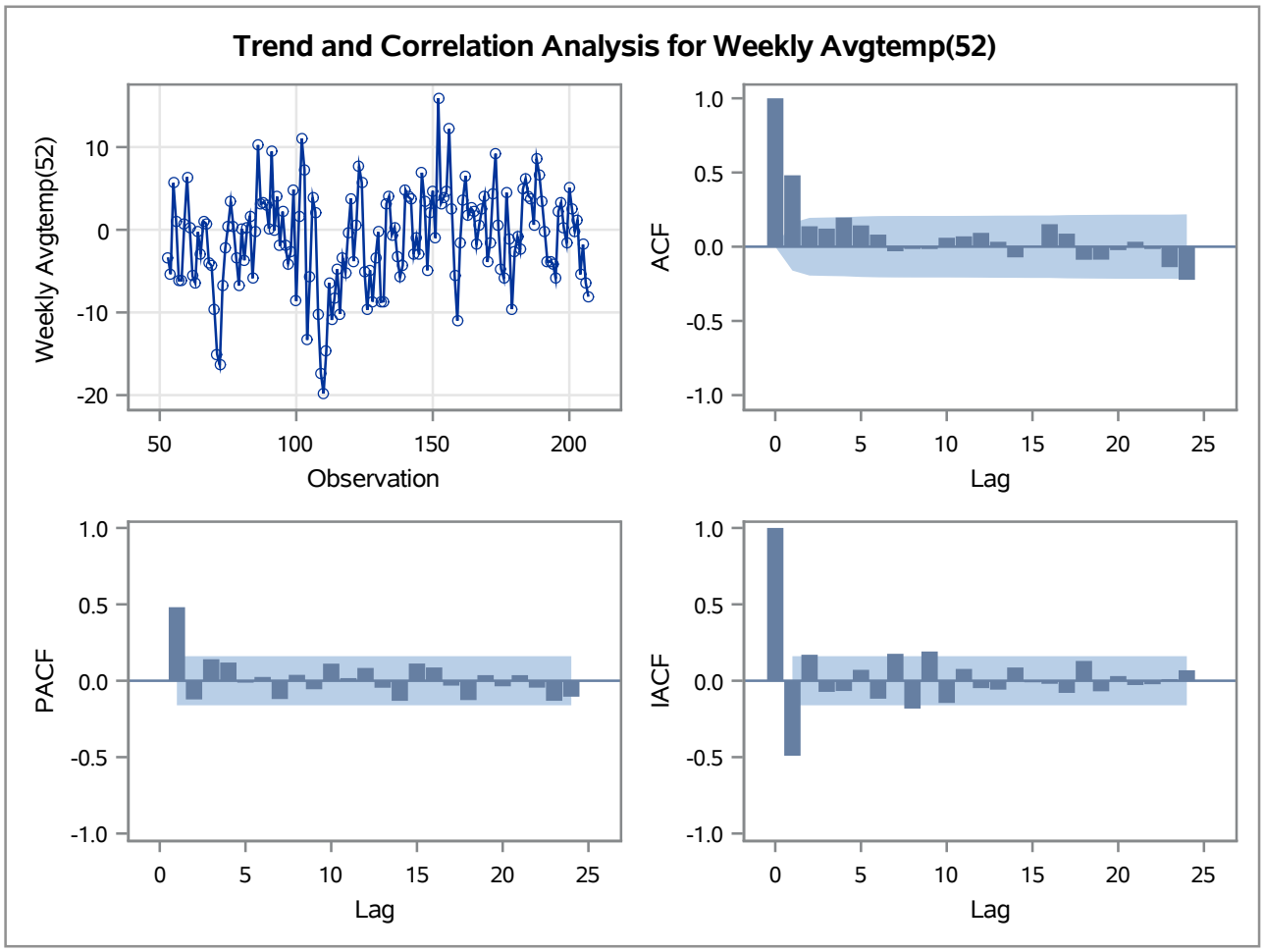
Name of Variable = Weekly Avgtemp	
Period(s) of Differencing	52
Mean of Working Series	-1.01703
Standard Deviation	5.886649
Number of Observations	155
Observation(s) eliminated by differencing	52

Autocorrelation Check for White Noise									
To Lag	**Chi-Square**	**DF**	**Pr > ChiSq**	**Autocorrelations**					
6	52.66	6	<.0001	0.481	0.138	0.122	0.197	0.143	0.082
12	55.82	12	<.0001	-0.031	-0.015	-0.015	0.060	0.070	0.093
18	63.66	18	<.0001	0.033	-0.072	0.004	0.152	0.088	-0.088
24	78.10	24	<.0001	-0.087	-0.023	0.033	-0.015	-0.138	-0.223

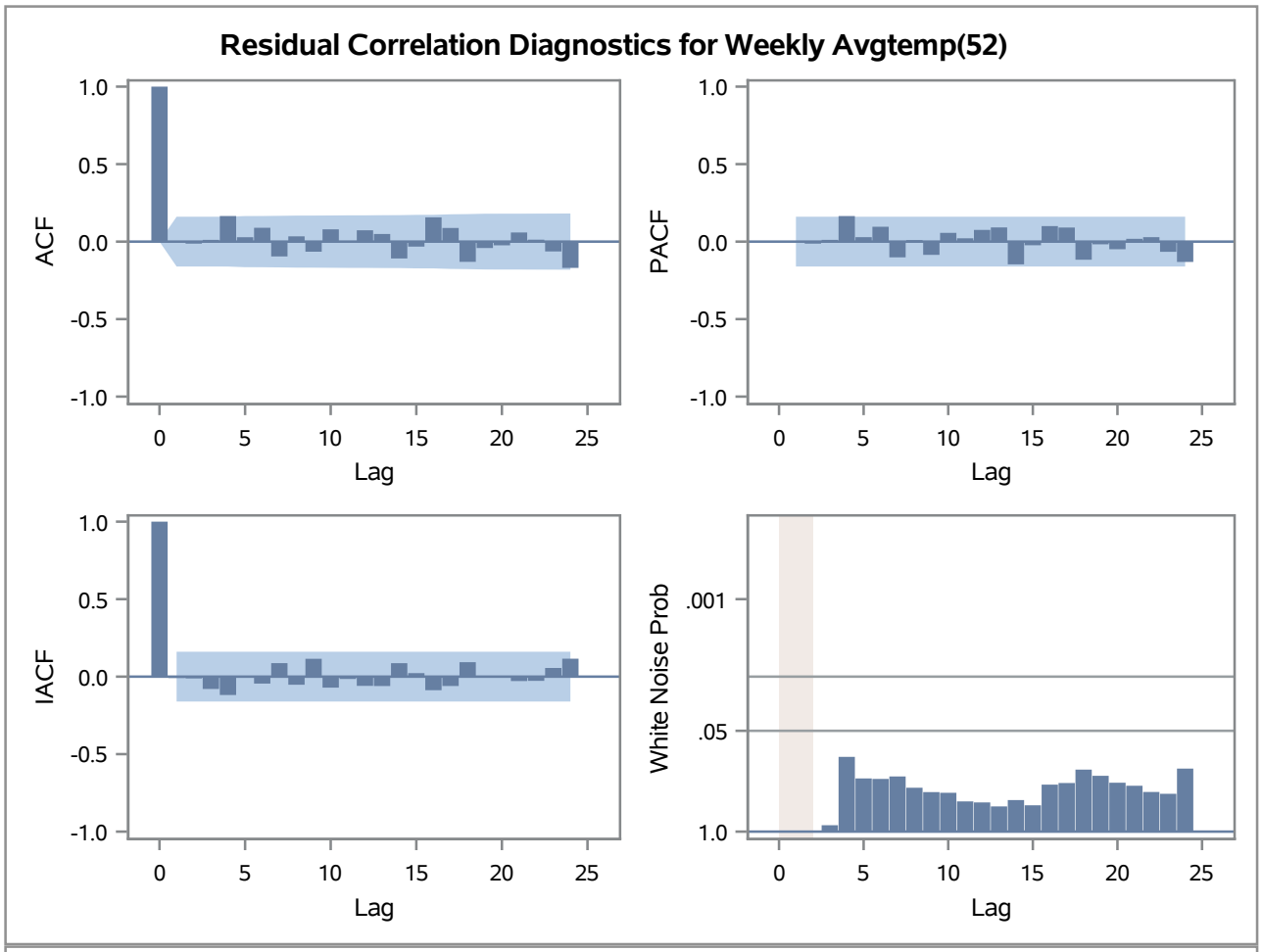


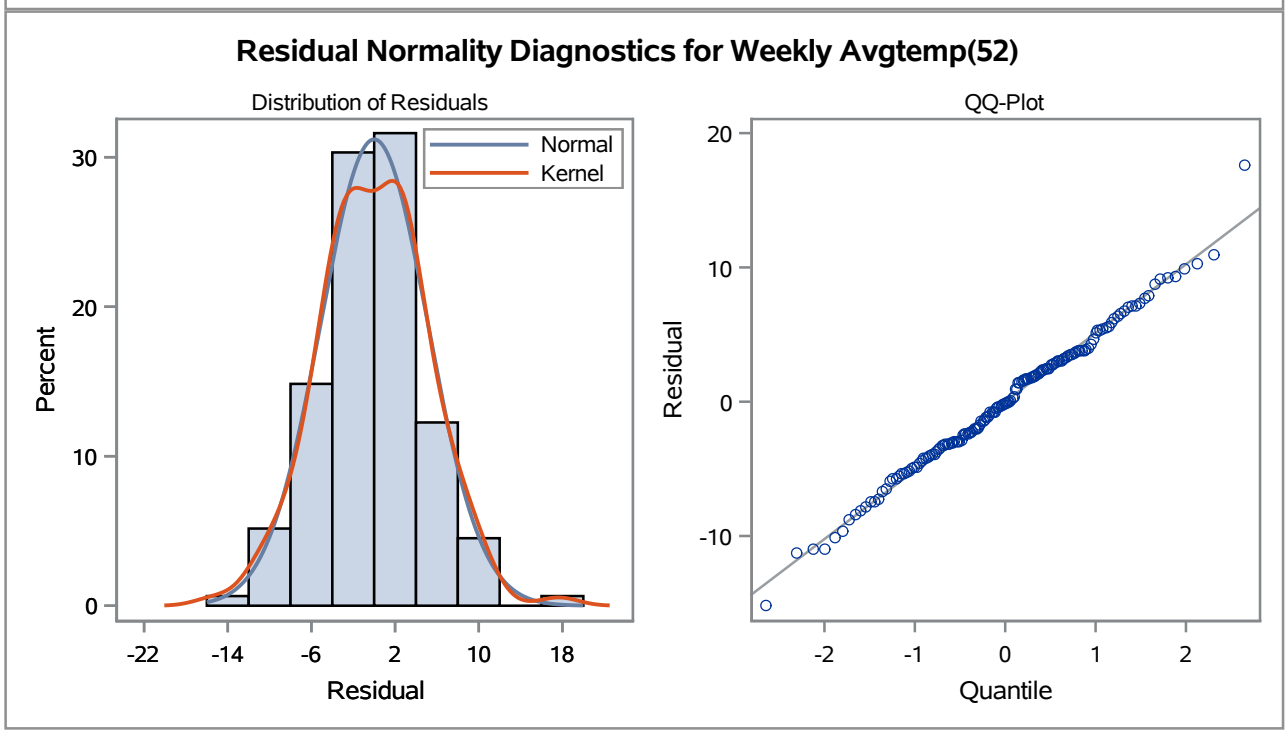
Maximum Likelihood Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > |t|	Lag
MU	-1.04588	0.72129	-1.45	0.1471	0
MA1,1	-0.29299	0.15145	-1.93	0.0530	1
AR1,1	0.26211	0.15297	1.71	0.0866	1

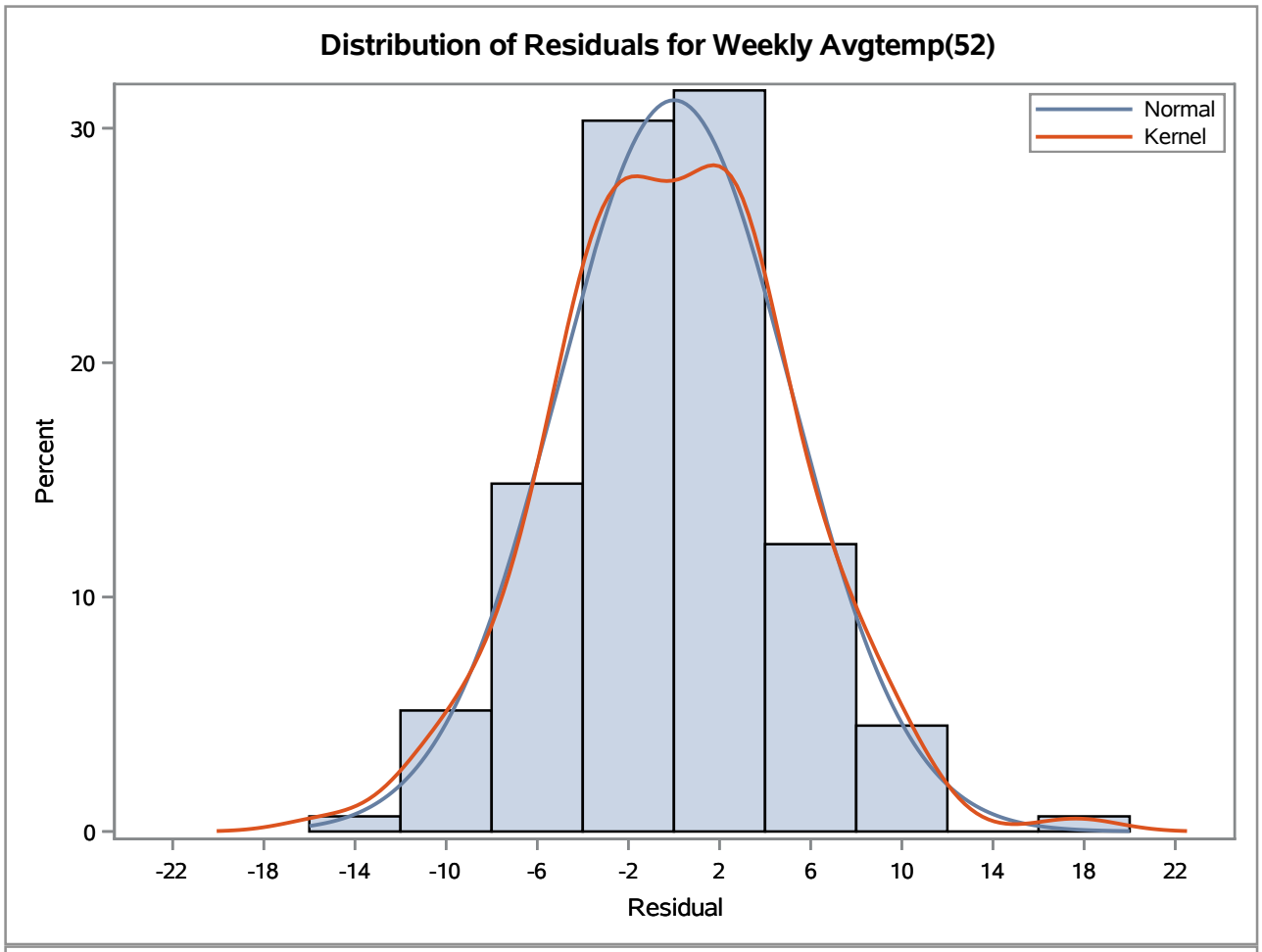
Constant Estimate	-0.77174
Variance Estimate	26.50917
Std Error Estimate	5.148706
AIC	951.1615
SBC	960.2918
Number of Residuals	155

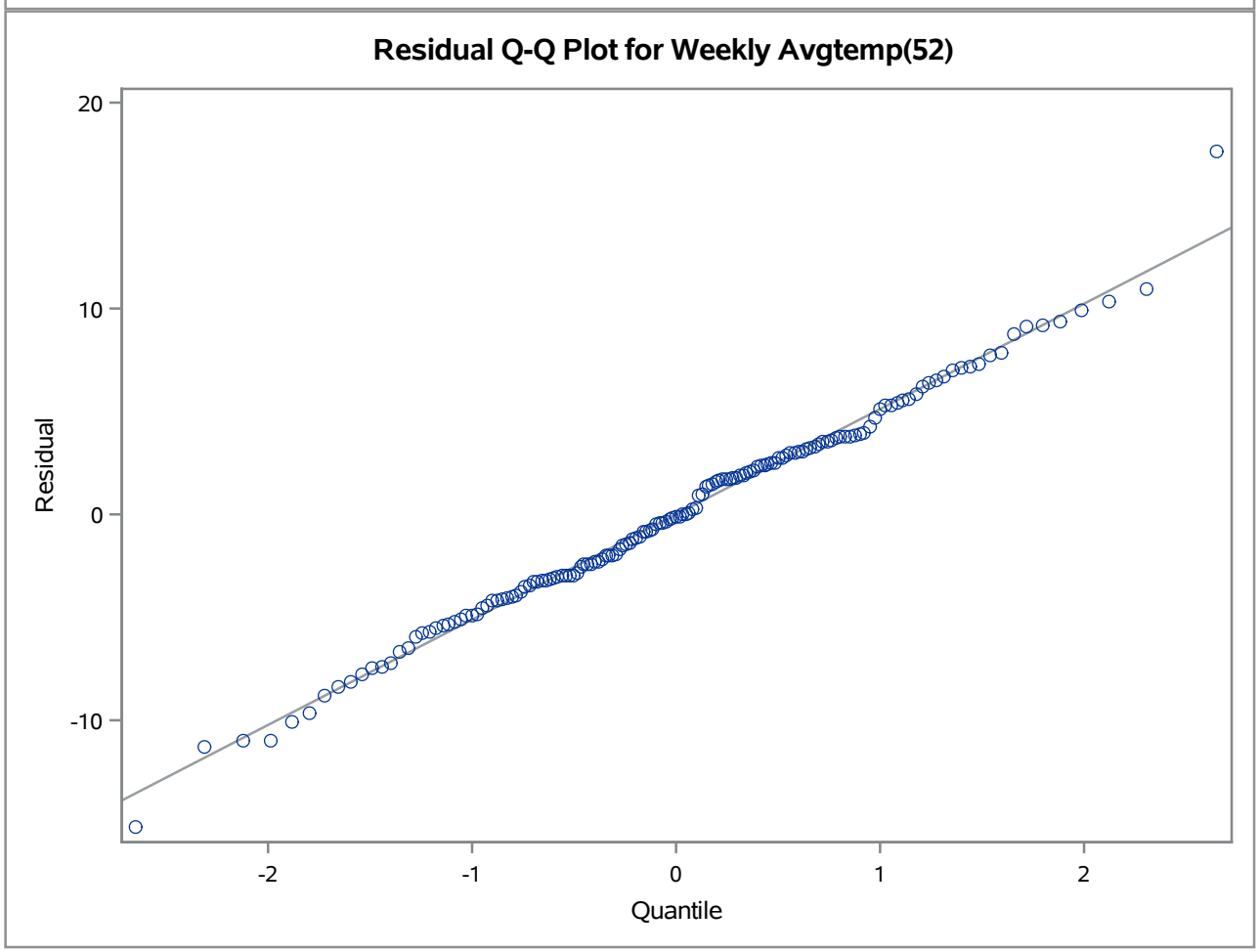
Correlations of Parameter Estimates			
Parameter	MU	MA1,1	AR1,1
MU	1.000	-0.011	-0.013
MA1,1	-0.011	1.000	0.859
AR1,1	-0.013	0.859	1.000

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	5.87	4	0.2087	0.003	-0.013	0.011	0.165	0.028	0.089
12	10.24	10	0.4198	-0.096	0.034	-0.065	0.079	-0.001	0.073
18	21.55	16	0.1584	0.049	-0.109	-0.032	0.156	0.088	-0.130
24	28.70	22	0.1537	-0.041	-0.024	0.059	0.013	-0.063	-0.170
30	35.47	28	0.1566	-0.058	-0.046	0.060	0.056	-0.034	-0.148


Residual Correlation Diagnostics for Weekly Avgtemp(52)
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 Weekly Avgtemp(52)
Distribution of Residuals
Normal
Kernel
Percent
Residual
30
20
10
0
-22 -14 -6 2 10 18
QQ-Plot
Residual
Quantile
20
10
0
-10
-2 -1 0 1 2


Distribution of Residuals for Weekly Avgtemp(52)
Normal
Kernel
Percent
30
20
10
0
-22
-18
-14
-10
-6
-2
2
6
10
14
18
22
Residual


Residual Q-Q Plot for Weekly Avgtemp(52)
Residual
20
10
0
-10
-2
-1
0
1
2
Quantile

Model for variable Weekly Avgtemp	
Estimated Mean	-1.04588
Period(s) of Differencing	52

Autoregressive Factors	
Factor 1:	1 - 0.26211 B**(1)

Moving Average Factors	
Factor 1:	1 + 0.29299 B**(1)

Name of Variable = avgactivepower	
Period(s) of Differencing	52
Mean of Working Series	-0.36141
Standard Deviation	4.311193
Number of Observations	155
Observation(s) eliminated by differencing	52

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	12.10	6	0.0599	0.256	0.089	0.033	-0.014	-0.037	0.003
12	14.52	12	0.2689	-0.044	-0.065	-0.066	-0.023	-0.047	-0.035
18	18.64	18	0.4145	0.016	-0.037	0.020	0.002	-0.101	-0.105
24	20.07	24	0.6926	-0.012	-0.009	0.052	0.042	0.049	0.026

Variable Weekly Avgtemp has been differenced.

Correlation of avgactivepower and Weekly Avgtemp	
Period(s) of Differencing	52
Number of Observations	155
Observation(s) eliminated by differencing	52
Variance of transformed series avgactivepower	19.17414
Variance of transformed series Weekly Avgtemp	25.99677

Both series have been prewhitened.

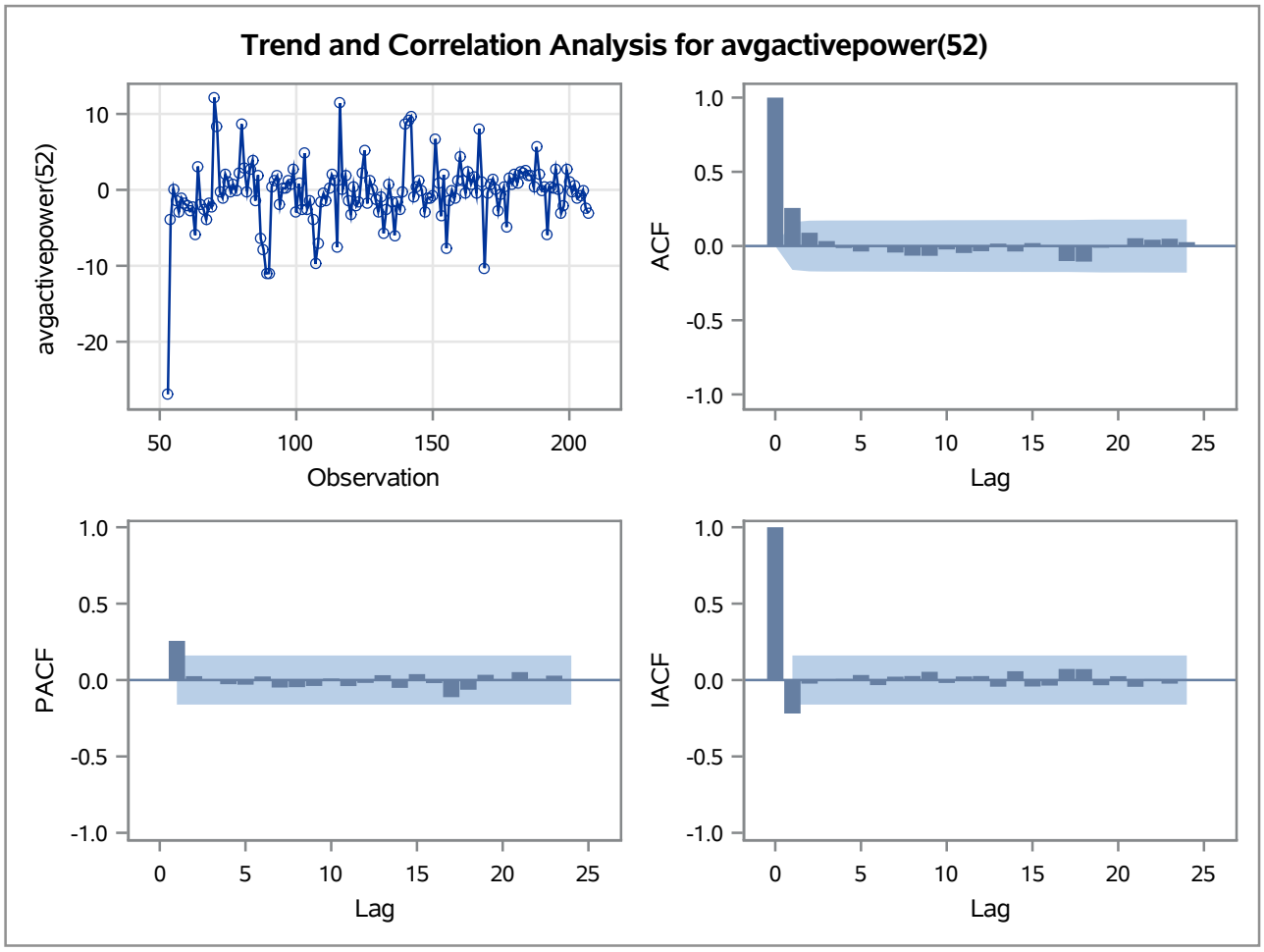
Crosscorrelation Check Between Series									
To Lag	Chi-Square	DF	Pr > ChiSq	Crosscorrelations					
5	6.82	6	0.3379	0.037	-0.076	0.039	-0.153	0.109	-0.018
11	14.89	12	0.2473	-0.019	0.007	-0.062	-0.122	0.116	0.140
17	22.46	18	0.2120	-0.139	-0.056	-0.083	0.116	-0.062	0.045
23	25.07	24	0.4018	0.119	0.002	-0.021	0.032	0.012	0.033

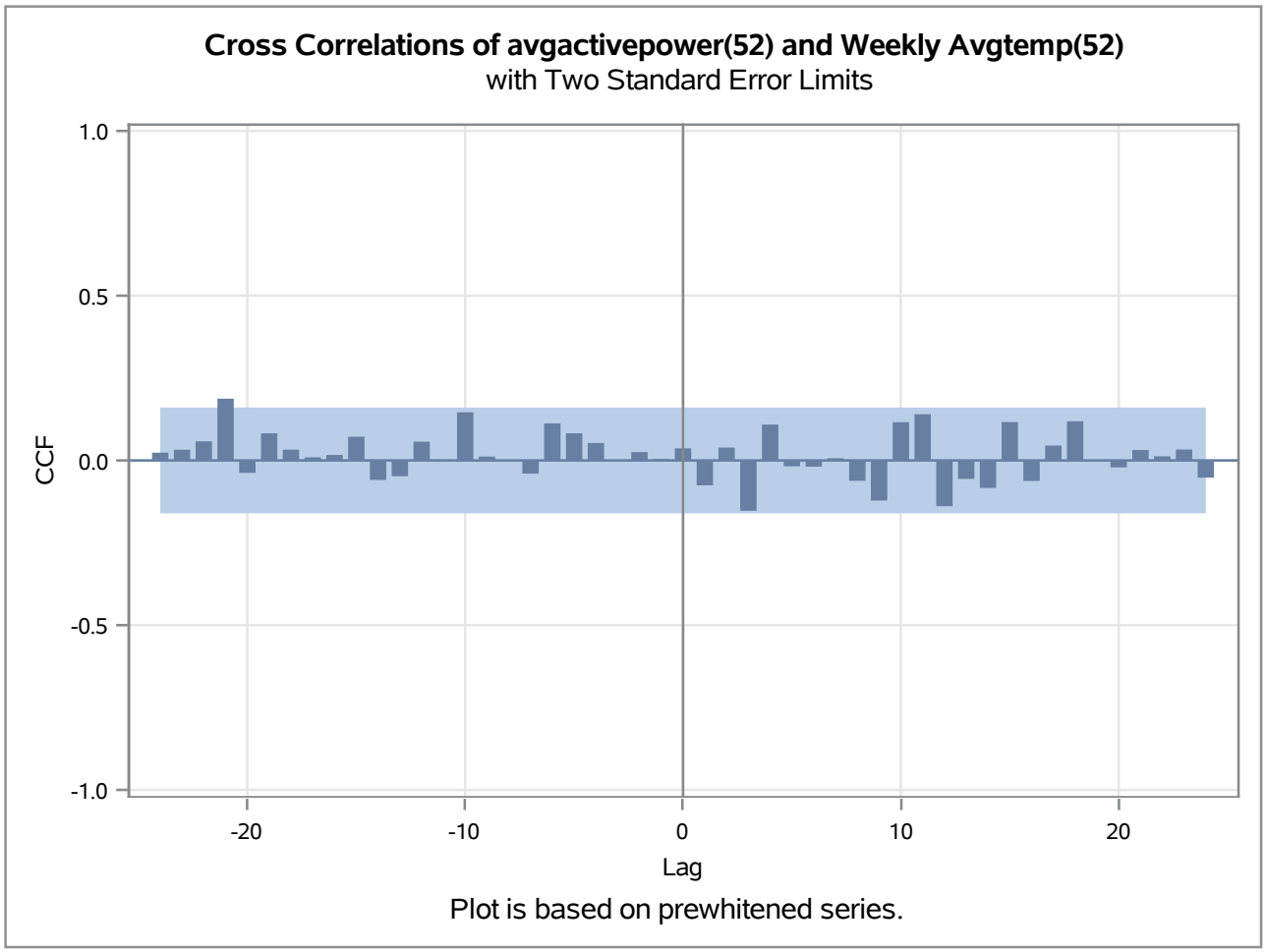
Both variables have been prewhitened by the following filter:

Prewhitening Filter

Autoregressive Factors	
Factor 1:	1 - 0.26211 B**(1)

Moving Average Factors	
Factor 1:	1 + 0.29299 B**(1)



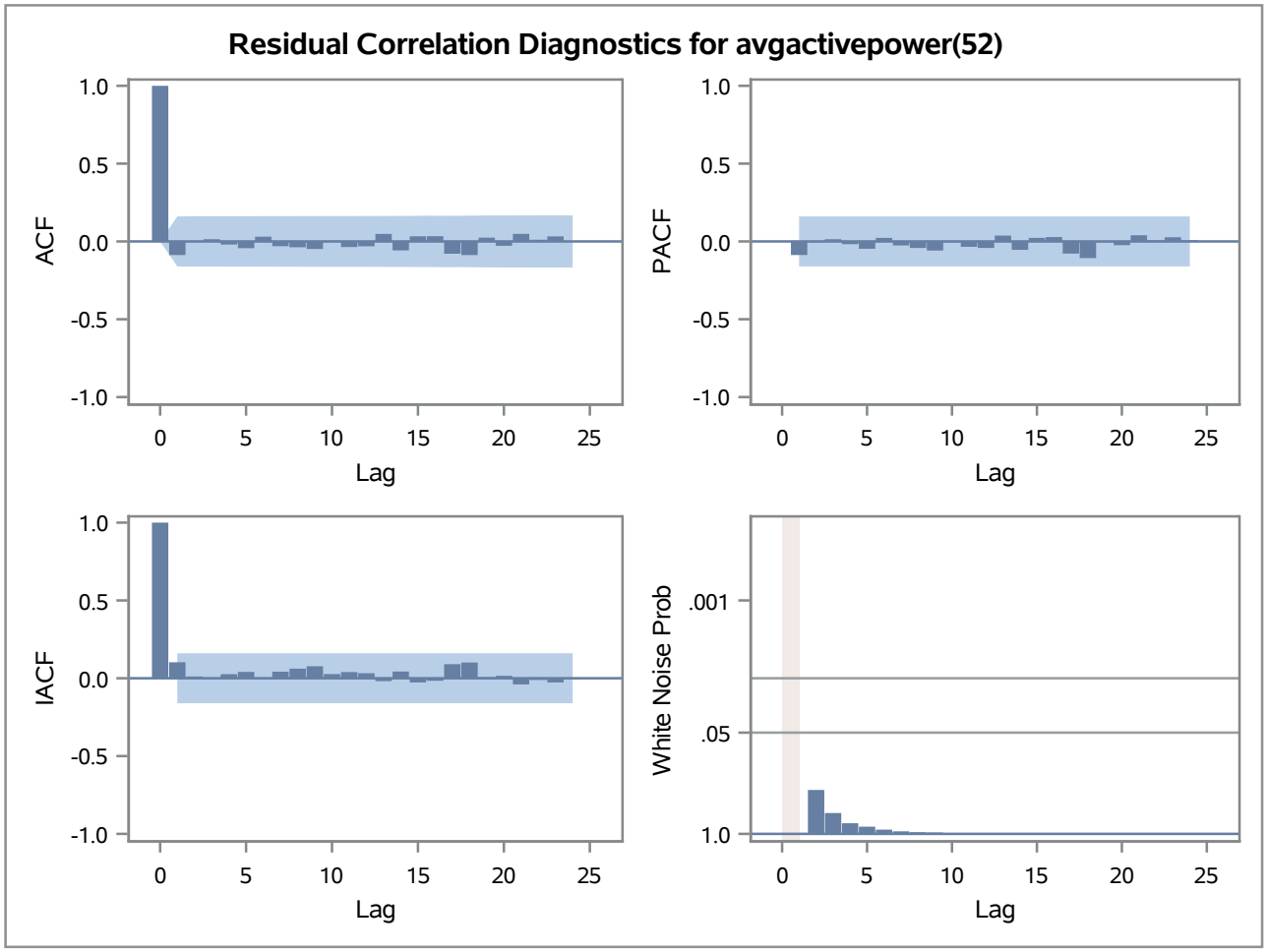


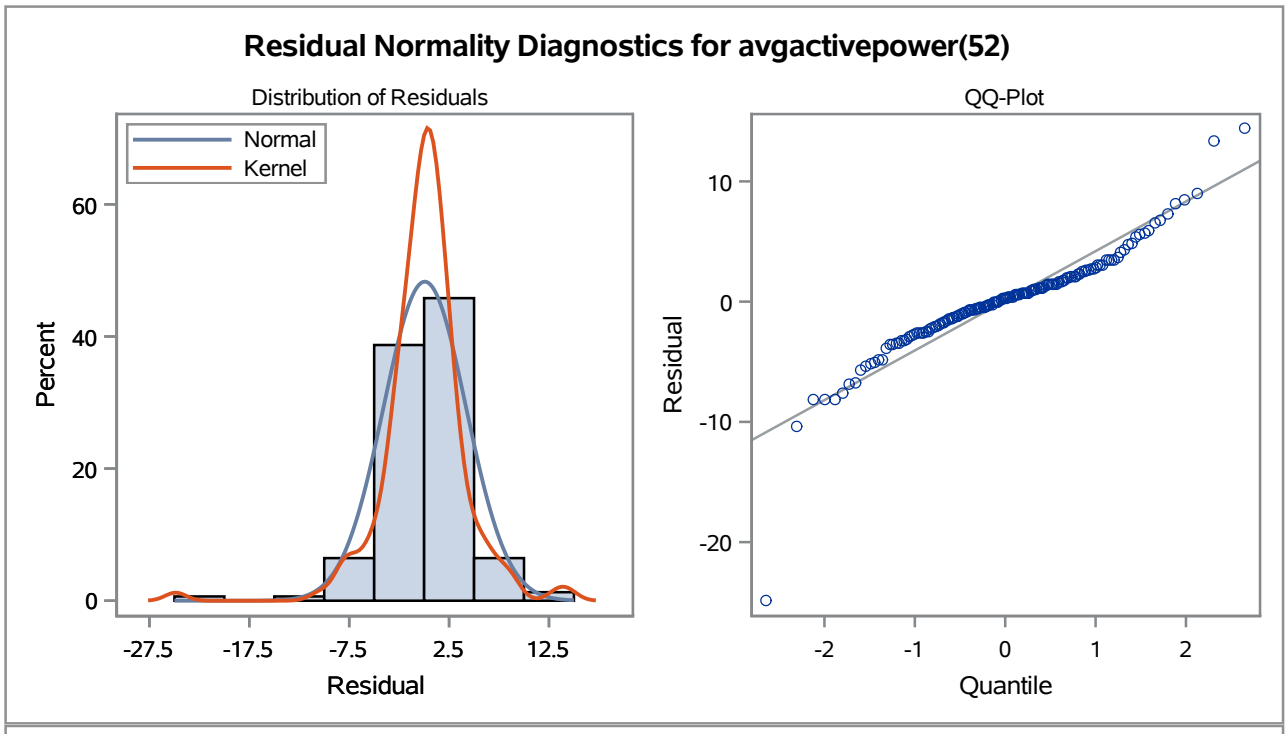
Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	-0.44091	0.50834	-0.87	0.3858	0	avgactivepower	0
AR1,1	0.33973	0.07633	4.45	<.0001	1	avgactivepower	0
NUM1	0.01624	0.06395	0.25	0.7995	0	Weekly Avgtemp	0

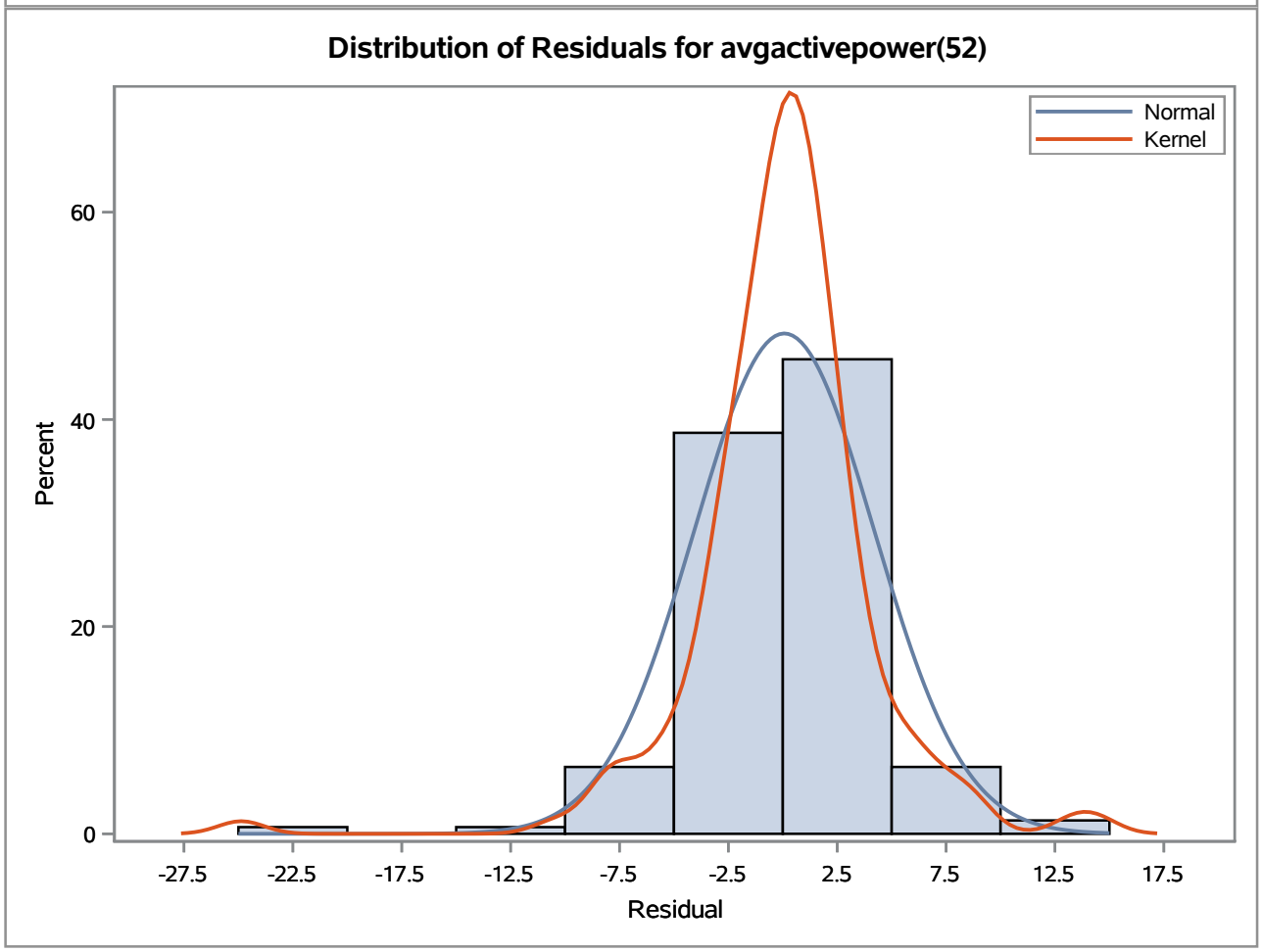
Constant Estimate	-0.29112
Variance Estimate	17.28425
Std Error Estimate	4.157433
AIC	884.6825
SBC	893.8128
Number of Residuals	155

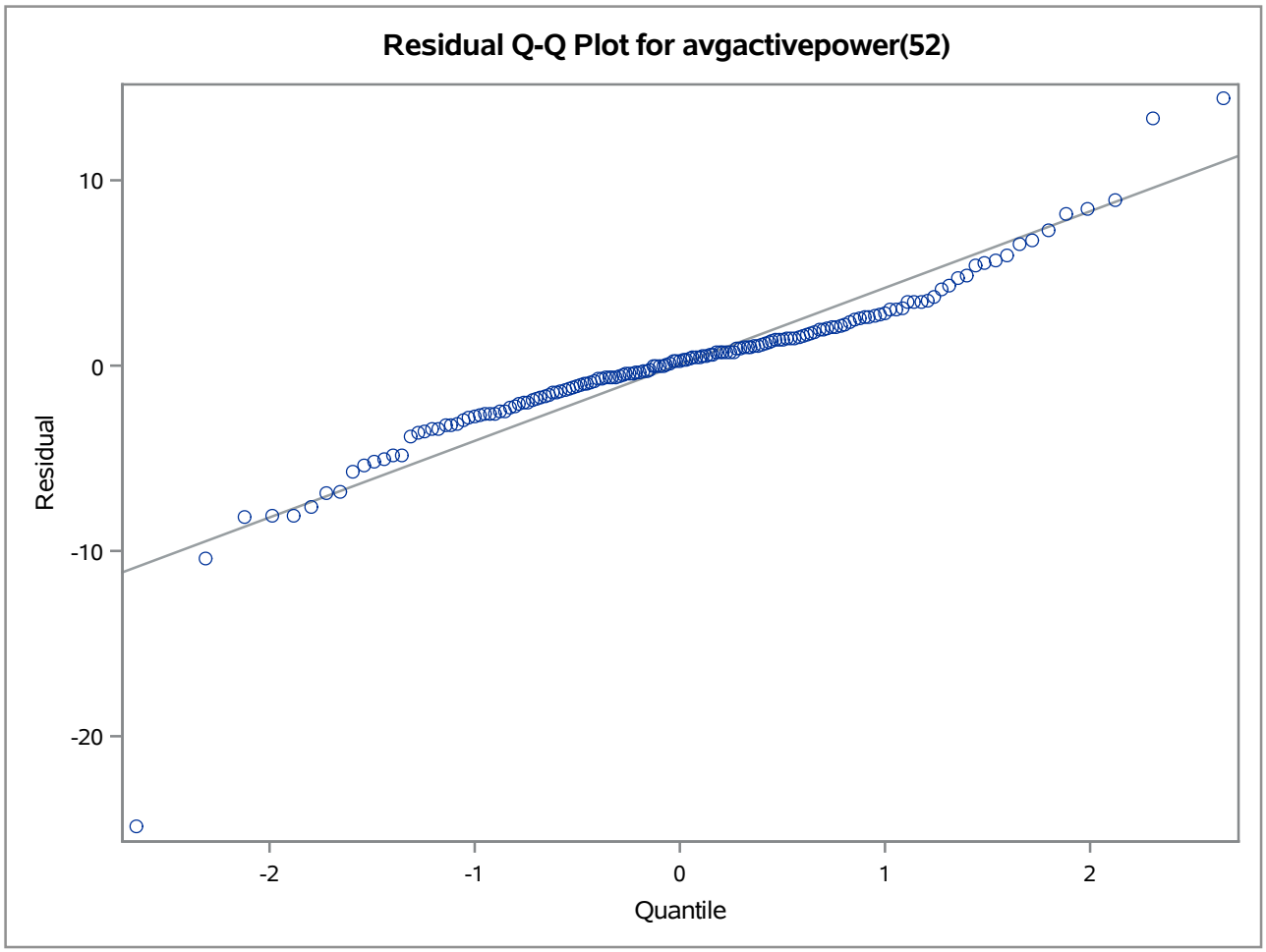
Correlations of Parameter Estimates			
Variable Parameter	avgactivepower MU	avgactivepower AR1,1	Weekly Avgtemp NUM1
avgactivepower MU	1.000	-0.010	0.132
avgactivepower AR1,1	-0.010	1.000	-0.034
Weekly Avgtemp NUM1	0.132	-0.034	1.000

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	1.73	5	0.8857	-0.086	0.004	0.015	-0.019	-0.042	0.031
12	2.83	11	0.9928	-0.030	-0.036	-0.047	0.006	-0.035	-0.030
18	6.61	17	0.9881	0.049	-0.057	0.034	0.035	-0.078	-0.087
24	7.52	23	0.9990	0.025	-0.027	0.049	0.012	0.033	-0.003
30	12.19	29	0.9974	0.042	0.039	-0.144	0.018	-0.013	0.006




Residual Normality Diagnostics for avgactivepower(52)
Distribution of Residuals
Normal
Kernel
Percent
60
40
20
0
-27.5
-17.5
-7.5
2.5
12.5
Residual
QQ-Plot
Residual
10
0
-10
-20
-2
-1
0
1
2
Quantile


Distribution of Residuals for avgactivepower(52)
Normal
Kernel
Percent
60
40
20
0
-27.5
-22.5
-17.5
-12.5
-7.5
-2.5
2.5
7.5
12.5
17.5
Residual



Crosscorrelation Check of Residuals with Input Weekly Avgtemp									
To Lag	Chi-Square	DF	Pr > ChiSq	Crosscorrelations					
5	5.43	6	0.4901	0.015	-0.077	0.024	-0.150	0.076	0.012
11	15.92	12	0.1949	-0.029	0.004	-0.063	-0.143	0.096	0.182
17	23.37	18	0.1767	-0.120	-0.100	-0.095	0.110	-0.038	0.029
23	27.12	24	0.2988	0.142	0.029	-0.027	0.026	0.021	0.038
29	30.32	30	0.4495	-0.045	0.011	0.049	0.028	0.053	-0.112

Model for variable avgactivepower	
Estimated Intercept	-0.44091
Period(s) of Differencing	52

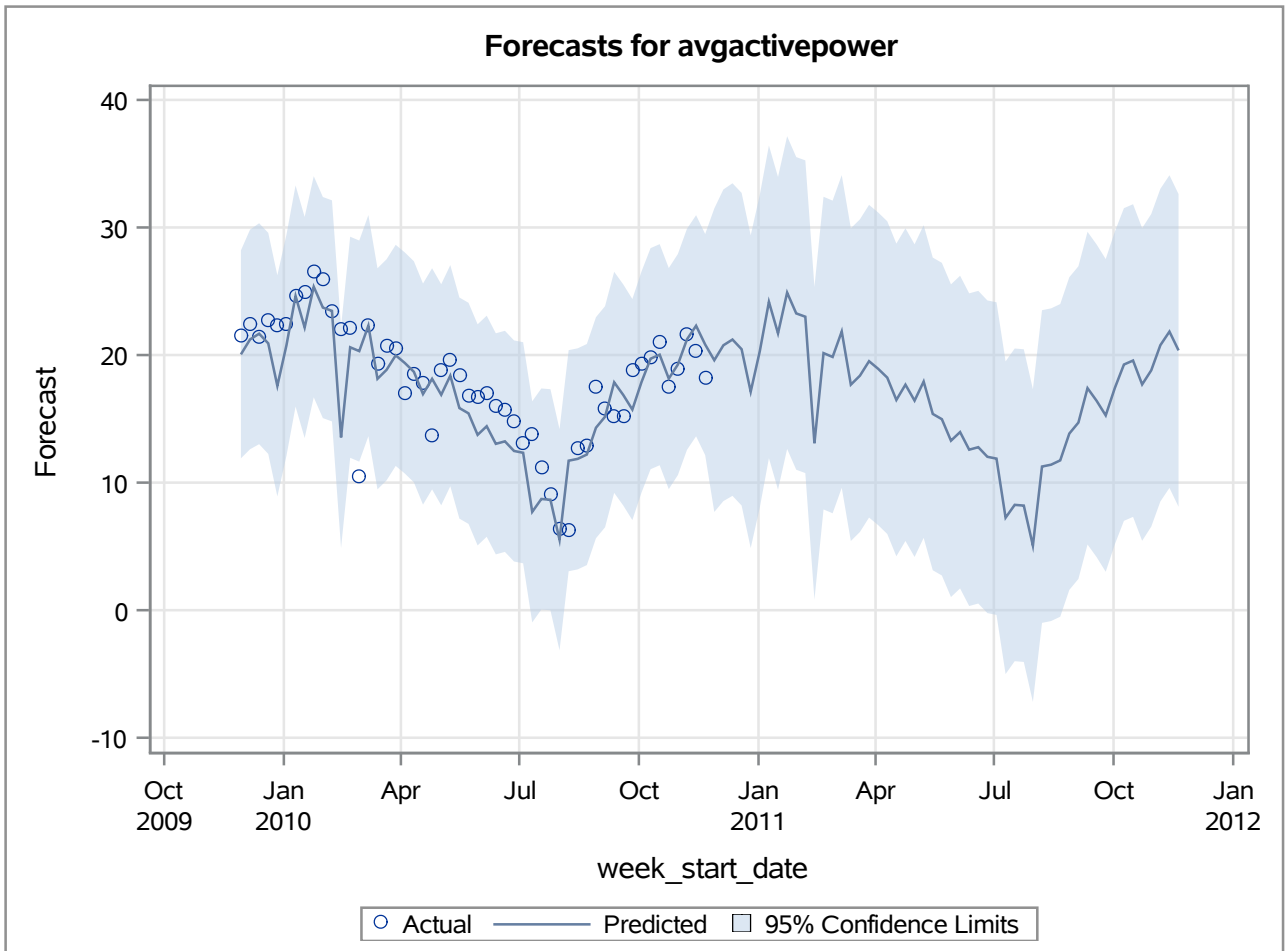
Autoregressive Factors	
Factor 1:	1 - 0.33973 B**(1)

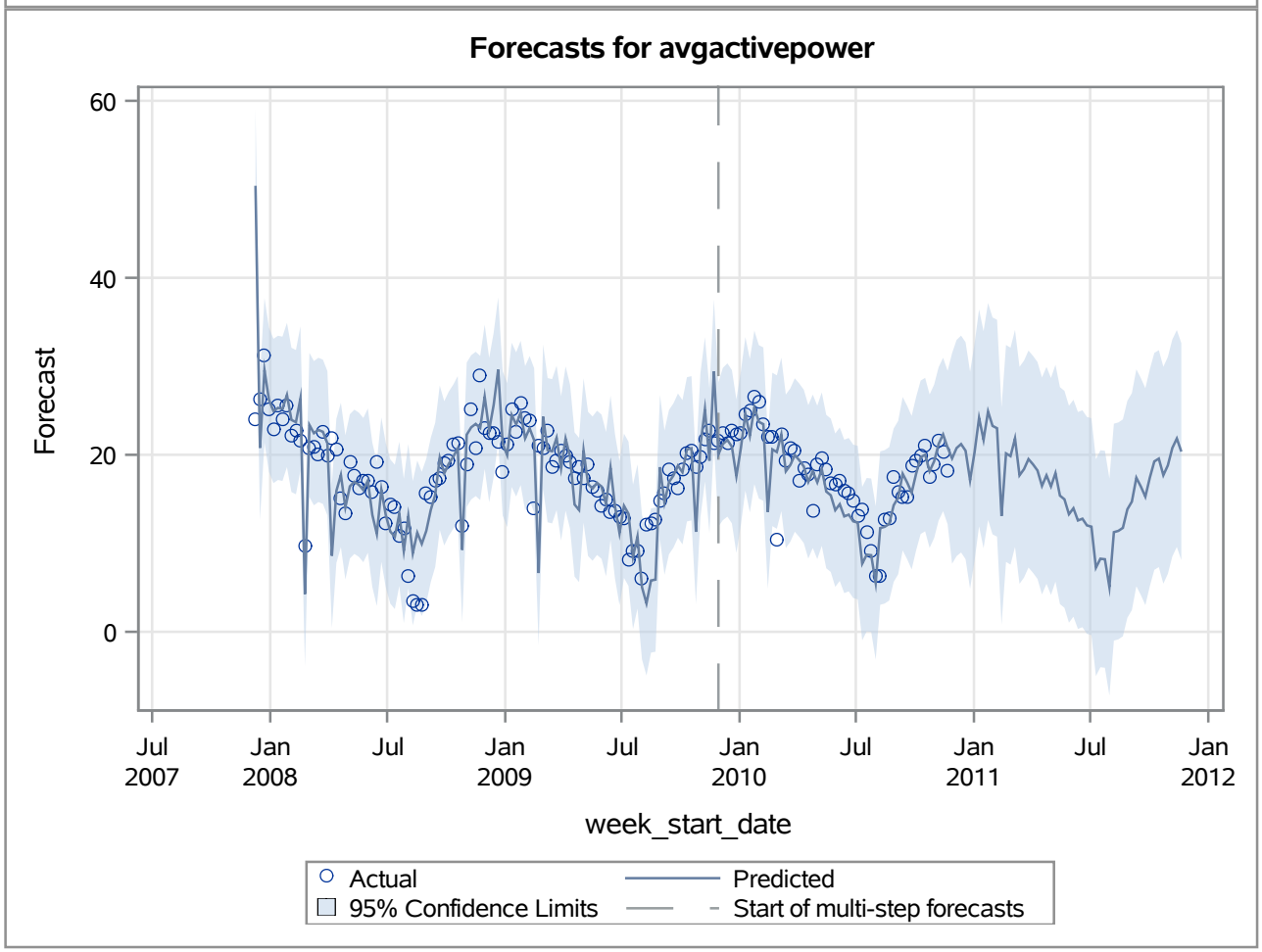
Input Number 1	
Input Variable	Weekly Avgtemp
Period(s) of Differencing	52
Overall Regression Factor	0.016243

Forecasts for variable avgactivepower						
Obs	Forecast	Std Error	95% Confidence Limits		Actual	Residual
156	20.0529	4.1583	11.9028	28.2030	21.5624	1.5095
157	21.2225	4.3918	12.6146	29.8303	22.4669	1.2445
158	21.6720	4.4180	13.0129	30.3311	21.3871	-0.2850
159	20.9137	4.4210	12.2487	29.5787	22.7175	1.8037
160	17.5863	4.4213	8.9206	26.2519	22.3792	4.7930
161	20.7595	4.4214	12.0937	29.4252	22.4671	1.7076
162	24.6277	4.4214	15.9620	33.2935	24.6369	0.0091
163	22.1602	4.4214	13.4944	30.8259	24.9857	2.8256
164	25.3527	4.4214	16.6869	34.0184	26.5780	1.2253
165	23.7222	4.4214	15.0564	32.3880	25.9285	2.2063
166	23.4621	4.4214	14.7964	32.1279	23.4609	-0.0012
167	13.5426	4.4214	4.8768	22.2084	22.0501	8.5075
168	20.6096	4.4214	11.9439	29.2754	22.0822	1.4726
169	20.3079	4.4214	11.6421	28.9737	10.4571	-9.8508
170	22.3044	4.4214	13.6386	30.9702	22.3079	0.0035
171	18.1366	4.4214	9.4708	26.8024	19.2894	1.1528
172	18.8411	4.4214	10.1753	27.5068	20.7536	1.9125
173	19.9746	4.4214	11.3088	28.6403	20.4903	0.5158
174	19.3802	4.4214	10.7144	28.0460	17.0384	-2.3418
175	18.6875	4.4214	10.0217	27.3533	18.5324	-0.1551
176	16.9389	4.4214	8.2731	25.6046	17.7879	0.8490
177	18.1363	4.4214	9.4706	26.8021	13.7017	-4.4347
178	16.8855	4.4214	8.2197	25.5513	18.8462	1.9606
179	18.3811	4.4214	9.7153	27.0468	19.6127	1.2317
180	15.8429	4.4214	7.1771	24.5087	18.3873	2.5443
181	15.4290	4.4214	6.7632	24.0948	16.8431	1.4141
182	13.7432	4.4214	5.0774	22.4090	16.6673	2.9241
183	14.4183	4.4214	5.7526	23.0841	17.0562	2.6379
184	13.0391	4.4214	4.3733	21.7049	15.9738	2.9347
185	13.2343	4.4214	4.5686	21.9001	15.6629	2.4286
186	12.4813	4.4214	3.8155	21.1471	14.8374	2.3561
187	12.3396	4.4214	3.6739	21.0054	13.1340	0.7944
188	7.7060	4.4214	-0.9598	16.3717	13.8147	6.1087
189	8.7151	4.4214	0.0494	17.3809	11.2359	2.5207
190	8.6551	4.4214	-0.0106	17.3209	9.0684	0.4133
191	5.5210	4.4214	-3.1448	14.1867	6.3648	0.8438

Forecasts for variable avgactivepower						
Obs	Forecast	Std Error	95% Confidence Limits		Actual	Residual
192	11.7171	4.4214	3.0513	20.3829	6.2311	-5.4860
193	11.8622	4.4214	3.1964	20.5279	12.7310	0.8689
194	12.2006	4.4214	3.5348	20.8663	12.8774	0.6769
195	14.3018	4.4214	5.6360	22.9676	17.5338	3.2320
196	15.1647	4.4214	6.4989	23.8305	15.7601	0.5954
197	17.8612	4.4214	9.1954	26.5270	15.1959	-2.6653
198	16.8699	4.4214	8.2042	25.5357	15.2247	-1.6452
199	15.7254	4.4214	7.0596	24.3912	18.8281	3.1027
200	17.8766	4.4214	9.2108	26.5424	19.3600	1.4834
201	19.7146	4.4214	11.0488	28.3804	19.8521	0.1374
202	20.0268	4.4214	11.3610	28.6926	21.0525	1.0257
203	18.1517	4.4214	9.4859	26.8175	17.4959	-0.6558
204	19.2577	4.4214	10.5919	27.9234	18.9164	-0.3413
205	21.2305	4.4214	12.5648	29.8963	21.6627	0.4321
206	22.2967	4.4214	13.6309	30.9625	20.3325	-1.9642
207	20.8213	4.4214	12.1556	29.4871	18.1880	-2.6334
208	19.5950	6.0696	7.6988	31.4912	.	.
209	20.7646	6.2319	8.5502	32.9789	.	.
210	21.2141	6.2504	8.9636	33.4647	.	.
211	20.4558	6.2525	8.2011	32.7105	.	.
212	17.1284	6.2528	4.8732	29.3836	.	.
213	20.3016	6.2528	8.0463	32.5568	.	.
214	24.1698	6.2528	11.9146	36.4251	.	.
215	21.7023	6.2528	9.4470	33.9575	.	.
216	24.8948	6.2528	12.6395	37.1500	.	.
217	23.2643	6.2528	11.0091	35.5196	.	.
218	23.0042	6.2528	10.7490	35.2595	.	.
219	13.0847	6.2528	0.8295	25.3400	.	.
220	20.1517	6.2528	7.8965	32.4070	.	.
221	19.8500	6.2528	7.5947	32.1053	.	.
222	21.8465	6.2528	9.5913	34.1018	.	.
223	17.6787	6.2528	5.4235	29.9340	.	.
224	18.3832	6.2528	6.1279	30.6384	.	.
225	19.5167	6.2528	7.2614	31.7719	.	.
226	18.9223	6.2528	6.6670	31.1776	.	.
227	18.2296	6.2528	5.9743	30.4849	.	.

Forecasts for variable avgactivepower						
Obs	Forecast	Std Error	95% Confidence Limits		Actual	Residual
228	16.4810	6.2528	4.2257	28.7362	.	.
229	17.6784	6.2528	5.4232	29.9337	.	.
230	16.4276	6.2528	4.1724	28.6829	.	.
231	17.9232	6.2528	5.6679	30.1784	.	.
232	15.3850	6.2528	3.1298	27.6403	.	.
233	14.9711	6.2528	2.7159	27.2264	.	.
234	13.2853	6.2528	1.0301	25.5406	.	.
235	13.9604	6.2528	1.7052	26.2157	.	.
236	12.5812	6.2528	0.3260	24.8365	.	.
237	12.7764	6.2528	0.5212	25.0317	.	.
238	12.0234	6.2528	-0.2319	24.2786	.	.
239	11.8817	6.2528	-0.3735	24.1370	.	.
240	7.2481	6.2528	-5.0072	19.5033	.	.
241	8.2572	6.2528	-3.9980	20.5125	.	.
242	8.1972	6.2528	-4.0580	20.4525	.	.
243	5.0631	6.2528	-7.1922	17.3183	.	.
244	11.2592	6.2528	-0.9960	23.5145	.	.
245	11.4043	6.2528	-0.8510	23.6595	.	.
246	11.7427	6.2528	-0.5126	23.9979	.	.
247	13.8439	6.2528	1.5886	26.0992	.	.
248	14.7068	6.2528	2.4515	26.9621	.	.
249	17.4033	6.2528	5.1481	29.6586	.	.
250	16.4120	6.2528	4.1568	28.6673	.	.
251	15.2675	6.2528	3.0123	27.5228	.	.
252	17.4187	6.2528	5.1634	29.6739	.	.
253	19.2567	6.2528	7.0015	31.5120	.	.
254	19.5689	6.2528	7.3137	31.8242	.	.
255	17.6938	6.2528	5.4386	29.9491	.	.
256	18.7998	6.2528	6.5445	31.0550	.	.
257	20.7727	6.2528	8.5174	33.0279	.	.
258	21.8388	6.2528	9.5835	34.0940	.	.
259	20.3635	6.2528	8.1082	32.6187	.	.


Forecasts for avgactivepower
Forecast
40
30
20
10
0
-10
Oct 2009
Jan 2010
Apr
Jul
Oct
Jan 2011
Apr
Jul
Oct
Jan 2012
week_start_date
Actual
Predicted
95% Confidence Limits


Forecasts for avgactivepower
Forecast
60
40
20
0
Jul 2007
Jan 2008
Jul
Jan 2009
Jul
Jan 2010
Jul
Jan 2011
Jul
Jan 2012
week_start_date
Actual
95% Confidence Limits
Predicted
Start of multi-step forecasts