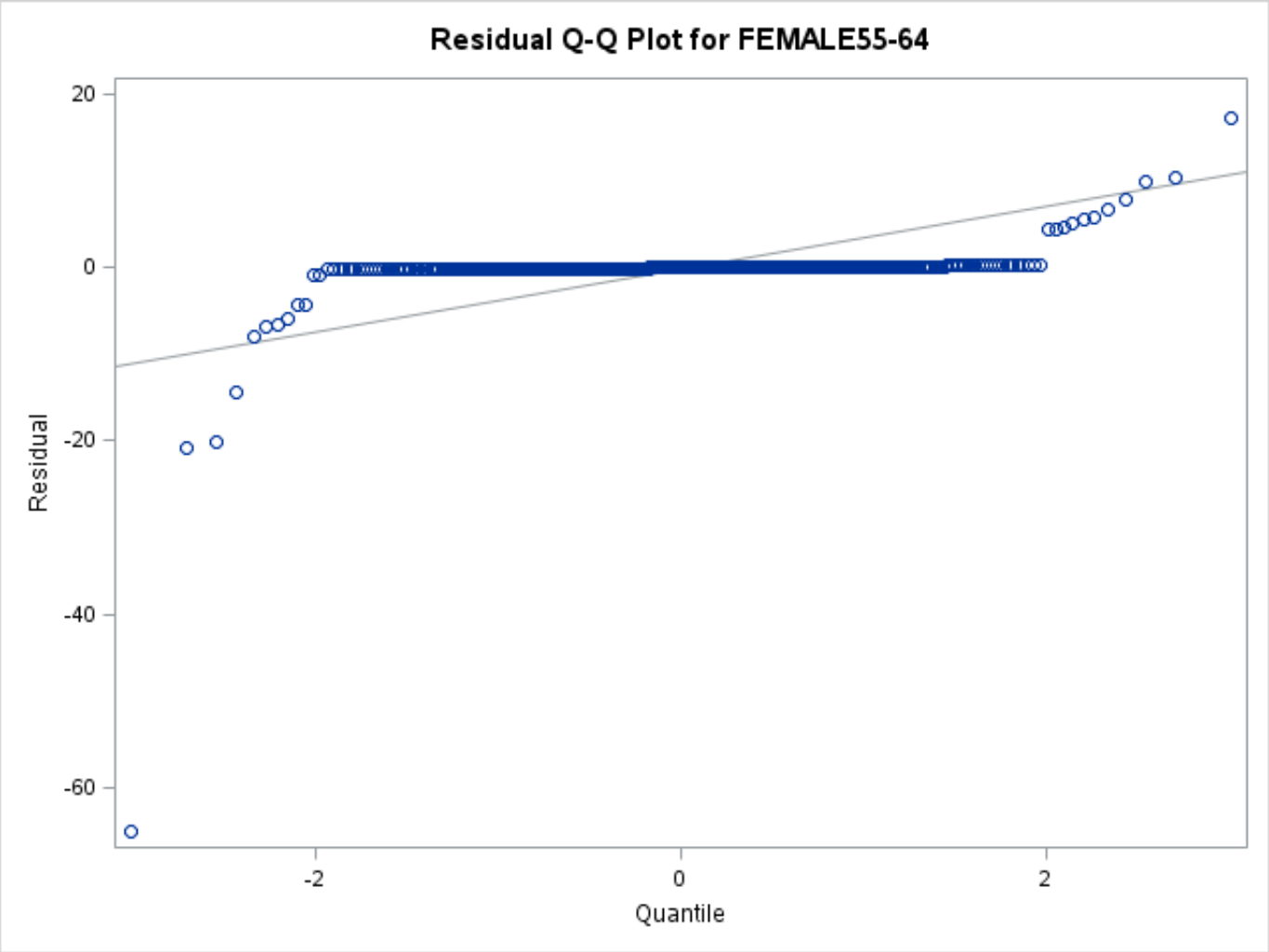
Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	0.00	2	0.9994	-0.001	-0.001	0.000	0.000	0.000	0.000
12	0.00	8	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
18	12.58	14	0.5598	0.000	0.000	-0.000	0.000	0.159	0.000
24	15.12	20	0.7697	-0.000	0.000	0.000	0.000	0.000	0.071
30	15.12	26	0.9552	0.001	0.001	0.001	0.001	0.001	0.001
36	24.96	32	0.8078	0.001	0.000	0.000	0.138	0.001	0.000
42	24.97	38	0.9486	0.001	0.001	0.001	0.001	-0.005	0.001
48	29.12	44	0.9589	0.001	0.001	0.001	0.000	0.001	0.088


Residual Correlation Diagnostics for FEMALE55-64
ACF
PACF
IACF
White Noise Prob
Lag
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
.001
.05
1.0


Residual Normality Diagnostics for FEMALE55-64
Distribution of Residuals
Normal
Kernel
Percent
Residual
1000
800
600
400
200
0
-64
-48
-32
-16
0
16
QQ-Plot
Residual
Quantile
20
0
-20
-40
-60
-2
0
2


Distribution of Residuals for FEMALE55-64
Normal
Kernel
Percent
1000
800
600
400
200
0
-64
-56
-48
-40
-32
-24
-16
-8
0
8
16
24
Residual



Model for variable FEMALE55-64	
Estimated Intercept	313.8014

Autoregressive Factors	
Factor 1:	1 - 0.99726 B**(1)
Factor 2:	1 - 0.10964 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.01536 B**(1)
Factor 2:	1 - 0.0931 B**(1)

Input Number 1	
Input Variable	BOTH SEXES55-64
Overall Regression Factor	0.510458

Note: Further warnings will not be printed.

The value for option LEAD= has been reduced to 0.

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

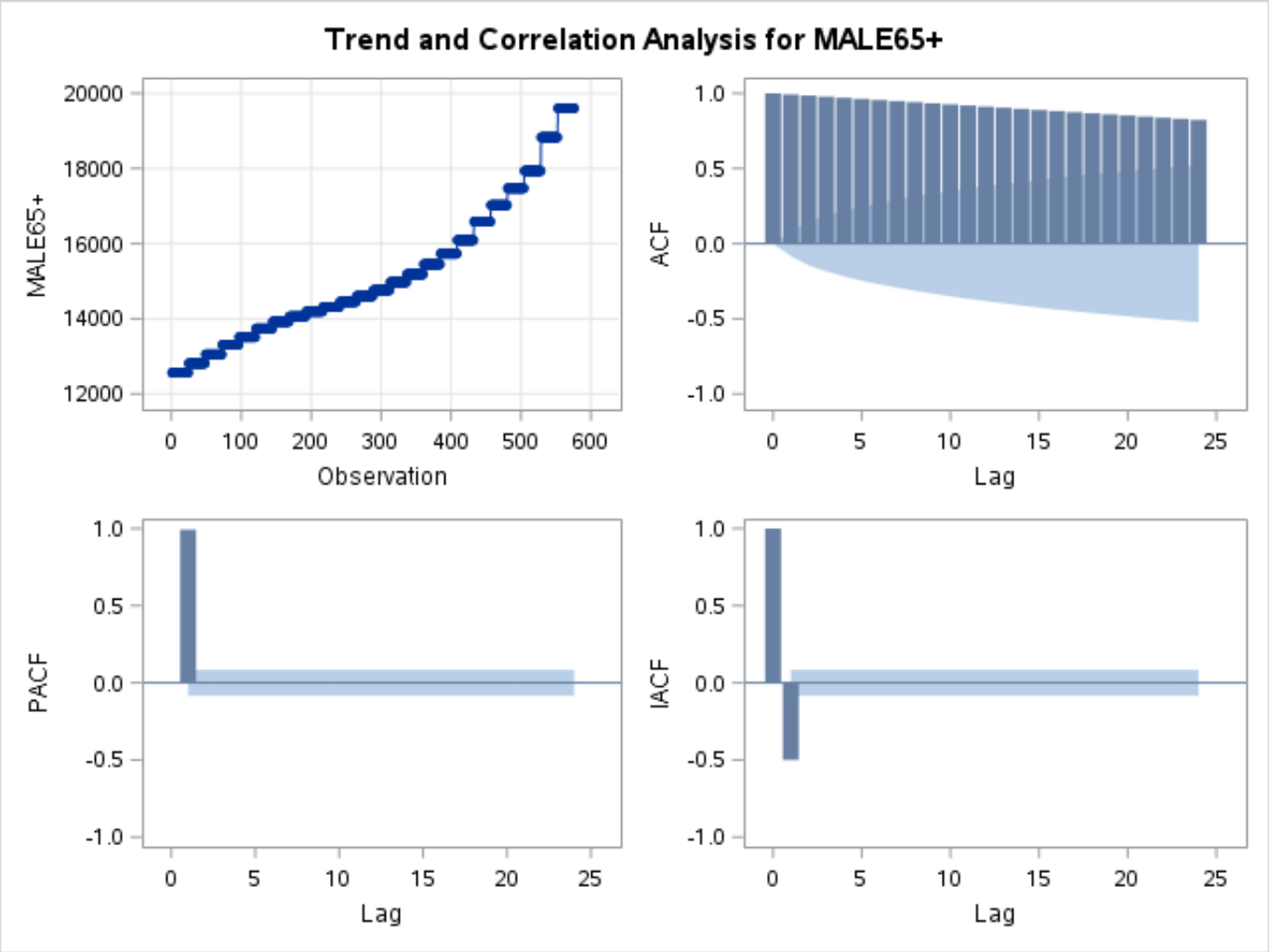
Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
241	Shift	-64.97074	167589.5	<.0001
25	Shift	-20.80962	72988.18	<.0001
49	Shift	-19.78654	139832.2	<.0001
428	Shift	17.57888	17369.97	<.0001
73	Shift	-14.05522	11133.84	<.0001

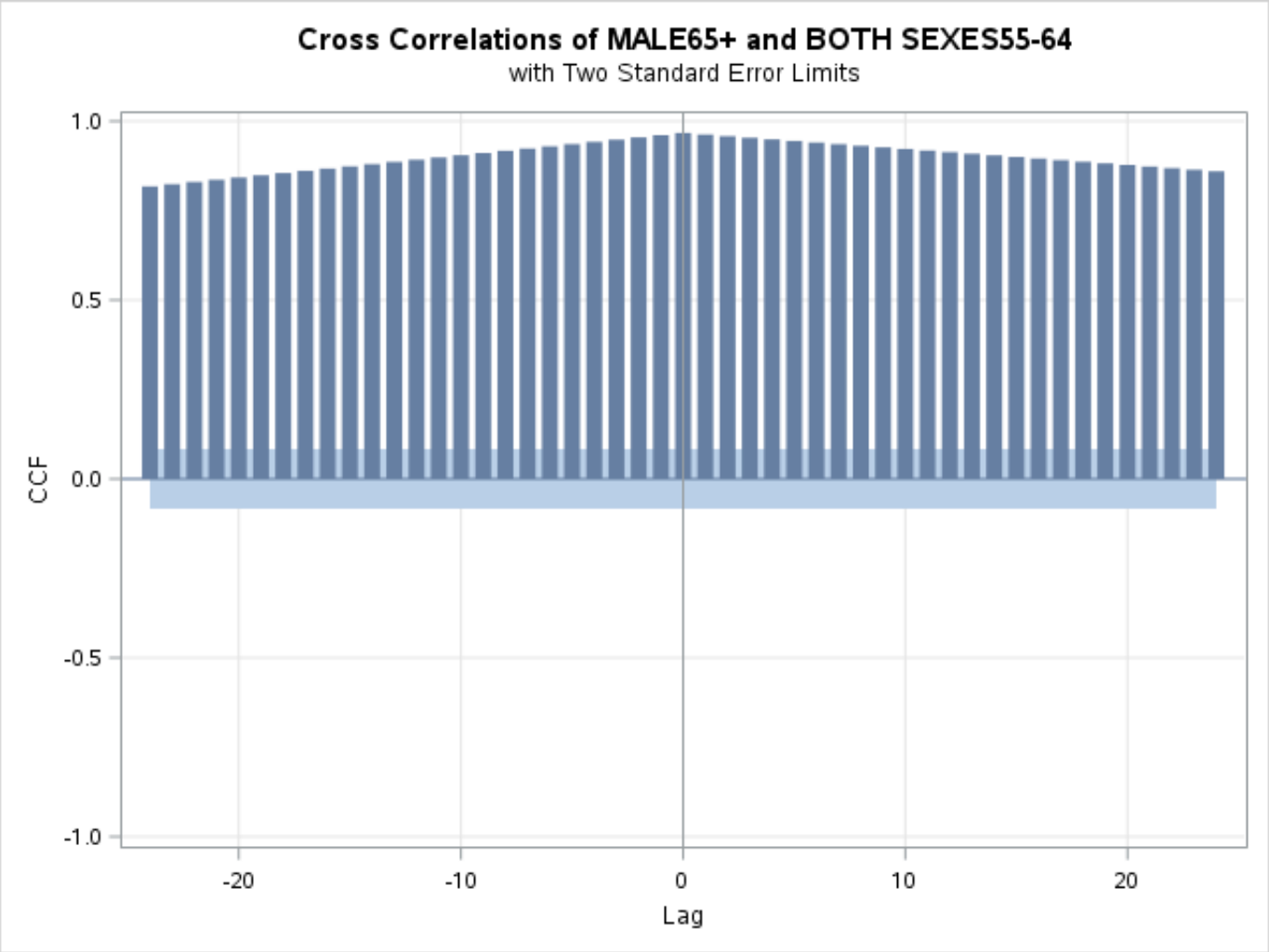
(MALE65+)

Name of Variable = MALE65+	
Mean of Working Series	15174.01
Standard Deviation	1863.153
Number of Observations	576

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	3311.78	6	<.0001	0.993	0.985	0.978	0.971	0.963	0.956
12	6361.61	12	<.0001	0.948	0.941	0.934	0.926	0.919	0.912
18	9157.85	18	<.0001	0.904	0.897	0.889	0.882	0.875	0.867
24	9999.99	24	<.0001	0.860	0.853	0.845	0.838	0.830	0.823

Correlation of MALE65+ and BOTH SEXES55-64	
Variance of input =	42102345
Number of Observations	576


Trend and Correlation Analysis for MALE65+
MALE65+
Observation
ACF
Lag
PACF
Lag
IACF
Lag



ARIMA Estimation Optimization Summary	
Estimation Method	Maximum Likelihood
Parameters Estimated	6
Termination Criteria	Maximum Relative Change in Estimates
Iteration Stopping Value	0.001
Criteria Value	9.45E-15
Maximum Absolute Value of Gradient	17388.61
R-Square Change from Last Iteration	0.001901
Objective Function	Log Gaussian Likelihood
Objective Function Value	-3072.4
Marquardt's Lambda Coefficient	1E12
Numerical Derivative Perturbation Delta	0.001
Iterations	19
Warning Message	Estimates may not have converged.

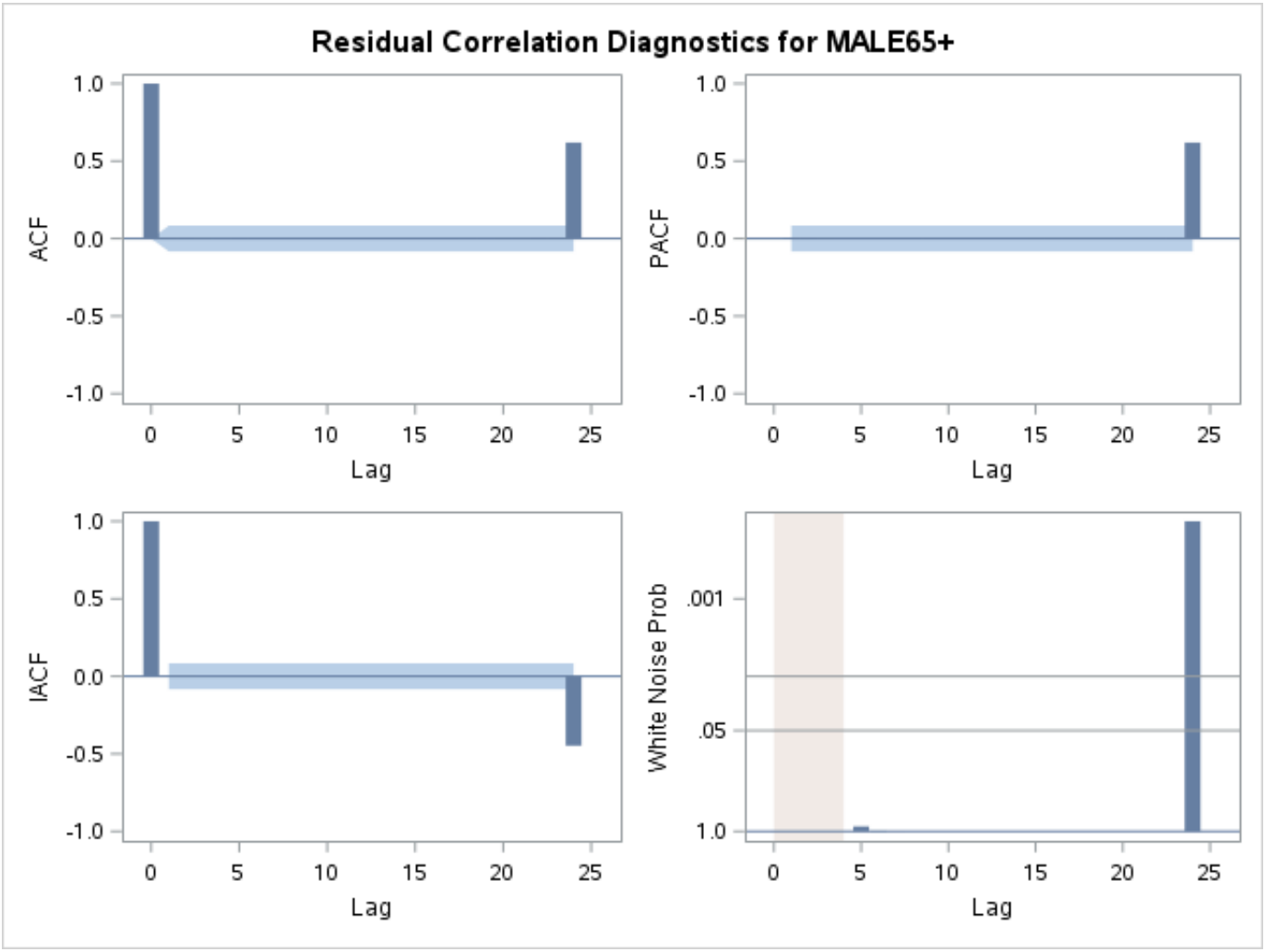
Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	7540.9	880.64196	8.56	<.0001	0	MALE65+	0
MA1,1	0.0069749	1.15186	0.01	0.9952	1	MALE65+	0

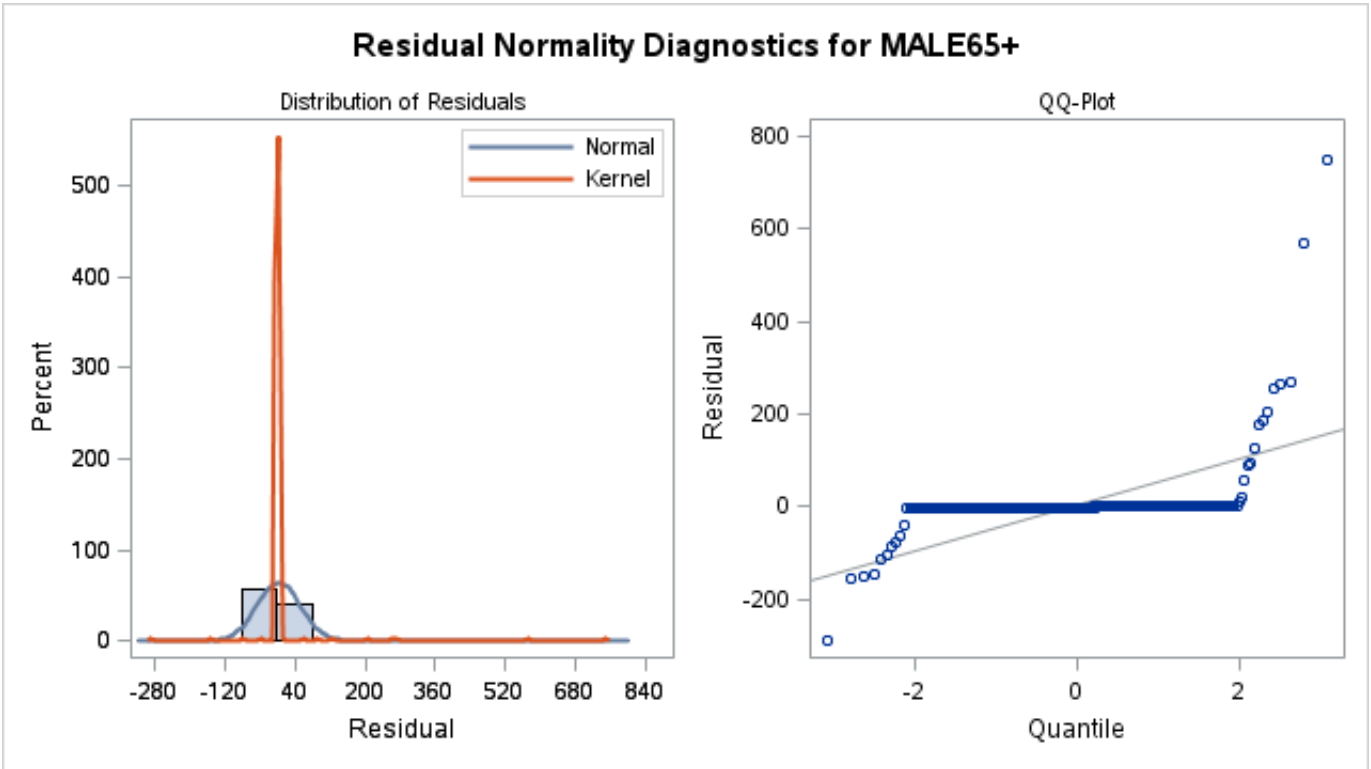
MA2,1	0.19392	27.02929	0.01	0.9943	1	MALE65+	0
AR1,1	0.20278	25.89943	0.01	0.9938	1	MALE65+	0
AR2,1	0.99760	0.0039943	249.75	<.0001	1	MALE65+	0
NUM1	0.27977	0.01081	25.87	<.0001	0	BOTH SEXES55-64	0

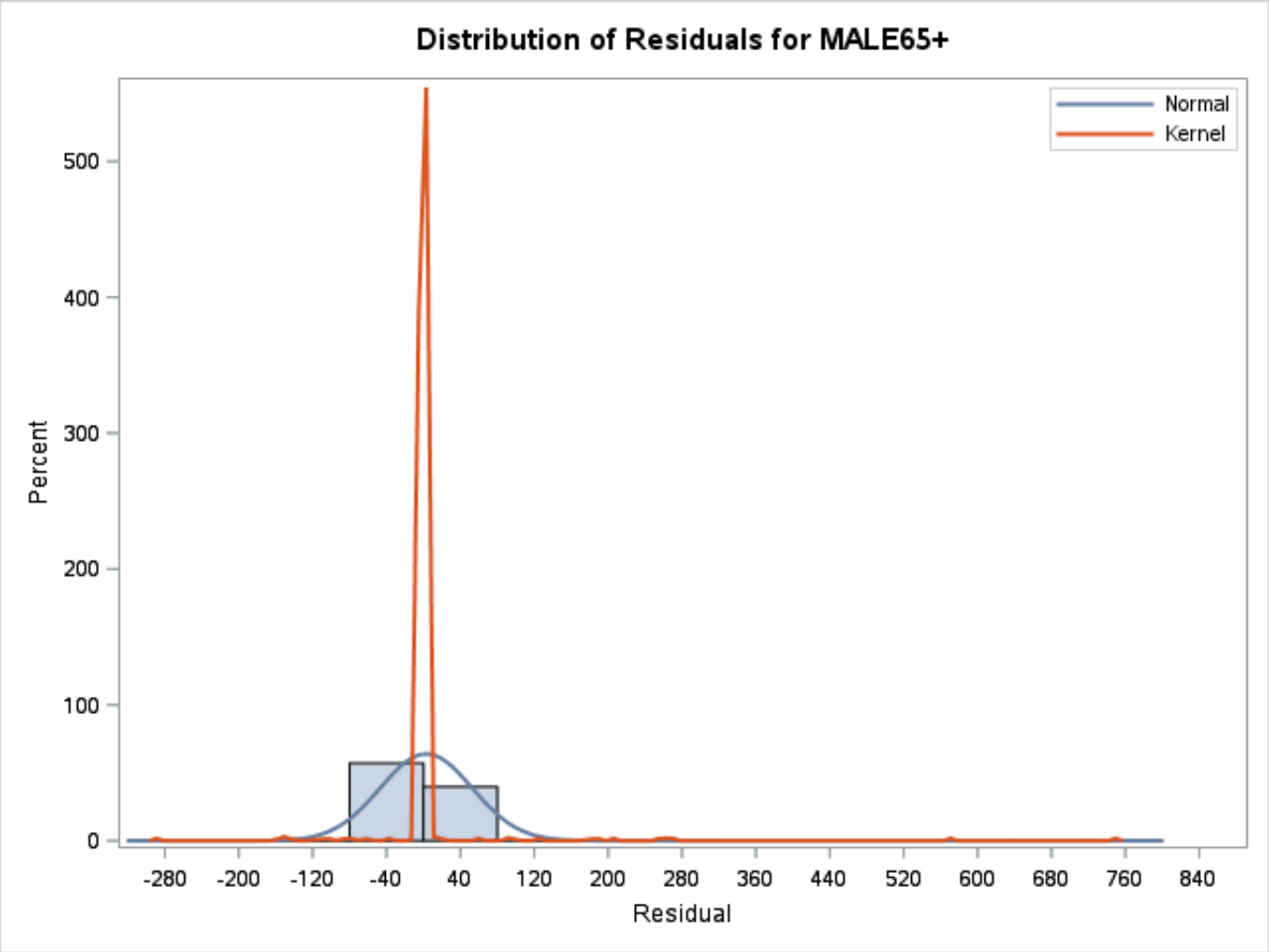
Constant Estimate	14.45544
Variance Estimate	2518.36
Std Error Estimate	50.18326
AIC	6156.797
SBC	6182.934
Number of Residuals	576

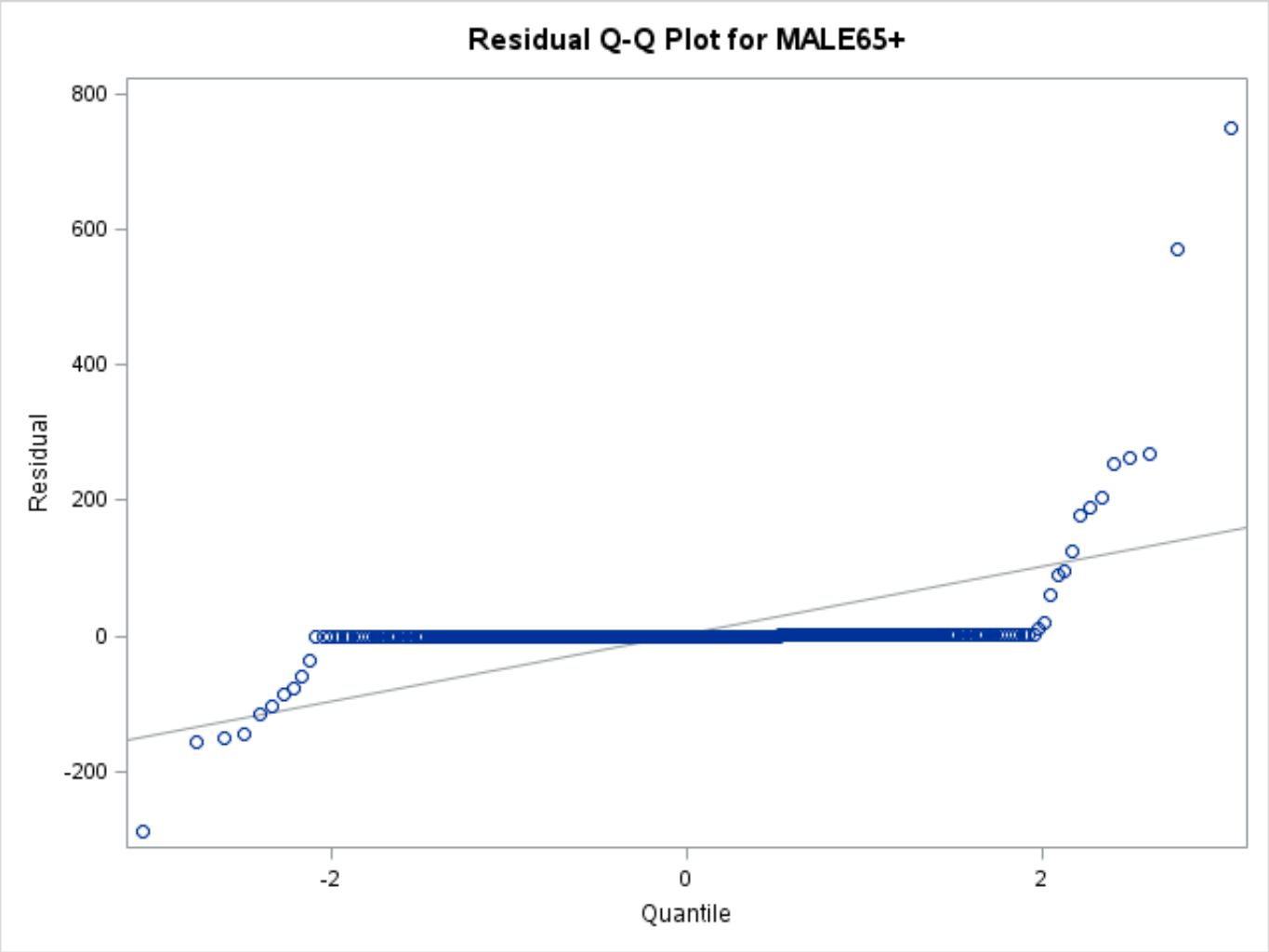
Correlations of Parameter Estimates						
Variable Parameter	**MALE65+ MU**	**MALE65+ MA1,1**	**MALE65+ MA2,1**	**MALE65+ AR1,1**	**MALE65+ AR2,1**	**BOTH SEXES55-64 NUM1**
MALE65+ MU	1.000	0.090	-0.109	-0.110	0.688	-0.401
MALE65+ MA1,1	0.090	1.000	-0.982	-0.981	0.136	-0.001
MALE65+ MA2,1	-0.109	-0.982	1.000	1.000	-0.164	0.001
MALE65+ AR1,1	-0.110	-0.981	1.000	1.000	-0.165	0.001
MALE65+ AR2,1	0.688	0.136	-0.164	-0.165	1.000	-0.064
BOTH SEXES55-64 NUM1	-0.401	-0.001	0.001	0.001	-0.064	1.000

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	0.00	2	0.9984	-0.001	-0.001	0.001	0.001	0.001	0.001
12	0.01	8	1.0000	0.001	0.001	0.001	0.001	0.001	0.001
18	0.01	14	1.0000	0.001	0.001	0.001	0.001	0.001	0.001
24	231.64	20	<.0001	0.001	0.001	0.001	-0.000	-0.000	0.620
30	231.64	26	<.0001	-0.001	-0.001	0.000	0.000	0.000	0.000
36	231.64	32	<.0001	0.000	0.000	0.000	0.000	0.000	0.000
42	231.65	38	<.0001	0.000	0.000	0.000	0.000	0.000	0.000
48	281.15	44	<.0001	0.000	0.000	0.000	-0.000	-0.000	0.280


Residual Correlation Diagnostics for MALE65+
ACF
PACF
IACF
White Noise Prob
Lag
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
.001
.05
1.0


Residual Normality Diagnostics for MALE65+
Distribution of Residuals
Normal
Kernel
Percent
Residual
500
400
300
200
100
0
-280
-120
40
200
360
520
680
840
QQ-Plot
Residual
Quantile
800
600
400
200
0
-200
-2
0
2


Distribution of Residuals for MALE65+
Normal
Kernel
Percent
500
400
300
200
100
0
-280
-200
-120
-40
40
120
200
280
360
440
520
600
680
760
840
Residual



Model for variable MALE65+	
Estimated Intercept	7540.914

Autoregressive Factors	
Factor 1:	1 - 0.20278 B**(1)
Factor 2:	1 - 0.9976 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.00697 B**(1)
Factor 2:	1 - 0.19392 B**(1)

Input Number 1	
Input Variable	BOTH SEXES55-64
Overall Regression Factor	0.27977

Note: Further warnings will not be printed.

The value for option LEAD= has been reduced to 0.

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

Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
529	Shift	750.50936	268246.3	<.0001
553	Shift	569.09390	195830.4	<.0001
289	Shift	-289.29194	50680.64	<.0001
25	Shift	269.58858	112564.7	<.0001
49	Shift	262.05078	46597.96	<.0001

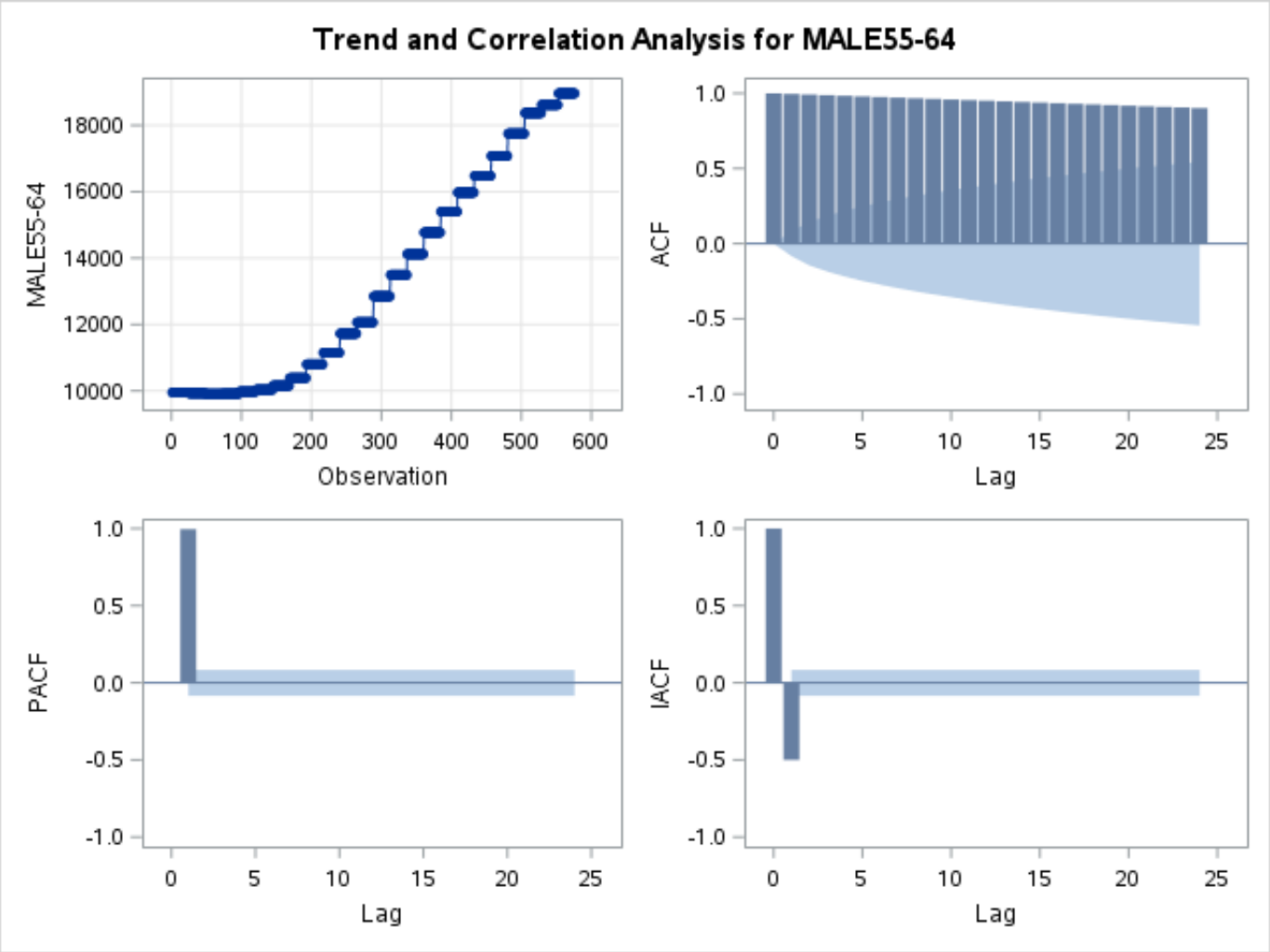
(MALE55-64)

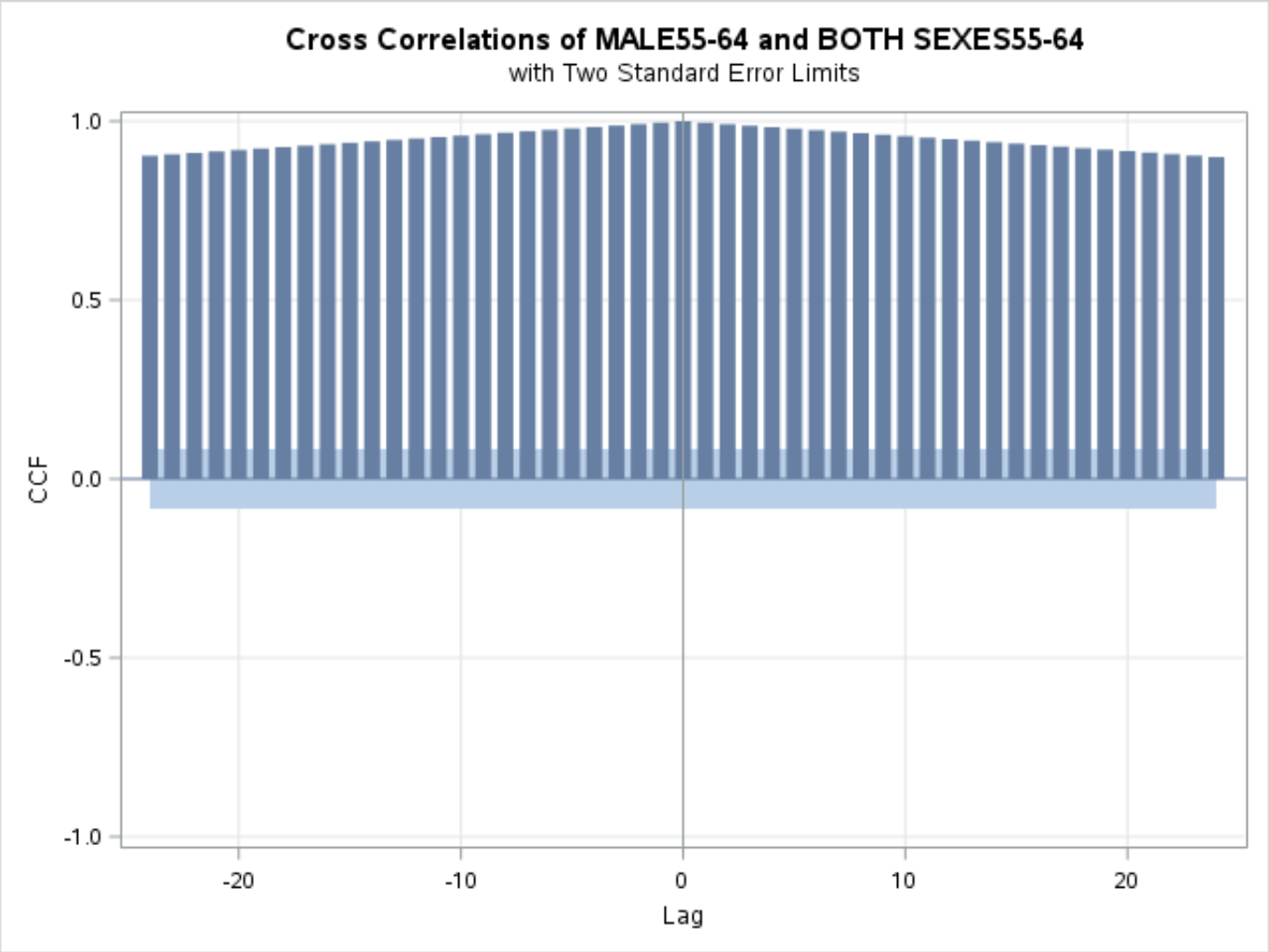
Name of Variable = MALE55-64	
Mean of Working Series	13327.34
Standard Deviation	3196.515

Number of Observations	576

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	3389.98	6	<.0001	0.996	0.992	0.988	0.984	0.980	0.975
12	6647.24	12	<.0001	0.971	0.967	0.963	0.959	0.955	0.951
18	9773.25	18	<.0001	0.947	0.943	0.939	0.934	0.930	0.926
24	9999.99	24	<.0001	0.922	0.918	0.914	0.910	0.906	0.902

Correlation of MALE55-64 and BOTH SEXES55-64	
Variance of input =	42102345
Number of Observations	576





ARIMA Estimation Optimization Summary	
Estimation Method	Maximum Likelihood
Parameters Estimated	6
Termination Criteria	Maximum Relative Change in Estimates
Iteration Stopping Value	0.001
Criteria Value	1.75E-14
Maximum Absolute Value of Gradient	310.5882
R-Square Change from Last Iteration	0.008297
Objective Function	Log Gaussian Likelihood
Objective Function Value	-1502.06
Marquardt's Lambda Coefficient	1E12
Numerical Derivative Perturbation Delta	0.001
Iterations	12
Warning Message	Estimates may not have converged.

Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	-310.87949	47.32989	-6.57	<.0001	0	MALE55-64	0

MA1,1	0.43778	49.49664	0.01	0.9929	1	MALE55-64	0
MA2,1	0.0015057	0.21837	0.01	0.9945	1	MALE55-64	0
AR1,1	0.44019	49.30021	0.01	0.9929	1	MALE55-64	0
AR2,1	0.99792	0.0020028	498.27	<.0001	1	MALE55-64	0
NUM1	0.48949	0.0007273	672.98	<.0001	0	BOTH SEXES55-64	0

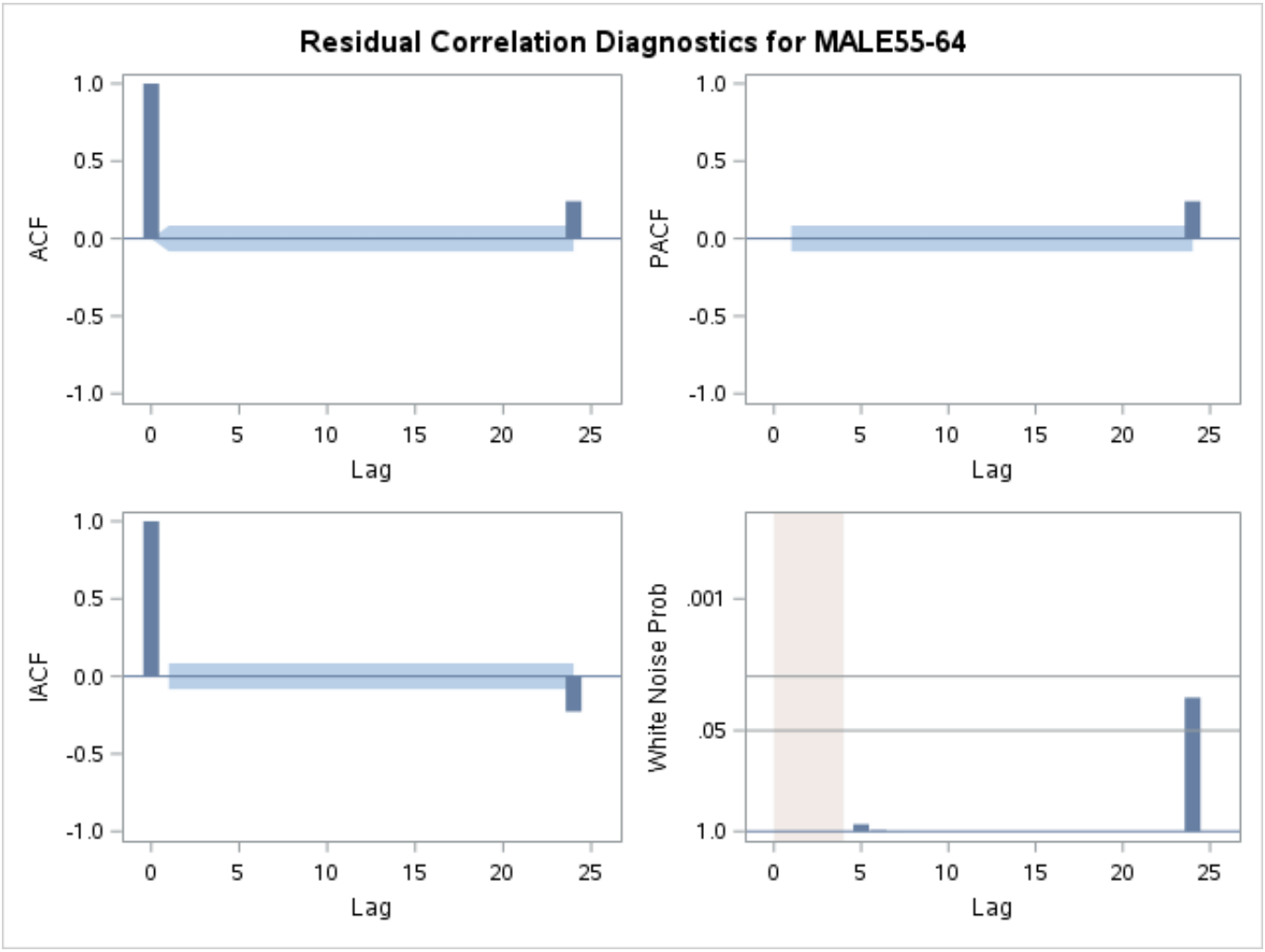
Constant Estimate	-0.36137
Variance Estimate	10.78909
Std Error Estimate	3.284675
AIC	3016.113
SBC	3042.249
Number of Residuals	576

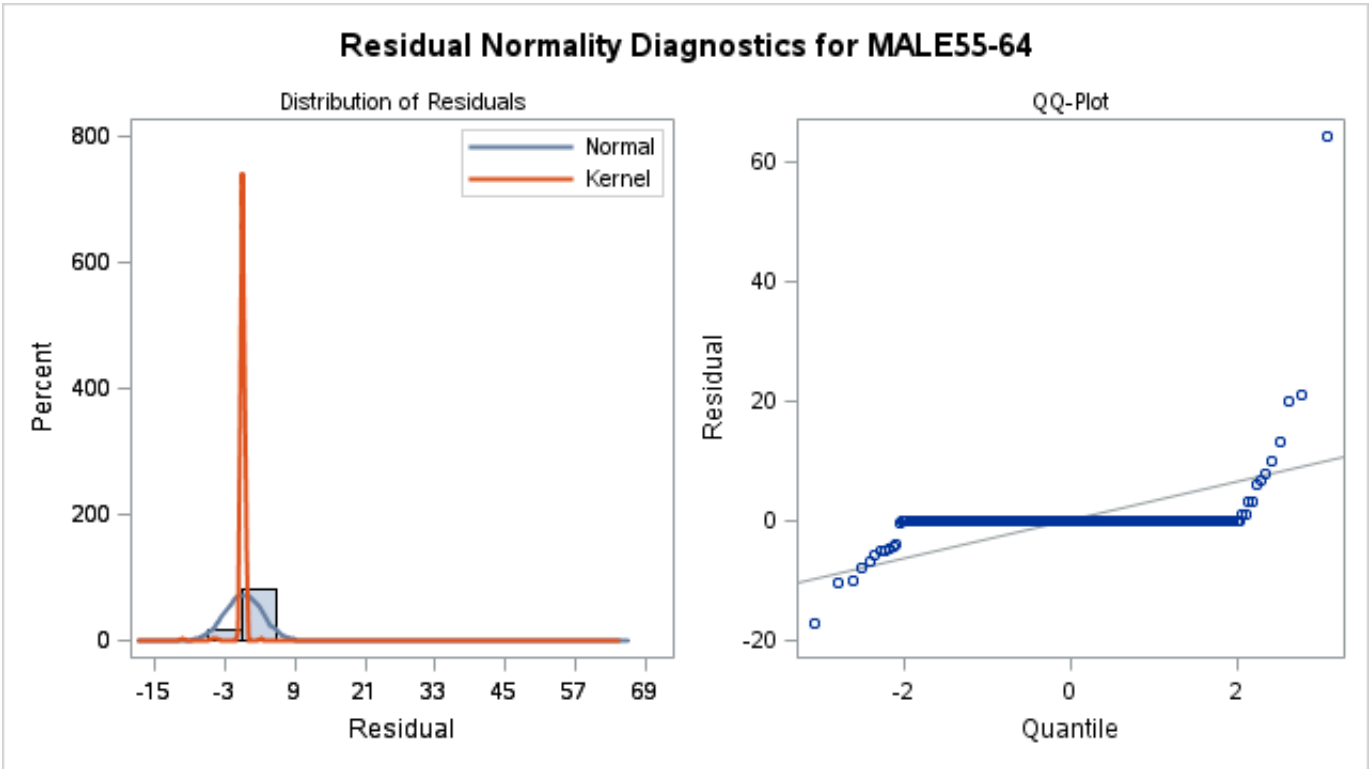
Correlations of Parameter Estimates

Variable Parameter	MALE55-64 MU	MALE55-64 MA1,1	MALE55-64 MA2,1	MALE55-64 AR1,1	MALE55-64 AR2,1	BOTH SEXES55-64 NUM1
MALE55-64 MU	1.000	-0.029	0.018	-0.029	0.290	-0.493
MALE55-64 MA1,1	-0.029	1.000	-0.900	1.000	-0.114	0.020
MALE55-64 MA2,1	0.018	-0.900	1.000	-0.899	0.071	-0.012
MALE55-64 AR1,1	-0.029	1.000	-0.899	1.000	-0.114	0.020
MALE55-64 AR2,1	0.290	-0.114	0.071	-0.114	1.000	-0.232
BOTH SEXES55-64 NUM1	-0.493	0.020	-0.012	0.020	-0.232	1.000

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	0.00	2	0.9996	-0.001	-0.001	-0.000	-0.000	0.000	0.000
12	0.00	8	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.00	14	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
24	36.05	20	0.0152	0.000	0.000	-0.000	-0.000	-0.000	0.244
30	36.05	26	0.0908	0.000	0.000	0.000	0.000	0.000	0.000
36	36.05	32	0.2847	0.000	0.000	0.000	0.000	0.000	0.000
42	36.05	38	0.5598	0.000	0.000	0.000	0.000	0.000	0.000
48	69.51	44	0.0084	0.000	0.000	0.000	0.000	0.000	0.230


Residual Correlation Diagnostics for MALE55-64
ACF
PACF
IACF
White Noise Prob
Lag
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
.001
.05
1.0


Residual Normality Diagnostics for MALE55-64
Distribution of Residuals
Normal
Kernel
Percent
Residual
800
600
400
200
0
-15
-3
9
21
33
45
57
69
QQ-Plot
Residual
Quantile
60
40
20
0
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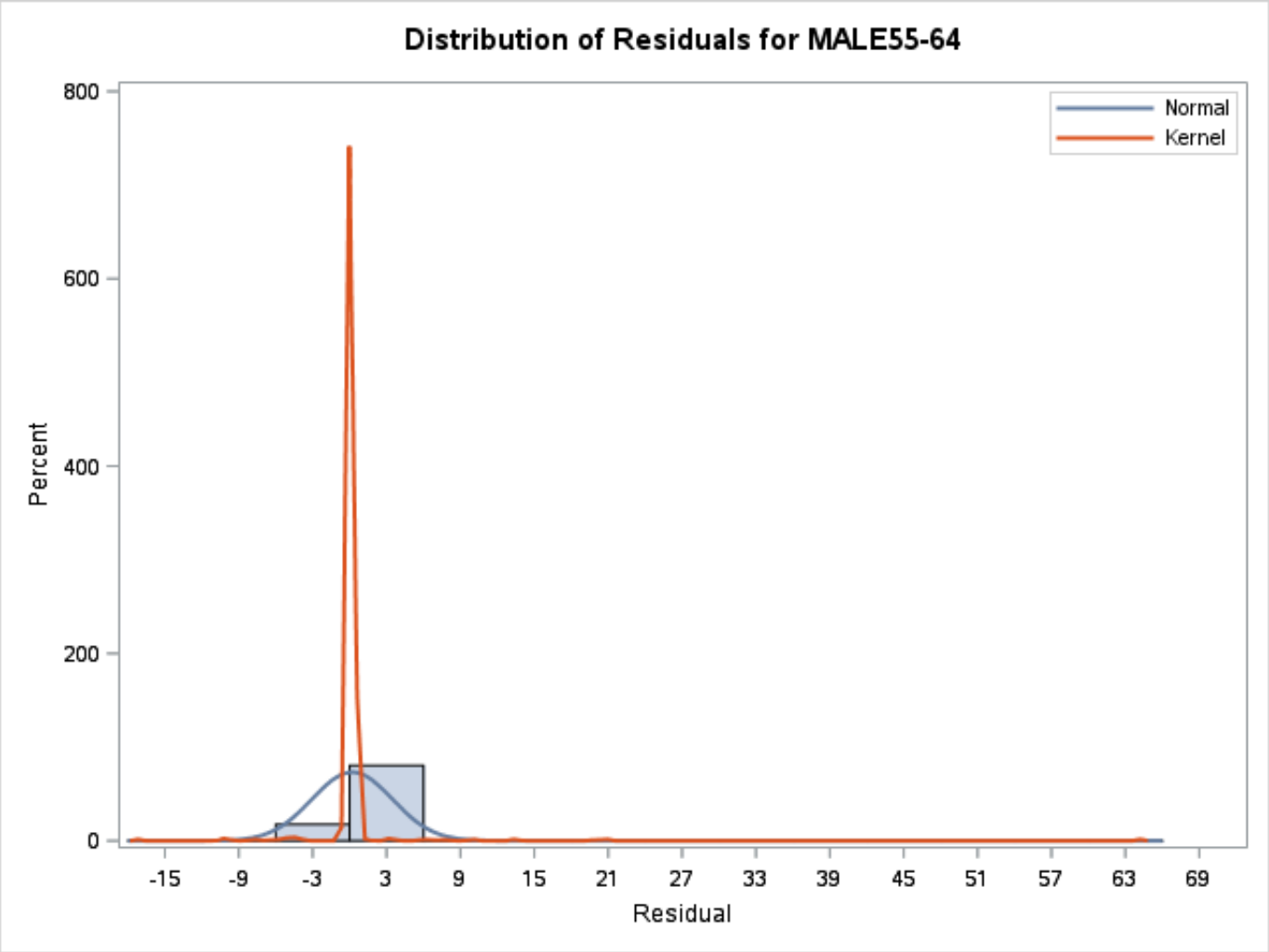
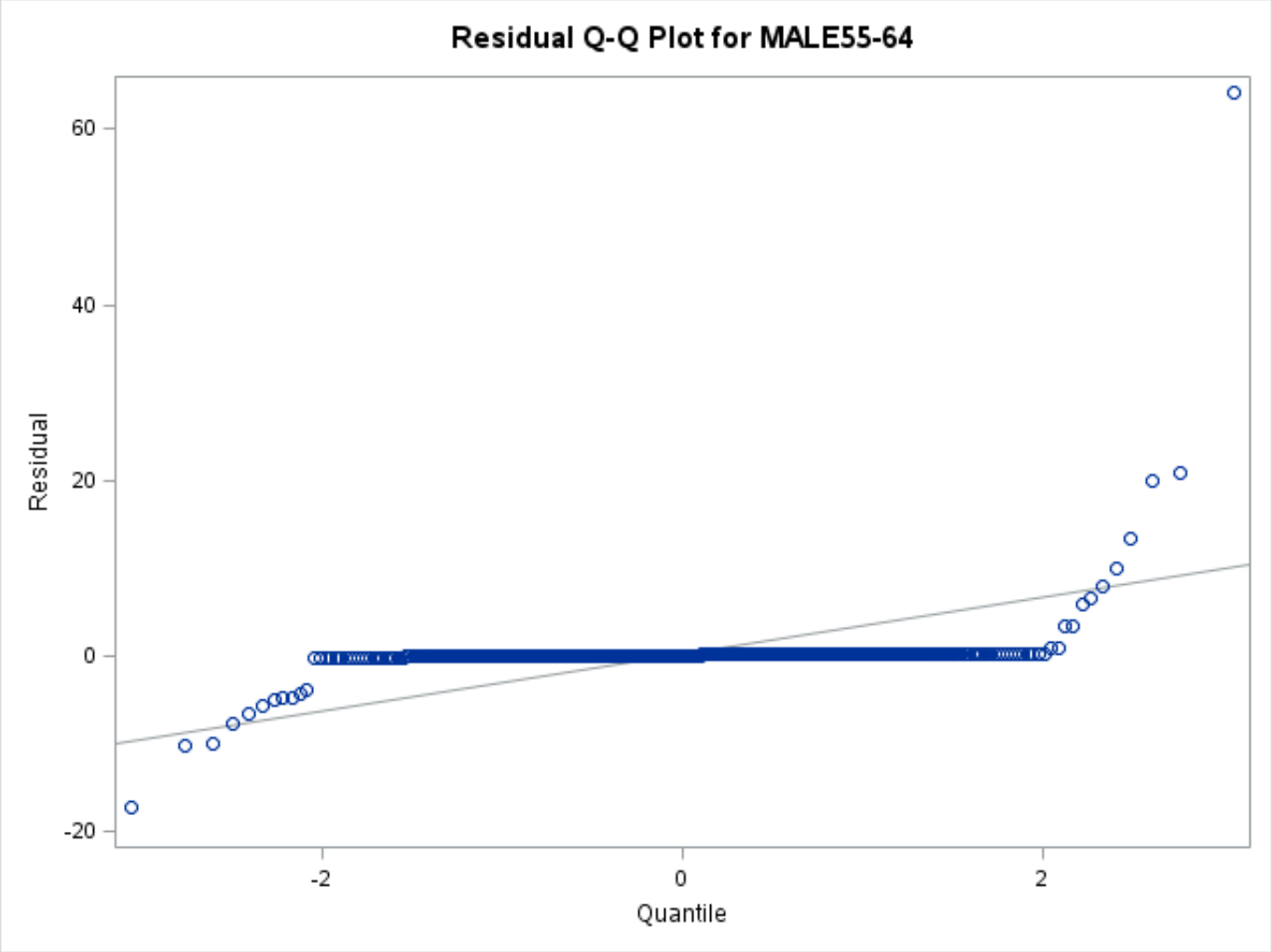
-2
0
2


Distribution of Residuals for MALE55-64
Normal
Kernel
Percent
800
600
400
200
0
-15
-9
-3
3
9
15
21
27
33
39
45
51
57
63
69
Residual



Model for variable MALE55-64	
Estimated Intercept	-310.879

Autoregressive Factors	
Factor 1:	1 - 0.44019 B**(1)
Factor 2:	1 - 0.99792 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.43778 B**(1)
Factor 2:	1 - 0.00151 B**(1)

Input Number 1	
Input Variable	BOTH SEXES55-64
Overall Regression Factor	0.489487

Note: Further warnings will not be printed.

The value for option LEAD= has been reduced to 0.

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

Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
241	Shift	64.05802	164393.6	<.0001
25	Shift	20.86701	138832.4	<.0001
49	Shift	19.87137	189268.5	<.0001
505	Shift	-17.45717	26608.49	<.0001
73	Shift	13.15201	15130.76	<.0001

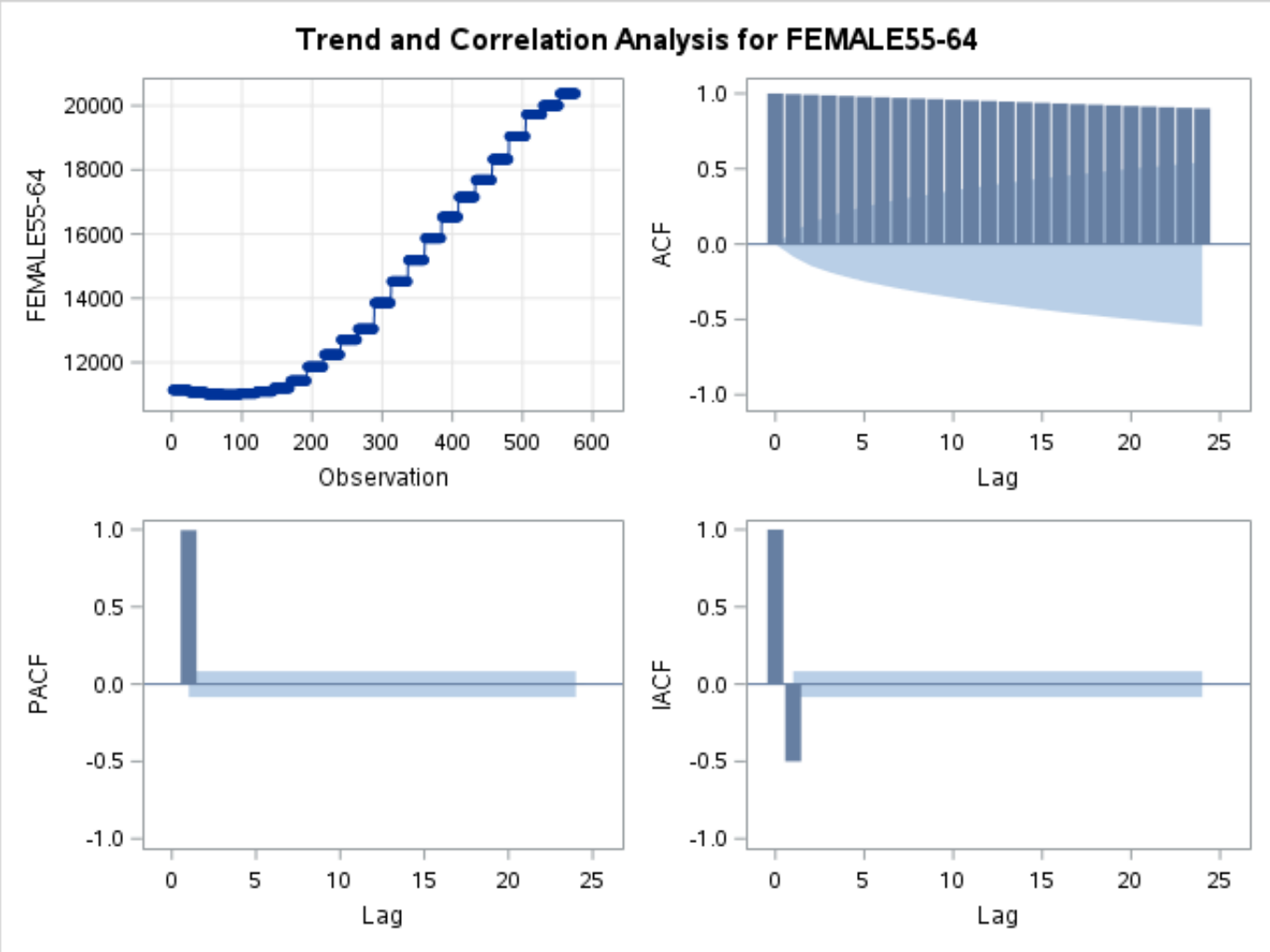
(FEMALE55-64)

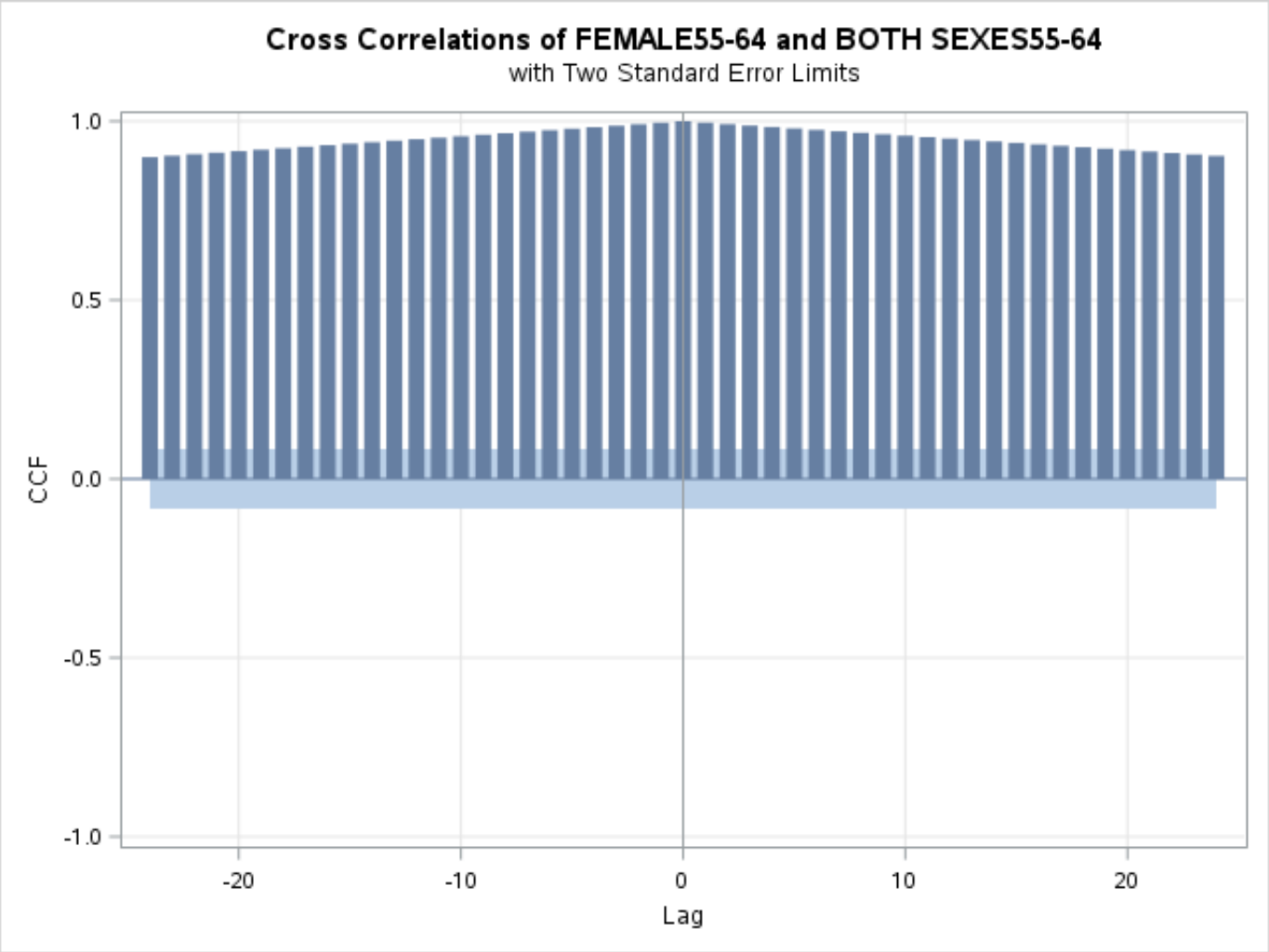
Name of Variable = FEMALE55-64	
Mean of Working Series	14462.06
Standard Deviation	3292.494

Number of Observations	576

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	3389.26	6	<.0001	0.996	0.992	0.988	0.984	0.979	0.975
12	6644.61	12	<.0001	0.971	0.967	0.963	0.959	0.955	0.951
18	9767.53	18	<.0001	0.946	0.942	0.938	0.934	0.930	0.926
24	9999.99	24	<.0001	0.922	0.918	0.913	0.909	0.905	0.901

Correlation of FEMALE55-64 and BOTH SEXES55-64	
Variance of input =	42102345
Number of Observations	576





ARIMA Estimation Optimization Summary	
Estimation Method	Maximum Likelihood
Parameters Estimated	6
Termination Criteria	Maximum Relative Change in Estimates
Iteration Stopping Value	0.001
Criteria Value	2.38E-14
Maximum Absolute Value of Gradient	359.1864
R-Square Change from Last Iteration	0.002731
Objective Function	Log Gaussian Likelihood
Objective Function Value	-1508.19
Marquardt's Lambda Coefficient	1E12
Numerical Derivative Perturbation Delta	0.001
Iterations	17
Warning Message	Estimates may not have converged.

Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	311.69723	47.27536	6.59	<.0001	0	FEMALE55-64	0

MA1,1	0.04784	90.61942	0.00	0.9996	1	FEMALE55-64	0
MA2,1	0.03448	65.29302	0.00	0.9996	1	FEMALE55-64	0
AR1,1	0.08311	25.34747	0.00	0.9974	1	FEMALE55-64	0
AR2,1	0.99789	0.0020187	494.32	<.0001	1	FEMALE55-64	0
NUM1	0.51049	0.0007349	694.61	<.0001	0	BOTH SEXES55-64	0

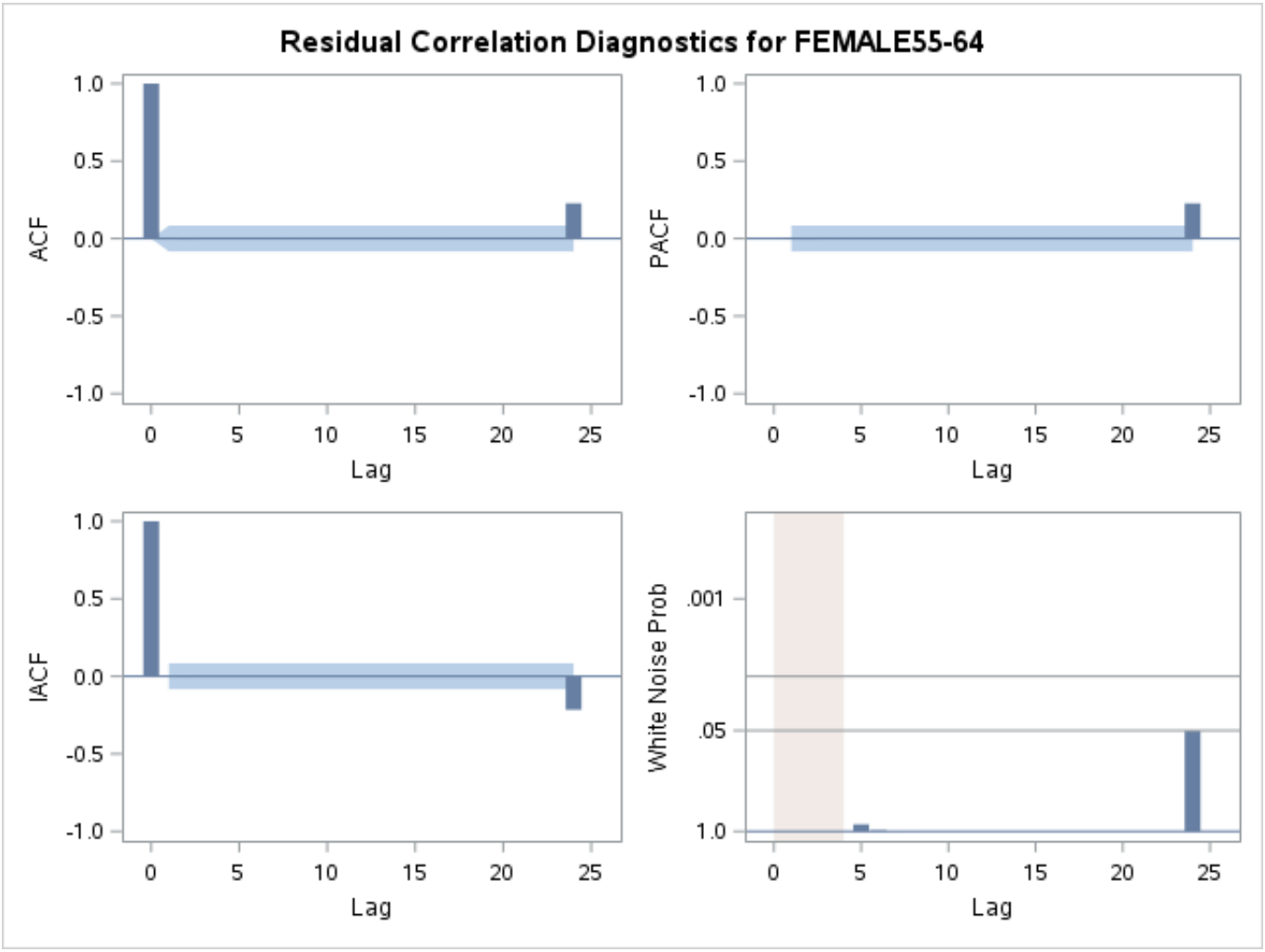
Constant Estimate	0.602982
Variance Estimate	11.02167
Std Error Estimate	3.31989
AIC	3028.381
SBC	3054.518
Number of Residuals	576

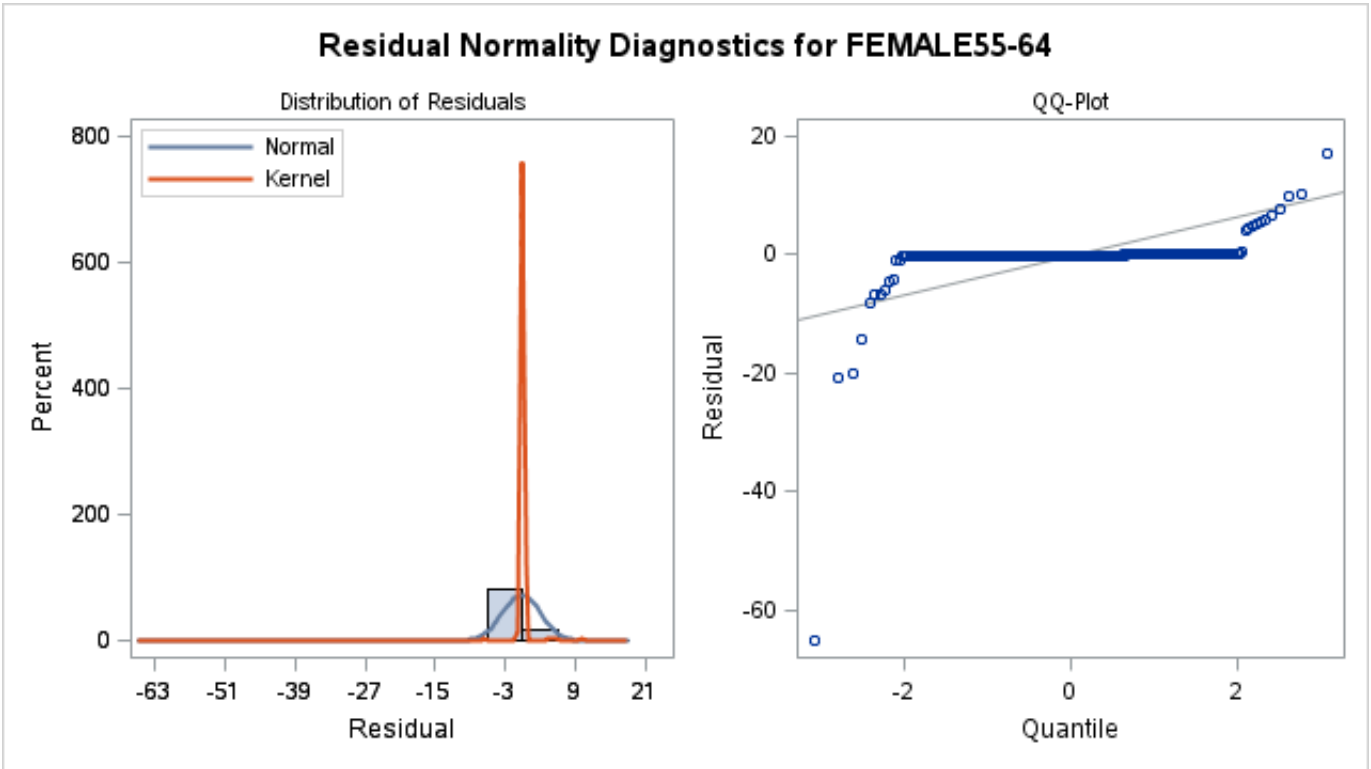
Correlations of Parameter Estimates

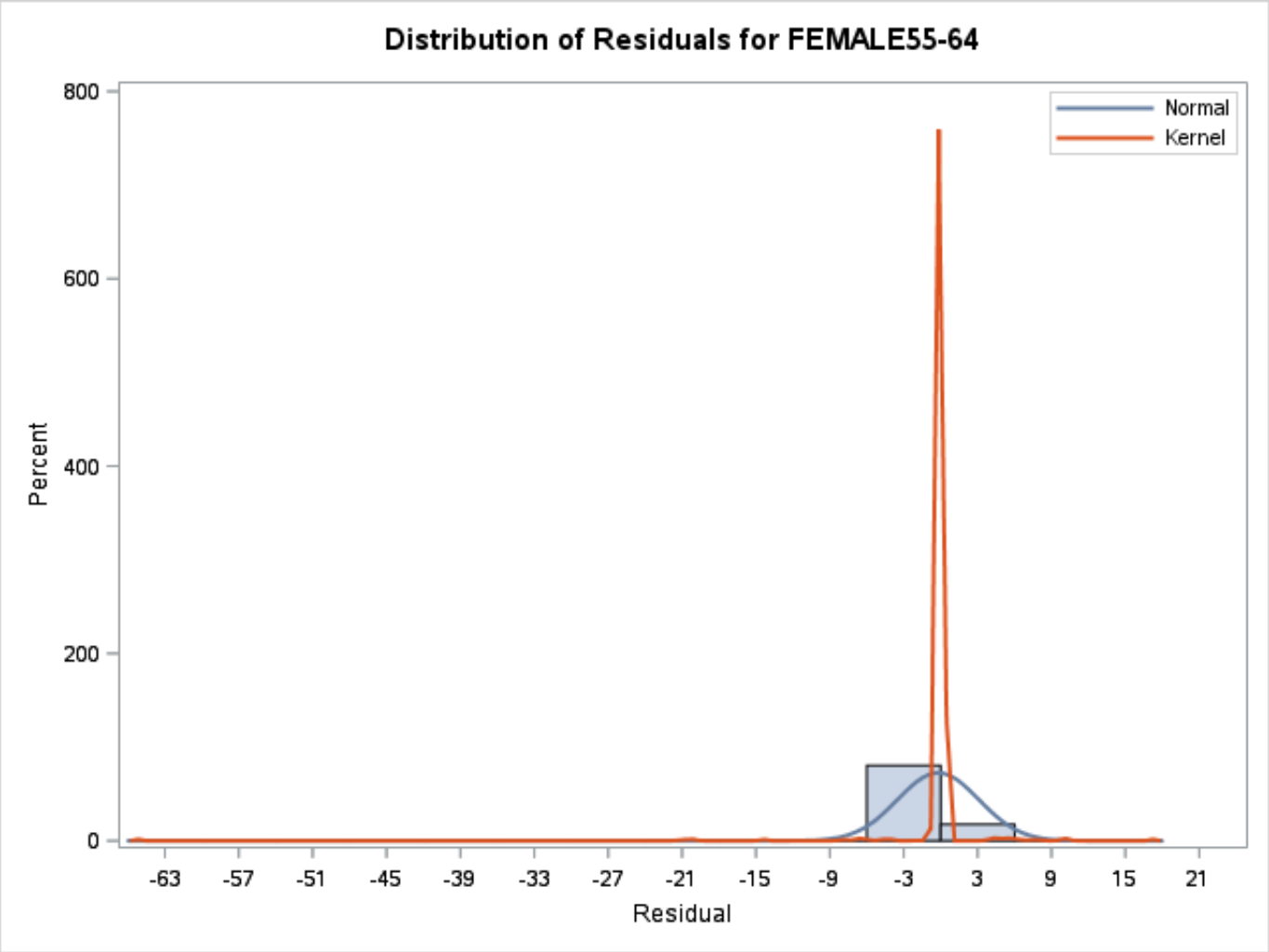
Variable Parameter	FEMALE55-64 MU	FEMALE55-64 MA1,1	FEMALE55-64 MA2,1	FEMALE55-64 AR1,1	FEMALE55-64 AR2,1	BOTH SEXES55-64 NUM1
FEMALE55-64 MU	1.000	0.019	-0.019	0.019	-0.281	-0.496
FEMALE55-64 MA1,1	0.019	1.000	-1.000	0.999	-0.075	-0.013
FEMALE55-64 MA2,1	-0.019	-1.000	1.000	-0.999	0.074	0.013
FEMALE55-64 AR1,1	0.019	0.999	-0.999	1.000	-0.078	-0.013
FEMALE55-64 AR2,1	-0.281	-0.075	0.074	-0.078	1.000	0.231
BOTH SEXES55-64 NUM1	-0.496	-0.013	0.013	-0.013	0.231	1.000

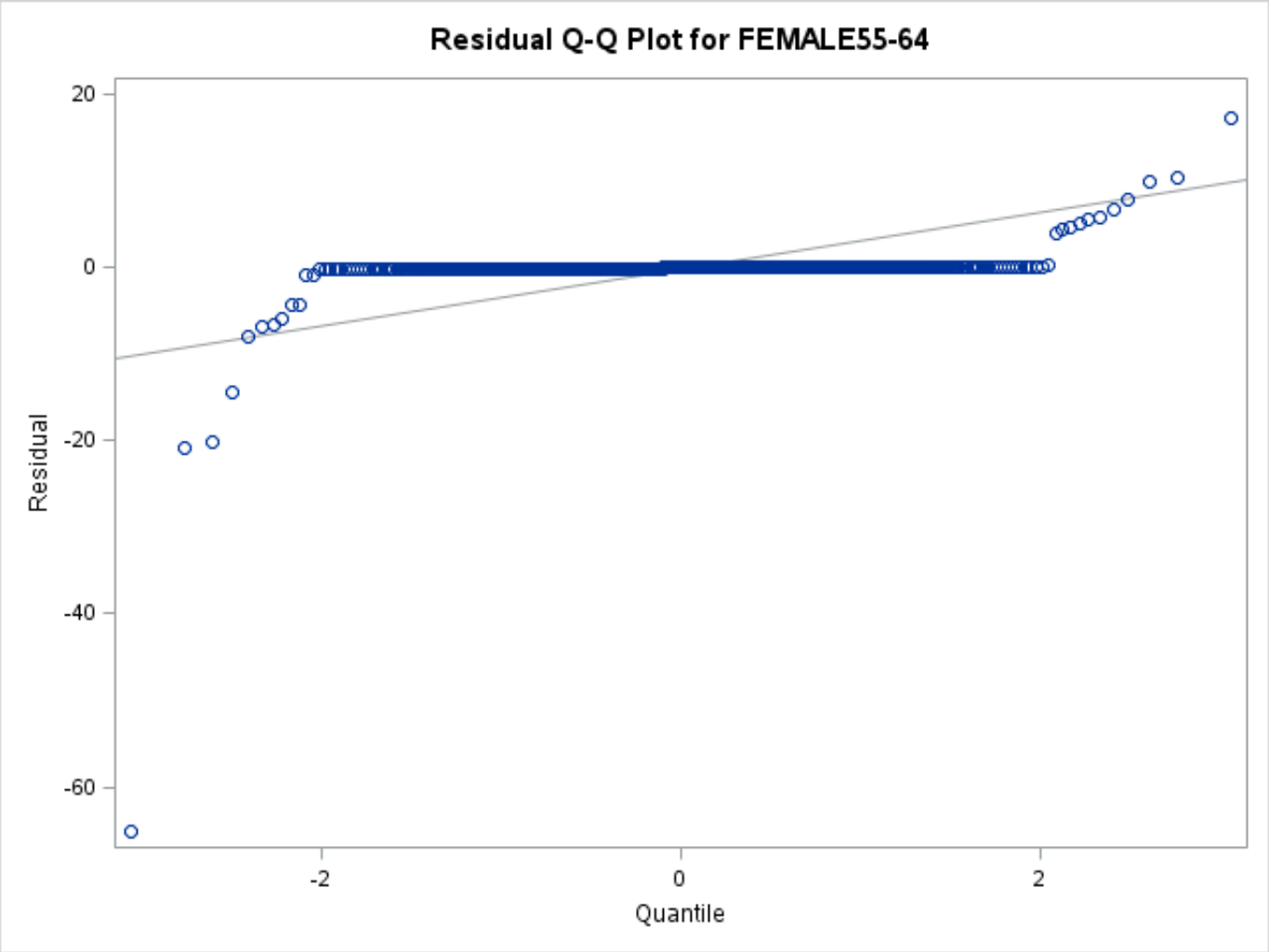
Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	0.00	2	0.9992	-0.001	-0.002	0.000	0.000	0.000	0.000
12	0.00	8	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
18	0.00	14	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
24	32.15	20	0.0417	0.000	0.000	0.000	-0.000	-0.000	0.231
30	32.15	26	0.1883	0.000	0.000	0.000	0.001	0.001	0.001
36	32.15	32	0.4593	0.001	0.001	0.001	0.001	0.000	0.000
42	32.15	38	0.7361	0.000	0.000	0.000	0.000	0.000	0.000
48	62.93	44	0.0319	0.000	0.000	0.000	0.000	0.000	0.221


Residual Correlation Diagnostics for FEMALE55-64
ACF
PACF
IACF
White Noise Prob
Lag
1.0
0.5
0.0
-0.5
-1.0
.001
.05
1.0
0
5
10
15
20
25


Residual Normality Diagnostics for FEMALE55-64
Distribution of Residuals
Normal
Kernel
Percent
Residual
800
600
400
200
0
-63
-51
-39
-27
-15
-3
9
21
QQ-Plot
Residual
Quantile
20
0
-20
-40
-60
-2
0
2


Distribution of Residuals for FEMALE55-64
Normal
Kernel
Percent
800
600
400
200
0
-63
-57
-51
-45
-39
-33
-27
-21
-15
-9
-3
3
9
15
21
Residual



Model for variable FEMALE55-64	
Estimated Intercept	311.6972

Autoregressive Factors	
Factor 1:	1 - 0.08311 B**(1)
Factor 2:	1 - 0.99789 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.04784 B**(1)
Factor 2:	1 - 0.03448 B**(1)

Input Number 1	
Input Variable	BOTH SEXES55-64
Overall Regression Factor	0.510489

Note: Further warnings will not be printed.

The value for option LEAD= has been reduced to 0.

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

Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
241	Shift	-65.02726	164589.6	<.0001
25	Shift	-20.86173	130580.7	<.0001
49	Shift	-19.86395	190927.1	<.0001
505	Shift	17.49472	26348.86	<.0001
73	Shift	-14.13813	17240.95	<.0001

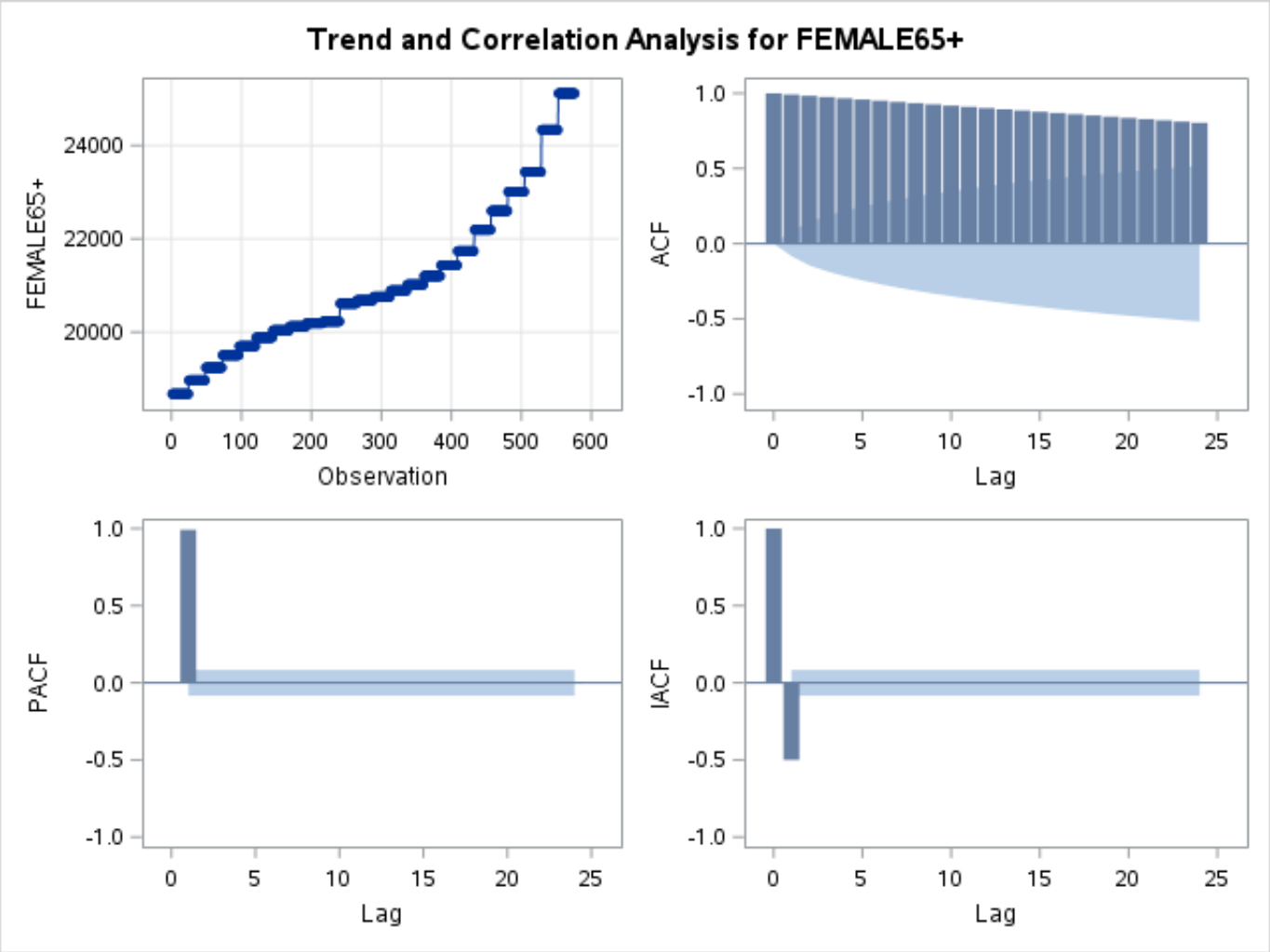
(FEMALE65+)

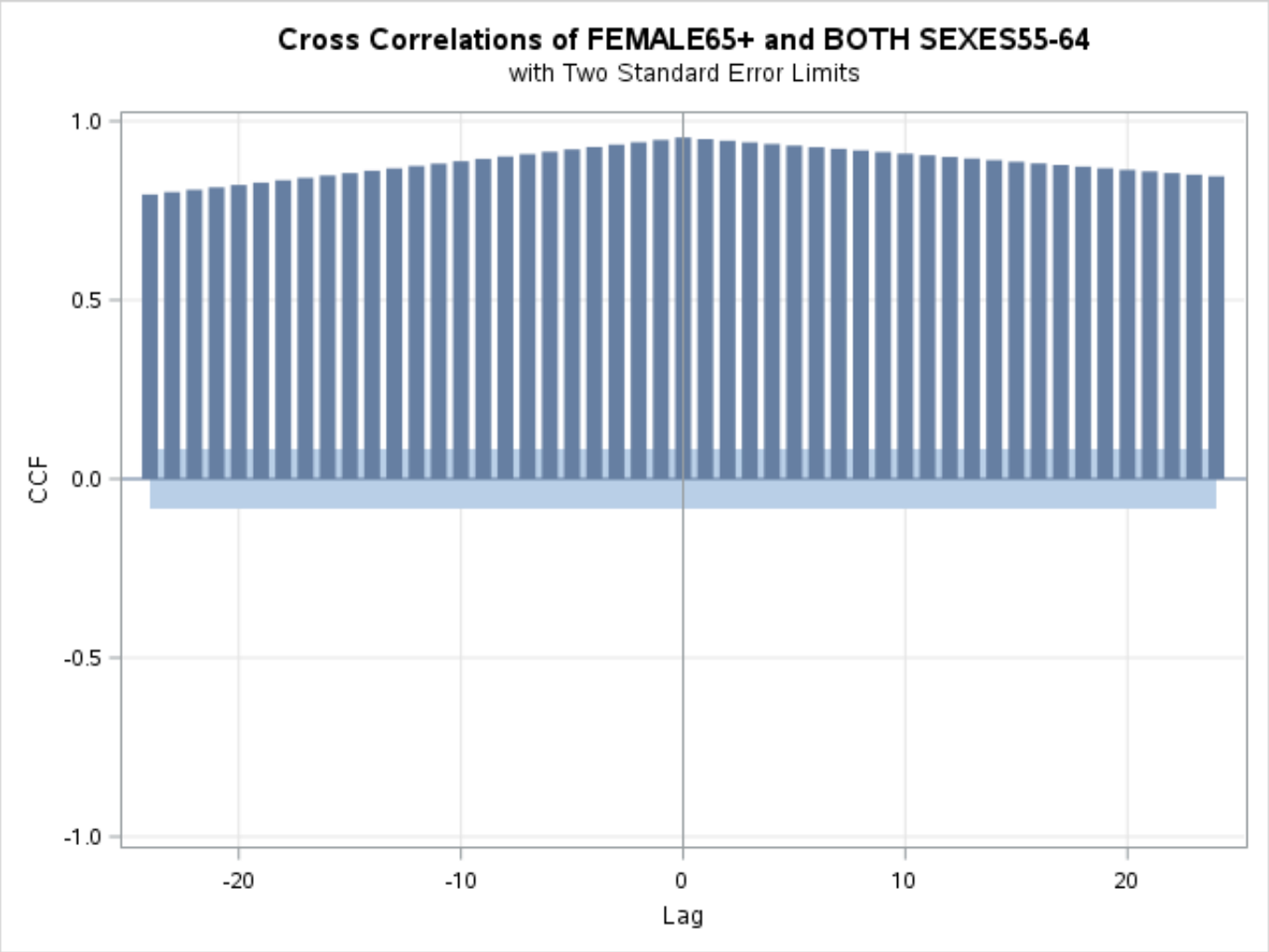
Name of Variable = FEMALE65+	
Mean of Working Series	21065.59
Standard Deviation	1629.407

Number of Observations	576

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	3292.85	6	<.0001	0.992	0.984	0.975	0.967	0.959	0.951
12	6293.10	12	<.0001	0.943	0.935	0.926	0.918	0.910	0.902
18	9011.64	18	<.0001	0.894	0.886	0.877	0.869	0.861	0.853
24	9999.99	24	<.0001	0.845	0.837	0.828	0.820	0.812	0.804

Correlation of FEMALE65+ and BOTH SEXES55-64	
Variance of input =	42102345
Number of Observations	576





ARIMA Estimation Optimization Summary	
Estimation Method	Maximum Likelihood
Parameters Estimated	6
Termination Criteria	Maximum Relative Change in Estimates
Iteration Stopping Value	0.001
Criteria Value	4.36E-15
Maximum Absolute Value of Gradient	38333.42
R-Square Change from Last Iteration	0.002962
Objective Function	Log Gaussian Likelihood
Objective Function Value	-3107.28
Marquardt's Lambda Coefficient	1E12
Numerical Derivative Perturbation Delta	0.001
Iterations	19
Warning Message	Estimates may not have converged.

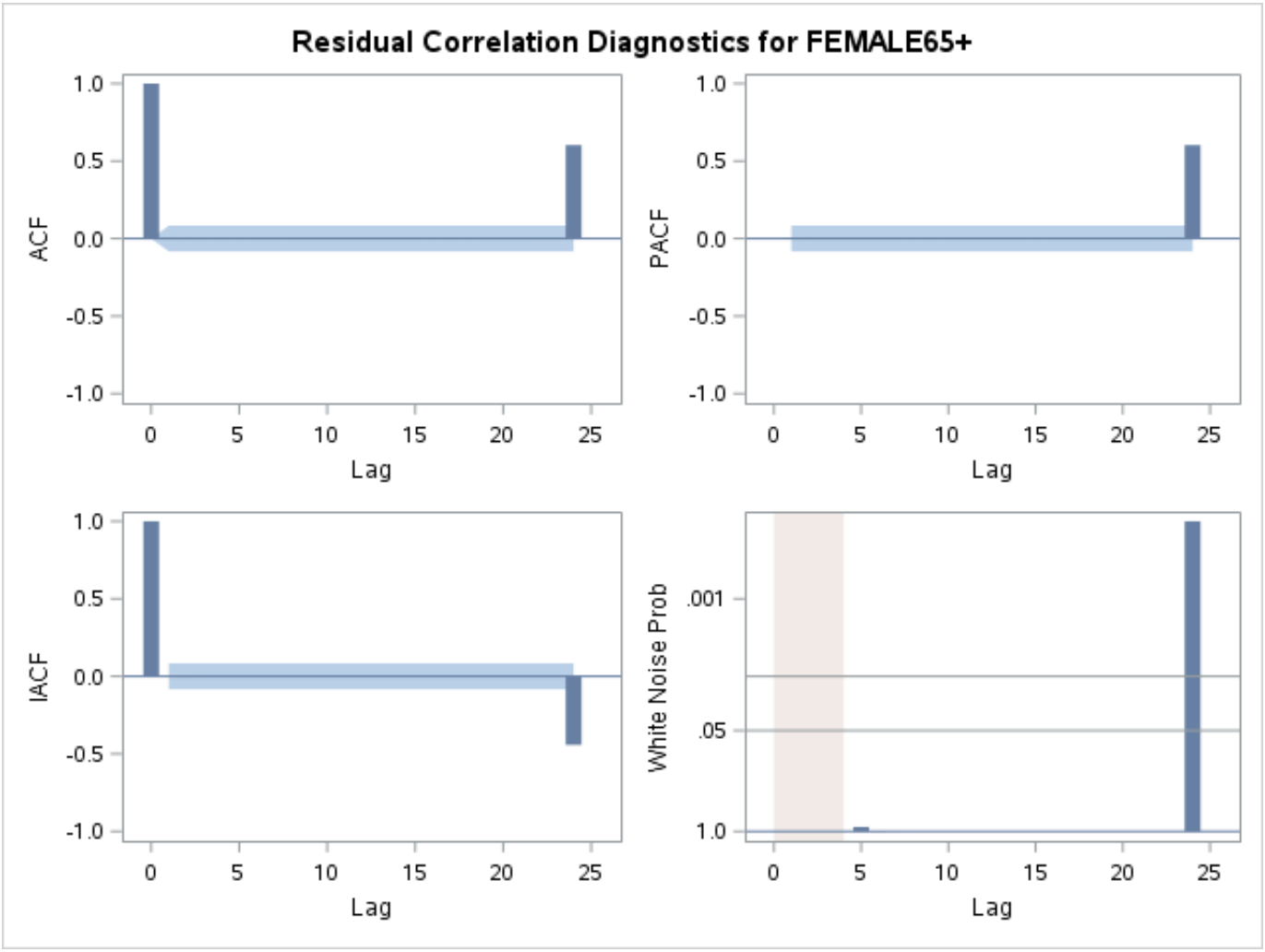
Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	14373.4	847.51871	16.96	<.0001	0	FEMALE65+	0
MA1,1	0.0086082	1.22752	0.01	0.9944	1	FEMALE65+	0

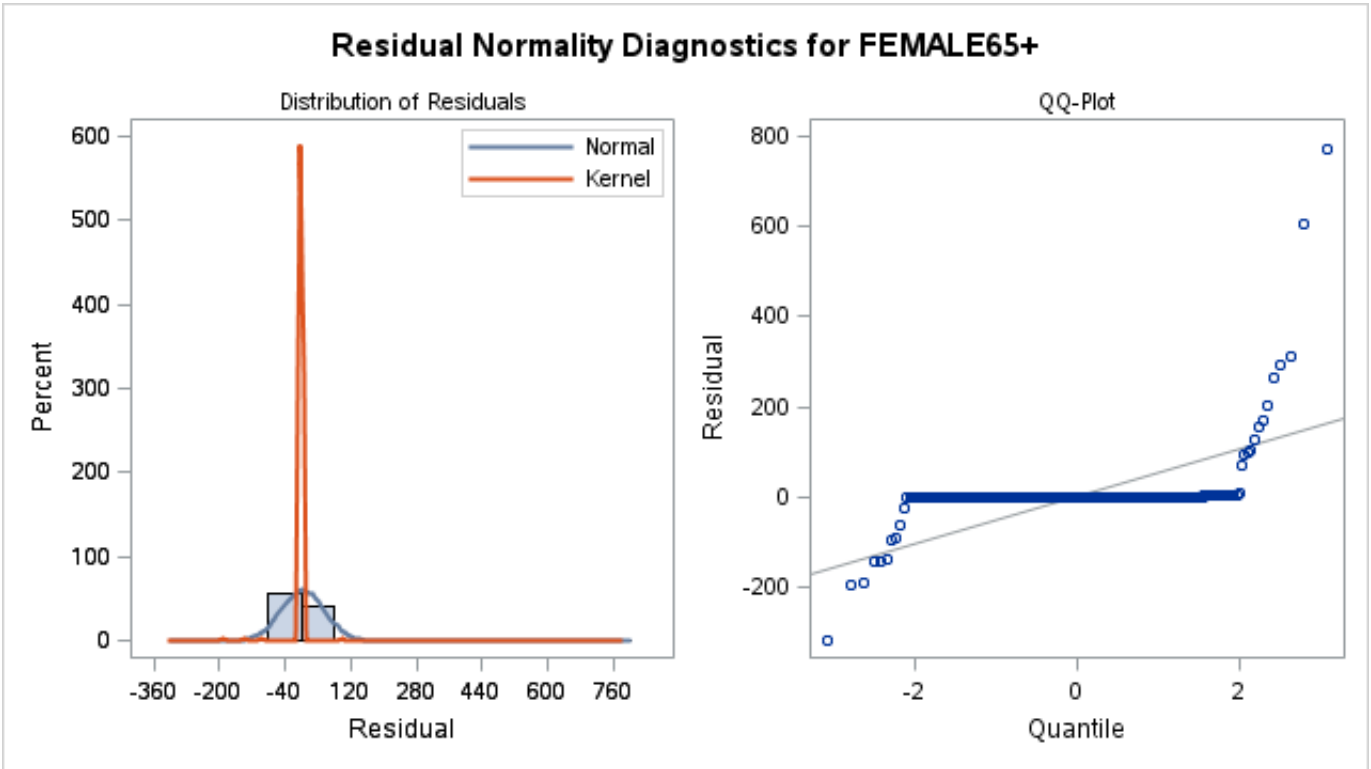
MA2,1	0.18863	22.82522	0.01	0.9934	1	FEMALE65+	0
AR1,1	0.19933	21.61971	0.01	0.9926	1	FEMALE65+	0
AR2,1	0.99734	0.0041728	239.01	<.0001	1	FEMALE65+	0
NUM1	0.24582	0.01146	21.44	<.0001	0	BOTH SEXES55-64	0

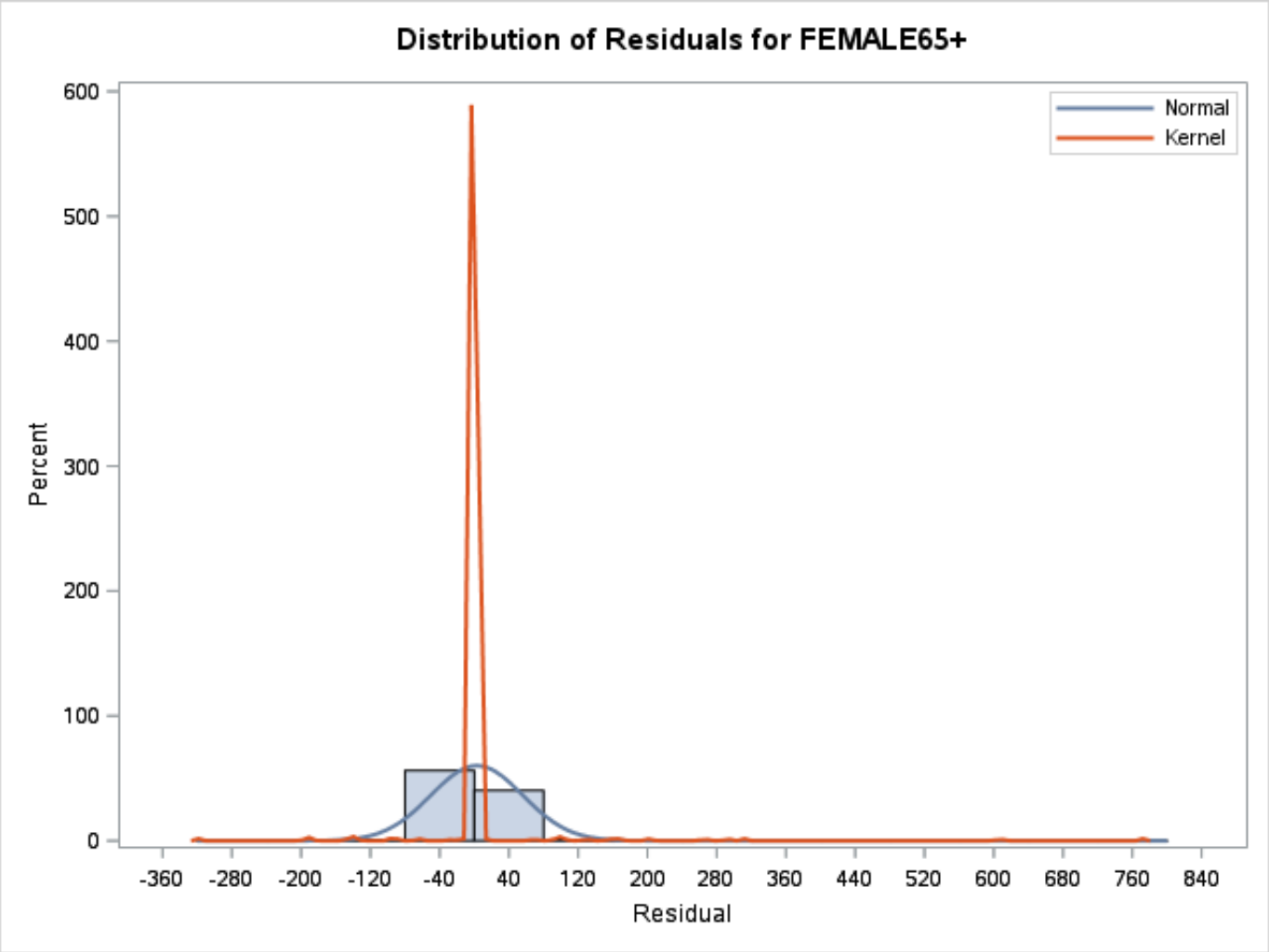
Constant Estimate	30.6113
Variance Estimate	2843.118
Std Error Estimate	53.3209
AIC	6226.563
SBC	6252.7
Number of Residuals	576

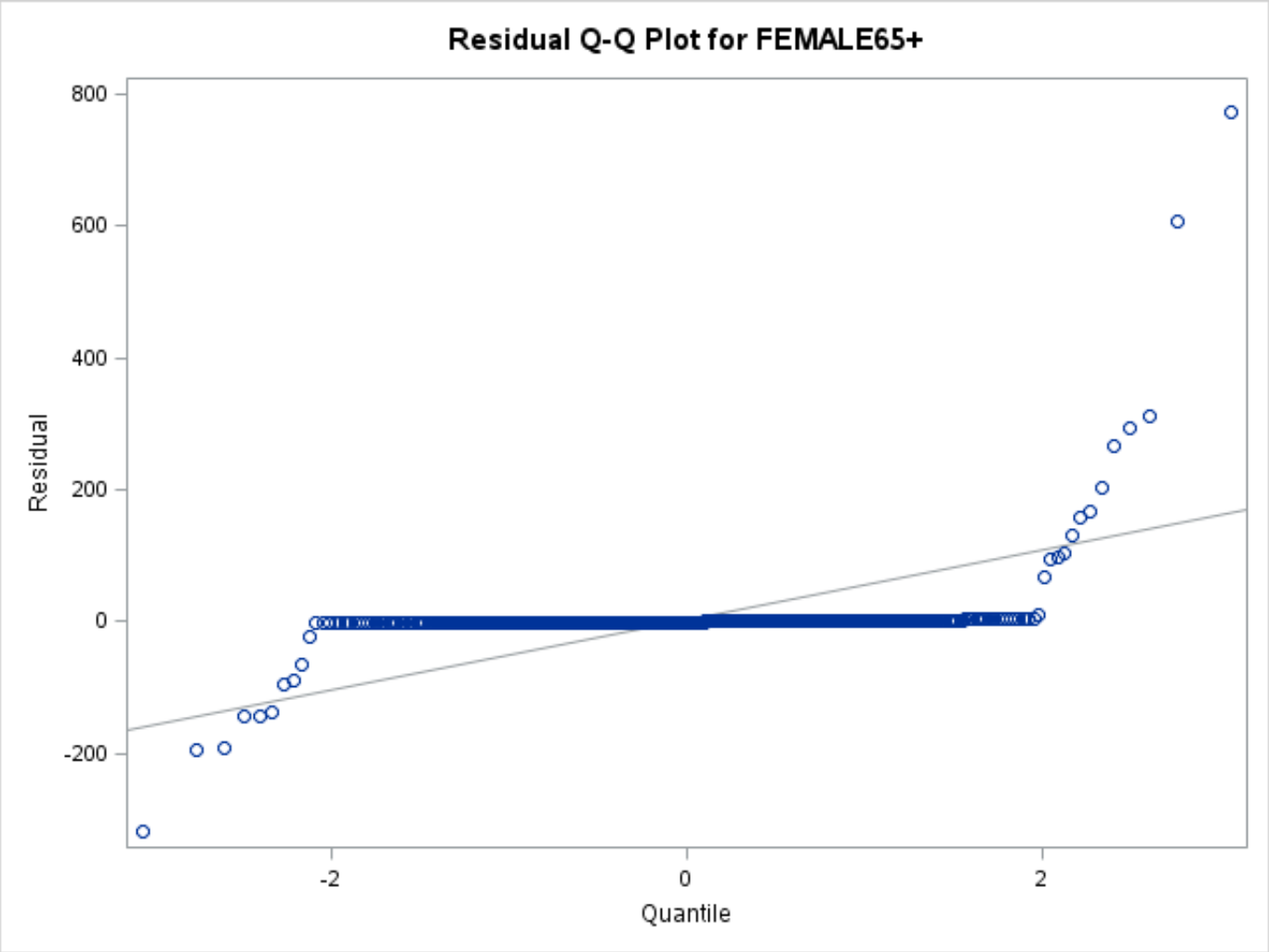
Correlations of Parameter Estimates						
Variable Parameter	FEMALE65+ MU	FEMALE65+ MA1,1	FEMALE65+ MA2,1	FEMALE65+ AR1,1	FEMALE65+ AR2,1	BOTH SEXES55-64 NUM1
FEMALE65+ MU	1.000	0.084	-0.101	-0.102	0.650	-0.427
FEMALE65+ MA1,1	0.084	1.000	-0.984	-0.982	0.135	0.001
FEMALE65+ MA2,1	-0.101	-0.984	1.000	1.000	-0.162	-0.001
FEMALE65+ AR1,1	-0.102	-0.982	1.000	1.000	-0.163	-0.001
FEMALE65+ AR2,1	0.650	0.135	-0.162	-0.163	1.000	-0.052
BOTH SEXES55-64 NUM1	-0.427	0.001	-0.001	-0.001	-0.052	1.000

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	0.00	2	0.9980	-0.001	-0.001	0.001	0.001	0.001	0.001
12	0.01	8	1.0000	0.001	0.001	0.001	0.001	0.001	0.001
18	0.01	14	1.0000	0.001	0.001	0.001	0.001	0.001	0.001
24	219.44	20	<.0001	0.001	0.001	0.001	-0.000	-0.000	0.603
30	219.44	26	<.0001	-0.001	-0.001	0.000	0.000	0.000	0.000
36	219.44	32	<.0001	0.000	0.000	0.000	0.000	0.000	0.000
42	219.44	38	<.0001	0.000	0.000	0.000	0.000	0.000	0.000
48	250.04	44	<.0001	0.000	0.000	0.000	-0.000	-0.000	0.220


Residual Correlation Diagnostics for FEMALE65+
ACF
PACF
IACF
White Noise Prob
Lag
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
.001
.05
1.0


Residual Normality Diagnostics for FEMALE65+
Distribution of Residuals
Normal
Kernel
Percent
Residual
600
500
400
300
200
100
0
-360
-200
-40
120
280
440
600
760
QQ-Plot
Residual
Quantile
800
600
400
200
0
-200
-2
0
2


Distribution of Residuals for FEMALE65+
Normal
Kernel
Percent
600
500
400
300
200
100
0
-360
-280
-200
-120
-40
40
120
200
280
360
440
520
600
680
760
840
Residual



Model for variable FEMALE65+	
Estimated Intercept	14373.37

Autoregressive Factors	
Factor 1:	1 - 0.19933 B**(1)
Factor 2:	1 - 0.99734 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.00861 B**(1)
Factor 2:	1 - 0.18863 B**(1)

Input Number 1	
Input Variable	BOTH SEXES55-64
Overall Regression Factor	0.245823

Note: Further warnings will not be printed.

The value for option LEAD= has been reduced to 0.

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

Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
529	Shift	773.60800	230185.9	<.0001
553	Shift	604.84061	172392.0	<.0001
289	Shift	-319.20352	48103.14	<.0001
25	Shift	311.99925	106854.1	<.0001
49	Shift	290.33851	53249.71	<.0001

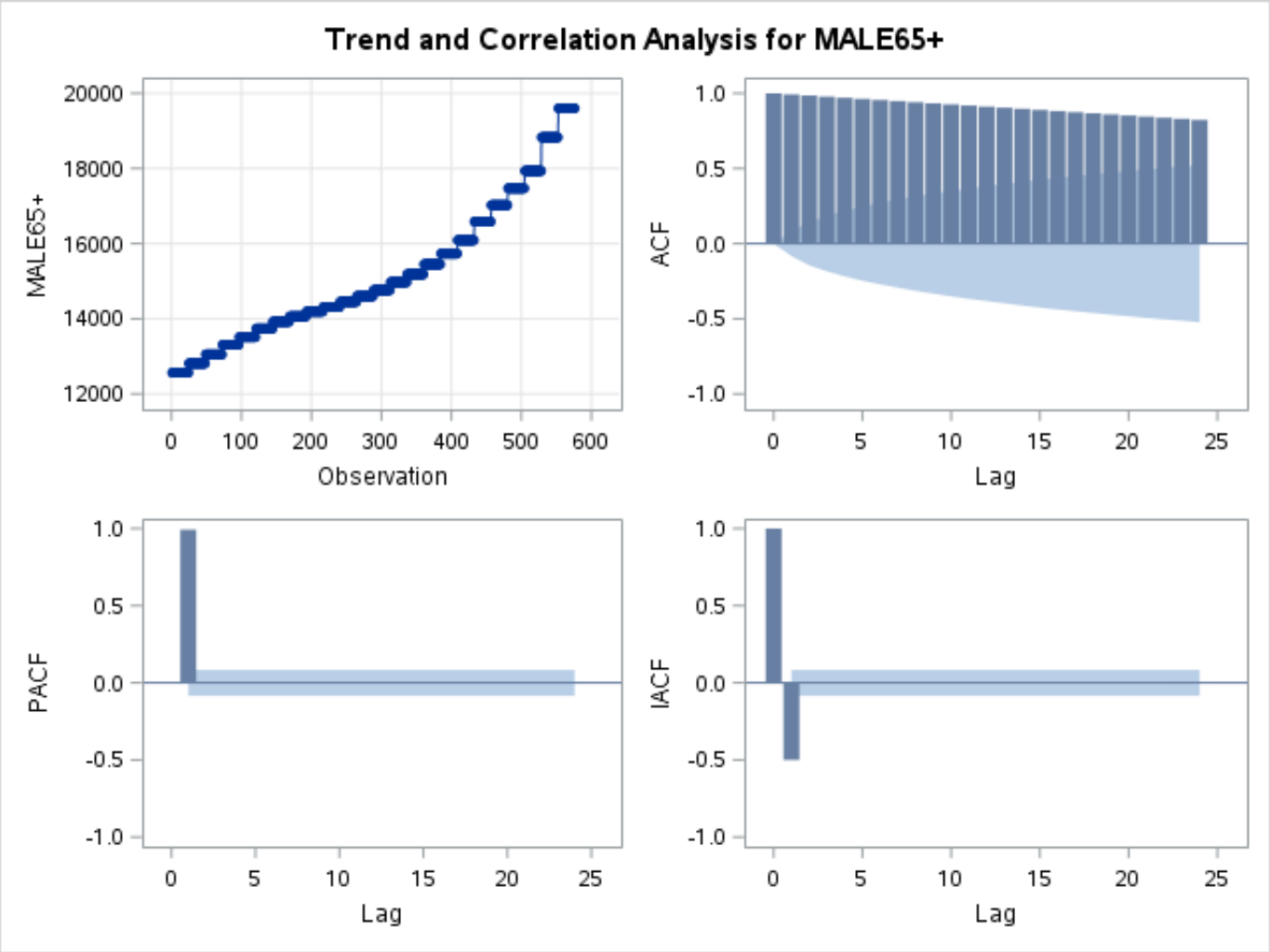
(MALE65+)

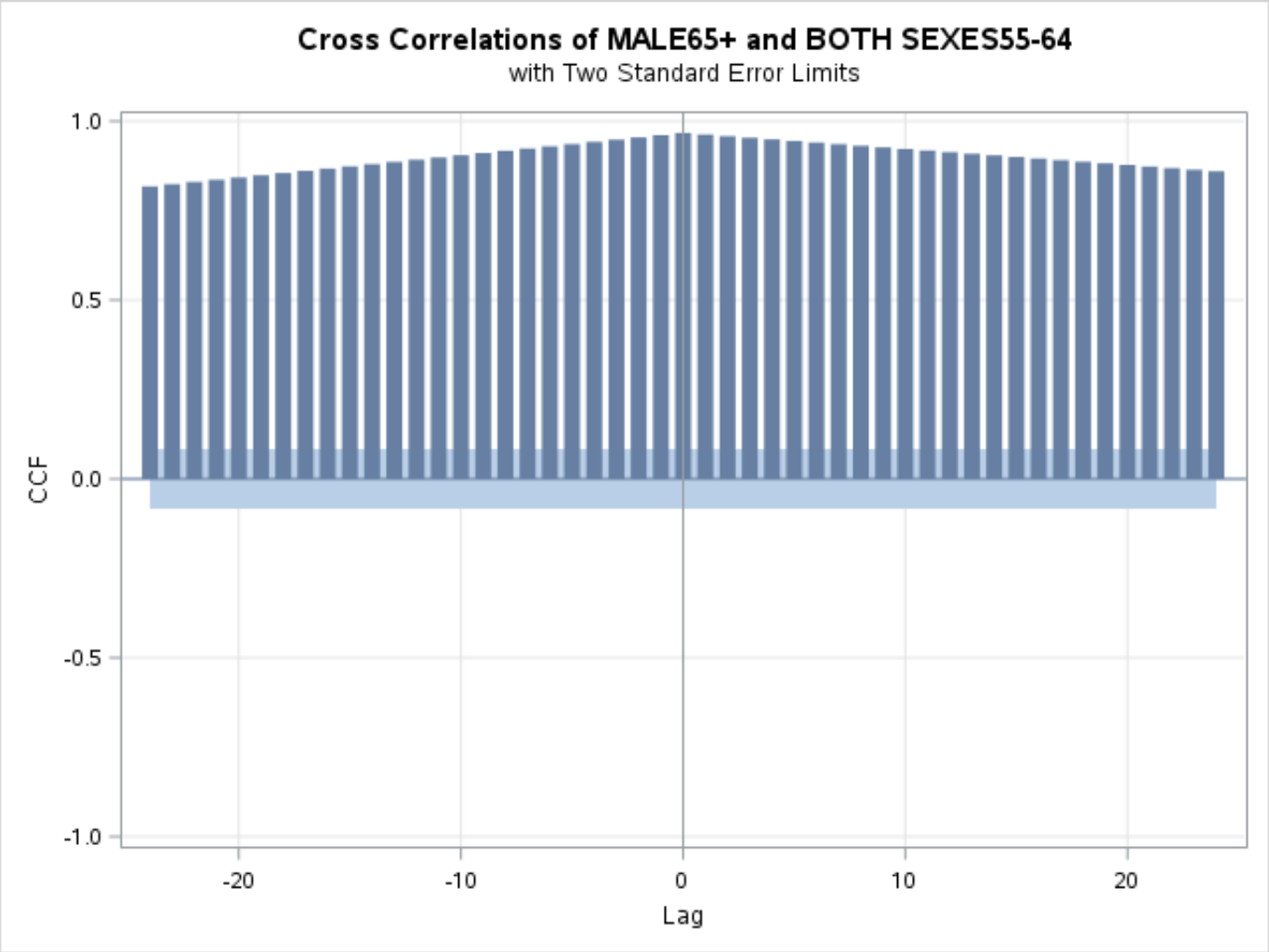
Name of Variable = MALE65+	
Mean of Working Series	15174.01
Standard Deviation	1863.153

Number of Observations	576

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	3311.78	6	<.0001	0.993	0.985	0.978	0.971	0.963	0.956
12	6361.61	12	<.0001	0.948	0.941	0.934	0.926	0.919	0.912
18	9157.85	18	<.0001	0.904	0.897	0.889	0.882	0.875	0.867
24	9999.99	24	<.0001	0.860	0.853	0.845	0.838	0.830	0.823

Correlation of MALE65+ and BOTH SEXES55-64	
Variance of input =	42102345
Number of Observations	576





ARIMA Estimation Optimization Summary	
Estimation Method	Maximum Likelihood
Parameters Estimated	6
Termination Criteria	Maximum Relative Change in Estimates
Iteration Stopping Value	0.001
Criteria Value	9.45E-15
Maximum Absolute Value of Gradient	17388.61
R-Square Change from Last Iteration	0.001901
Objective Function	Log Gaussian Likelihood
Objective Function Value	-3072.4
Marquardt's Lambda Coefficient	1E12
Numerical Derivative Perturbation Delta	0.001
Iterations	19
Warning Message	Estimates may not have converged.

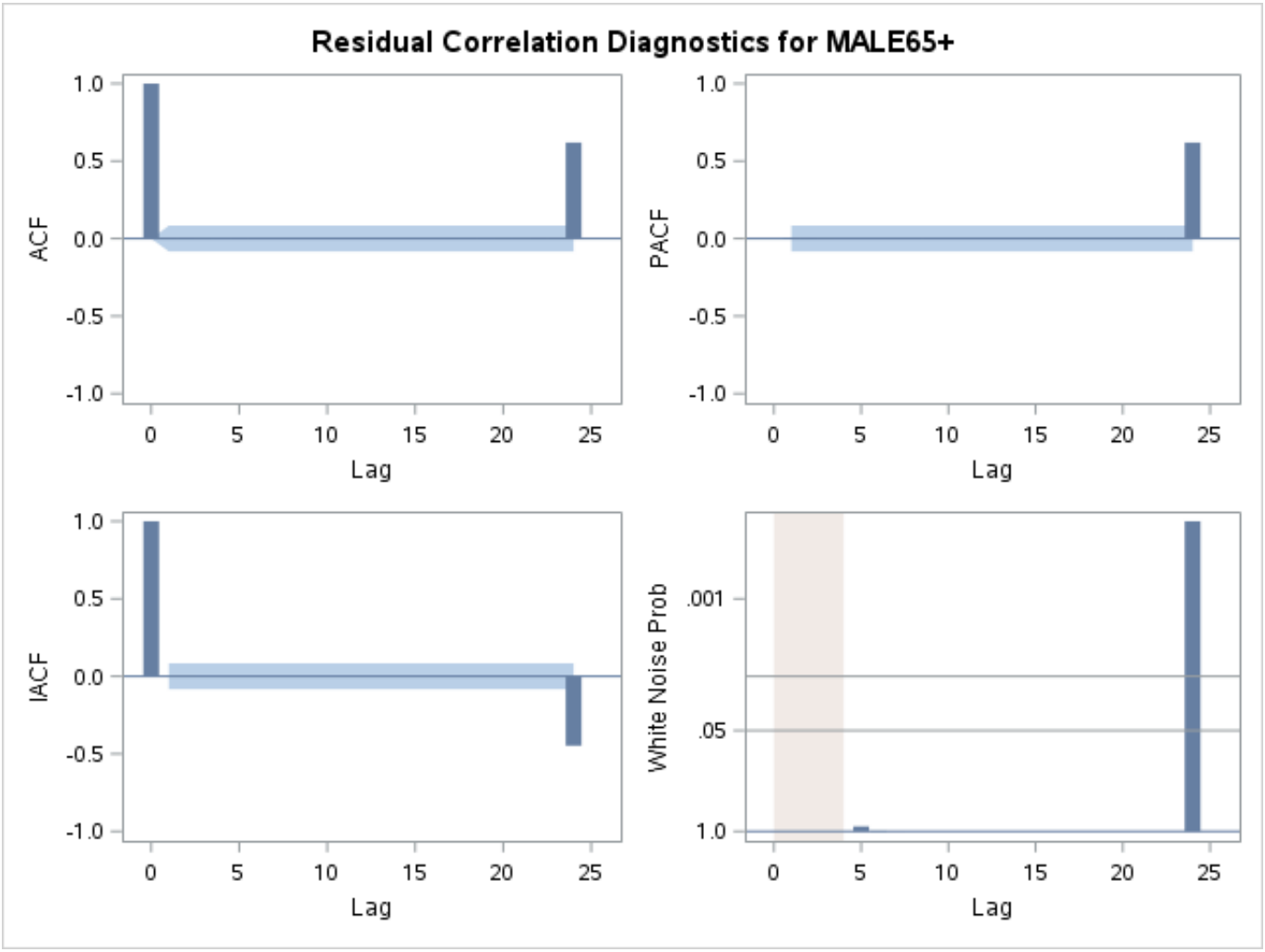
Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	7540.9	880.64196	8.56	<.0001	0	MALE65+	0
MA1,1	0.0069749	1.15186	0.01	0.9952	1	MALE65+	0

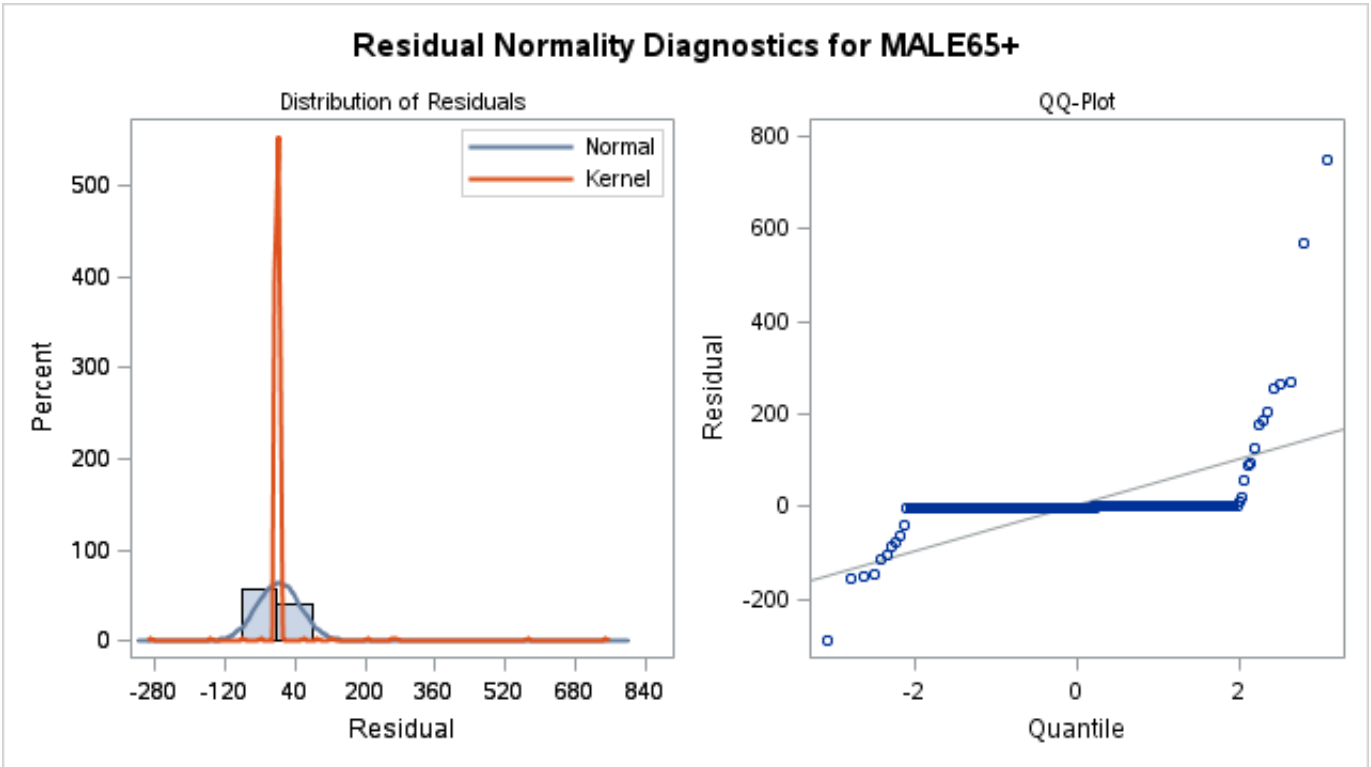
MA2,1	0.19392	27.02929	0.01	0.9943	1	MALE65+	0
AR1,1	0.20278	25.89943	0.01	0.9938	1	MALE65+	0
AR2,1	0.99760	0.0039943	249.75	<.0001	1	MALE65+	0
NUM1	0.27977	0.01081	25.87	<.0001	0	BOTH SEXES55-64	0

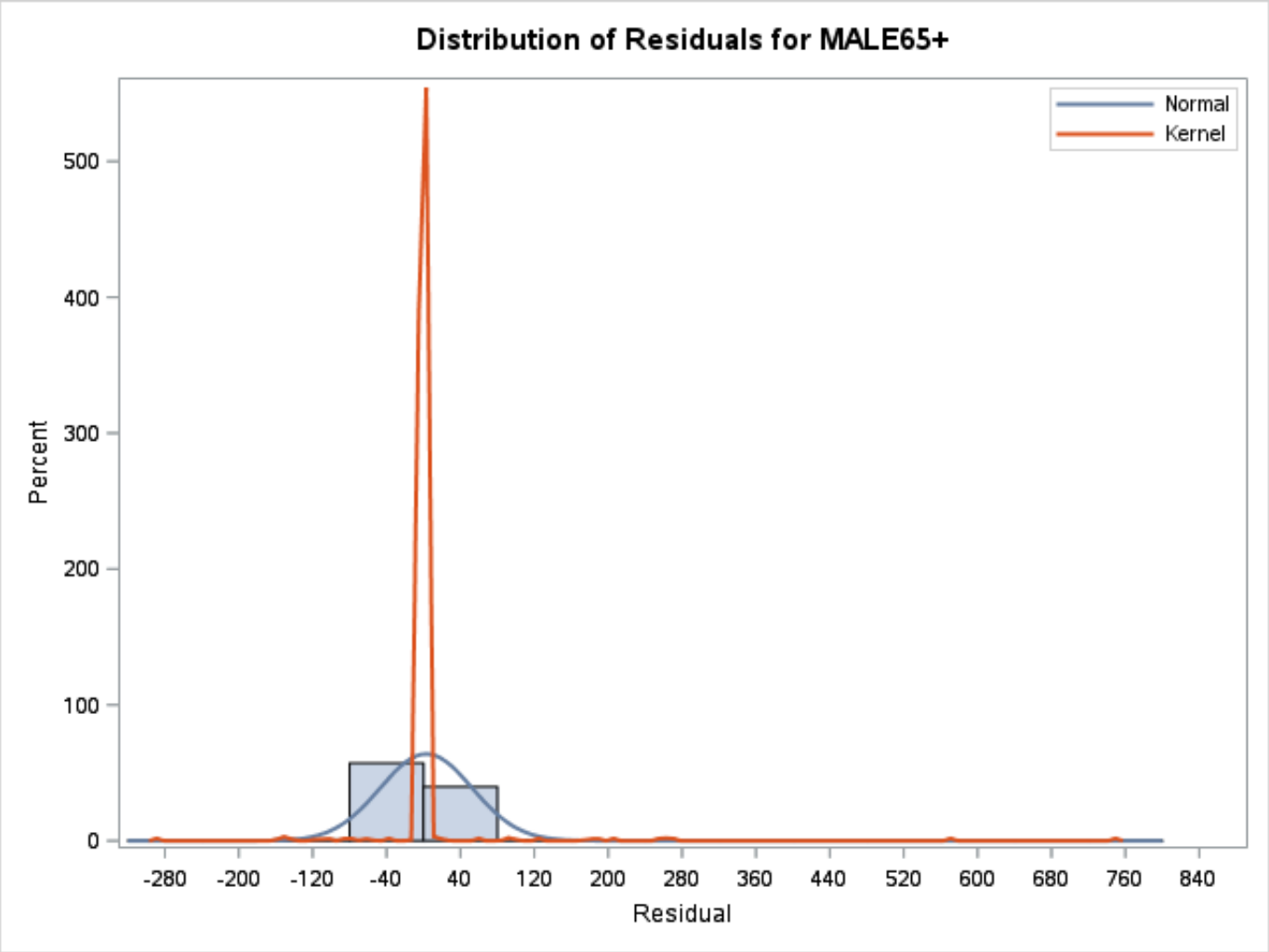
Constant Estimate	14.45544
Variance Estimate	2518.36
Std Error Estimate	50.18326
AIC	6156.797
SBC	6182.934
Number of Residuals	576

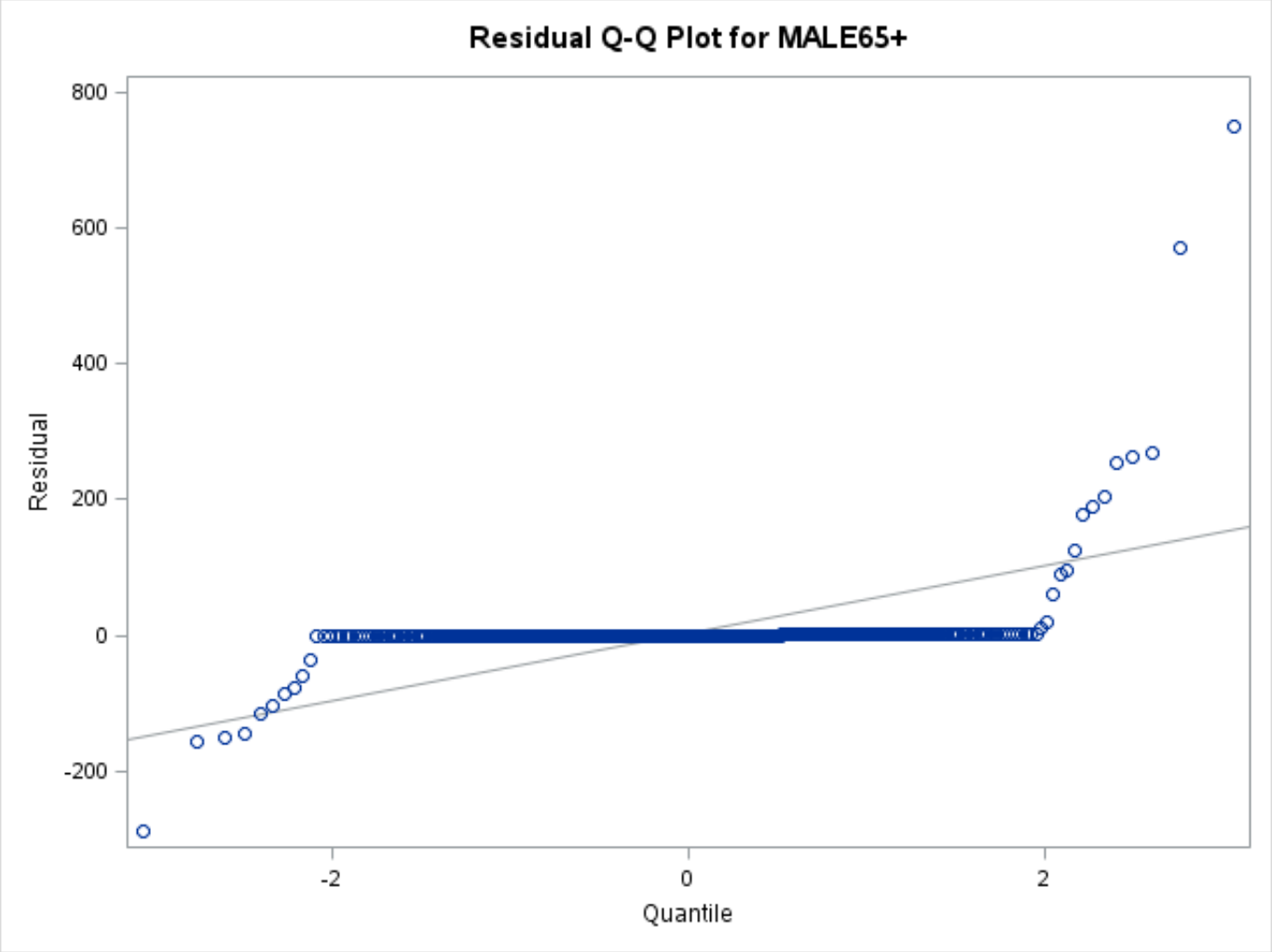
Correlations of Parameter Estimates						
Variable Parameter	**MALE65+ MU**	**MALE65+ MA1,1**	**MALE65+ MA2,1**	**MALE65+ AR1,1**	**MALE65+ AR2,1**	**BOTH SEXES55-64 NUM1**
MALE65+ MU	1.000	0.090	-0.109	-0.110	0.688	-0.401
MALE65+ MA1,1	0.090	1.000	-0.982	-0.981	0.136	-0.001
MALE65+ MA2,1	-0.109	-0.982	1.000	1.000	-0.164	0.001
MALE65+ AR1,1	-0.110	-0.981	1.000	1.000	-0.165	0.001
MALE65+ AR2,1	0.688	0.136	-0.164	-0.165	1.000	-0.064
BOTH SEXES55-64 NUM1	-0.401	-0.001	0.001	0.001	-0.064	1.000

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	0.00	2	0.9984	-0.001	-0.001	0.001	0.001	0.001	0.001
12	0.01	8	1.0000	0.001	0.001	0.001	0.001	0.001	0.001
18	0.01	14	1.0000	0.001	0.001	0.001	0.001	0.001	0.001
24	231.64	20	<.0001	0.001	0.001	0.001	-0.000	-0.000	0.620
30	231.64	26	<.0001	-0.001	-0.001	0.000	0.000	0.000	0.000
36	231.64	32	<.0001	0.000	0.000	0.000	0.000	0.000	0.000
42	231.65	38	<.0001	0.000	0.000	0.000	0.000	0.000	0.000
48	281.15	44	<.0001	0.000	0.000	0.000	-0.000	-0.000	0.280


Residual Correlation Diagnostics for MALE65+
ACF
PACF
IACF
White Noise Prob
Lag
1.0
0.5
0.0
-0.5
-1.0
.001
.05
0
5
10
15
20
25


Residual Normality Diagnostics for MALE65+
Distribution of Residuals
Normal
Kernel
Percent
Residual
500
400
300
200
100
0
-280
-120
40
200
360
520
680
840
QQ-Plot
Residual
Quantile
800
600
400
200
0
-200
-2
0
2


Distribution of Residuals for MALE65+
Normal
Kernel
Percent
500
400
300
200
100
0
-280
-200
-120
-40
40
120
200
280
360
440
520
600
680
760
840
Residual



Model for variable MALE65+	
Estimated Intercept	7540.914

Autoregressive Factors	
Factor 1:	1 - 0.20278 B**(1)
Factor 2:	1 - 0.9976 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.00697 B**(1)
Factor 2:	1 - 0.19392 B**(1)

Input Number 1	
Input Variable	BOTH SEXES55-64
Overall Regression Factor	0.27977

Note: Further warnings will not be printed.

The value for option LEAD= has been reduced to 0.

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

Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
529	Shift	750.50936	268246.3	<.0001
553	Shift	569.09390	195830.4	<.0001
289	Shift	-289.29194	50680.64	<.0001
25	Shift	269.58858	112564.7	<.0001
49	Shift	262.05078	46597.96	<.0001