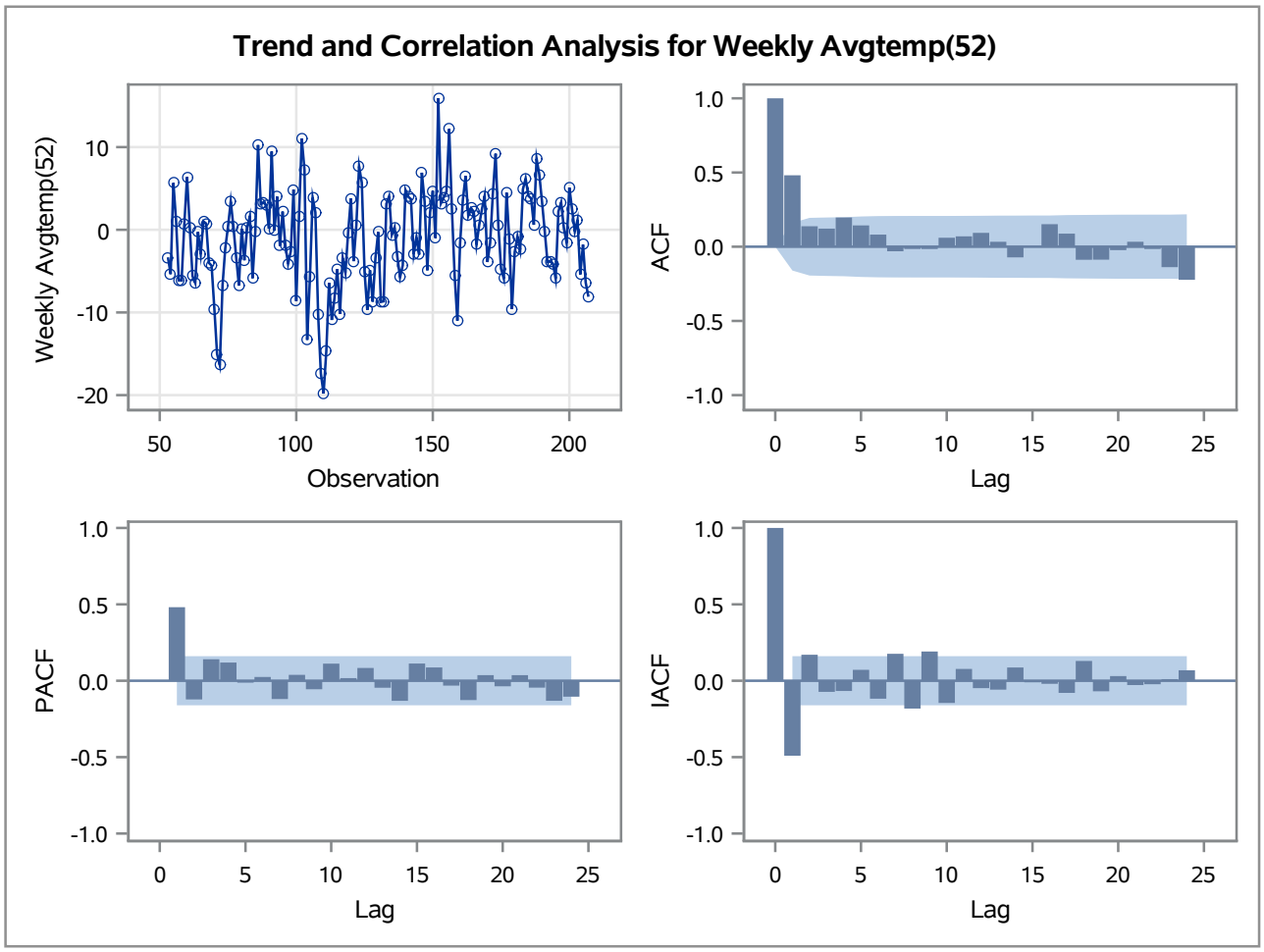
Name of Variable = Weekly Avgtemp	
Period(s) of Differencing	52
Mean of Working Series	-1.01703
Standard Deviation	5.886649
Number of Observations	155
Observation(s) eliminated by differencing	52

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

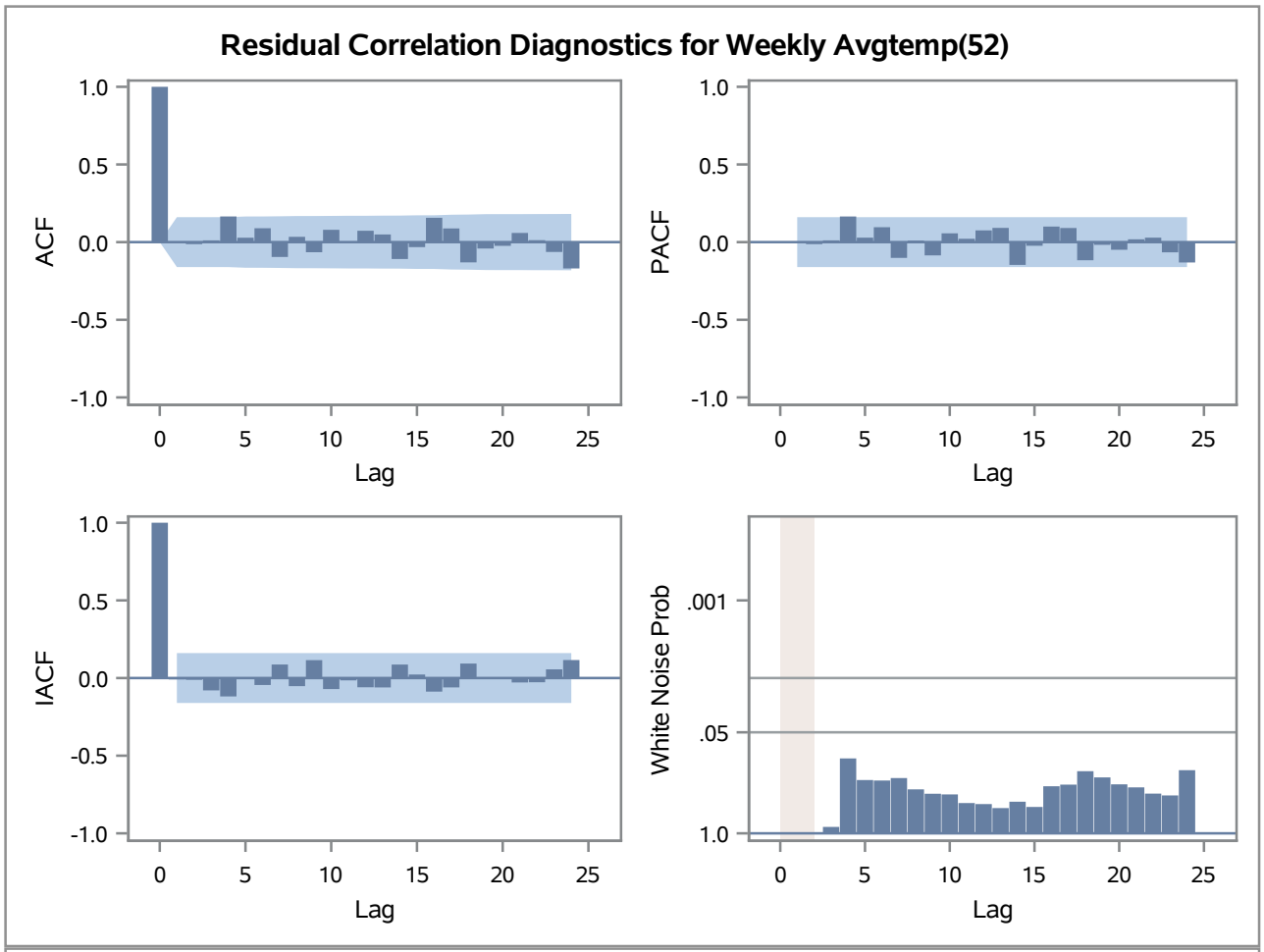


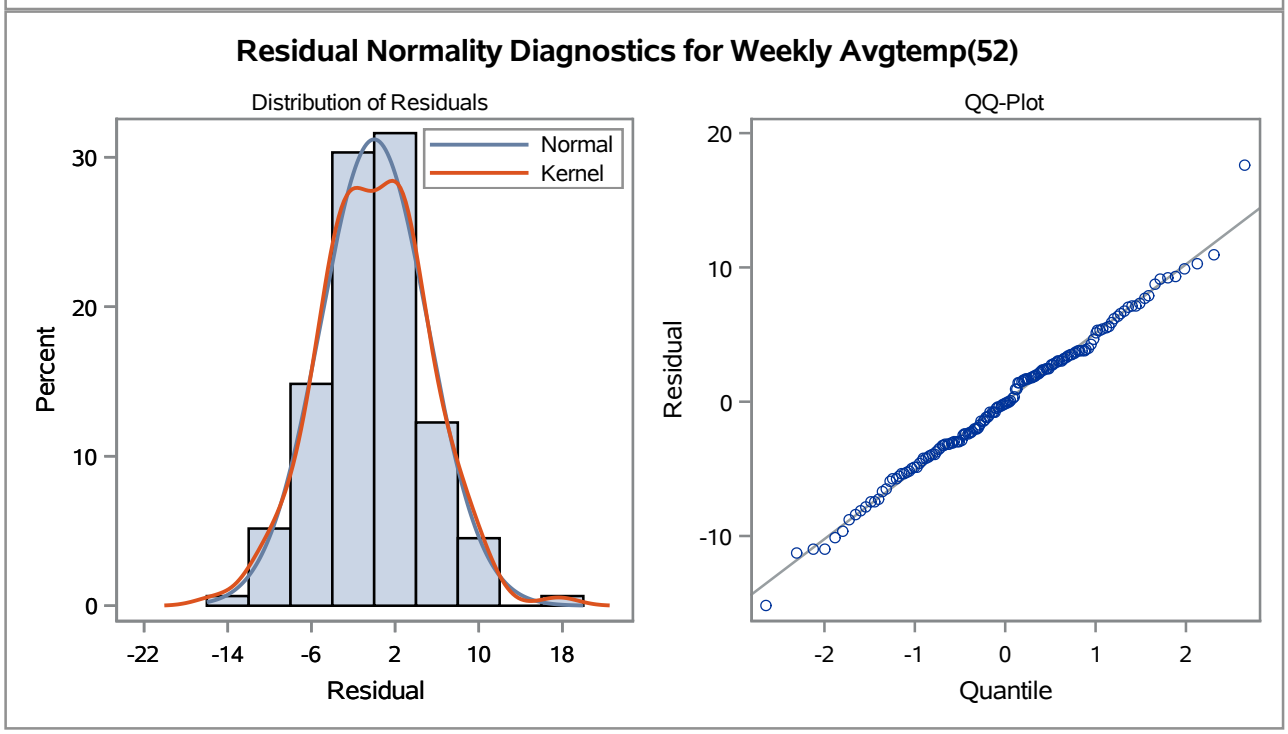
Maximum Likelihood Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > |t|	Lag
MU	-1.04588	0.72129	-1.45	0.1471	0
MA1,1	-0.29299	0.15145	-1.93	0.0530	1
AR1,1	0.26211	0.15297	1.71	0.0866	1

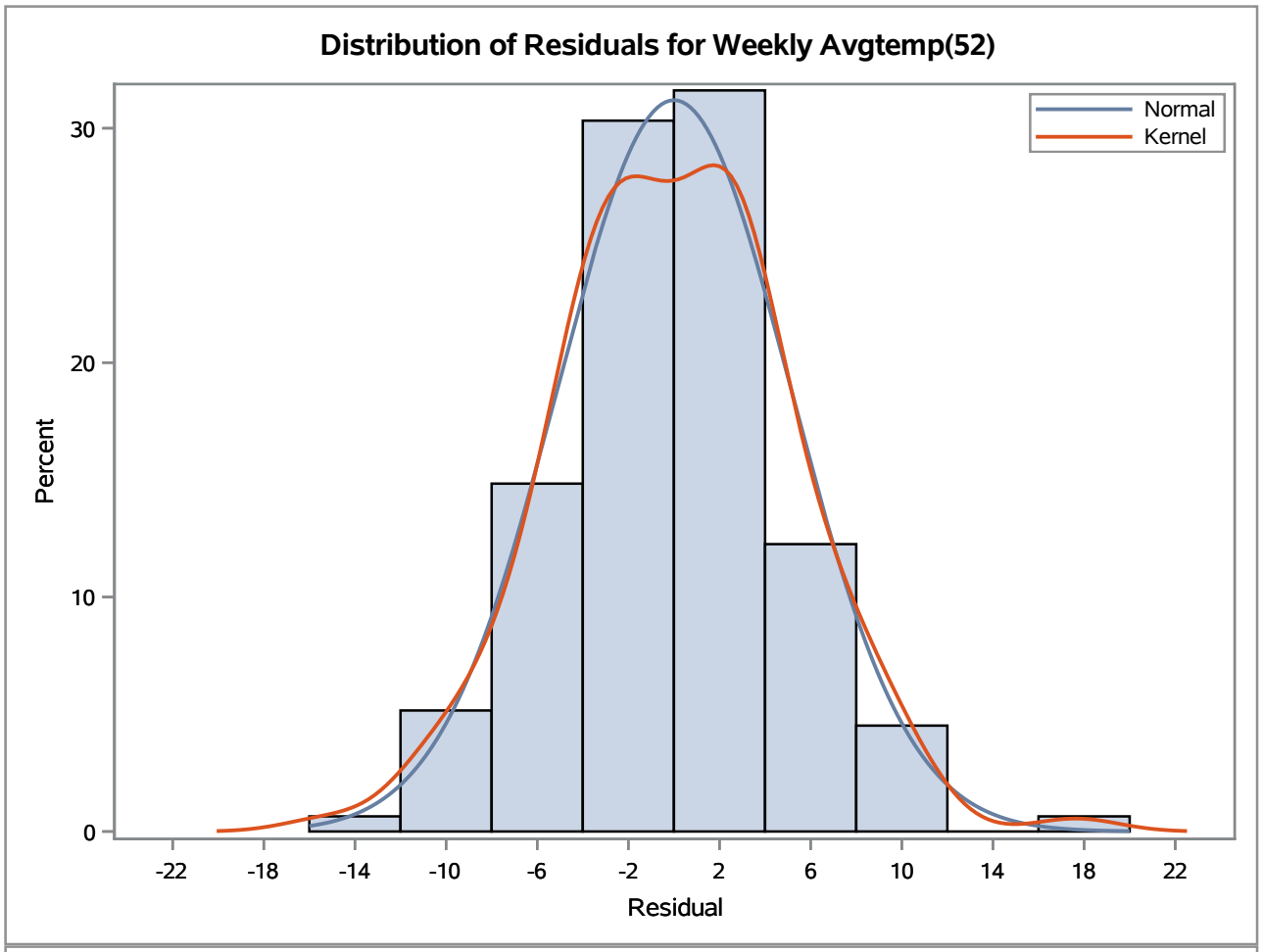
Constant Estimate	-0.77174
Variance Estimate	26.50917
Std Error Estimate	5.148706
AIC	951.1615
SBC	960.2918
Number of Residuals	155

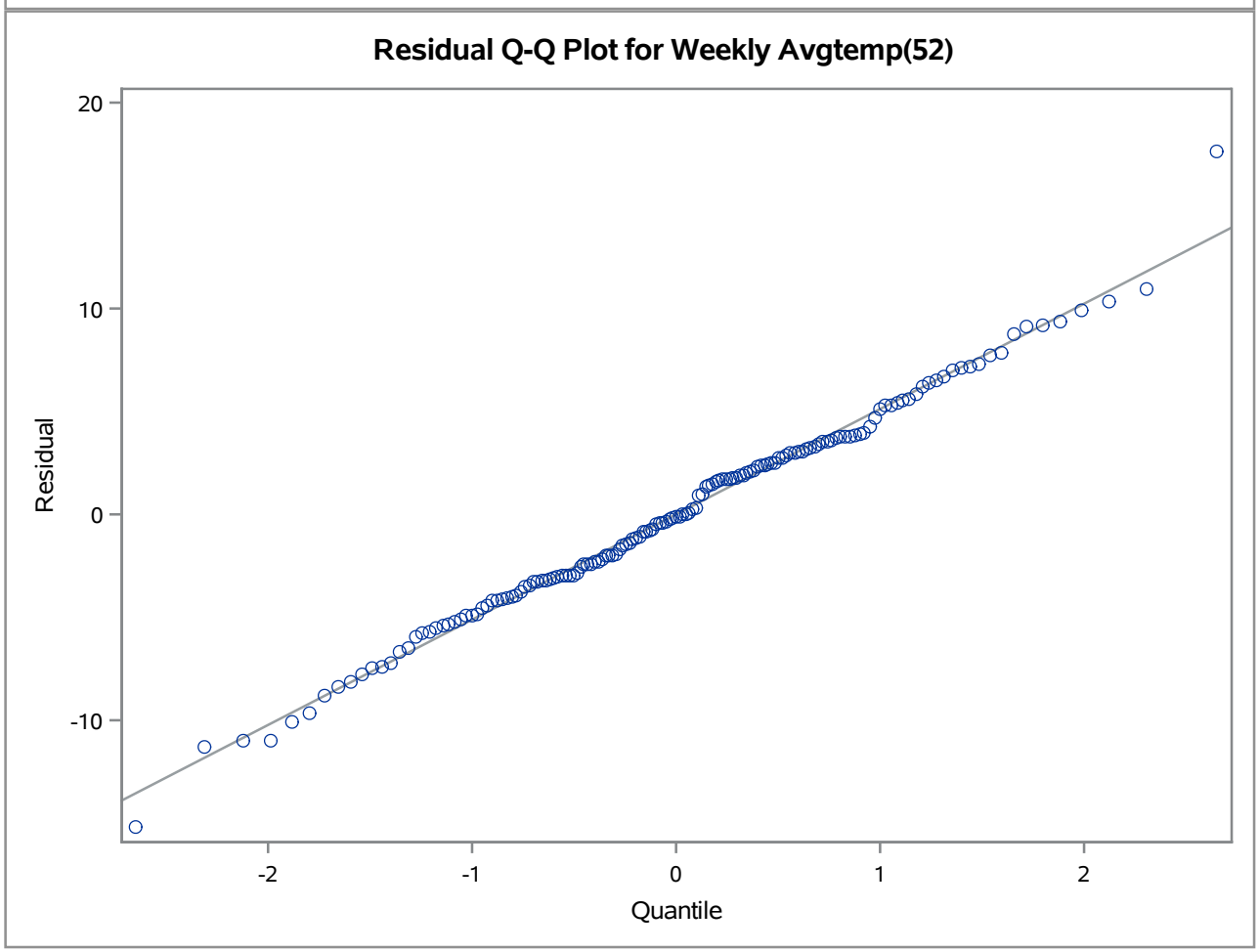
Correlations of Parameter Estimates			
Parameter	MU	MA1,1	AR1,1
MU	1.000	-0.011	-0.013
MA1,1	-0.011	1.000	0.859
AR1,1	-0.013	0.859	1.000

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.

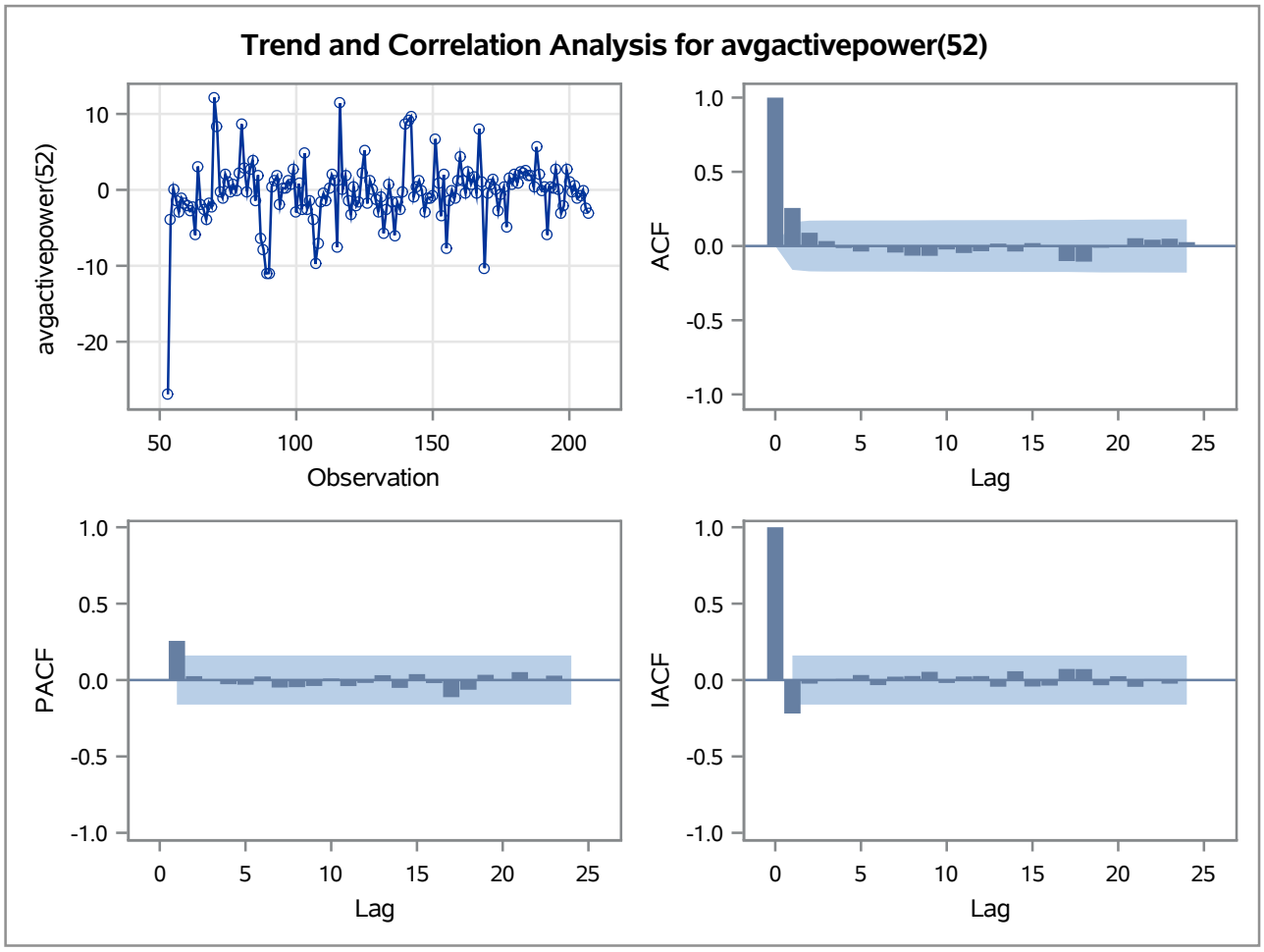
Crosscorrelation Check Between Series									
To Lag	Chi-Square	DF	Pr > ChiSq	Crosscorrelations					
5	6.82	6	0.3379	0.037	-0.076	0.039	-0.153	0.109	-0.018
11	14.89	12	0.2473	-0.019	0.007	-0.062	-0.122	0.116	0.140
17	22.46	18	0.2120	-0.139	-0.056	-0.083	0.116	-0.062	0.045
23	25.07	24	0.4018	0.119	0.002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

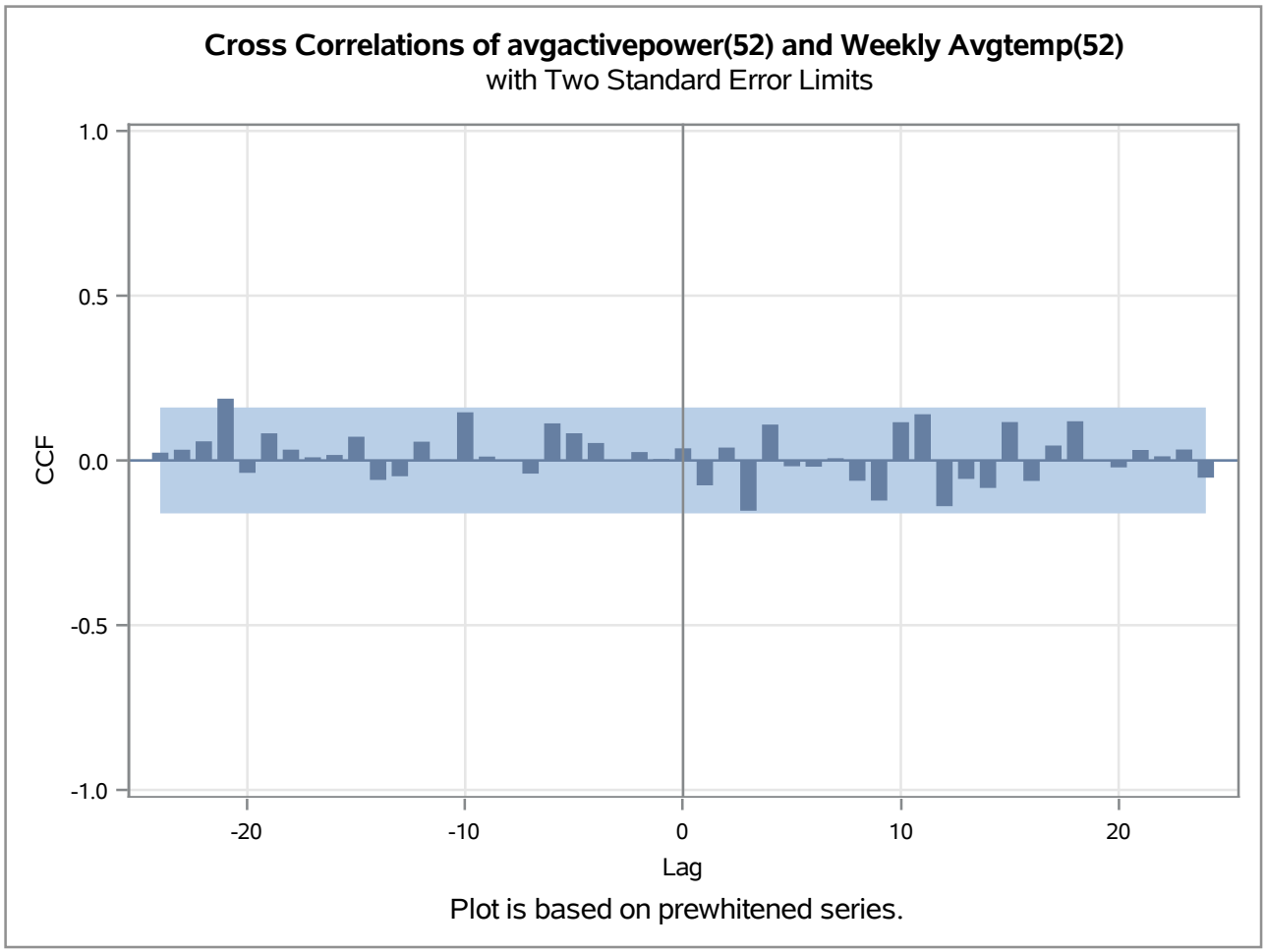
Both variables have been prewhitened by the following filter:

Prewhitening Filter

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

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



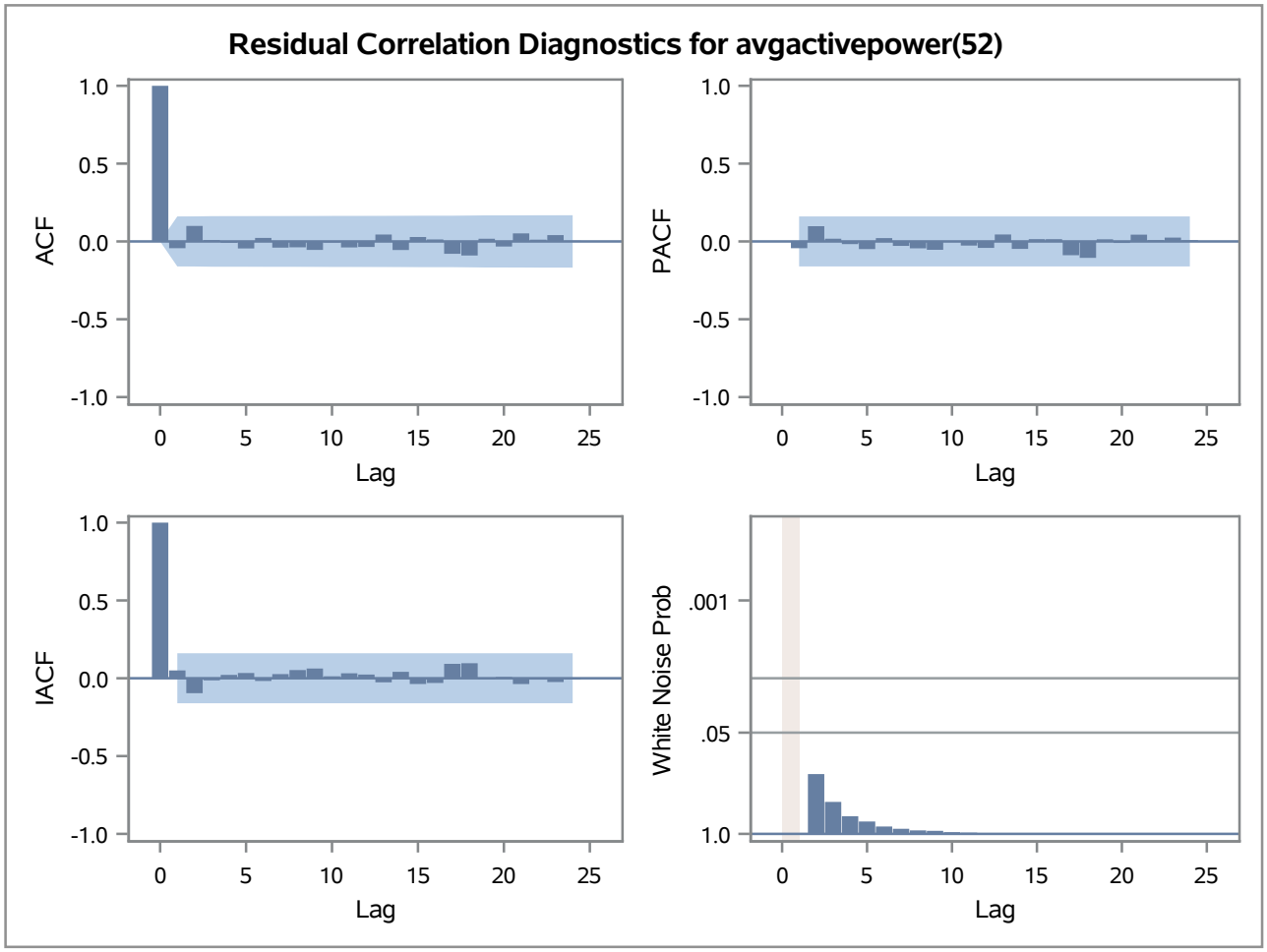


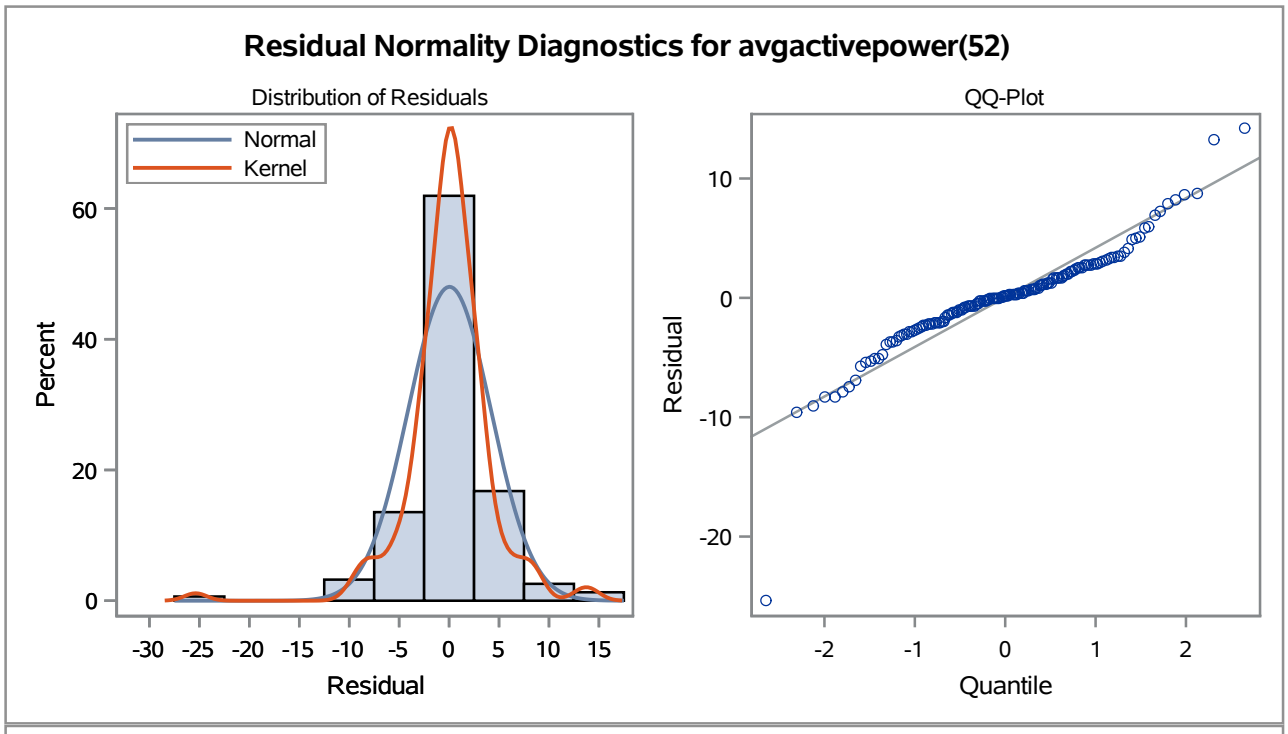
Maximum Likelihood Estimation							
Parameter	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**	**Lag**	**Variable**	**Shift**
MU	-0.39643	0.44043	-0.90	0.3681	0	avgactivepower	0
MA1,1	-0.29909	0.07887	-3.79	0.0001	1	avgactivepower	0
NUM1	0.01744	0.06360	0.27	0.7839	0	Weekly Avgtemp	0

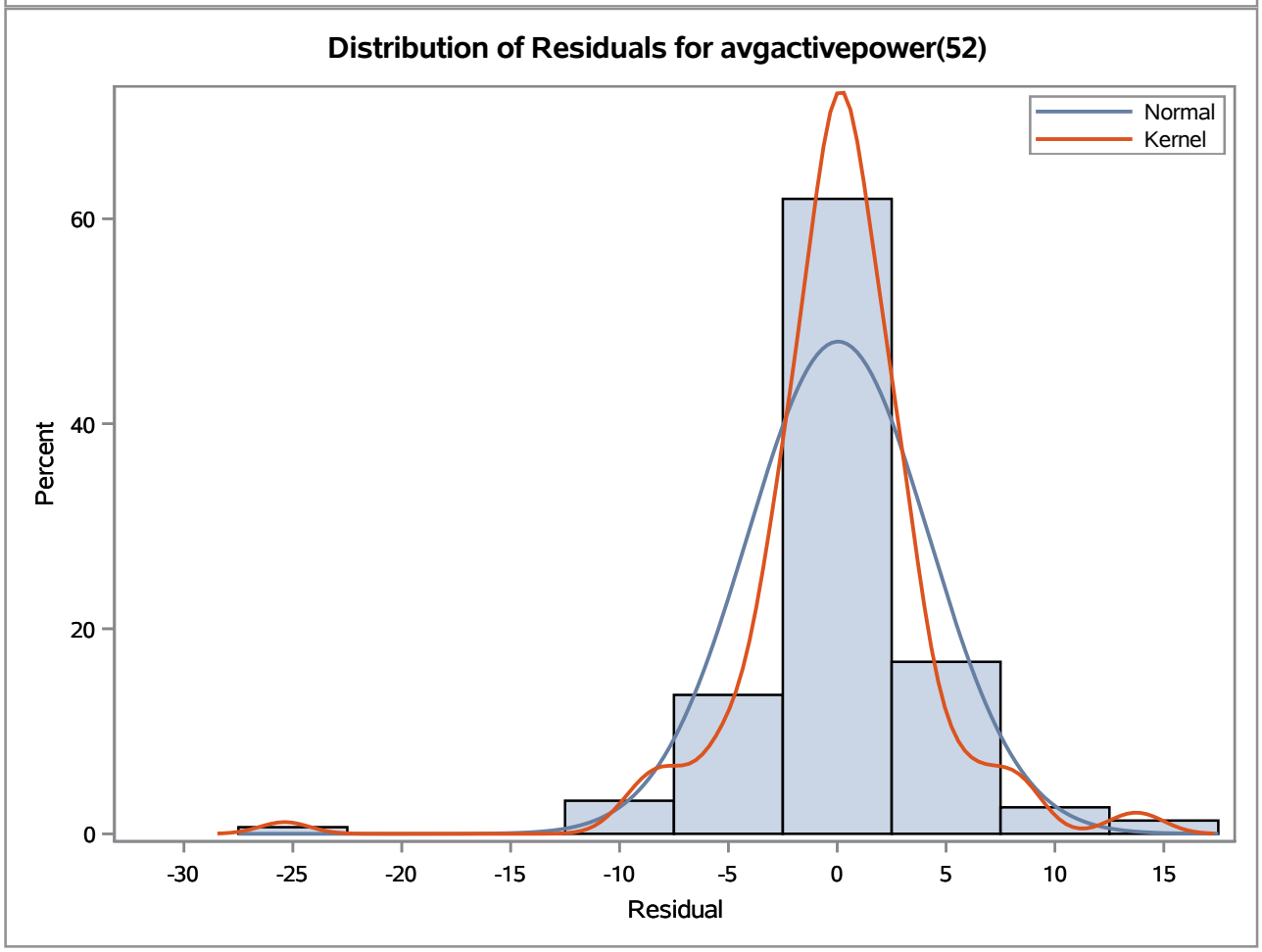
Constant Estimate	-0.39643
Variance Estimate	17.48548
Std Error Estimate	4.181565
AIC	886.4477
SBC	895.578
Number of Residuals	155

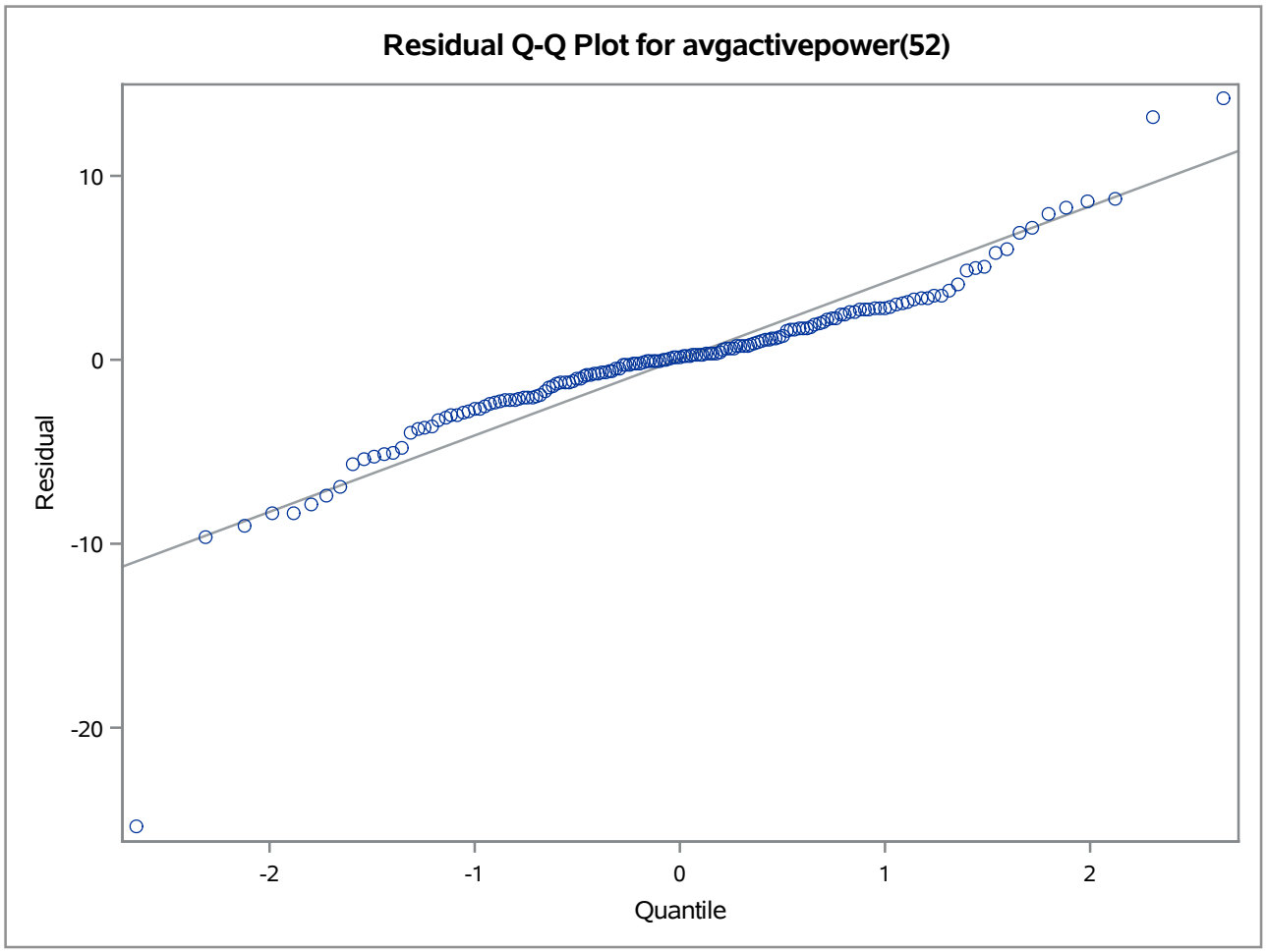
Correlations of Parameter Estimates			
Variable Parameter	avgactivepower MU	avgactivepower MA1,1	Weekly Avgtemp NUM1
avgactivepower MU	1.000	0.003	0.148
avgactivepower MA1,1	0.003	1.000	-0.006
Weekly Avgtemp NUM1	0.148	-0.006	1.000

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	2.32	5	0.8034	-0.043	0.100	0.010	-0.008	-0.044	0.023
12	3.74	11	0.9769	-0.039	-0.037	-0.054	-0.006	-0.038	-0.035
18	7.29	17	0.9794	0.045	-0.054	0.029	0.014	-0.079	-0.090
24	8.37	23	0.9977	0.018	-0.032	0.052	0.012	0.041	0.005
30	12.86	29	0.9958	0.032	0.033	-0.141	0.016	-0.036	0.008




Residual Normality Diagnostics for avgactivepower(52)
Distribution of Residuals
Normal
Kernel
Percent
Residual
QQ-Plot
Residual
Quantile


Distribution of Residuals for avgactivepower(52)
Normal
Kernel
Percent
Residual



Crosscorrelation Check of Residuals with Input Weekly Avgtemp									
To Lag	Chi-Square	DF	Pr > ChiSq	Crosscorrelations					
5	5.53	6	0.4774	0.018	-0.075	0.021	-0.156	0.071	-0.001
11	15.01	12	0.2410	-0.022	0.003	-0.064	-0.144	0.083	0.170
17	21.65	18	0.2479	-0.104	-0.087	-0.109	0.096	-0.046	0.036
23	25.32	24	0.3884	0.138	0.038	-0.010	0.030	0.021	0.042
29	28.35	30	0.5518	-0.040	0.015	0.045	0.031	0.059	-0.106

Model for variable avgactivepower	
Estimated Intercept	-0.39643
Period(s) of Differencing	52

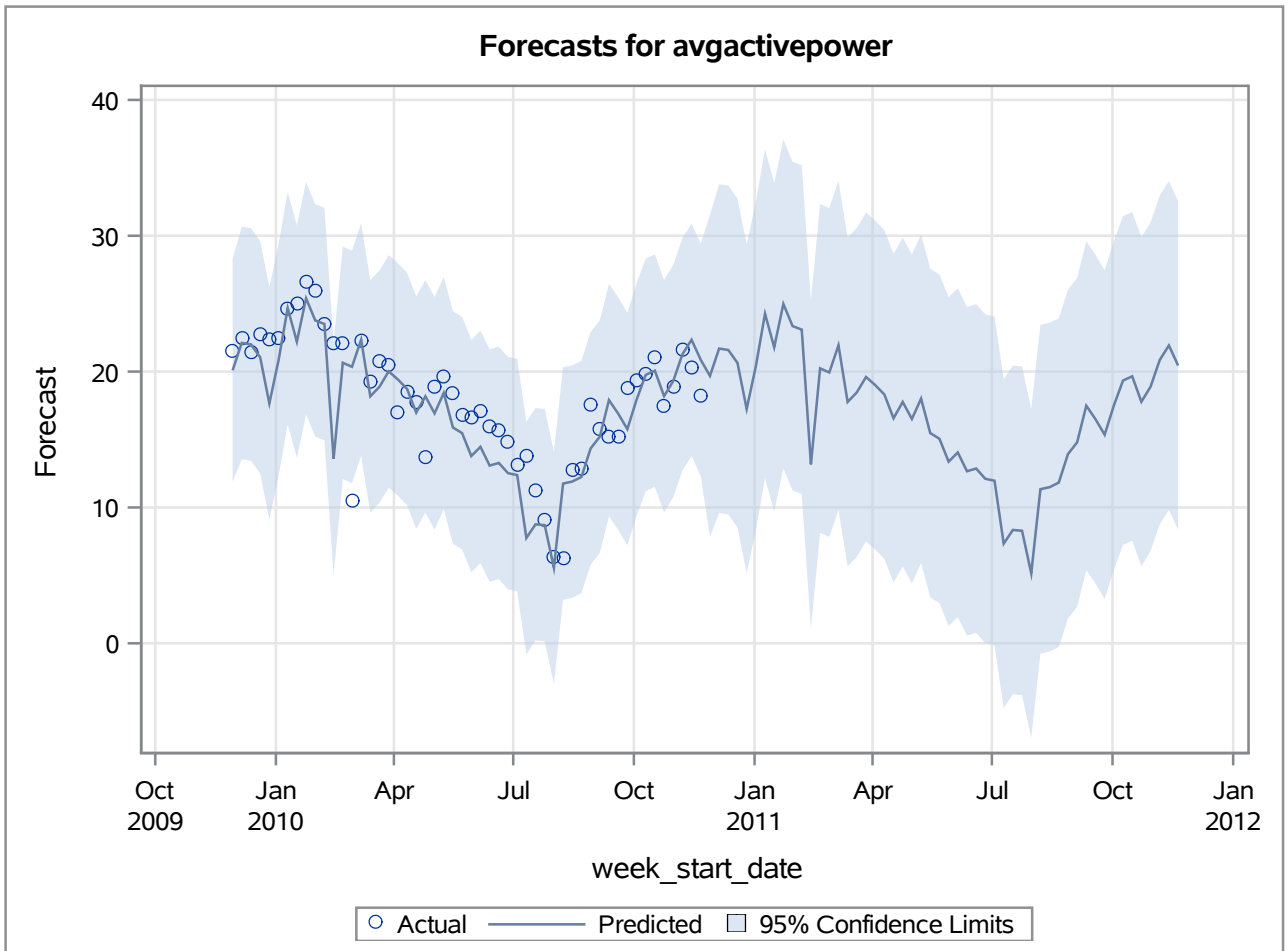
Moving Average Factors	
Factor 1:	1 + 0.29909 B**(1)

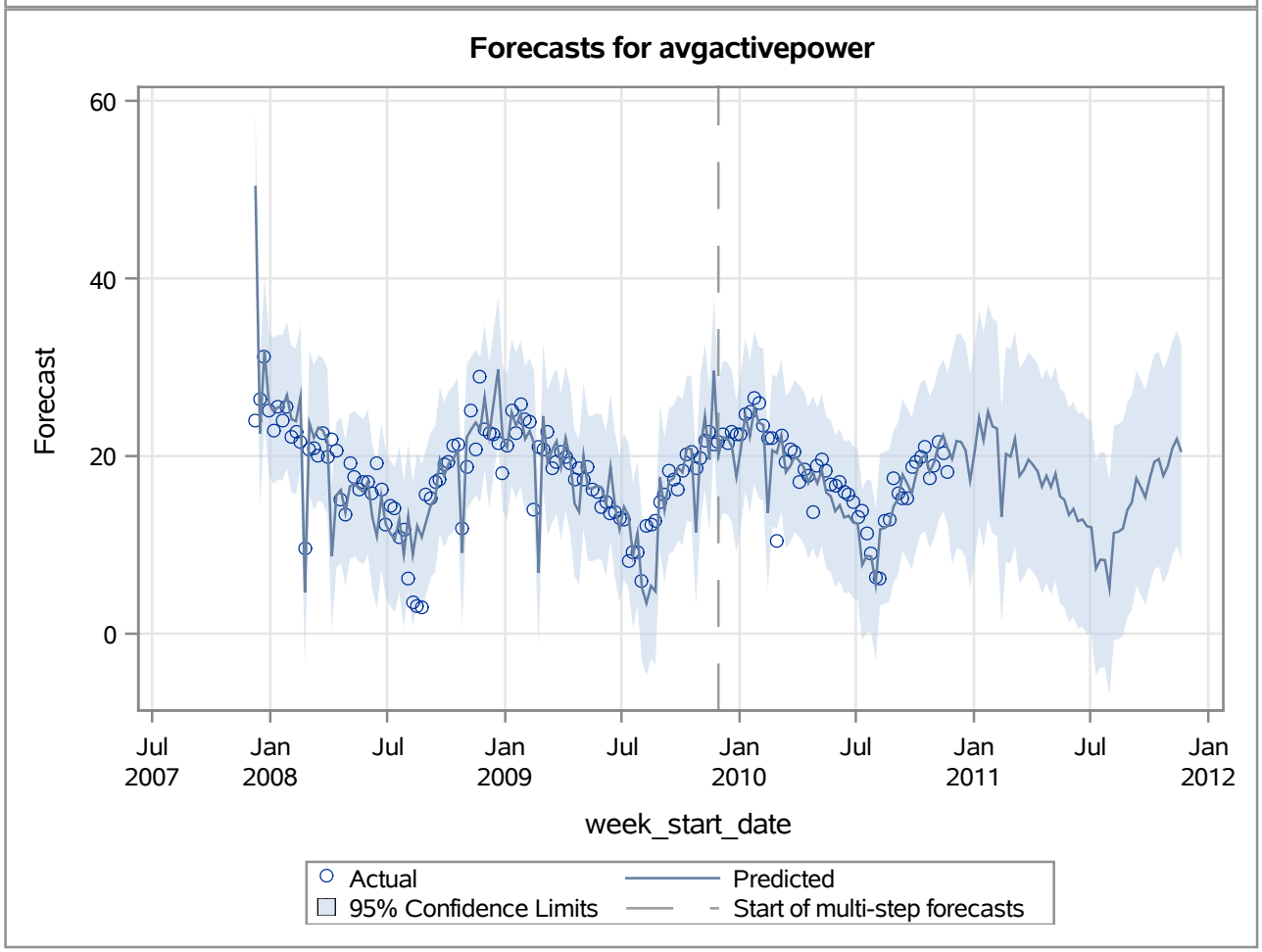
Input Number 1	
Input Variable	Weekly Avgtemp
Period(s) of Differencing	52
Overall Regression Factor	0.017442

Forecasts for variable avgactivepower						
Obs	Forecast	Std Error	95% Confidence Limits		Actual	Residual
156	20.0994	4.1825	11.9018	28.2970	21.5624	1.4630
157	22.1119	4.3658	13.5551	30.6687	22.4669	0.3550
158	22.0027	4.3658	13.4458	30.5595	21.3871	-0.6156
159	21.0546	4.3658	12.4977	29.6114	22.7175	1.6629
160	17.6626	4.3658	9.1058	26.2195	22.3792	4.7166
161	20.8140	4.3658	12.2571	29.3708	22.4671	1.6531
162	24.6748	4.3658	16.1179	33.2316	24.6369	-0.0379
163	22.2047	4.3658	13.6478	30.7615	24.9857	2.7811
164	25.3963	4.3658	16.8395	33.9532	26.5780	1.1816
165	23.7656	4.3658	15.2087	32.3224	25.9285	2.1629
166	23.5054	4.3658	14.9486	32.0623	23.4609	-0.0445
167	13.5859	4.3658	5.0290	22.1427	22.0501	8.4643
168	20.6529	4.3658	12.0960	29.2097	22.0822	1.4294
169	20.3511	4.3658	11.7943	28.9080	10.4571	-9.8940
170	22.3476	4.3658	13.7908	30.9045	22.3079	-0.0397
171	18.1798	4.3658	9.6230	26.7367	19.2894	1.1096
172	18.8843	4.3658	10.3274	27.4411	20.7536	1.8693
173	20.0178	4.3658	11.4609	28.5746	20.4903	0.4725
174	19.4234	4.3658	10.8666	27.9803	17.0384	-2.3850
175	18.7307	4.3658	10.1739	27.2876	18.5324	-0.1984
176	16.9821	4.3658	8.4252	25.5389	17.7879	0.8058
177	18.1796	4.3658	9.6227	26.7364	13.7017	-4.4779
178	16.9287	4.3658	8.3719	25.4856	18.8462	1.9174
179	18.4243	4.3658	9.8674	26.9811	19.6127	1.1884
180	15.8861	4.3658	7.3293	24.4430	18.3873	2.5011
181	15.4722	4.3658	6.9154	24.0291	16.8431	1.3709
182	13.7864	4.3658	5.2296	22.3433	16.6673	2.8809
183	14.4616	4.3658	5.9047	23.0184	17.0562	2.5946
184	13.0823	4.3658	4.5255	21.6392	15.9738	2.8915
185	13.2776	4.3658	4.7207	21.8344	15.6629	2.3854
186	12.5245	4.3658	3.9676	21.0813	14.8374	2.3129
187	12.3828	4.3658	3.8260	20.9397	13.1340	0.7511
188	7.7492	4.3658	-0.8077	16.3060	13.8147	6.0655
189	8.7584	4.3658	0.2015	17.3152	11.2359	2.4775
190	8.6983	4.3658	0.1415	17.2552	9.0684	0.3700
191	5.5642	4.3658	-2.9927	14.1210	6.3648	0.8006

Forecasts for variable avgactivepower						
Obs	Forecast	Std Error	95% Confidence Limits		Actual	Residual
192	11.7603	4.3658	3.2035	20.3172	6.2311	-5.5293
193	11.9054	4.3658	3.3485	20.4622	12.7310	0.8257
194	12.2438	4.3658	3.6869	20.8006	12.8774	0.6337
195	14.3450	4.3658	5.7882	22.9019	17.5338	3.1888
196	15.2079	4.3658	6.6511	23.7648	15.7601	0.5522
197	17.9044	4.3658	9.3476	26.4613	15.1959	-2.7085
198	16.9132	4.3658	8.3563	25.4700	15.2247	-1.6885
199	15.7686	4.3658	7.2118	24.3255	18.8281	3.0594
200	17.9198	4.3658	9.3630	26.4767	19.3600	1.4402
201	19.7578	4.3658	11.2010	28.3147	19.8521	0.0942
202	20.0700	4.3658	11.5132	28.6269	21.0525	0.9824
203	18.1949	4.3658	9.6381	26.7518	17.4959	-0.6990
204	19.3009	4.3658	10.7440	27.8577	18.9164	-0.3845
205	21.2738	4.3658	12.7169	29.8306	21.6627	0.3889
206	22.3399	4.3658	13.7830	30.8967	20.3325	-2.0074
207	20.8646	4.3658	12.3077	29.4214	18.1880	-2.6766
208	19.6848	6.0460	7.8348	31.5347	.	.
209	21.6972	6.1742	9.5960	33.7984	.	.
210	21.5880	6.1742	9.4868	33.6892	.	.
211	20.6399	6.1742	8.5387	32.7411	.	.
212	17.2480	6.1742	5.1468	29.3492	.	.
213	20.3993	6.1742	8.2981	32.5005	.	.
214	24.2601	6.1742	12.1589	36.3613	.	.
215	21.7900	6.1742	9.6888	33.8912	.	.
216	24.9816	6.1742	12.8804	37.0829	.	.
217	23.3509	6.1742	11.2497	35.4521	.	.
218	23.0907	6.1742	10.9895	35.1919	.	.
219	13.1712	6.1742	1.0700	25.2724	.	.
220	20.2382	6.1742	8.1370	32.3394	.	.
221	19.9364	6.1742	7.8352	32.0377	.	.
222	21.9330	6.1742	9.8318	34.0342	.	.
223	17.7652	6.1742	5.6640	29.8664	.	.
224	18.4696	6.1742	6.3684	30.5708	.	.
225	19.6031	6.1742	7.5019	31.7043	.	.
226	19.0087	6.1742	6.9075	31.1099	.	.
227	18.3160	6.1742	6.2148	30.4173	.	.

Forecasts for variable avgactivepower						
Obs	Forecast	Std Error	95% Confidence Limits		Actual	Residual
228	16.5674	6.1742	4.4662	28.6686	.	.
229	17.7649	6.1742	5.6637	29.8661	.	.
230	16.5141	6.1742	4.4128	28.6153	.	.
231	18.0096	6.1742	5.9084	30.1108	.	.
232	15.4715	6.1742	3.3703	27.5727	.	.
233	15.0576	6.1742	2.9563	27.1588	.	.
234	13.3718	6.1742	1.2706	25.4730	.	.
235	14.0469	6.1742	1.9457	26.1481	.	.
236	12.6677	6.1742	0.5665	24.7689	.	.
237	12.8629	6.1742	0.7617	24.9641	.	.
238	12.1098	6.1742	0.0086	24.2110	.	.
239	11.9682	6.1742	-0.1330	24.0694	.	.
240	7.3345	6.1742	-4.7667	19.4357	.	.
241	8.3437	6.1742	-3.7575	20.4449	.	.
242	8.2837	6.1742	-3.8175	20.3849	.	.
243	5.1495	6.1742	-6.9517	17.2507	.	.
244	11.3456	6.1742	-0.7556	23.4469	.	.
245	11.4907	6.1742	-0.6105	23.5919	.	.
246	11.8291	6.1742	-0.2721	23.9303	.	.
247	13.9303	6.1742	1.8291	26.0315	.	.
248	14.7932	6.1742	2.6920	26.8945	.	.
249	17.4898	6.1742	5.3885	29.5910	.	.
250	16.4985	6.1742	4.3973	28.5997	.	.
251	15.3540	6.1742	3.2528	27.4552	.	.
252	17.5051	6.1742	5.4039	29.6063	.	.
253	19.3432	6.1742	7.2420	31.4444	.	.
254	19.6554	6.1742	7.5542	31.7566	.	.
255	17.7803	6.1742	5.6790	29.8815	.	.
256	18.8862	6.1742	6.7850	30.9874	.	.
257	20.8591	6.1742	8.7579	32.9603	.	.
258	21.9252	6.1742	9.8240	34.0264	.	.
259	20.4499	6.1742	8.3487	32.5511	.	.


Forecasts for avgactivepower
Forecast
40
30
20
10
0
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