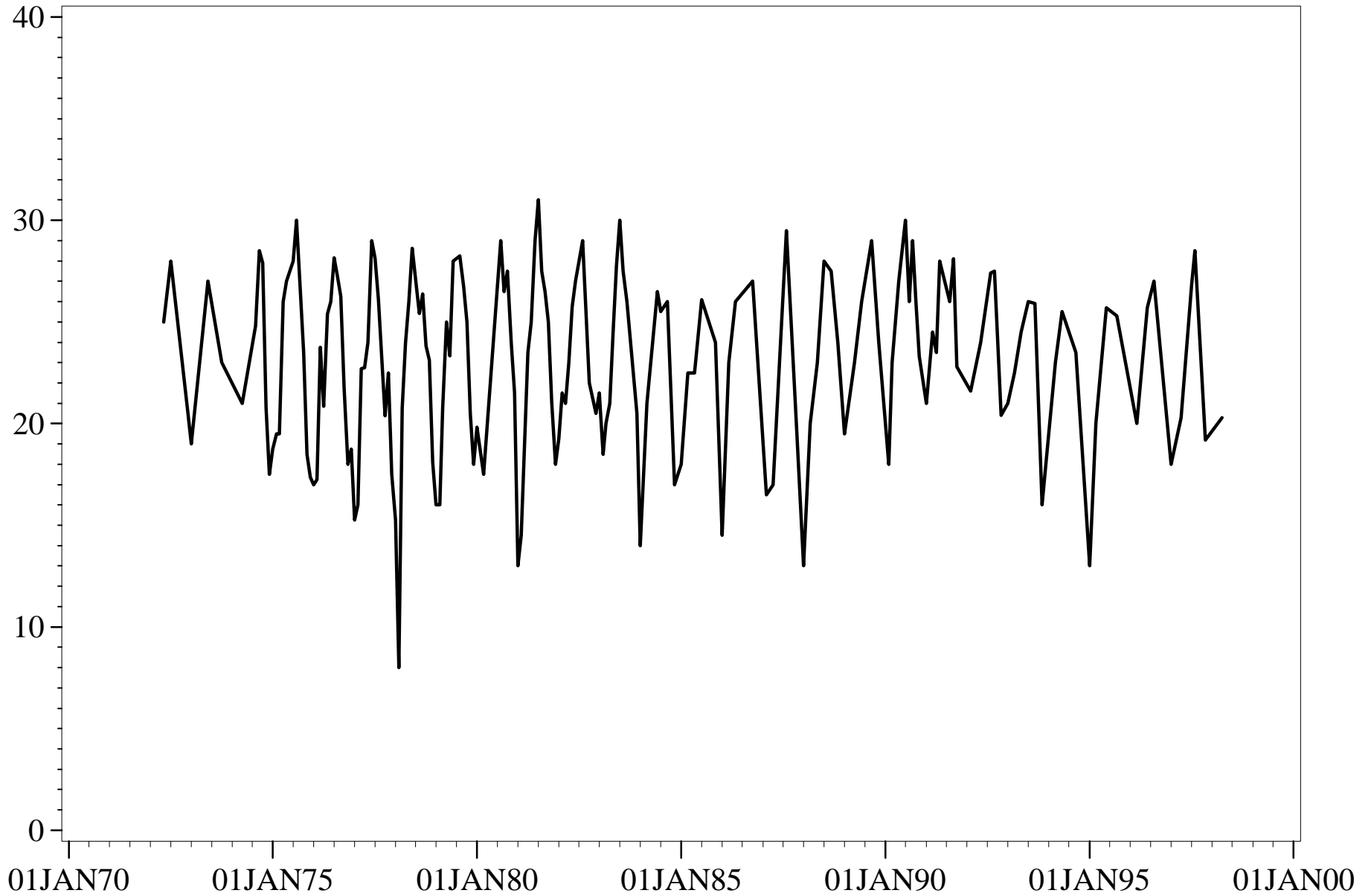


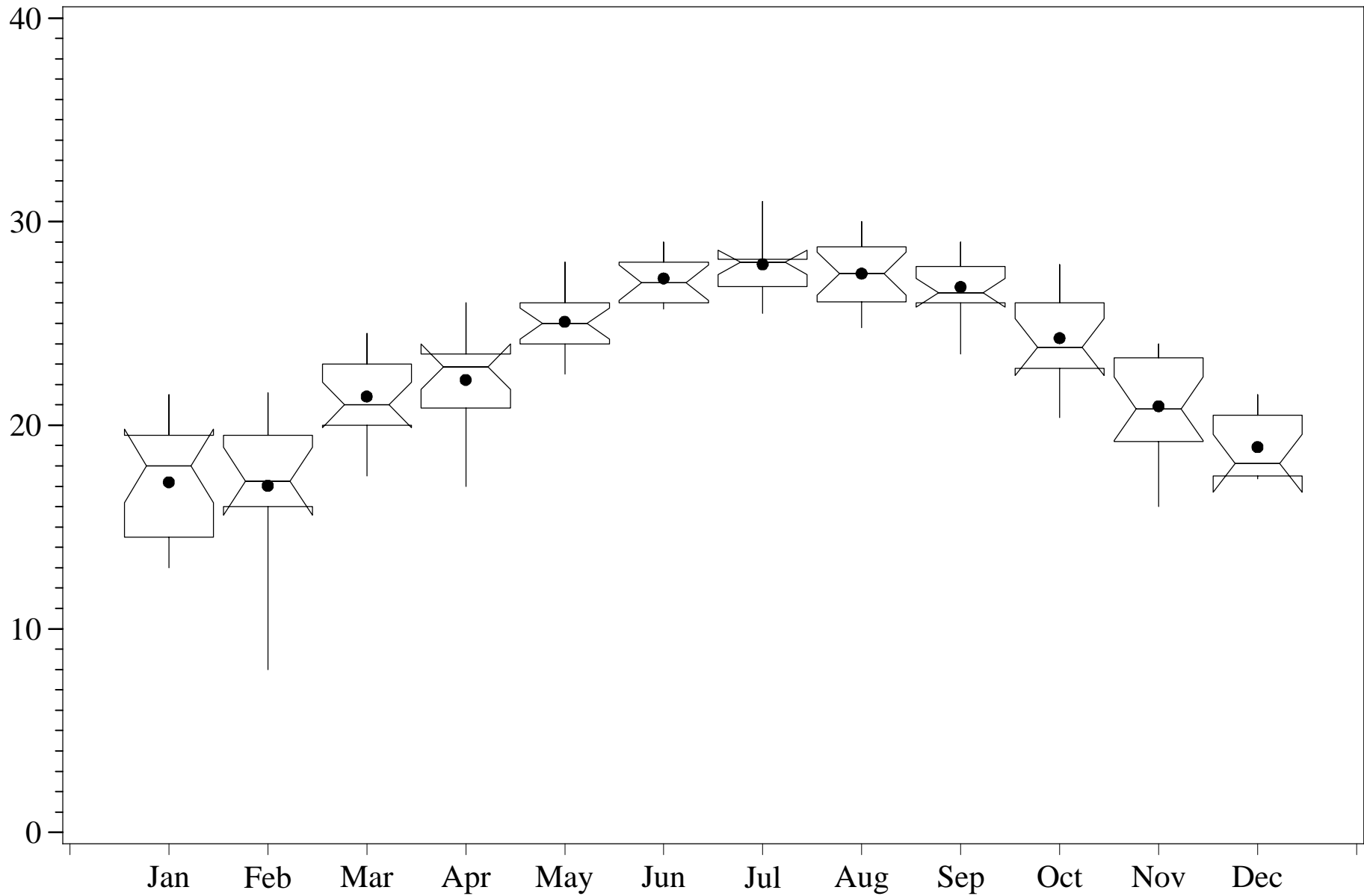
Horse Creek Trends Appendix - Display 1
Monthly Data Time Series
for Surface Temperature at FDEP Station 25020111
Unadjusted for Seasonal Medians

Temperature
(C)



Horse Creek Trends Appendix - Display 2
Seasonal Univariate Statistics
for Surface Temperature at FDEP Station 25020111

Temperature
(C)



Horse Creek Trends Appendix - Display 3

Autocorrelation Statistics for Surface Temperature at FDEP Station 25020111

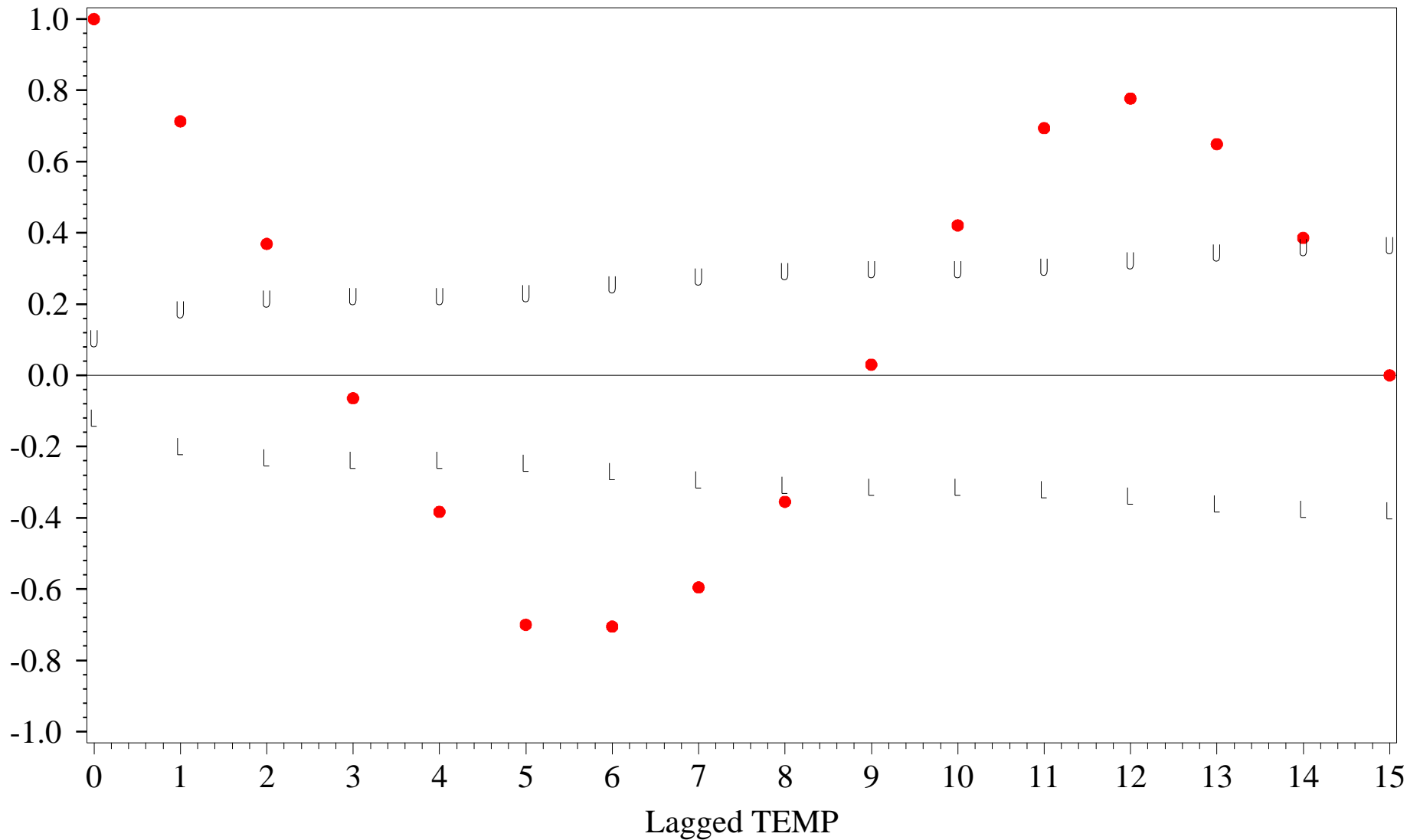
Unadjusted for Seasonal Medians

Lagged TEMP	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.713	0.096	0.192	-0.192
2	0.369	0.111	0.223	-0.223
3	-0.064	0.115	0.230	-0.230
4	-0.383	0.115	0.230	-0.230
5	-0.700	0.119	0.238	-0.238
6	-0.705	0.131	0.262	-0.262
7	-0.595	0.142	0.285	-0.285
8	-0.355	0.150	0.300	-0.300
9	0.030	0.152	0.305	-0.305
10	0.421	0.152	0.305	-0.305
11	0.694	0.156	0.312	-0.312
12	0.777	0.165	0.330	-0.330
13	0.649	0.176	0.352	-0.352
14	0.386	0.183	0.367	-0.367
15	0.000	0.186	0.372	-0.372

Horse Creek Trends Appendix - Display 4
Correlogram for Surface Temperature at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 5

Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.025	0.664	0.696	0

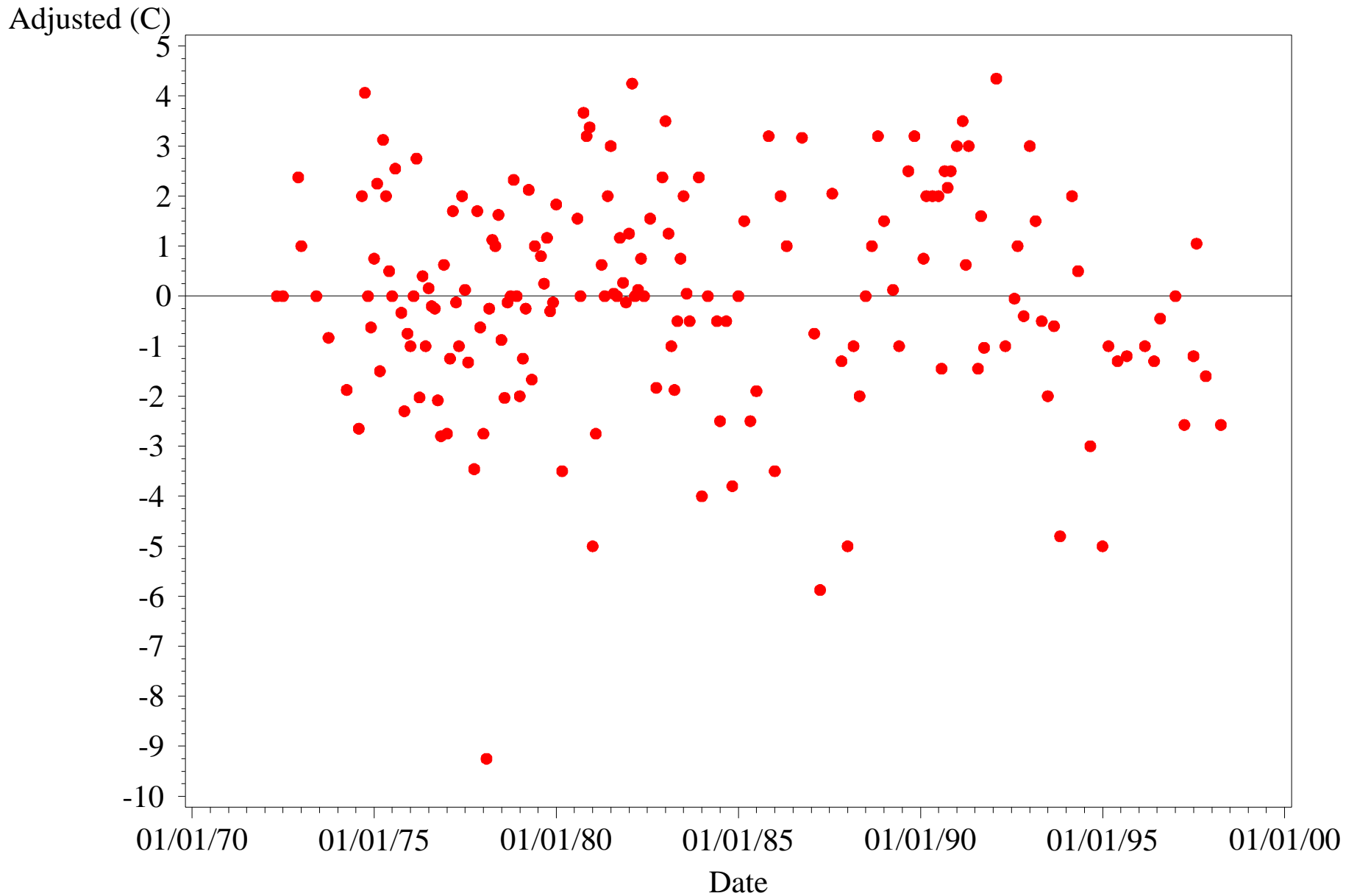
Horse Creek Trends Appendix - Display 6

Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.025177	0.66379	0.69577	0

Horse Creek Trends Appendix - Display 7
Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
at FDEP Station 25020111



Zero Reference Line Shown

Horse Creek Trends Appendix - Display 8

Autocorrelation Statistics for Surface Temperature at FDEP Station 25020111

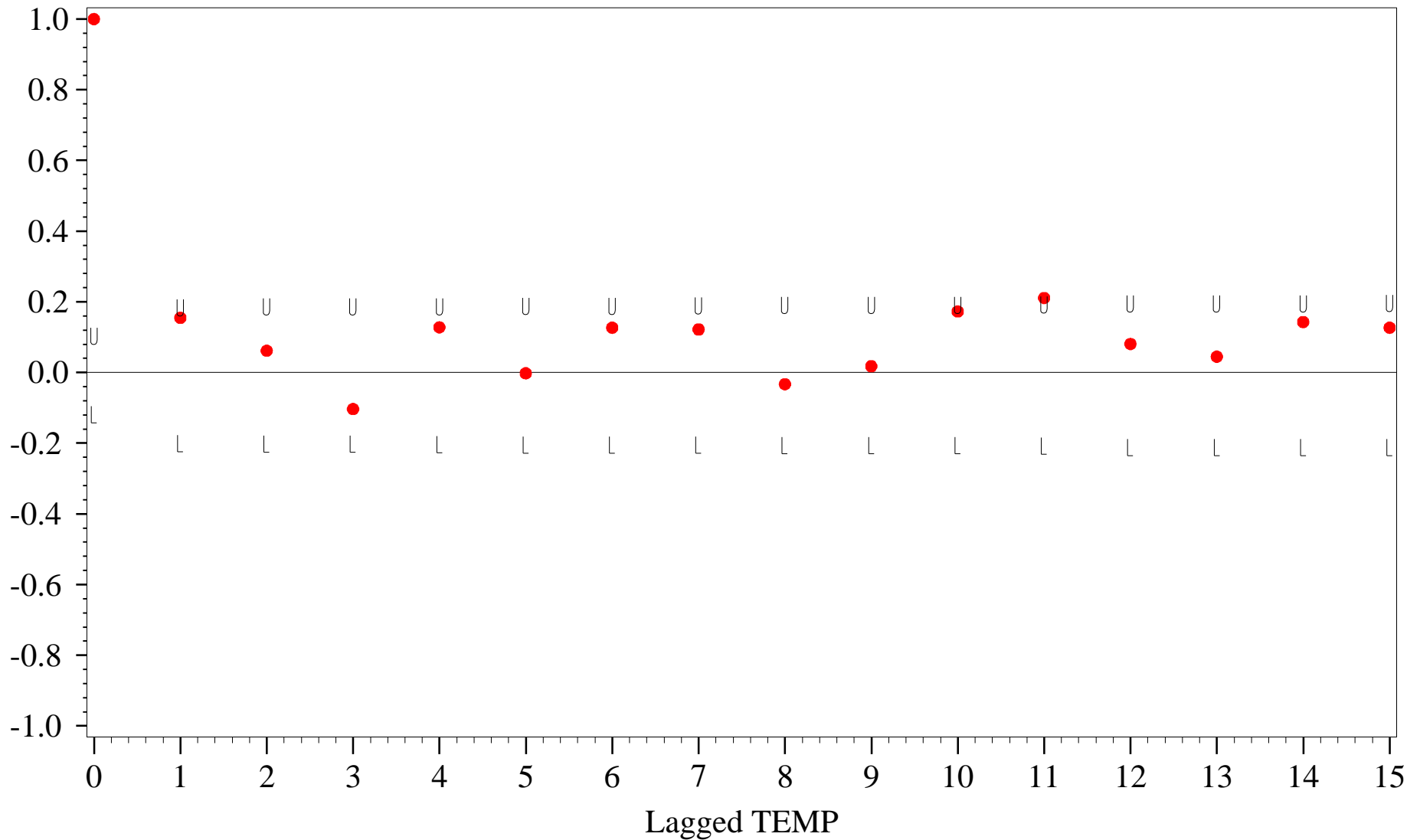
Adjusted for Seasonal Median and Detrended

Lagged TEMP	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.155	0.096	0.192	-0.192
2	0.062	0.097	0.194	-0.194
3	-0.103	0.097	0.194	-0.194
4	0.128	0.097	0.195	-0.195
5	-0.002	0.098	0.196	-0.196
6	0.127	0.098	0.196	-0.196
7	0.122	0.098	0.197	-0.197
8	-0.033	0.099	0.198	-0.198
9	0.018	0.099	0.198	-0.198
10	0.173	0.099	0.198	-0.198
11	0.211	0.100	0.200	-0.200
12	0.081	0.101	0.203	-0.203
13	0.045	0.101	0.203	-0.203
14	0.143	0.102	0.203	-0.203
15	0.127	0.102	0.204	-0.204

Horse Creek Trends Appendix - Display 9
Correlogram for Surface Temperature at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

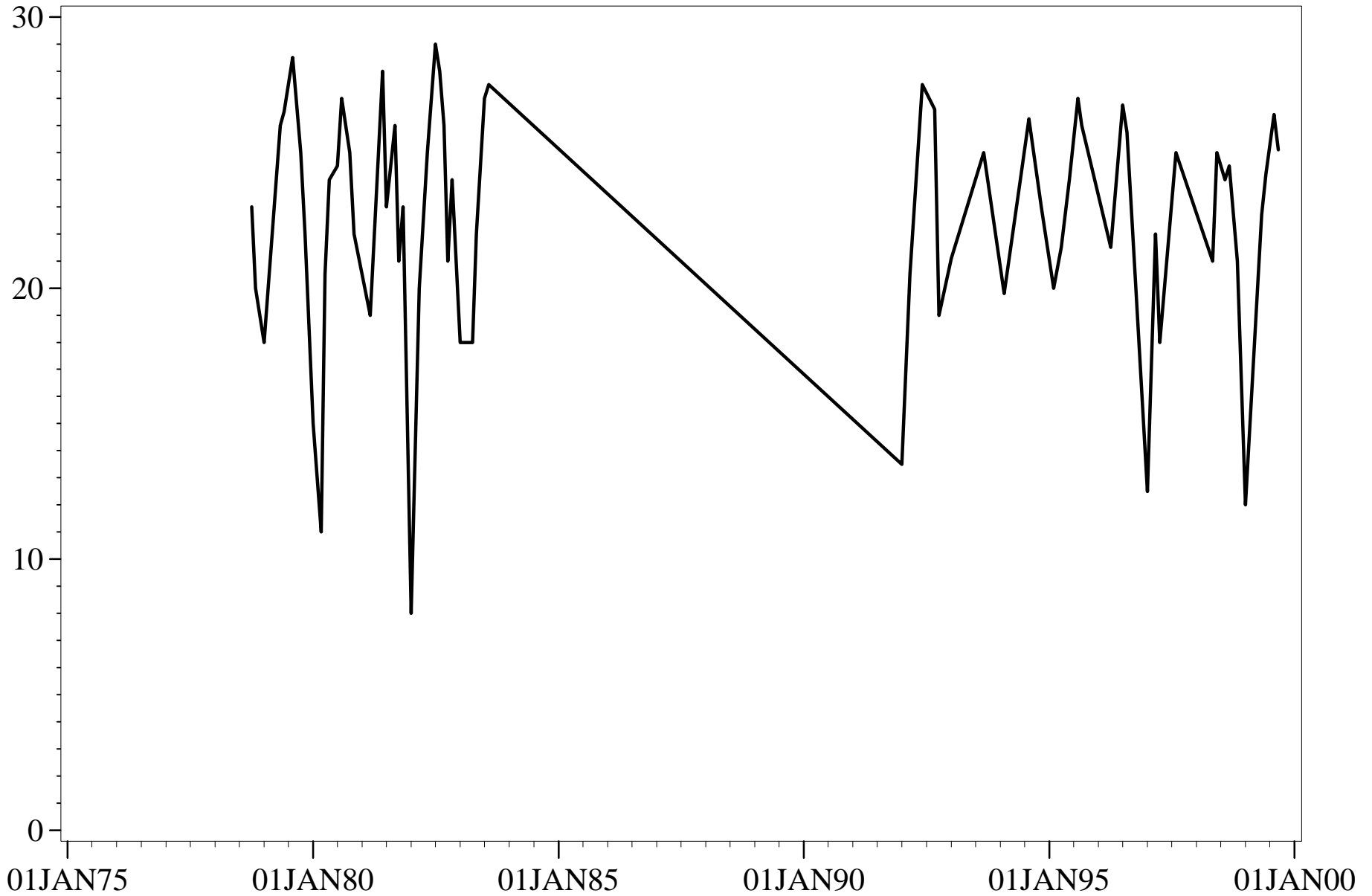
Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

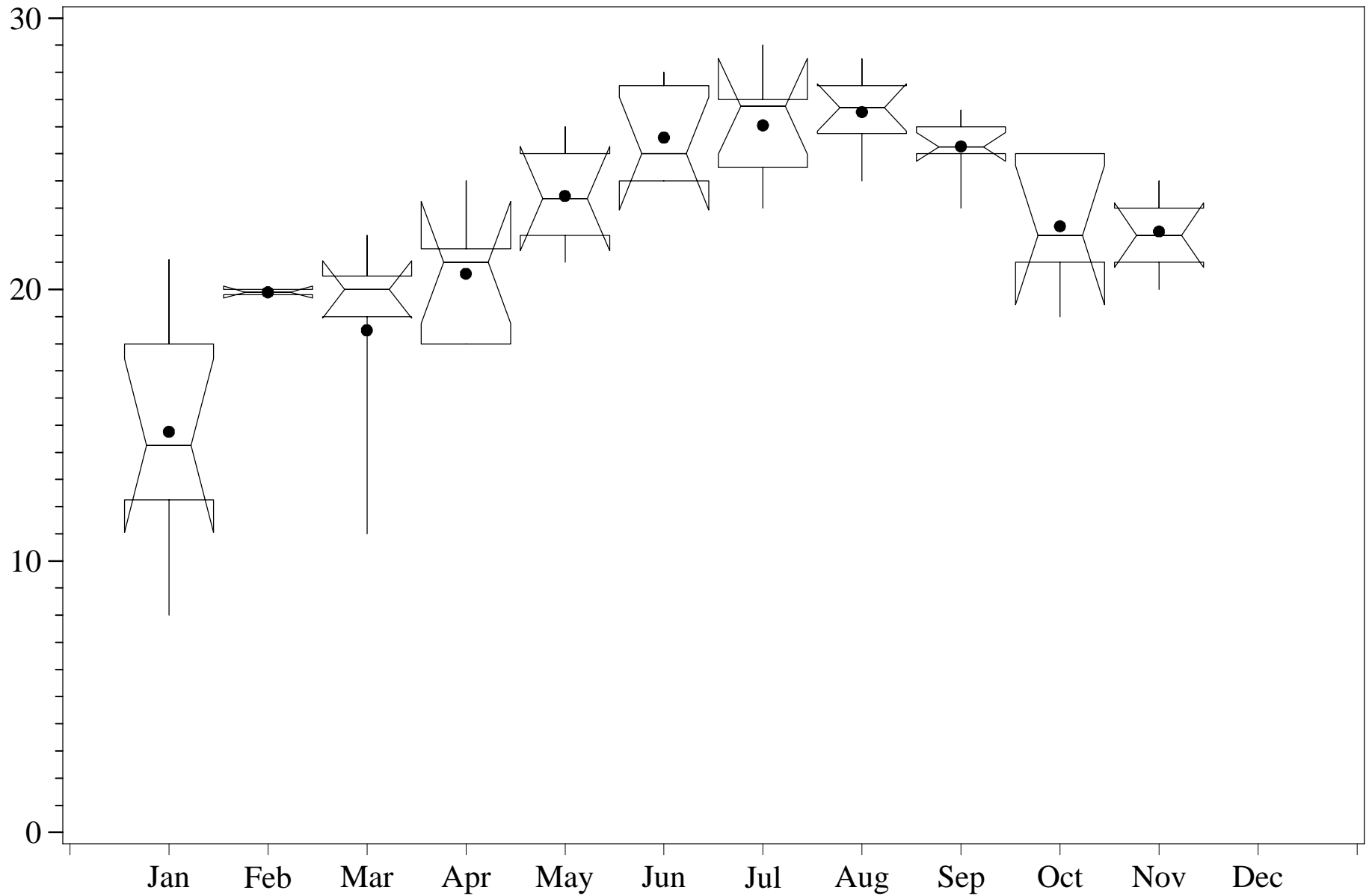
Horse Creek Trends Appendix - Display 10
Monthly Data Time Series
for Surface Temperature at USGS Station 02297155
Unadjusted for Seasonal Medians

Temperature
(C)



Horse Creek Trends Appendix - Display 11
Seasonal Univariate Statistics
for Surface Temperature at USGS Station 02297155

Temperature
(C)



Horse Creek Trends Appendix - Display 12

Autocorrelation Statistics for Surface Temperature at USGS Station 02297155

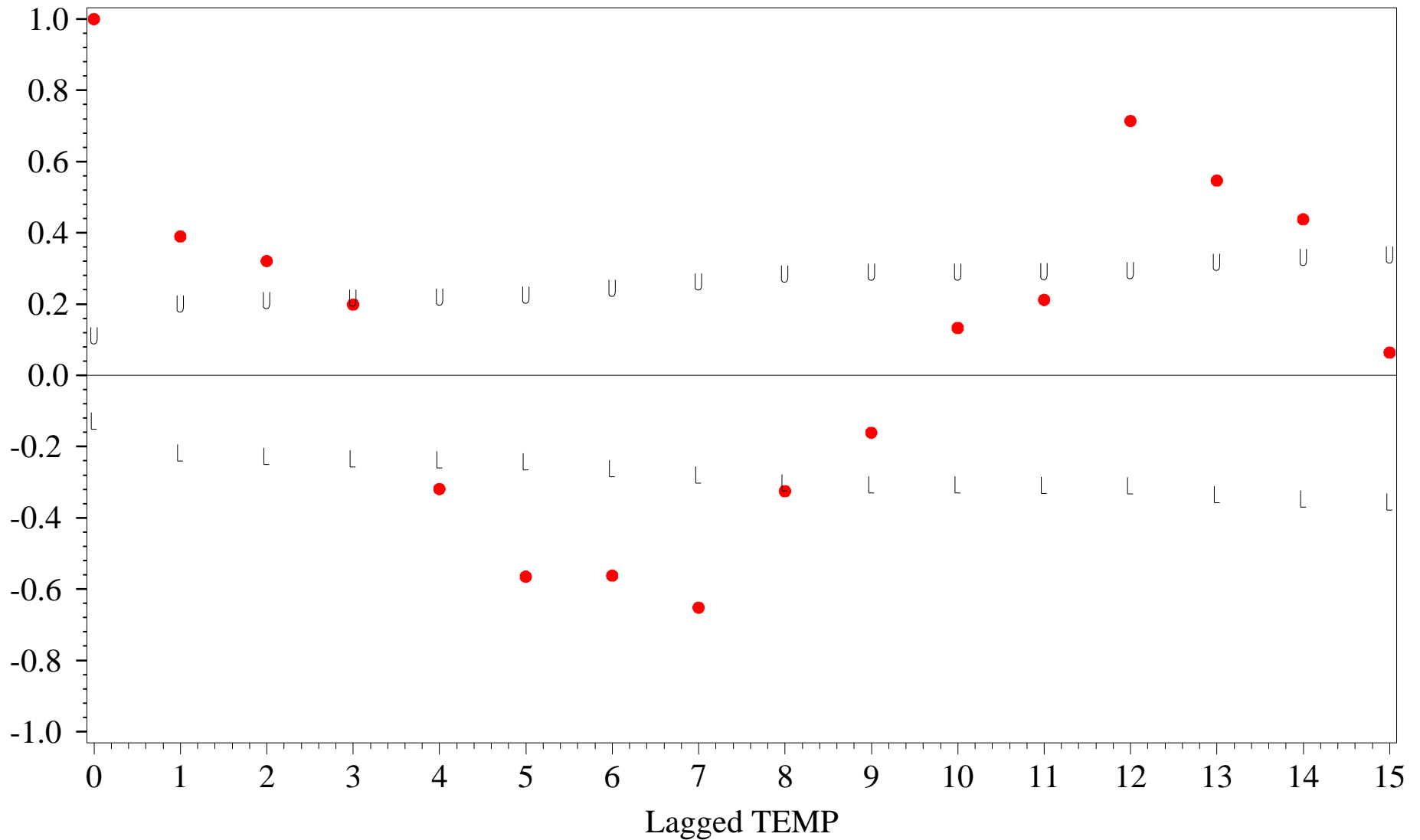
Unadjusted for Seasonal Medians

Lagged TEMP	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.060	0.120	-0.120
1	0.390	0.104	0.209	-0.209
2	0.321	0.109	0.219	-0.219
3	0.199	0.113	0.226	-0.226
4	-0.319	0.114	0.228	-0.228
5	-0.565	0.117	0.234	-0.234
6	-0.562	0.127	0.253	-0.253
7	-0.652	0.135	0.271	-0.271
8	-0.325	0.146	0.293	-0.293
9	-0.161	0.149	0.298	-0.298
10	0.133	0.150	0.299	-0.299
11	0.212	0.150	0.300	-0.300
12	0.714	0.151	0.302	-0.302
13	0.547	0.163	0.326	-0.326
14	0.438	0.169	0.339	-0.339
15	0.064	0.173	0.347	-0.347

Horse Creek Trends Appendix - Display 13
Correlogram for Surface Temperature at USGS Station 02297155

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 14

Seasonal Kendall Tau Trend Test Statistics for Surface Temperature at USGS Station 02297155

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.29	.005	0.029	-0.1

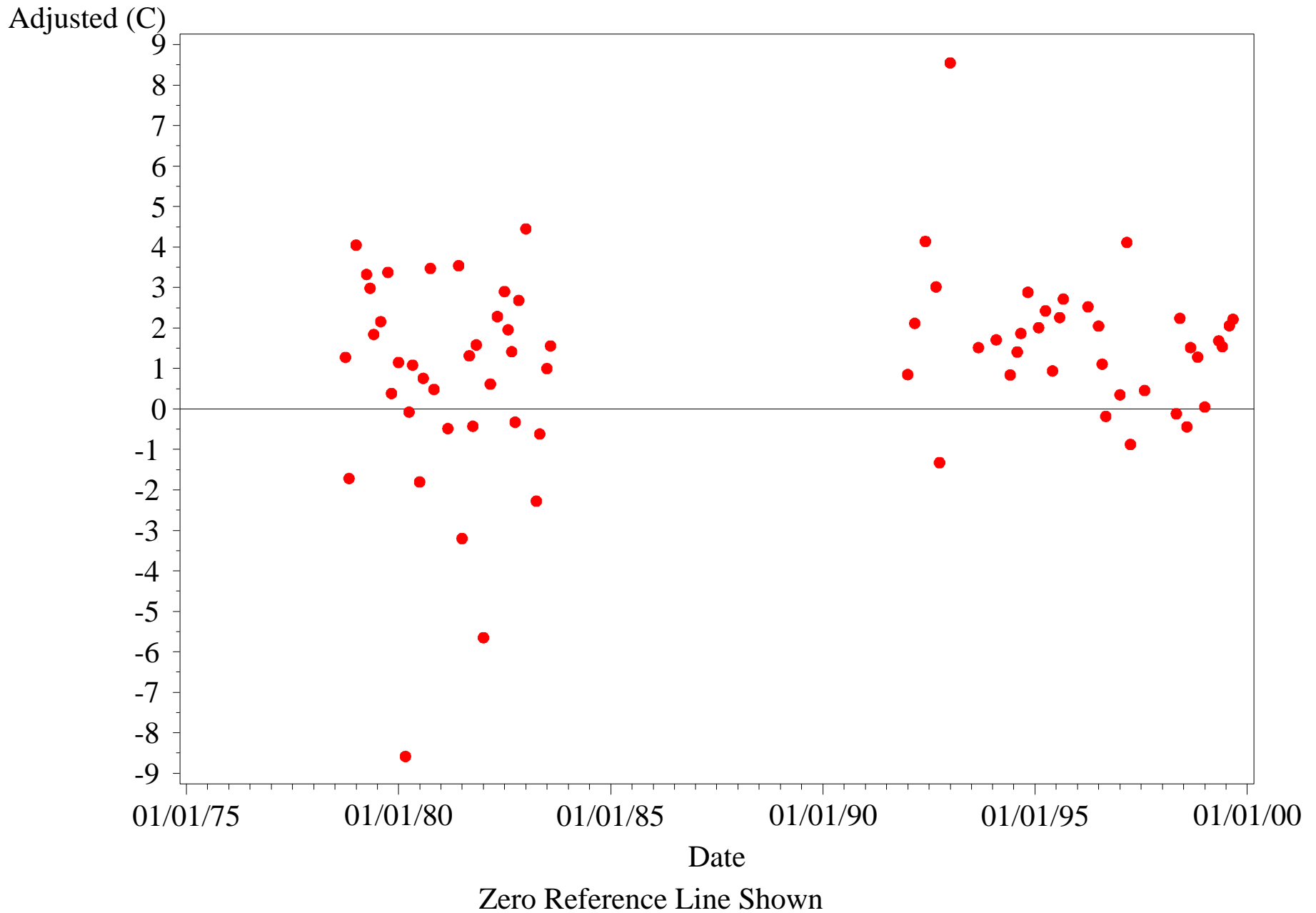
Horse Creek Trends Appendix - Display 15

Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature at USGS Station 02297155

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.29032	.00455652	0.028940	-0.1

Horse Creek Trends Appendix - Display 16
Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
at USGS Station 02297155



Horse Creek Trends Appendix - Display 17

Autocorrelation Statistics for Surface Temperature at USGS Station 02297155

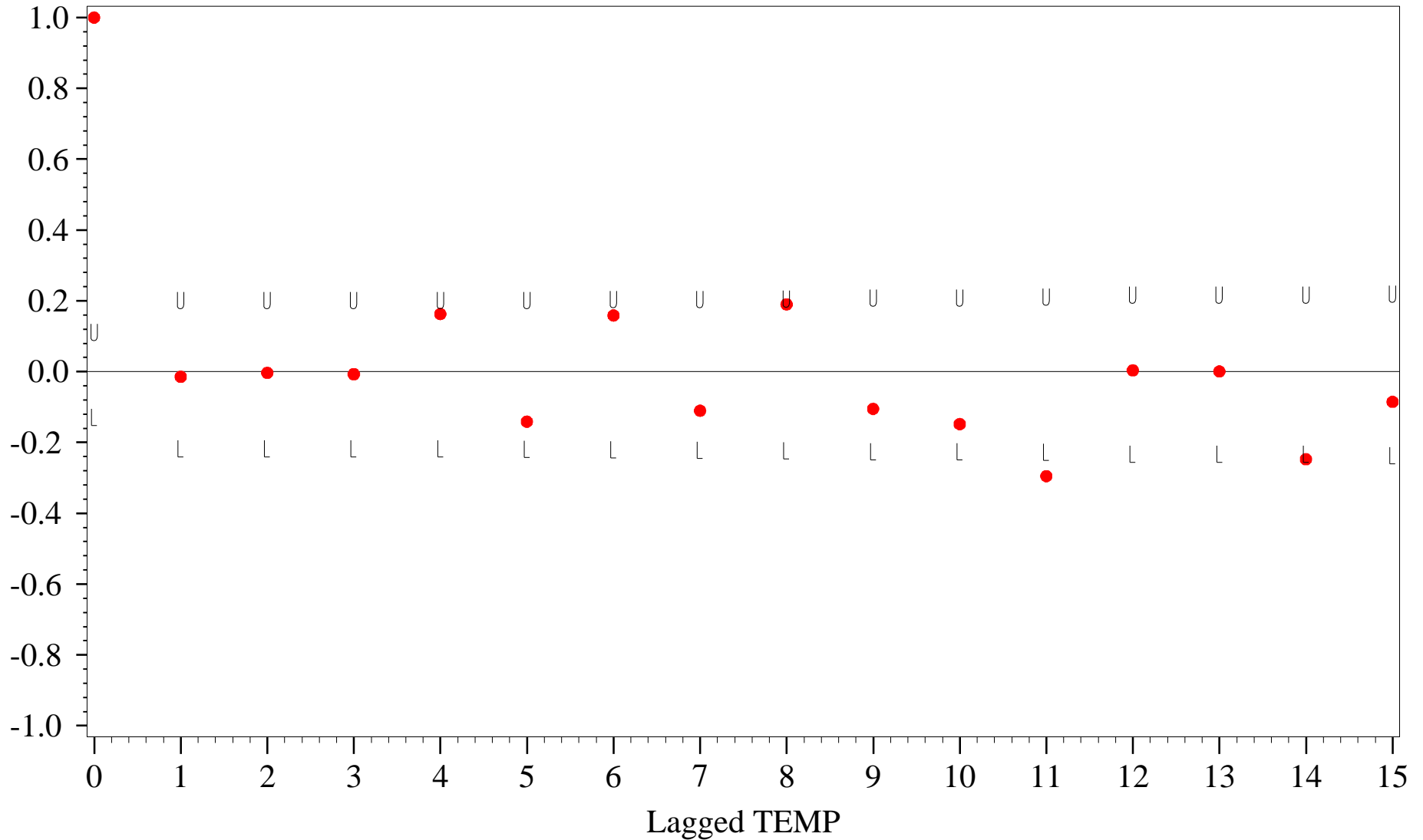
Adjusted for Seasonal Median and Detrended

Lagged TEMP	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.060	0.120	-0.120
1	-0.014	0.104	0.209	-0.209
2	-0.003	0.104	0.209	-0.209
3	-0.007	0.104	0.209	-0.209
4	0.163	0.104	0.209	-0.209
5	-0.141	0.105	0.210	-0.210
6	0.159	0.106	0.212	-0.212
7	-0.110	0.107	0.213	-0.213
8	0.190	0.107	0.214	-0.214
9	-0.105	0.108	0.217	-0.217
10	-0.148	0.109	0.217	-0.217
11	-0.295	0.109	0.219	-0.219
12	0.004	0.112	0.225	-0.225
13	0.001	0.112	0.225	-0.225
14	-0.247	0.112	0.225	-0.225
15	-0.085	0.114	0.228	-0.228

Horse Creek Trends Appendix - Display 18
Correlogram for Surface Temperature at USGS Station 02297155

Adjusted for Seasonal Median and Detrended

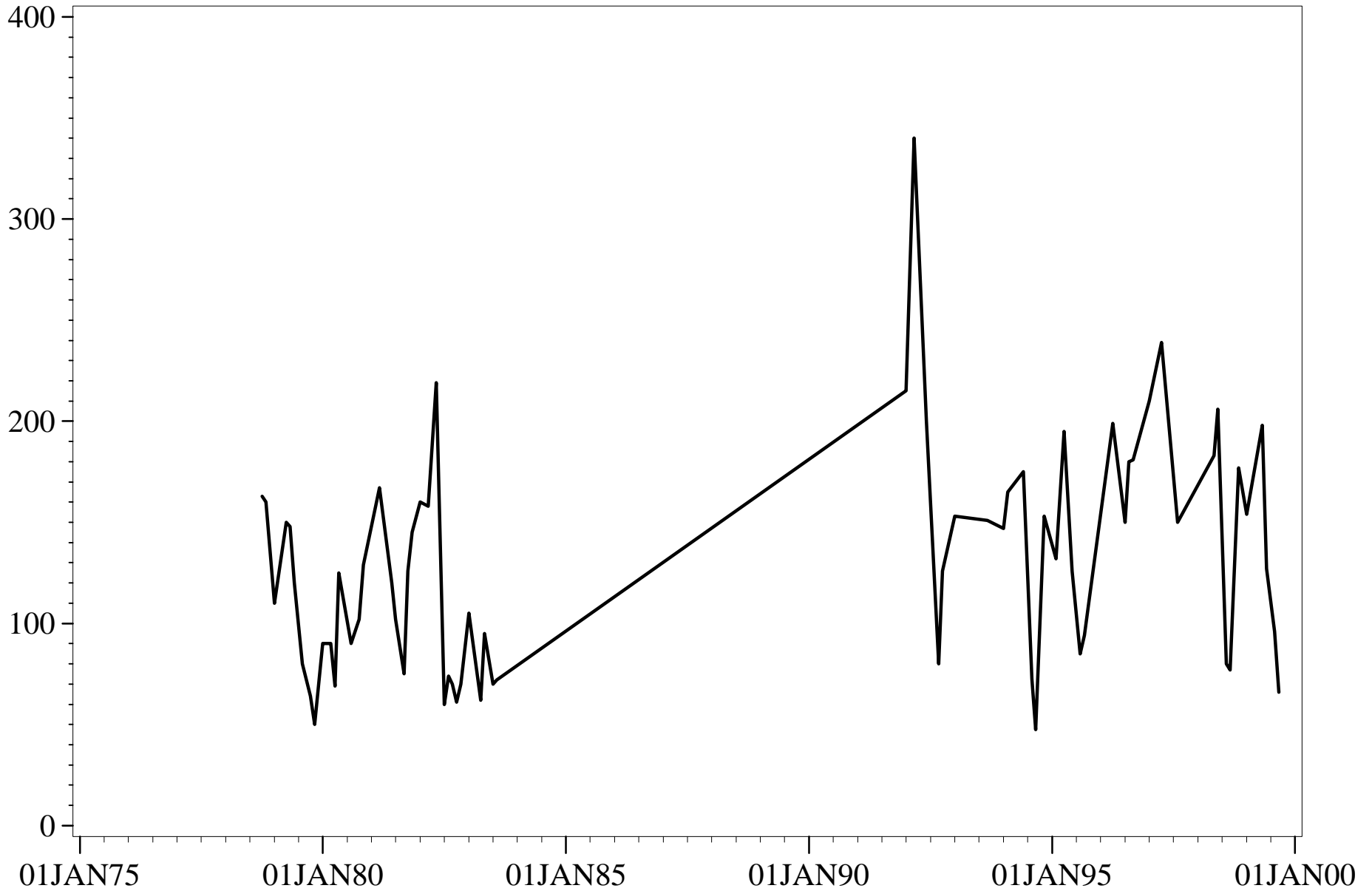
Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

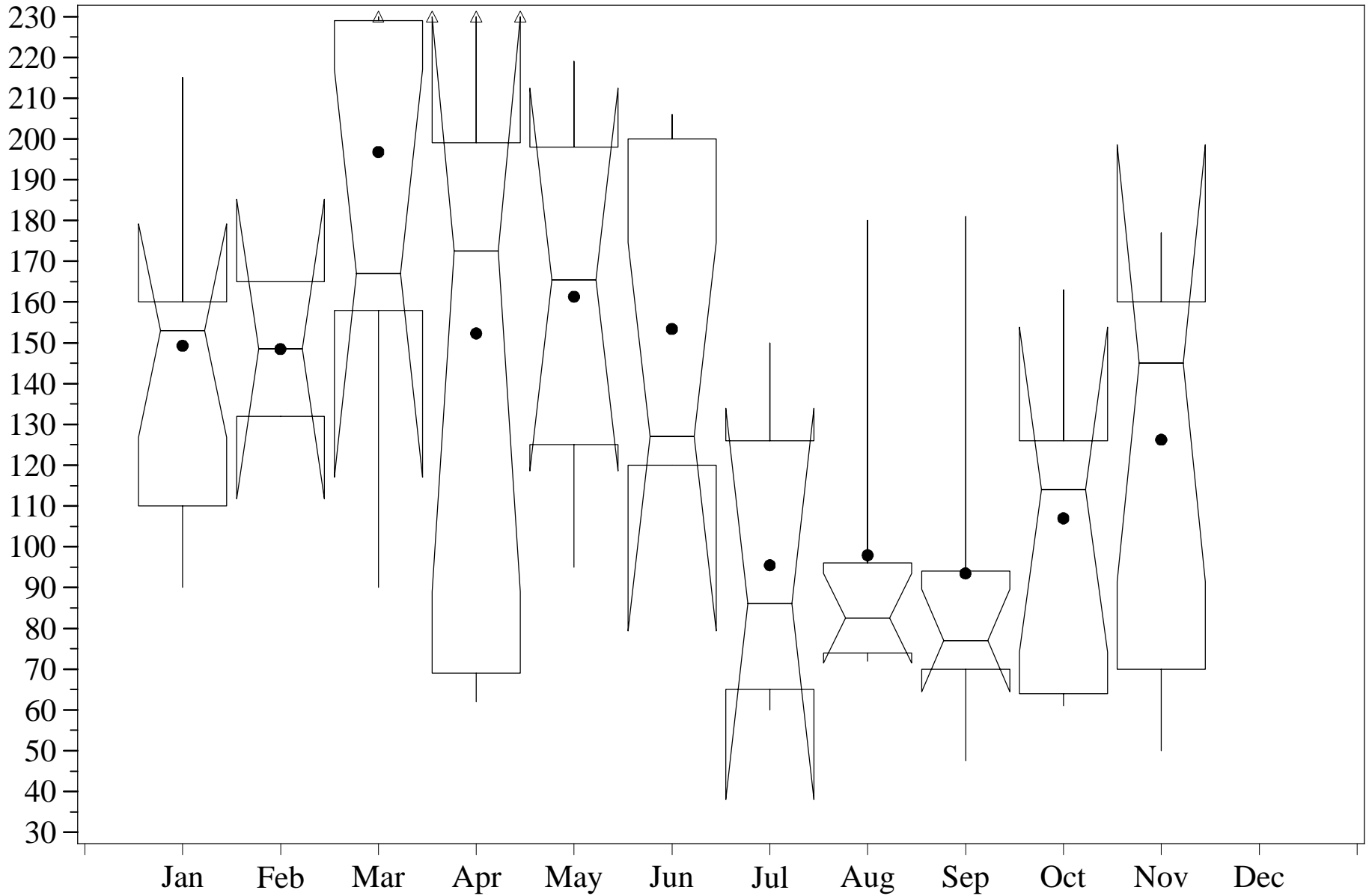
Horse Creek Trends Appendix - Display 19
Monthly Data Time Series
for Surface Conductivity at USGS Station 02297155
Unadjusted for Seasonal Medians

Conductivity
(uS/cm)



Horse Creek Trends Appendix - Display 20
Seasonal Univariate Statistics
for Surface Conductivity at USGS Station 02297155

Conductivity
(uS/cm)



Horse Creek Trends Appendix - Display 21

Autocorrelation Statistics for Surface Conductivity at USGS Station 02297155

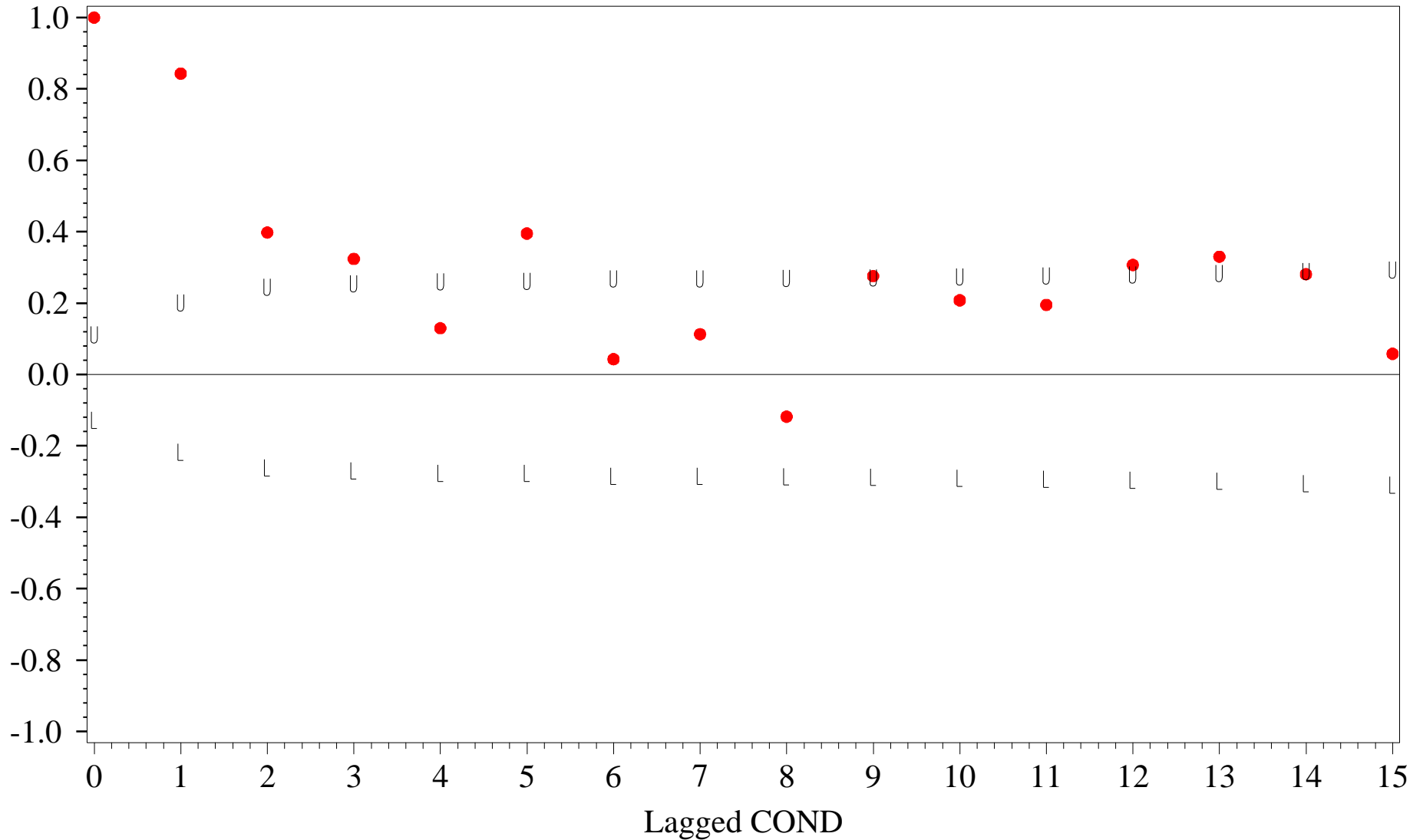
Unadjusted for Seasonal Medians

Lagged COND	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.060	0.120	-0.120
1	0.843	0.104	0.209	-0.209
2	0.398	0.127	0.253	-0.253
3	0.324	0.131	0.262	-0.262
4	0.130	0.134	0.268	-0.268
5	0.395	0.134	0.269	-0.269
6	0.043	0.139	0.277	-0.277
7	0.113	0.139	0.277	-0.277
8	-0.118	0.139	0.278	-0.278
9	0.276	0.139	0.279	-0.279
10	0.208	0.141	0.282	-0.282
11	0.195	0.142	0.285	-0.285
12	0.307	0.143	0.287	-0.287
13	0.330	0.146	0.291	-0.291
14	0.281	0.148	0.297	-0.297
15	0.058	0.150	0.301	-0.301

Horse Creek Trends Appendix - Display 22
Correlogram for Surface Conductivity at USGS Station 02297155

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 23

Seasonal Kendall Tau Trend Test Statistics
for Surface Conductivity at USGS Station 02297155

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.262	0.011	0.11	1.846

Horse Creek Trends Appendix - Display 24

Seasonal Kendall Tau Trend Test Statistics
for Surface Conductivity at USGS Station 02297155

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.26244	0.011278	0.11037	1.84615

Horse Creek Trends Appendix - Display 26

Autocorrelation Statistics for Surface Conductivity at USGS Station 02297155

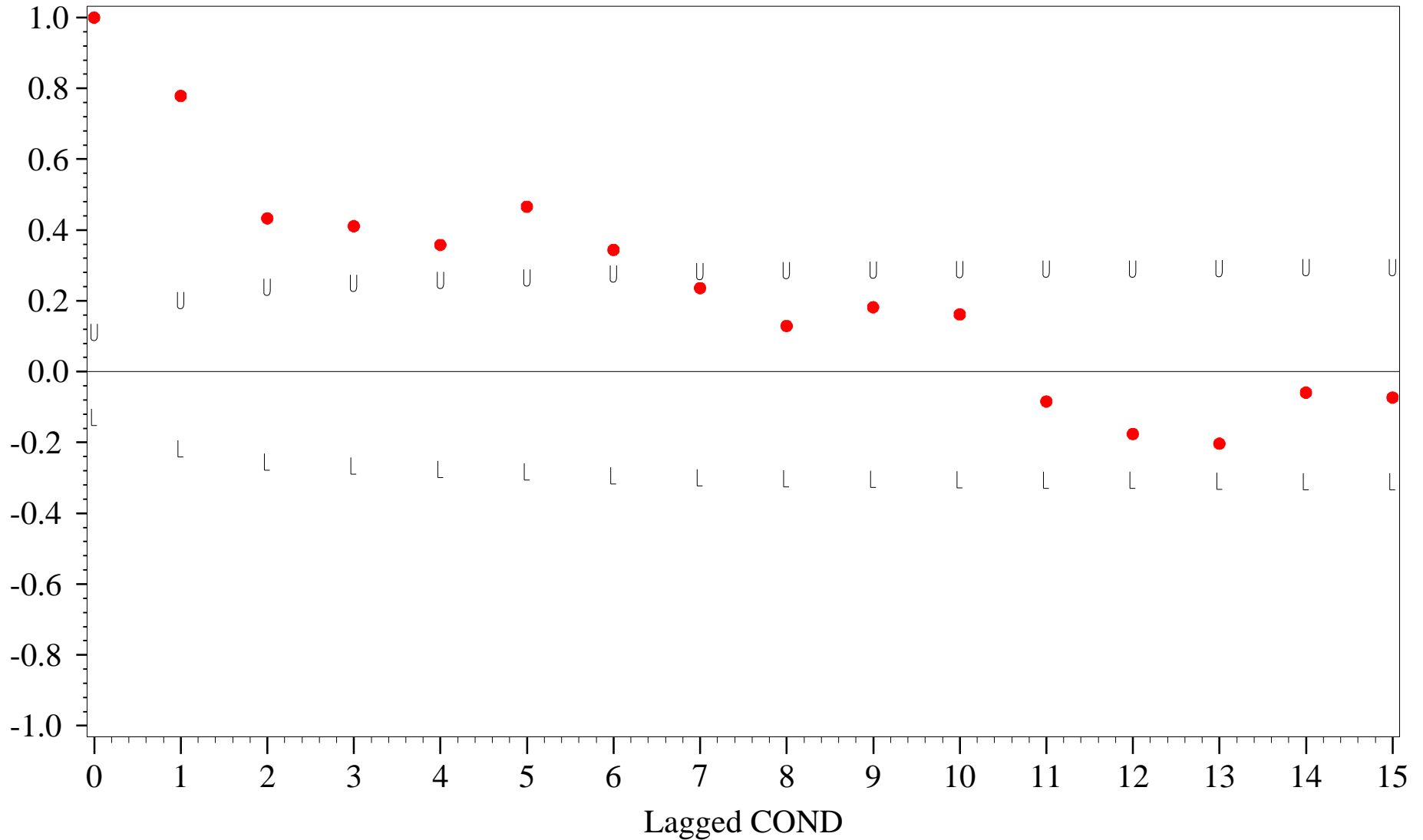
Adjusted for Seasonal Median and Detrended

Lagged COND	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.060	0.120	-0.120
1	0.779	0.104	0.209	-0.209
2	0.433	0.124	0.247	-0.247
3	0.411	0.129	0.258	-0.258
4	0.358	0.134	0.267	-0.267
5	0.466	0.137	0.274	-0.274
6	0.344	0.143	0.285	-0.285
7	0.236	0.146	0.291	-0.291
8	0.129	0.147	0.294	-0.294
9	0.182	0.147	0.295	-0.295
10	0.162	0.148	0.297	-0.297
11	-0.084	0.149	0.298	-0.298
12	-0.176	0.149	0.298	-0.298
13	-0.203	0.150	0.300	-0.300
14	-0.059	0.151	0.302	-0.302
15	-0.073	0.151	0.302	-0.302

Horse Creek Trends Appendix - Display 27
Correlogram for Surface Conductivity at USGS Station 02297155

Adjusted for Seasonal Median and Detrended

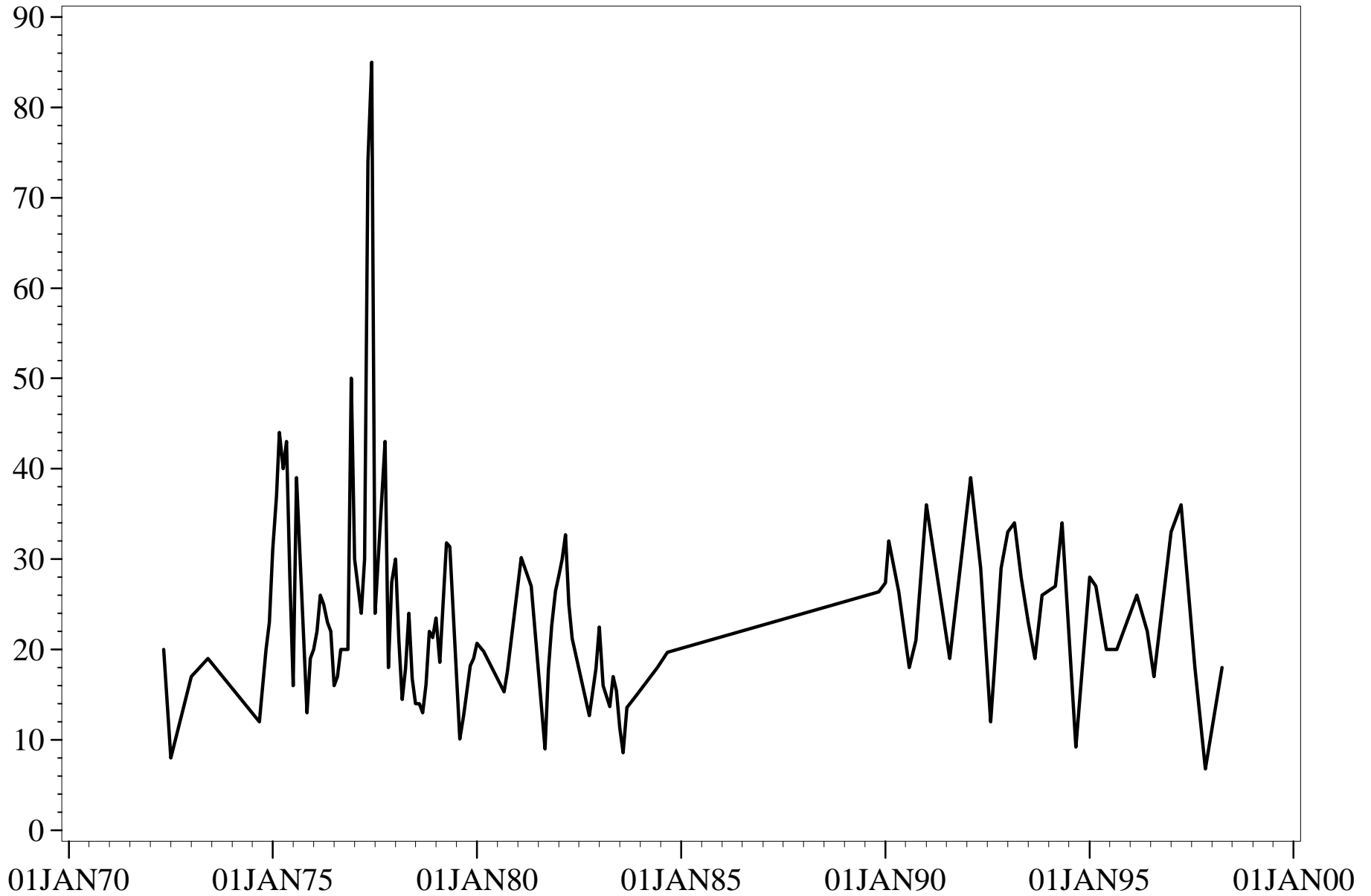
Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

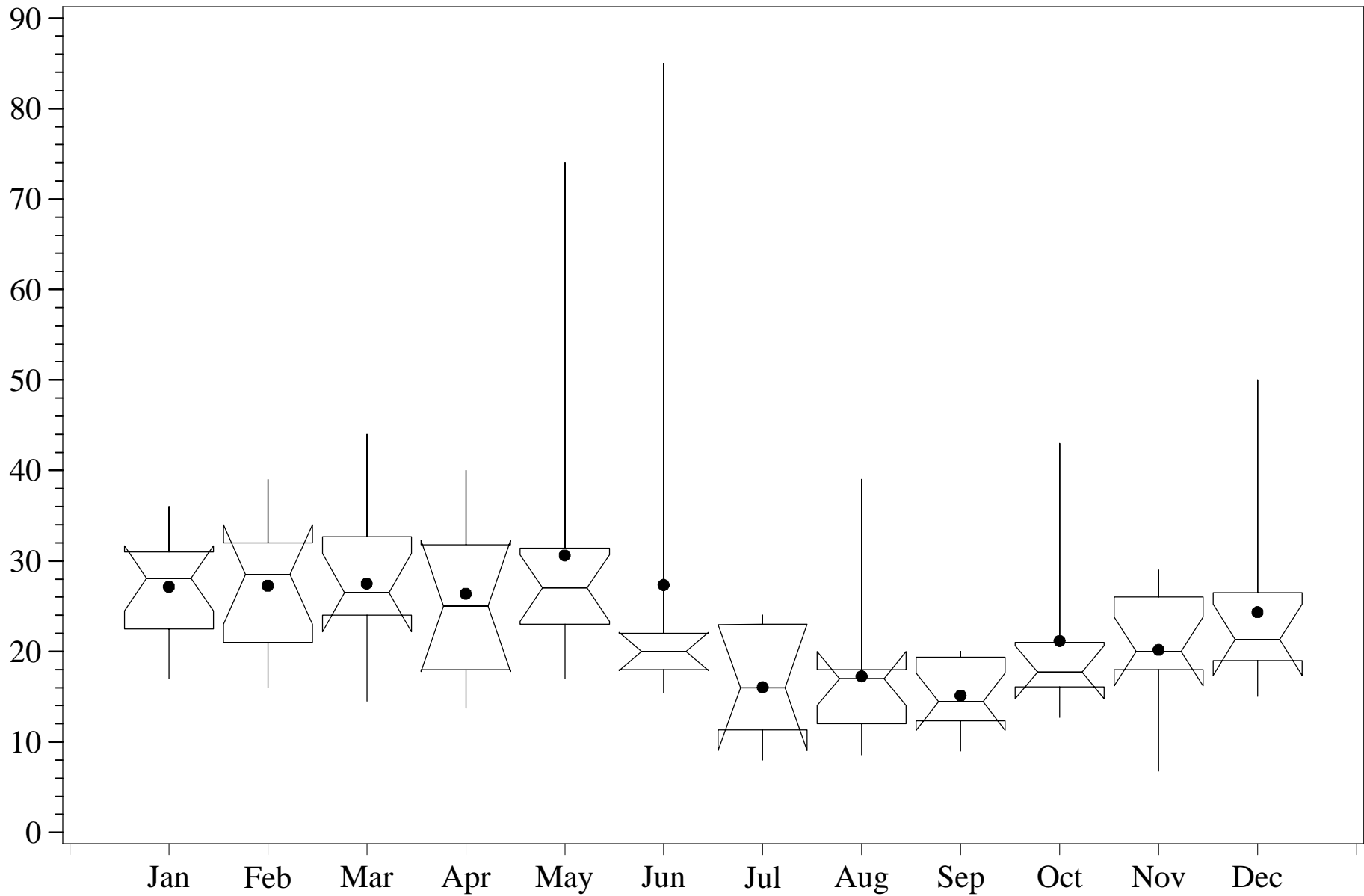
Horse Creek Trends Appendix - Display 28
Monthly Data Time Series
for Surface Chloride at FDEP Station 25020111
Unadjusted for Seasonal Medians

Chloride
(mg/L)



Horse Creek Trends Appendix - Display 29
Seasonal Univariate Statistics
for Surface Chloride at FDEP Station 25020111

Chloride
(mg/L)



Horse Creek Trends Appendix - Display 30

Autocorrelation Statistics for Surface Chloride at FDEP Station 25020111

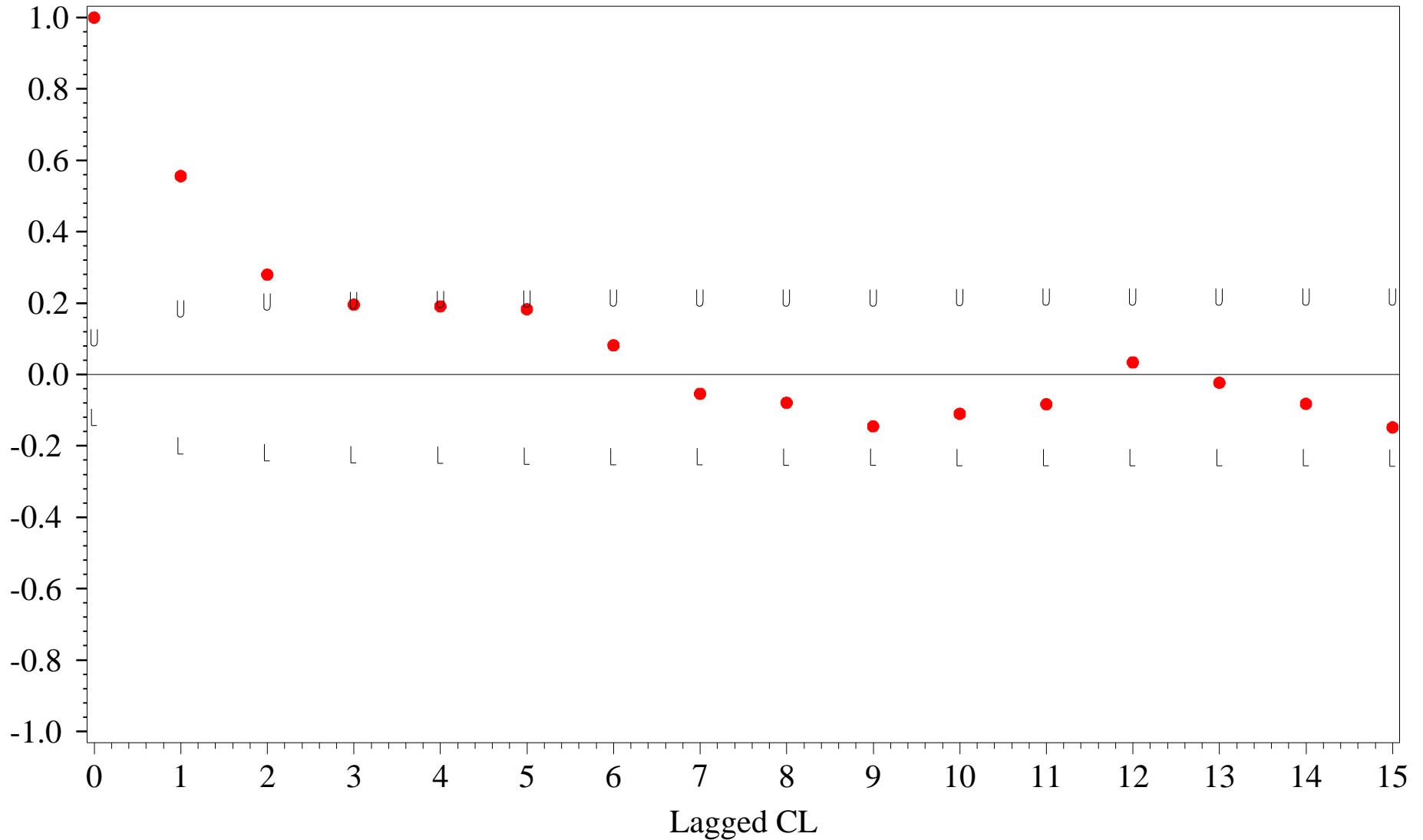
Unadjusted for Seasonal Medians

Lagged CL	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.556	0.096	0.192	-0.192
2	0.280	0.106	0.211	-0.211
3	0.196	0.108	0.216	-0.216
4	0.191	0.109	0.218	-0.218
5	0.183	0.110	0.220	-0.220
6	0.082	0.111	0.222	-0.222
7	-0.054	0.111	0.222	-0.222
8	-0.079	0.111	0.223	-0.223
9	-0.145	0.111	0.223	-0.223
10	-0.110	0.112	0.224	-0.224
11	-0.083	0.112	0.225	-0.225
12	0.034	0.113	0.225	-0.225
13	-0.023	0.113	0.225	-0.225
14	-0.082	0.113	0.225	-0.225
15	-0.148	0.113	0.226	-0.226

Horse Creek Trends Appendix - Display 31
Correlogram for Surface Chloride at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 32

Seasonal Kendall Tau Trend Test Statistics
for Surface Chloride at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.078	0.287	0.515	0.118

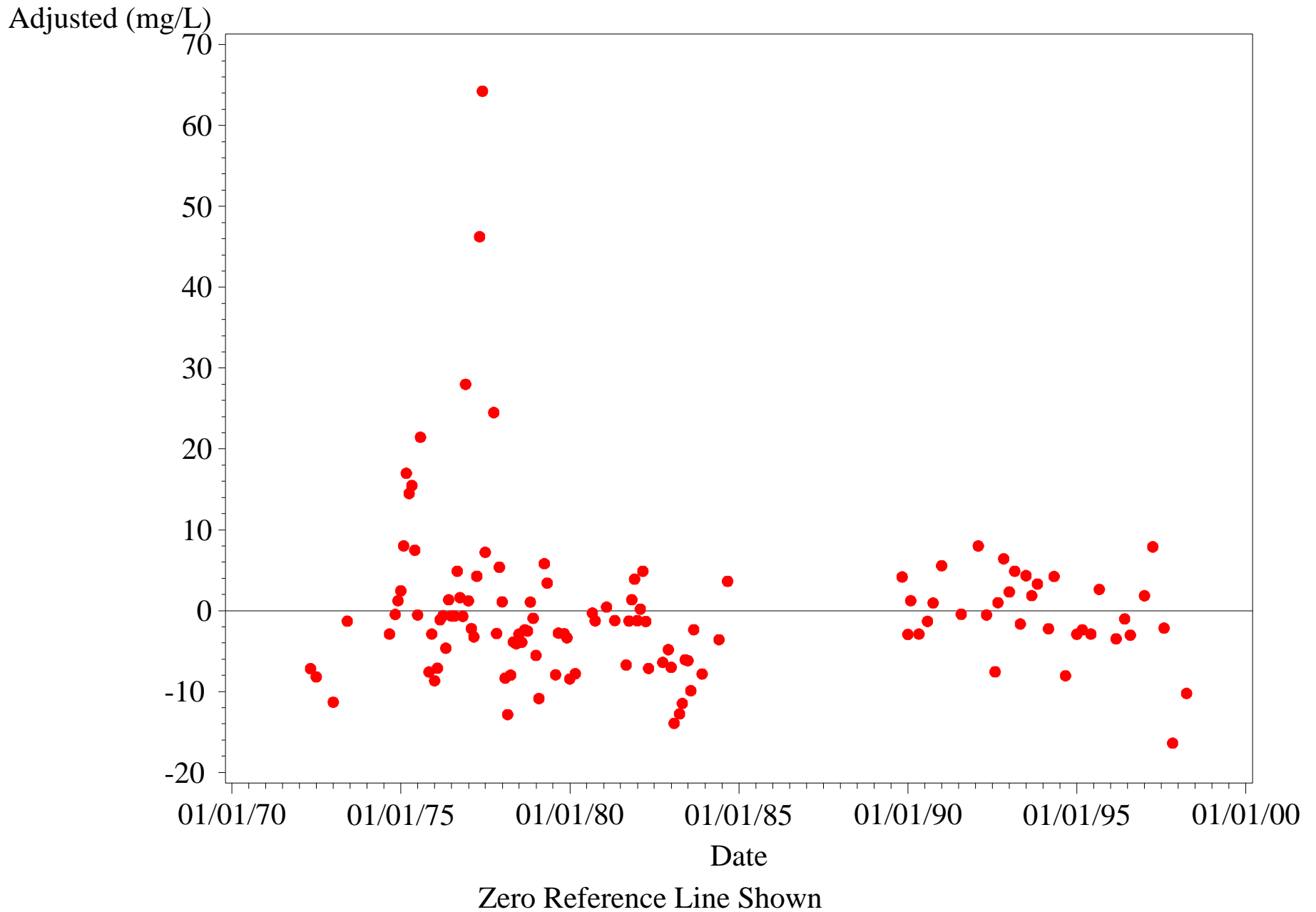
Horse Creek Trends Appendix - Display 33

Seasonal Kendall Tau Trend Test Statistics
for Surface Chloride at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.078261	0.28699	0.51496	0.11818

Horse Creek Trends Appendix - Display 34
Time Series Plot of Surface Chloride Data Adjusted for Season and Detrended
at FDEP Station 25020111



Horse Creek Trends Appendix - Display 35

Autocorrelation Statistics for Surface Chloride at FDEP Station 25020111

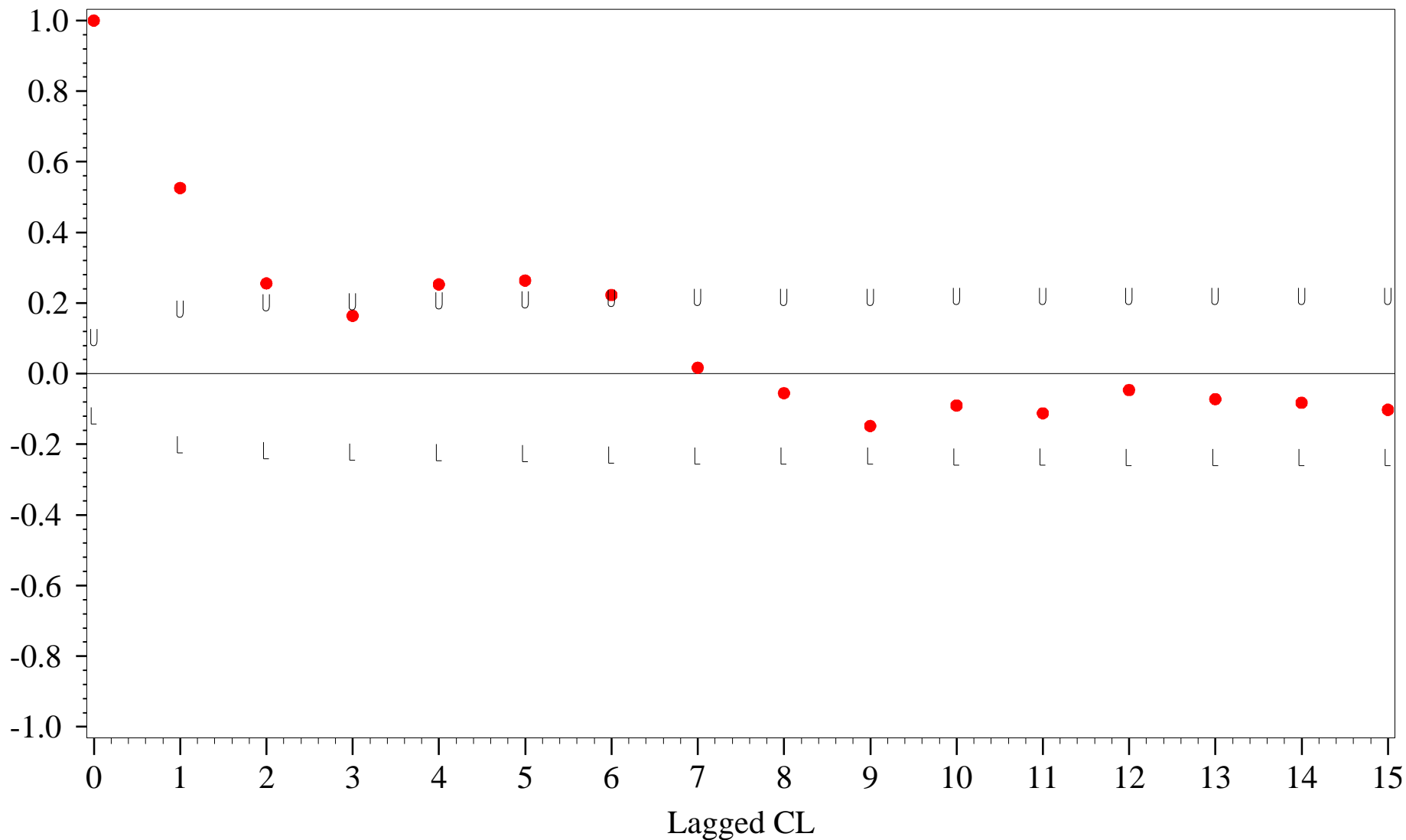
Adjusted for Seasonal Median and Detrended

Lagged CL	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.526	0.096	0.192	-0.192
2	0.256	0.105	0.209	-0.209
3	0.164	0.107	0.213	-0.213
4	0.253	0.107	0.215	-0.215
5	0.264	0.109	0.218	-0.218
6	0.223	0.111	0.222	-0.222
7	0.017	0.113	0.225	-0.225
8	-0.055	0.113	0.225	-0.225
9	-0.148	0.113	0.225	-0.225
10	-0.090	0.113	0.227	-0.227
11	-0.112	0.113	0.227	-0.227
12	-0.046	0.114	0.228	-0.228
13	-0.072	0.114	0.228	-0.228
14	-0.082	0.114	0.228	-0.228
15	-0.102	0.114	0.228	-0.228

Horse Creek Trends Appendix - Display 36
Correlogram for Surface Chloride at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

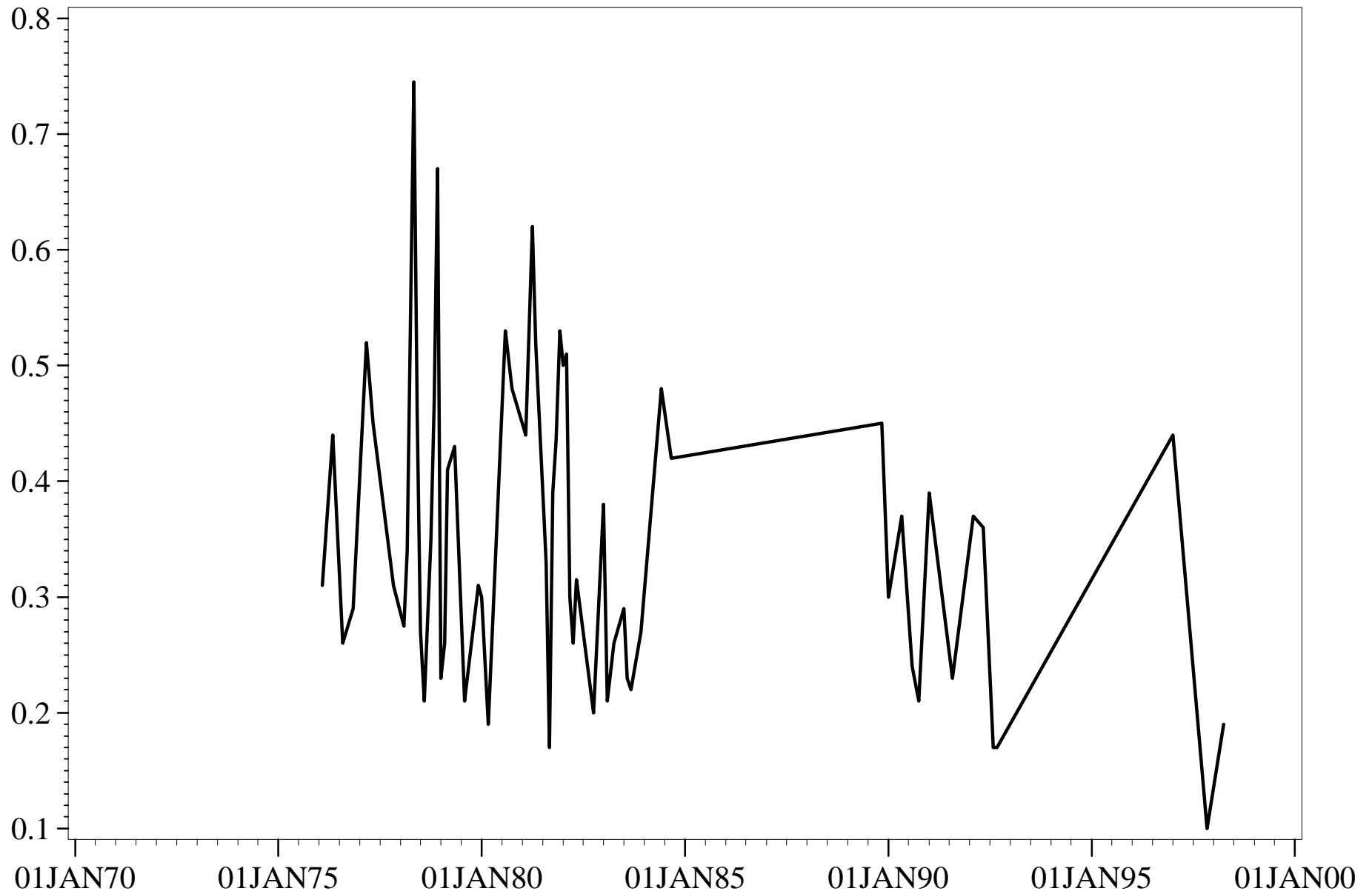
Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

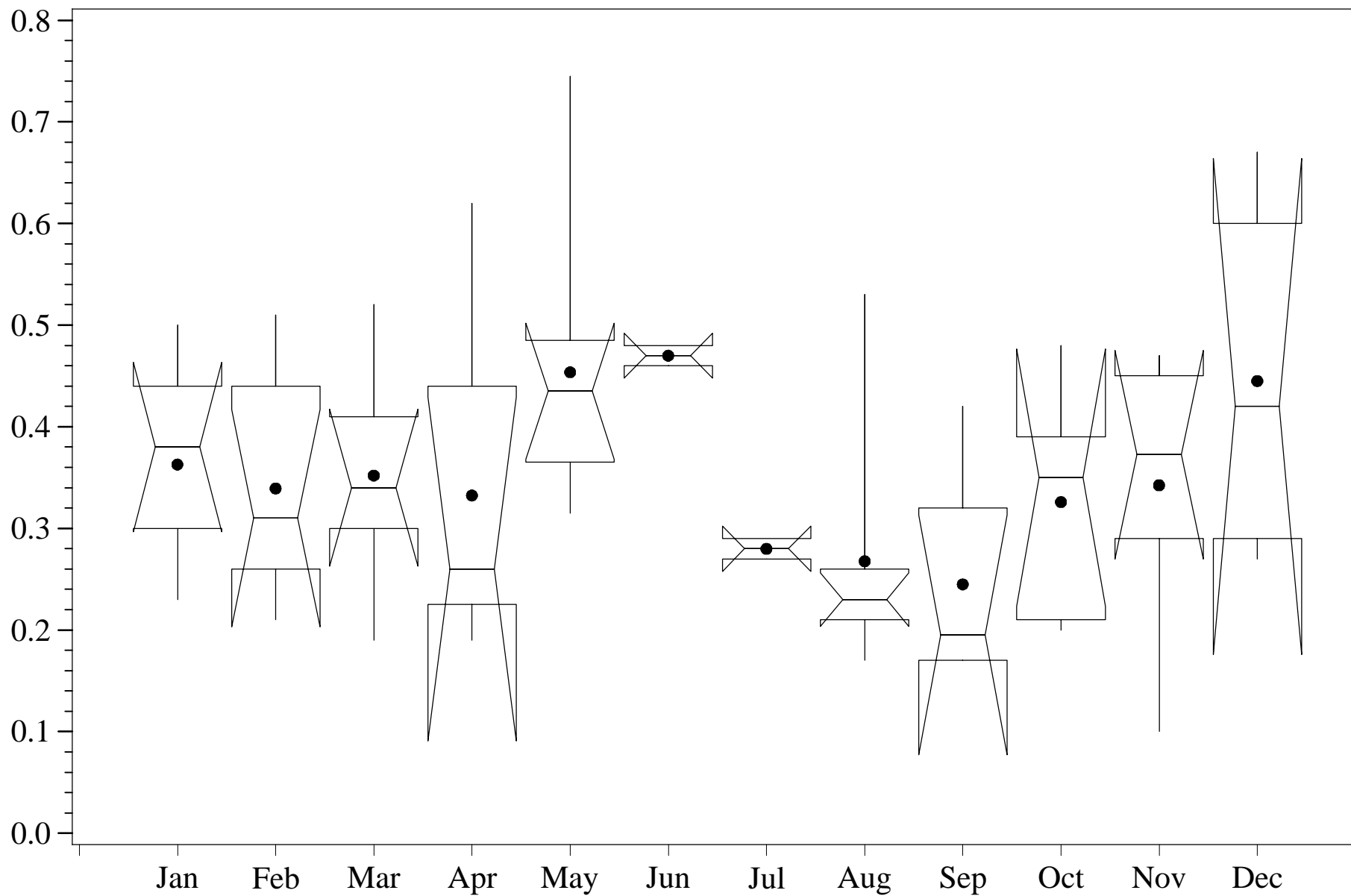
Horse Creek Trends Appendix - Display 37
Monthly Data Time Series
for Surface Fluoride at FDEP Station 25020111
Unadjusted for Seasonal Medians

Fluoride
(mg/l)



Horse Creek Trends Appendix - Display 38
Seasonal Univariate Statistics
for Surface Fluoride at FDEP Station 25020111

Fluoride
(mg/l)



Horse Creek Trends Appendix - Display 39

Autocorrelation Statistics for Surface Fluoride at FDEP Station 25020111

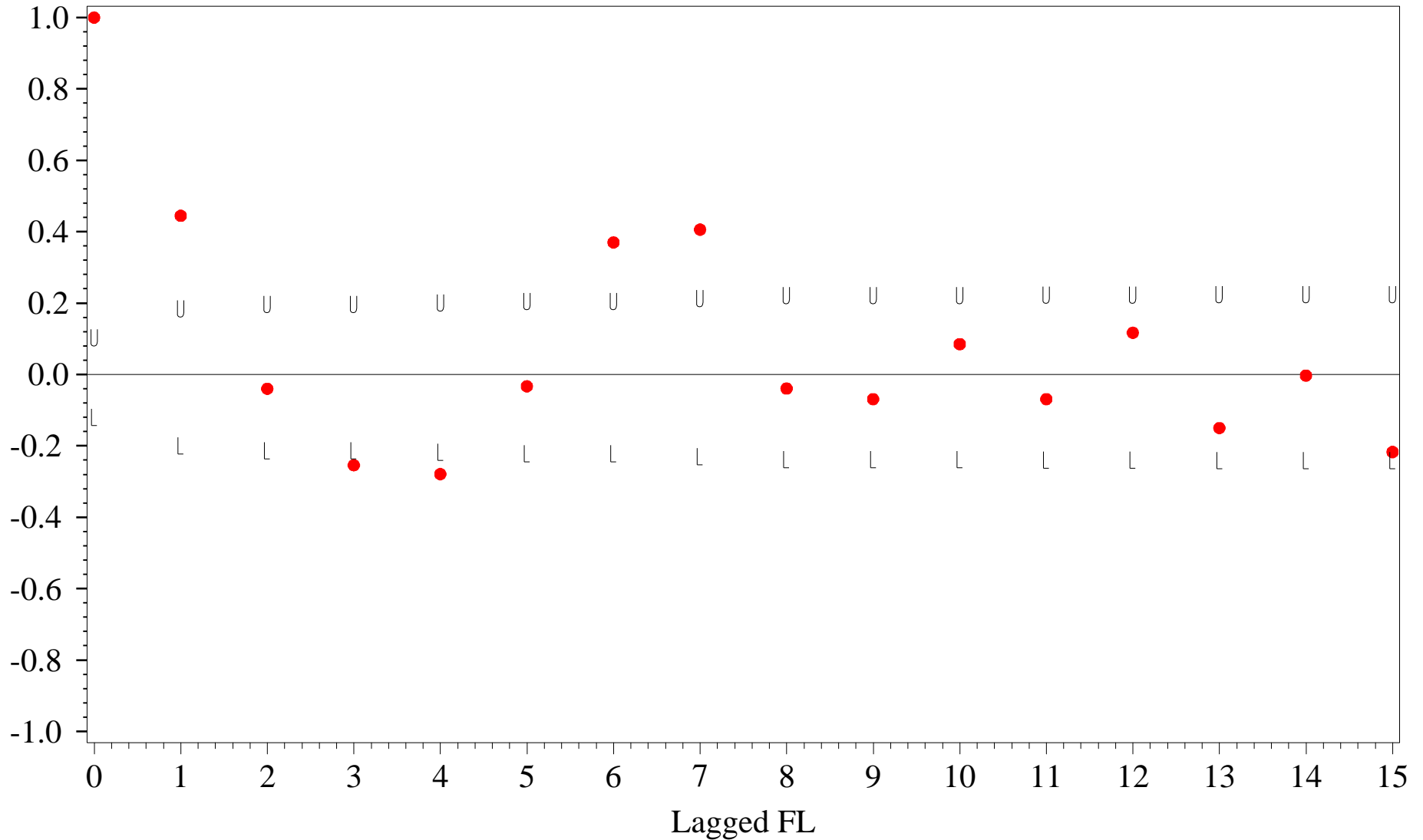
Unadjusted for Seasonal Medians

Lagged FL	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.445	0.096	0.192	-0.192
2	-0.040	0.102	0.205	-0.205
3	-0.254	0.102	0.205	-0.205
4	-0.279	0.104	0.209	-0.209
5	-0.033	0.107	0.213	-0.213
6	0.370	0.107	0.213	-0.213
7	0.406	0.111	0.221	-0.221
8	-0.039	0.115	0.230	-0.230
9	-0.069	0.115	0.230	-0.230
10	0.085	0.115	0.230	-0.230
11	-0.069	0.115	0.231	-0.231
12	0.117	0.116	0.231	-0.231
13	-0.150	0.116	0.232	-0.232
14	-0.003	0.117	0.233	-0.233
15	-0.217	0.117	0.233	-0.233

Horse Creek Trends Appendix - Display 40
Correlogram for Surface Fluoride at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 41

Seasonal Kendall Tau Trend Test Statistics
for Surface Fluoride at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.149	0.206	0.25	-.005

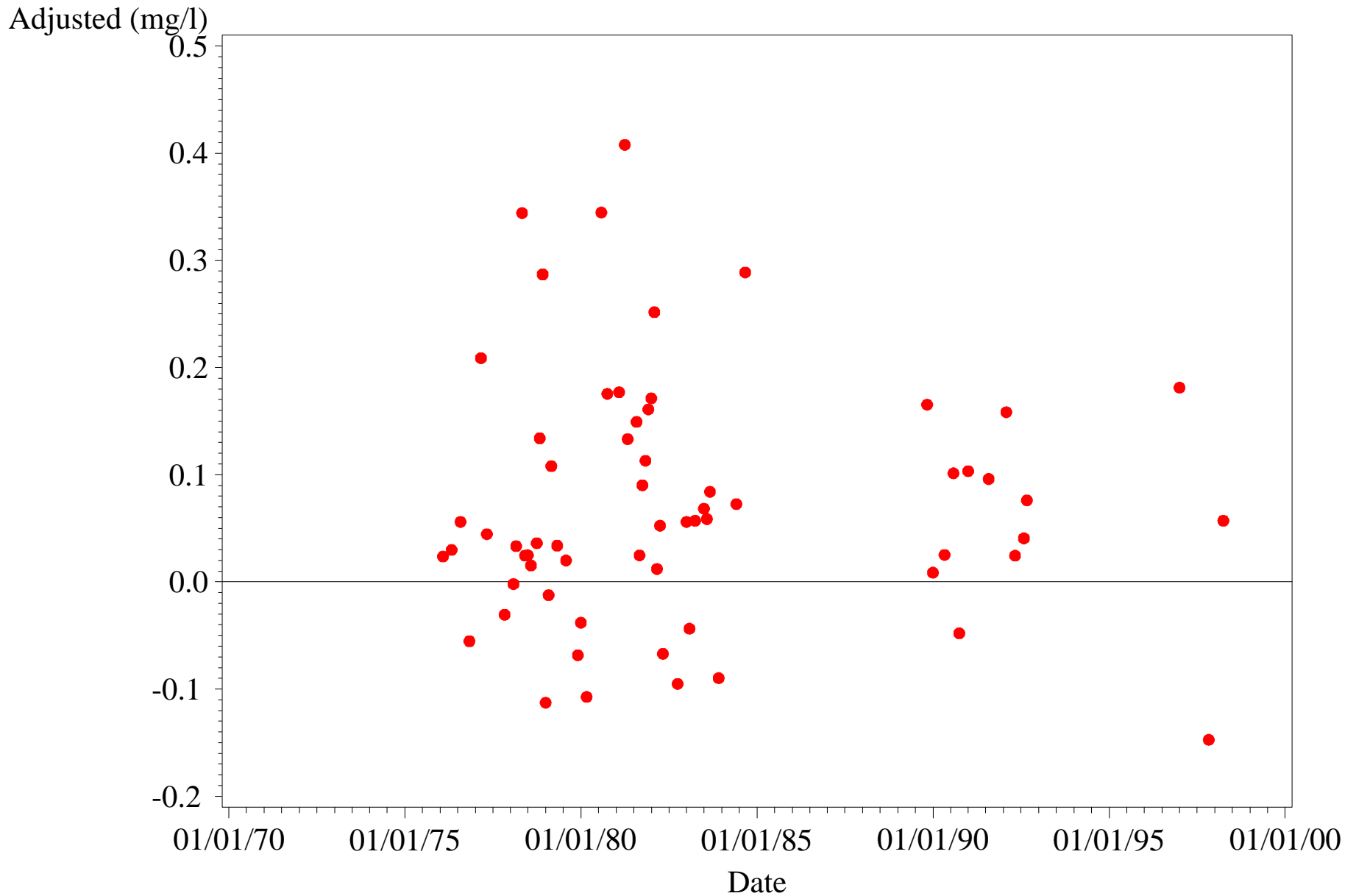
Horse Creek Trends Appendix - Display 42

Seasonal Kendall Tau Trend Test Statistics
for Surface Fluoride at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.14907	0.20593	0.25014	-.00466667

Horse Creek Trends Appendix - Display 43
Time Series Plot of Surface Fluoride Data Adjusted for Season and Detrended
at FDEP Station 25020111



Zero Reference Line Shown

Horse Creek Trends Appendix - Display 44

Autocorrelation Statistics for Surface Fluoride at FDEP Station 25020111

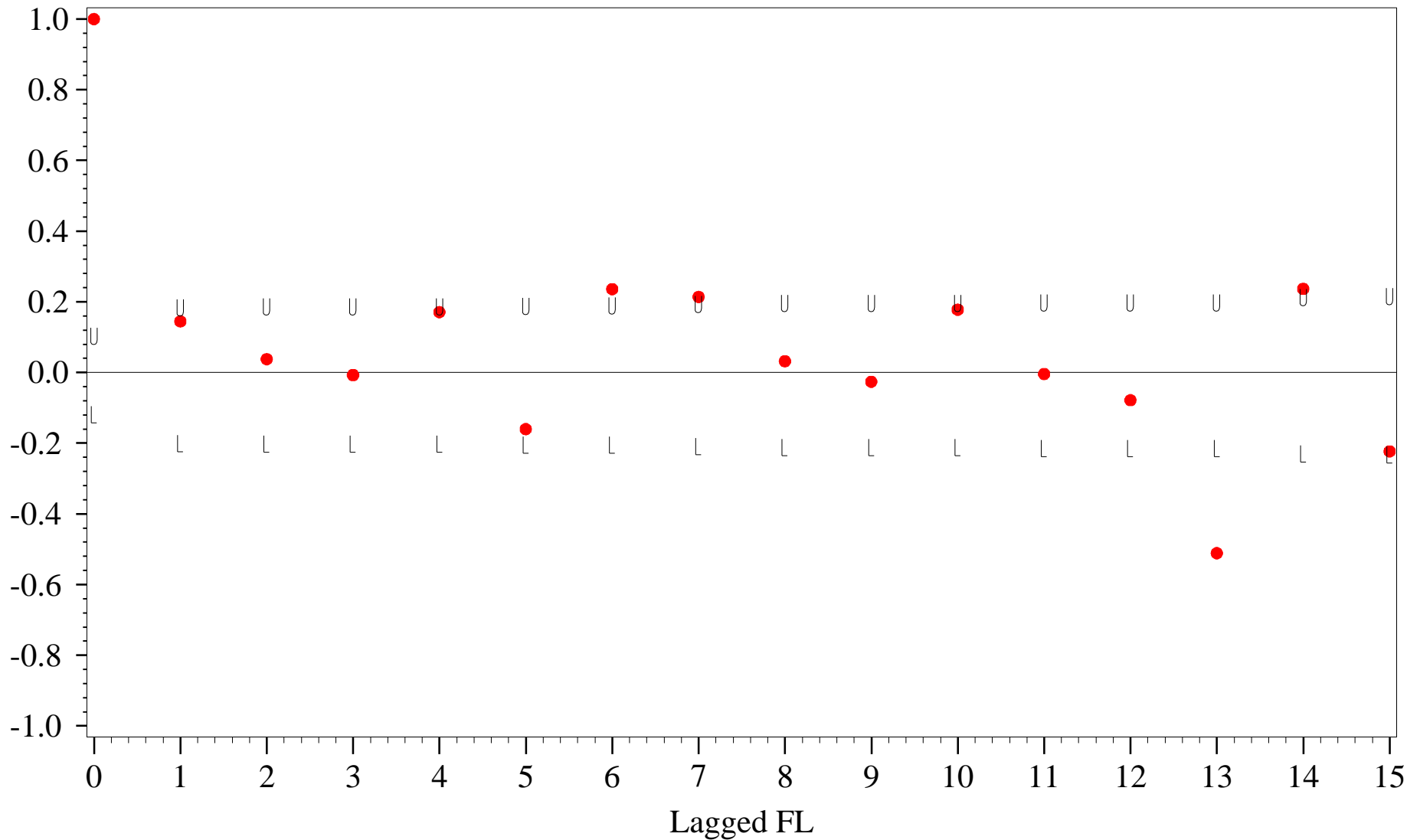
Adjusted for Seasonal Median and Detrended

Lagged FL	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.145	0.096	0.192	-0.192
2	0.038	0.097	0.194	-0.194
3	-0.007	0.097	0.194	-0.194
4	0.171	0.097	0.194	-0.194
5	-0.160	0.098	0.196	-0.196
6	0.236	0.099	0.197	-0.197
7	0.214	0.100	0.201	-0.201
8	0.032	0.102	0.204	-0.204
9	-0.026	0.102	0.204	-0.204
10	0.178	0.102	0.204	-0.204
11	-0.004	0.103	0.206	-0.206
12	-0.078	0.103	0.206	-0.206
13	-0.511	0.103	0.206	-0.206
14	0.237	0.111	0.221	-0.221
15	-0.223	0.112	0.224	-0.224

Horse Creek Trends Appendix - Display 45
Correlogram for Surface Fluoride at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

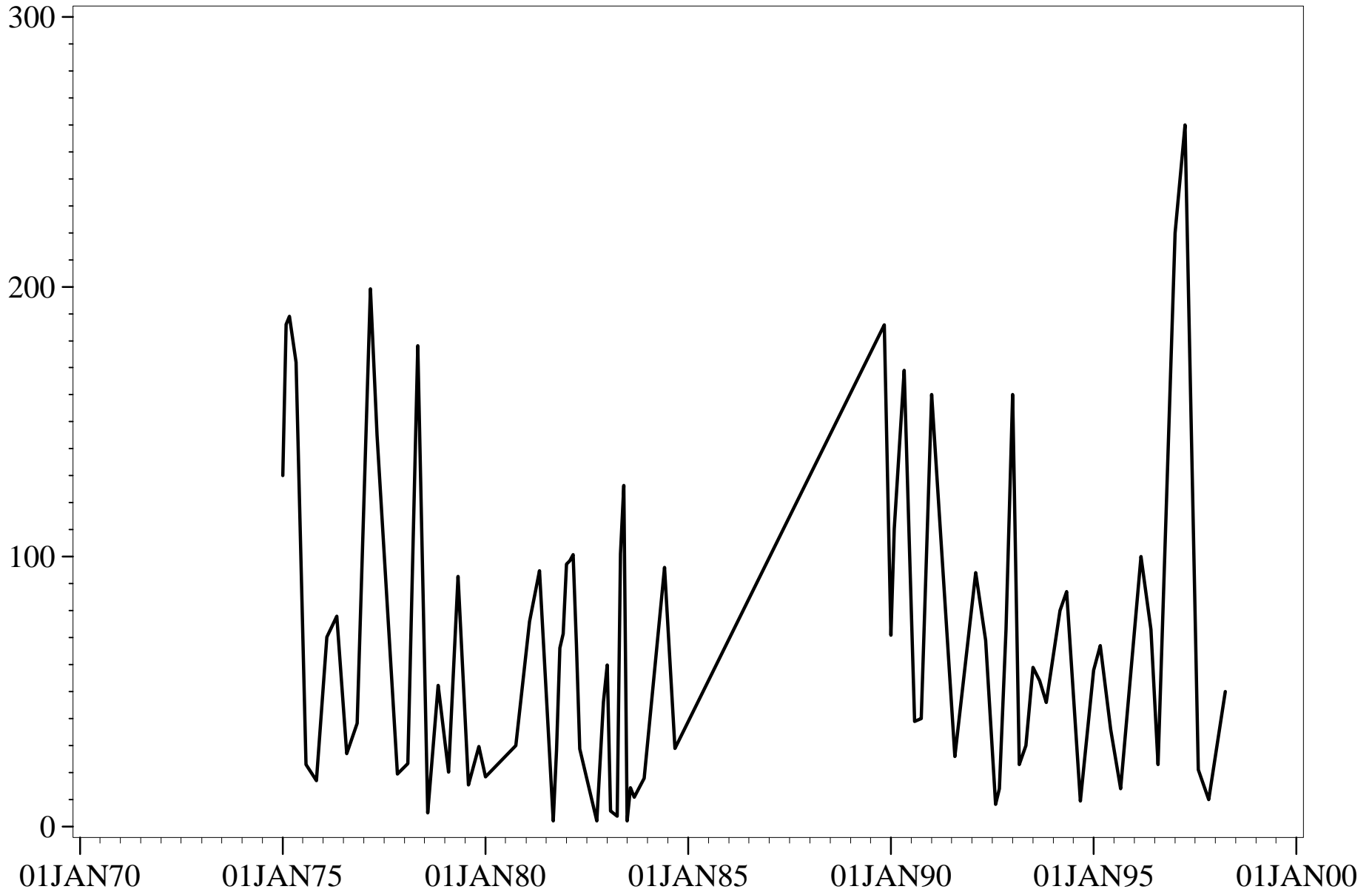
Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

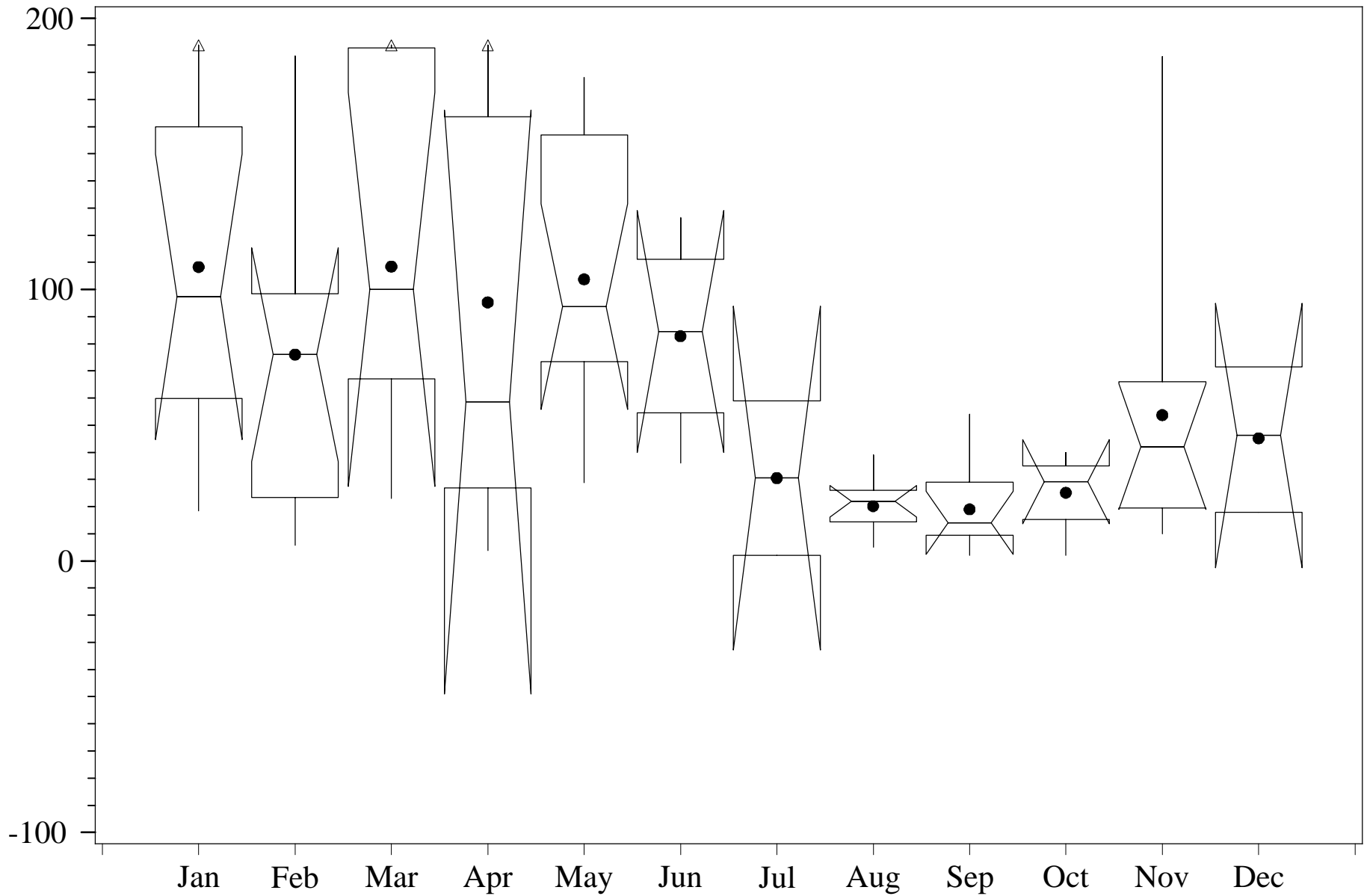
Horse Creek Trends Appendix - Display 46
Monthly Data Time Series
for Surface Sulphate at FDEP Station 25020111
Unadjusted for Seasonal Medians

Sulphate
(mg/L)



Horse Creek Trends Appendix - Display 47
Seasonal Univariate Statistics
for Surface Sulphate at FDEP Station 25020111

Sulphate
(mg/L)



Horse Creek Trends Appendix - Display 48

Autocorrelation Statistics for Surface Sulphate at FDEP Station 25020111

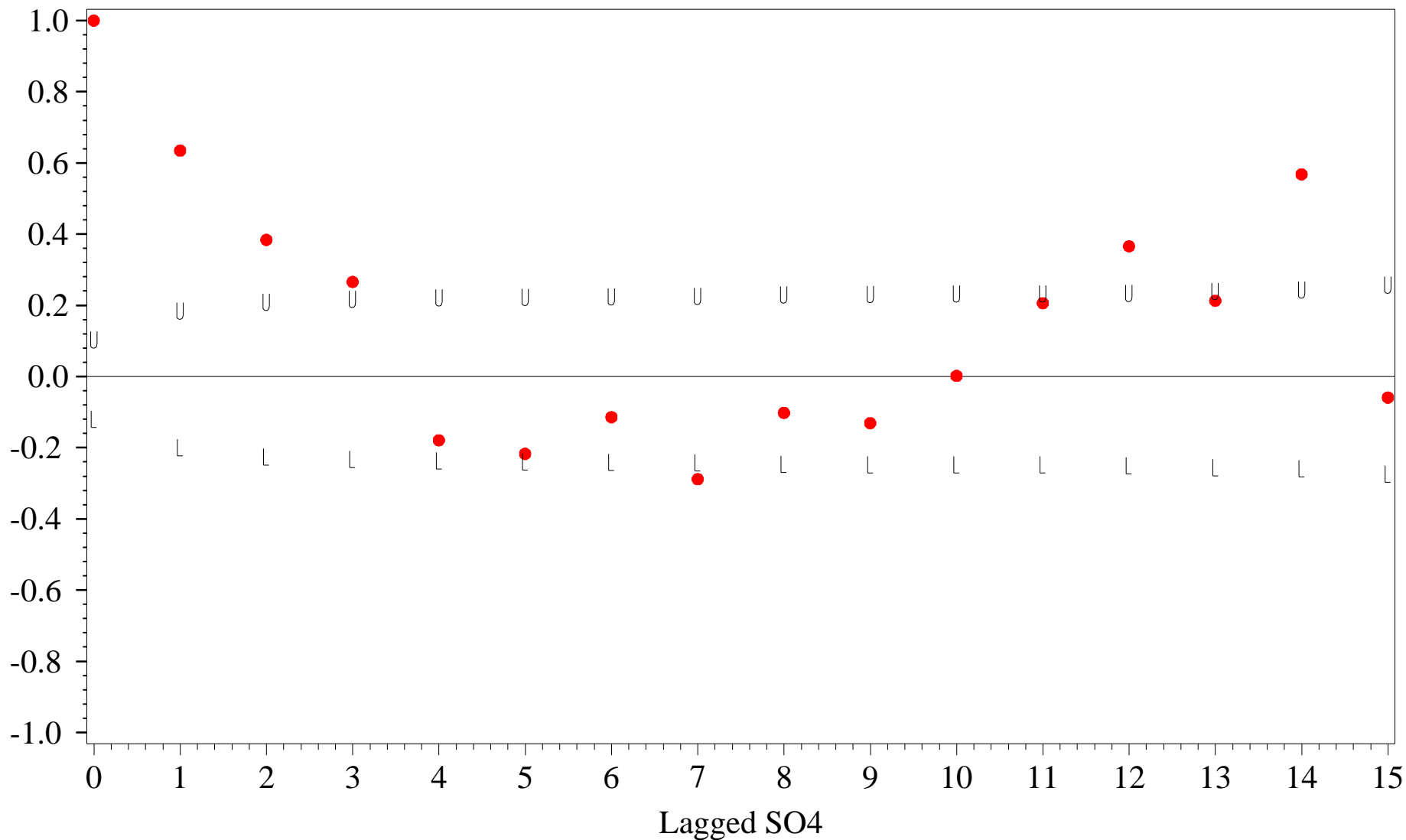
Unadjusted for Seasonal Medians

Lagged SO4	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.635	0.096	0.192	-0.192
2	0.384	0.108	0.217	-0.217
3	0.266	0.113	0.225	-0.225
4	-0.179	0.114	0.229	-0.229
5	-0.217	0.115	0.231	-0.231
6	-0.114	0.117	0.233	-0.233
7	-0.288	0.117	0.234	-0.234
8	-0.102	0.119	0.238	-0.238
9	-0.131	0.119	0.239	-0.239
10	0.002	0.120	0.240	-0.240
11	0.206	0.120	0.240	-0.240
12	0.366	0.121	0.242	-0.242
13	0.213	0.124	0.248	-0.248
14	0.568	0.125	0.251	-0.251
15	-0.059	0.133	0.266	-0.266

Horse Creek Trends Appendix - Display 49
Correlogram for Surface Sulphate at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 50

Seasonal Kendall Tau Trend Test Statistics
for Surface Sulphate at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.027	0.8	0.797	-0.111

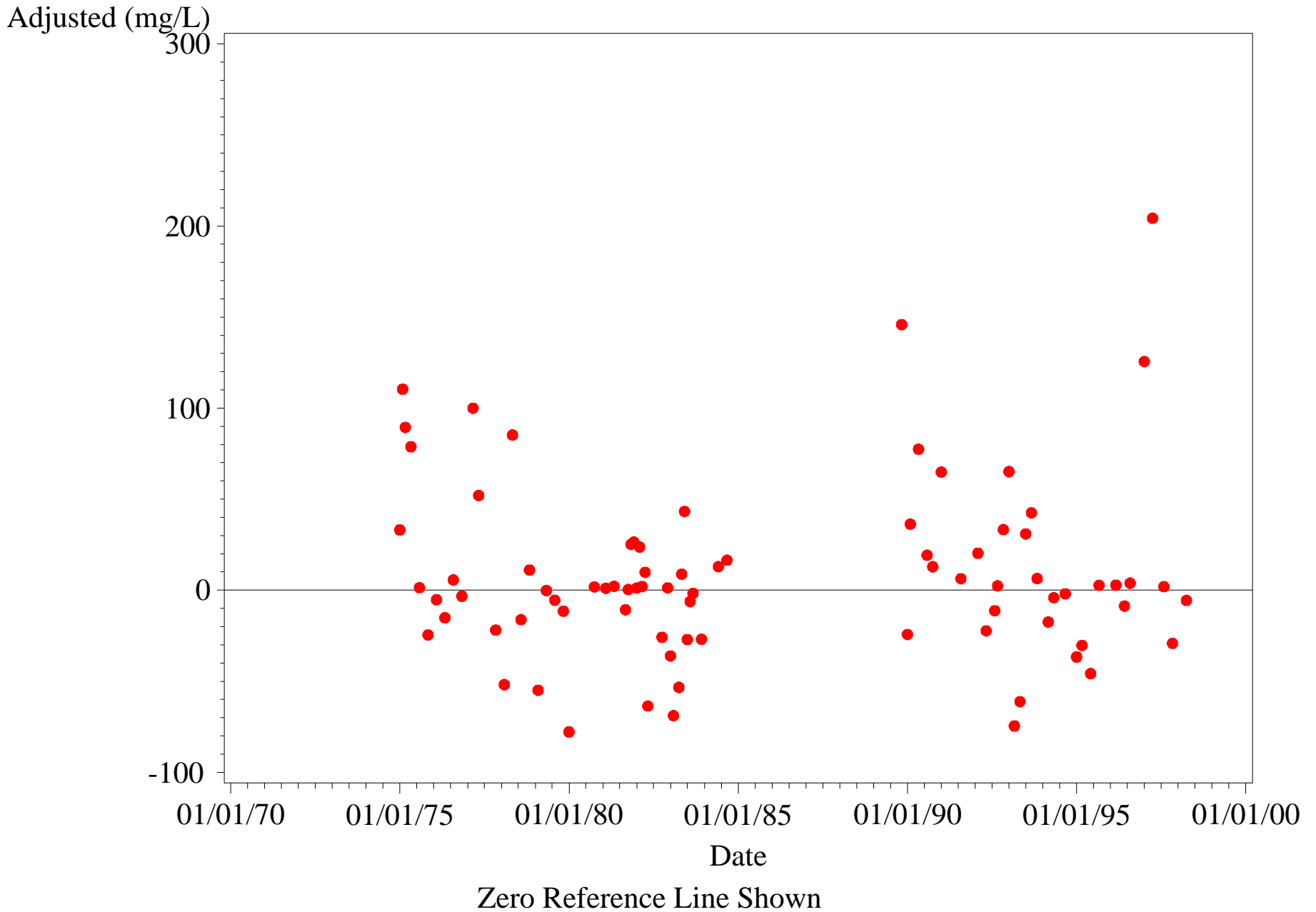
Horse Creek Trends Appendix - Display 51

Seasonal Kendall Tau Trend Test Statistics
for Surface Sulphate at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.027397	0.80007	0.79737	-0.11136

Horse Creek Trends Appendix - Display 52
Time Series Plot of Surface Sulphate Data Adjusted for Season and Detrended
at FDEP Station 25020111



Horse Creek Trends Appendix - Display 53

Autocorrelation Statistics for Surface Sulphate at FDEP Station 25020111

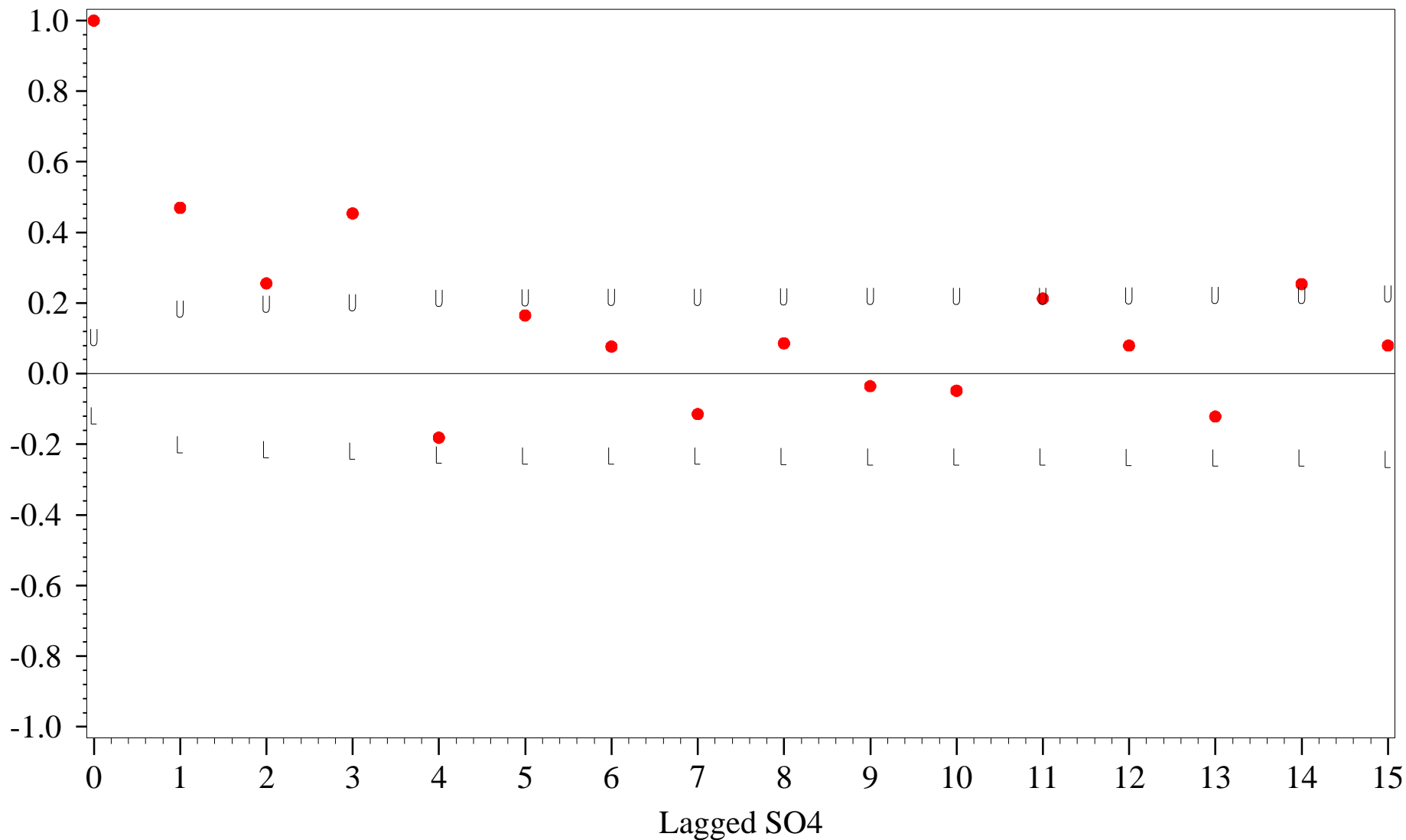
Adjusted for Seasonal Median and Detrended

Lagged SO4	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.470	0.096	0.192	-0.192
2	0.256	0.103	0.206	-0.206
3	0.454	0.105	0.210	-0.210
4	-0.181	0.111	0.222	-0.222
5	0.165	0.112	0.224	-0.224
6	0.077	0.113	0.225	-0.225
7	-0.114	0.113	0.225	-0.225
8	0.086	0.113	0.226	-0.226
9	-0.035	0.113	0.227	-0.227
10	-0.048	0.113	0.227	-0.227
11	0.213	0.113	0.227	-0.227
12	0.080	0.115	0.229	-0.229
13	-0.121	0.115	0.230	-0.230
14	0.254	0.115	0.230	-0.230
15	0.080	0.117	0.234	-0.234

Horse Creek Trends Appendix - Display 54
Correlogram for Surface Sulphate at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

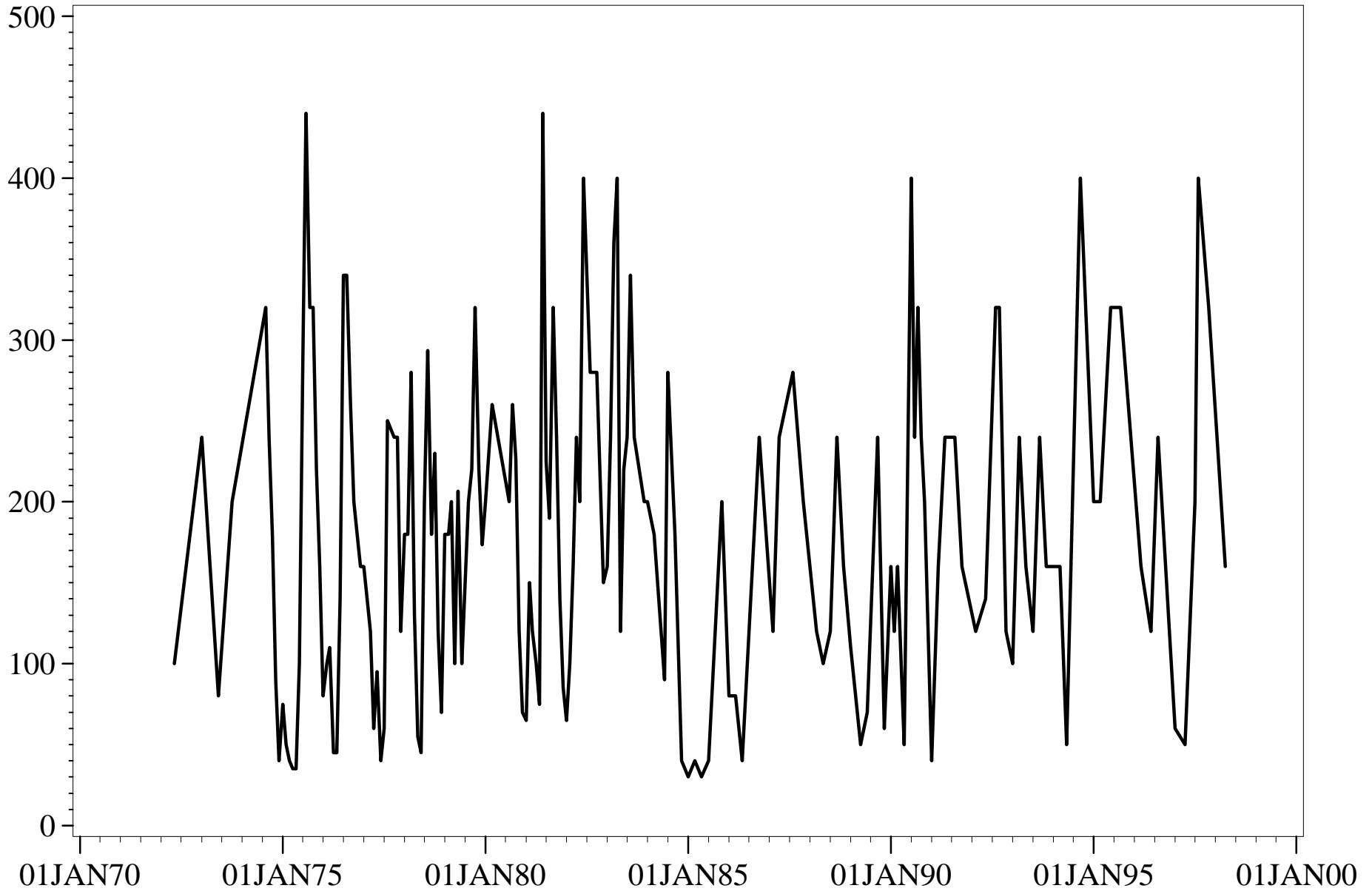
Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 55
Monthly Data Time Series
for Surface Color at FDEP Station 25020111
Unadjusted for Seasonal Medians

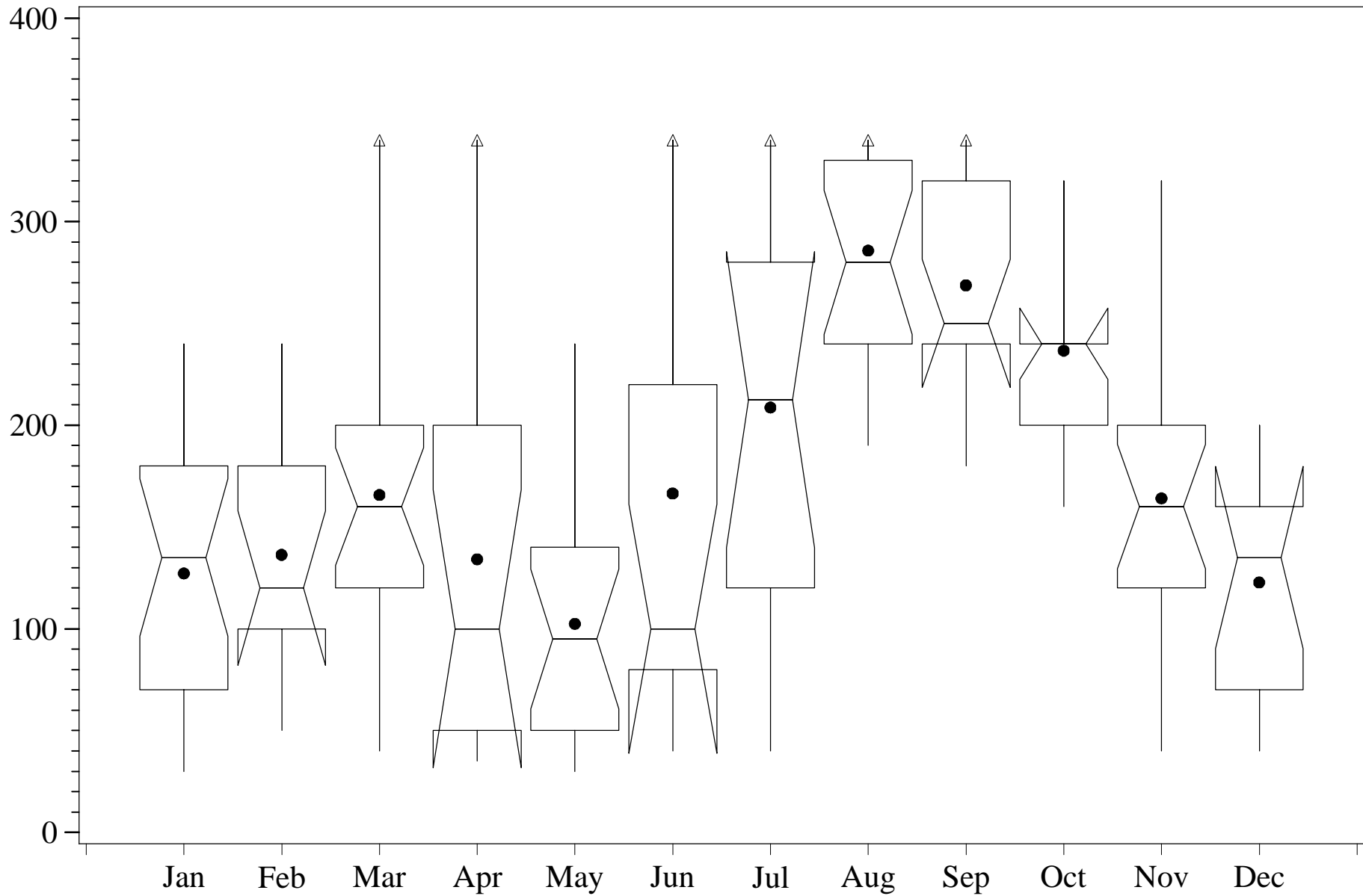
Color
(PCU)



Horse Creek Trends Appendix - Display 56

Seasonal Univariate Statistics for Surface Color at FDEP Station 25020111

Color
(PCU)



Horse Creek Trends Appendix - Display 57

Autocorrelation Statistics for Surface Color at FDEP Station 25020111

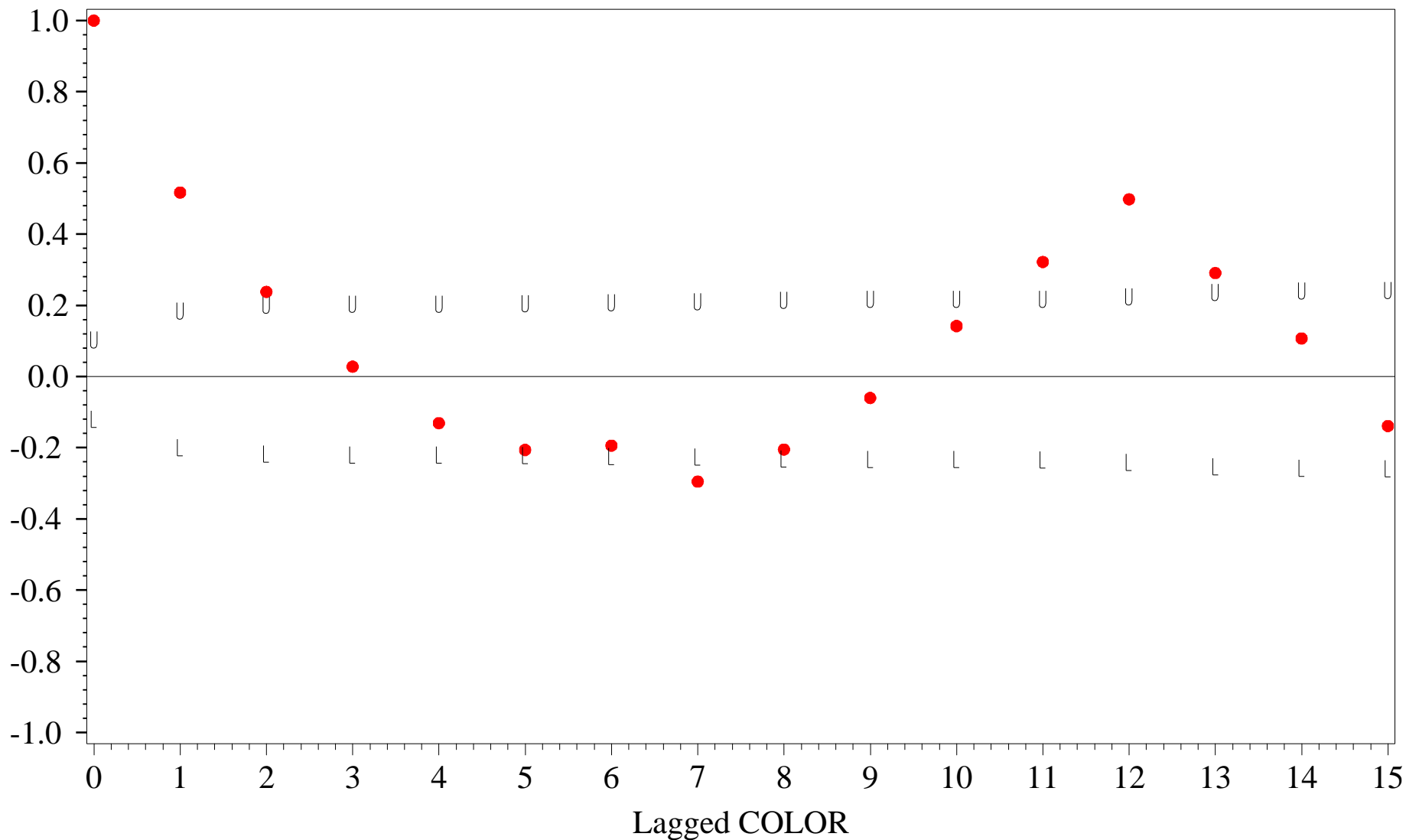
Unadjusted for Seasonal Medians

Lagged COLOR	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.517	0.096	0.192	-0.192
2	0.238	0.104	0.209	-0.209
3	0.028	0.106	0.212	-0.212
4	-0.131	0.106	0.212	-0.212
5	-0.206	0.107	0.213	-0.213
6	-0.194	0.108	0.216	-0.216
7	-0.295	0.109	0.218	-0.218
8	-0.205	0.111	0.223	-0.223
9	-0.060	0.113	0.225	-0.225
10	0.142	0.113	0.225	-0.225
11	0.322	0.113	0.226	-0.226
12	0.498	0.116	0.232	-0.232
13	0.291	0.122	0.245	-0.245
14	0.107	0.125	0.249	-0.249
15	-0.139	0.125	0.250	-0.250

Horse Creek Trends Appendix - Display 58
Correlogram for Surface Color at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 59

Seasonal Kendall Tau Trend Test Statistics
for Surface Color at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.074	0.196	0.25	0.357

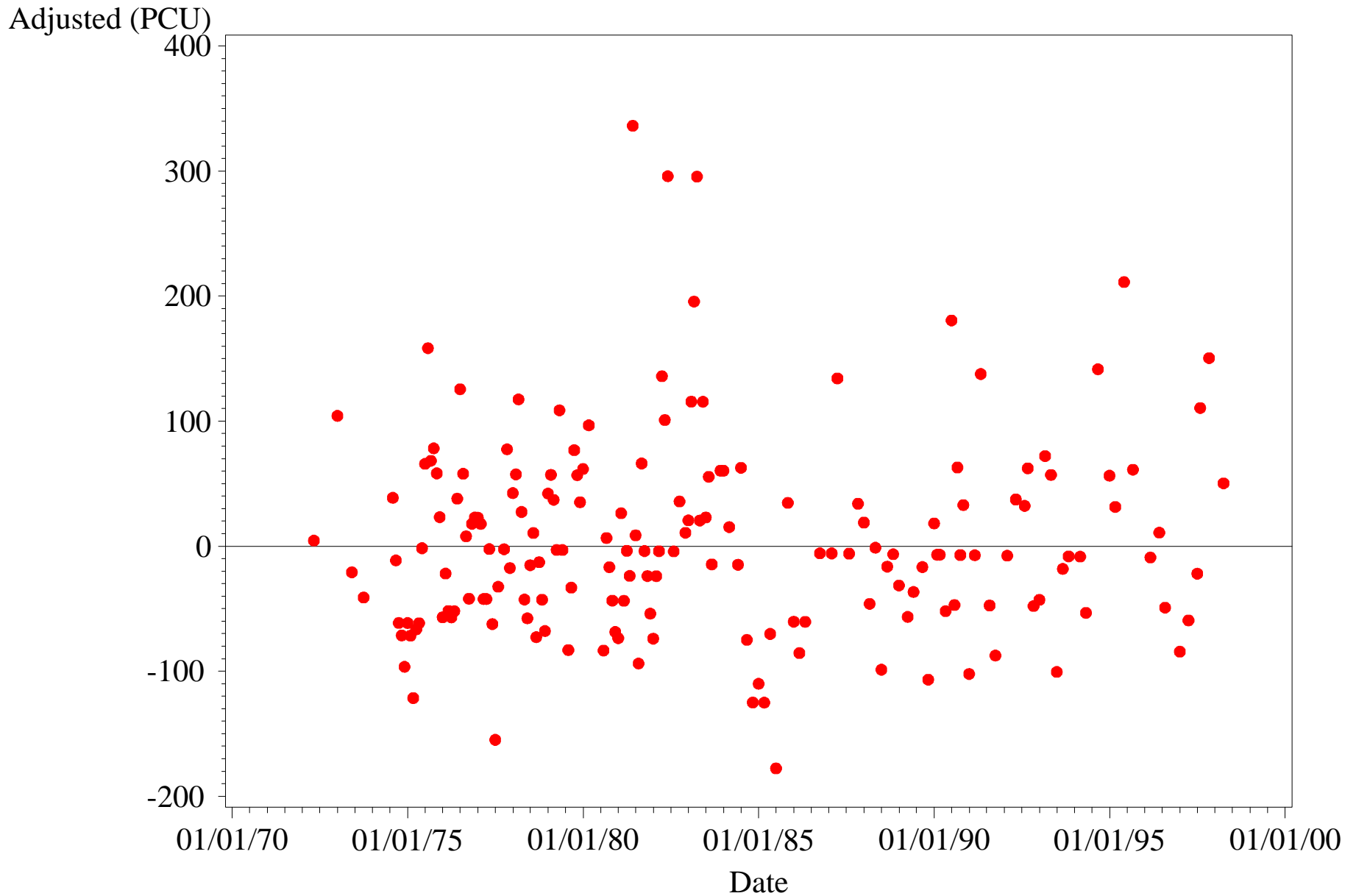
Horse Creek Trends Appendix - Display 60

Seasonal Kendall Tau Trend Test Statistics
for Surface Color at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.073751	0.19623	0.25001	0.35714

Horse Creek Trends Appendix - Display 61
Time Series Plot of Surface Color Data Adjusted for Season and Detrended
at FDEP Station 25020111



Zero Reference Line Shown

Horse Creek Trends Appendix - Display 62

Autocorrelation Statistics for Surface Color at FDEP Station 25020111

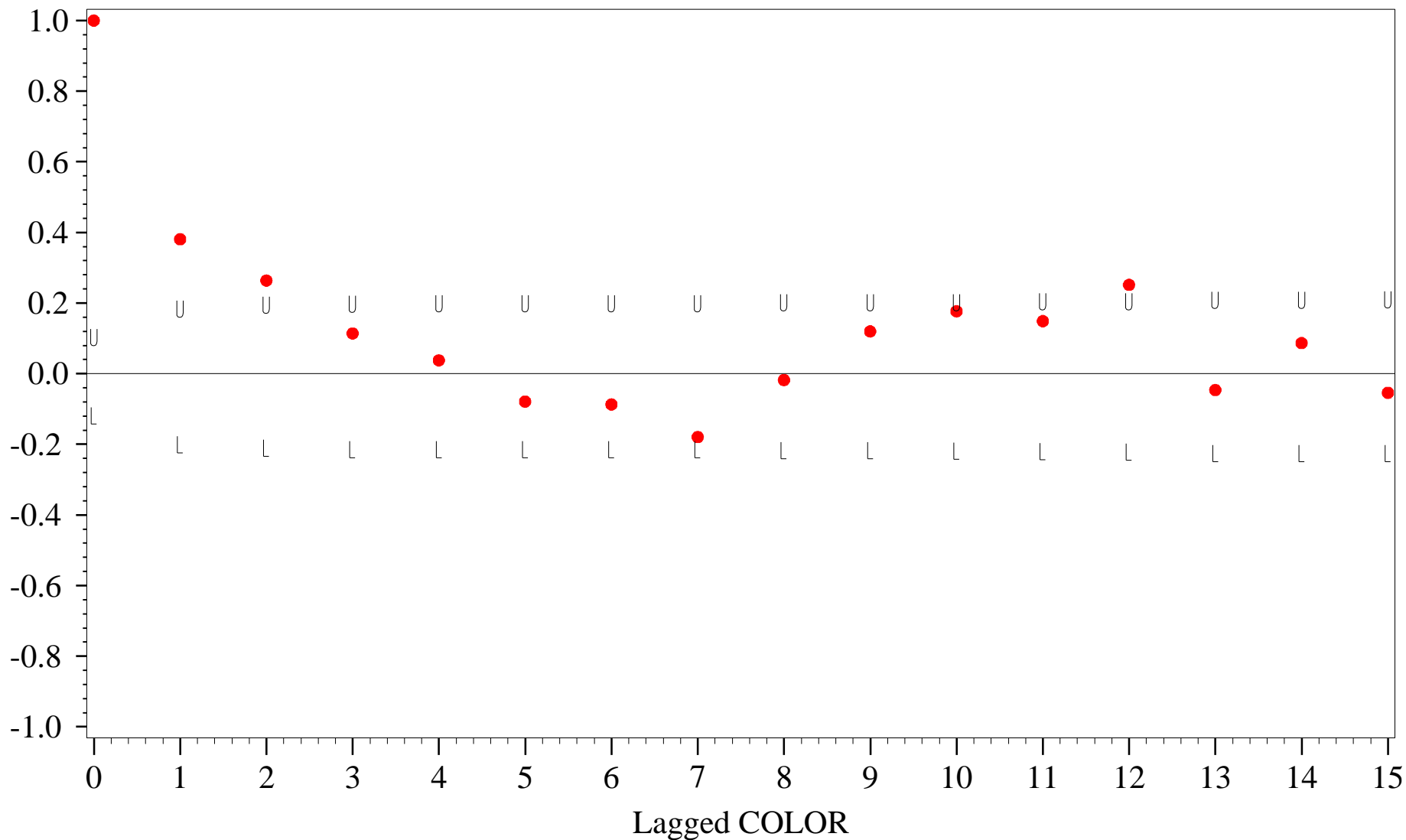
Adjusted for Seasonal Median and Detrended

Lagged COLOR	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.381	0.096	0.192	-0.192
2	0.264	0.101	0.202	-0.202
3	0.114	0.103	0.206	-0.206
4	0.038	0.103	0.207	-0.207
5	-0.079	0.103	0.207	-0.207
6	-0.087	0.104	0.207	-0.207
7	-0.179	0.104	0.207	-0.207
8	-0.018	0.105	0.209	-0.209
9	0.120	0.105	0.209	-0.209
10	0.177	0.105	0.210	-0.210
11	0.149	0.106	0.212	-0.212
12	0.252	0.107	0.213	-0.213
13	-0.046	0.109	0.217	-0.217
14	0.087	0.109	0.217	-0.217
15	-0.054	0.109	0.218	-0.218

Horse Creek Trends Appendix - Display 63
Correlogram for Surface Color at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

Correlation



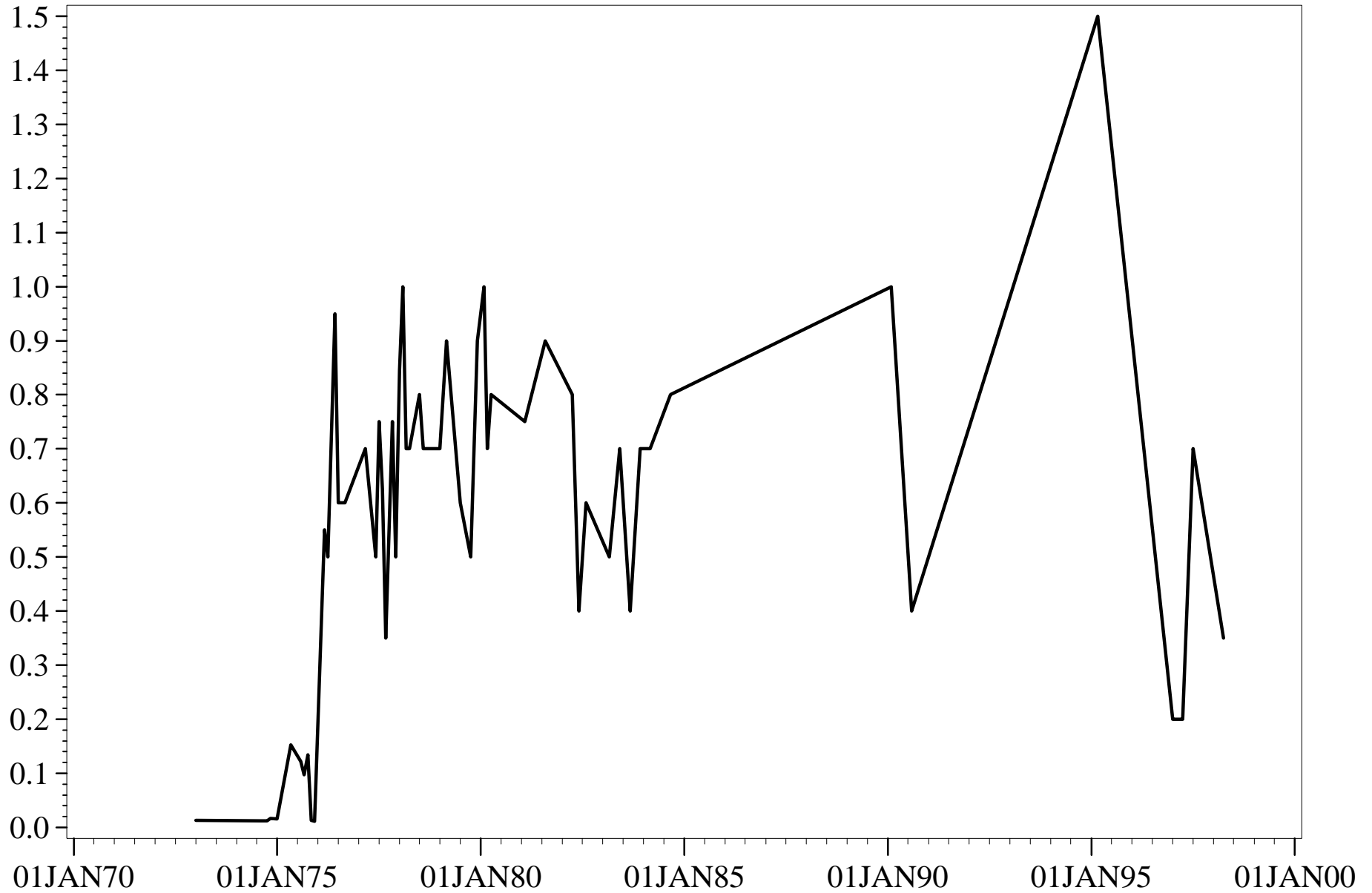
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 64

Monthly Data Time Series

Secchi Disk Depth
(m)

for Column Secchi Disk Depth at FDEP Station 25020111
Unadjusted for Seasonal Medians

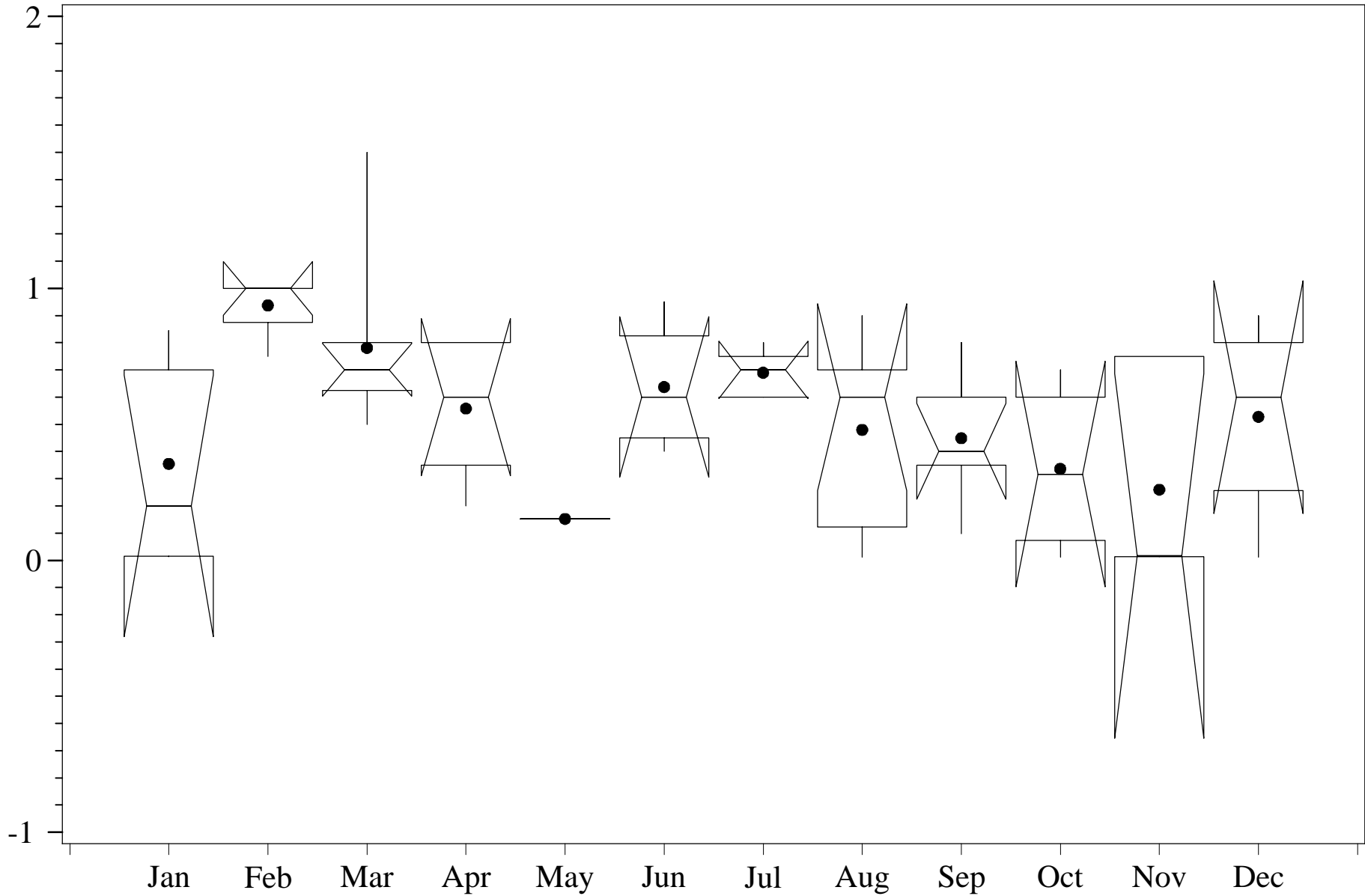


Horse Creek Trends Appendix - Display 65

Seasonal Univariate Statistics

for Column Secchi Disk Depth at FDEP Station 25020111

Secchi Disk
(m) Depth



Horse Creek Trends Appendix - Display 66

Autocorrelation Statistics for Column Secchi Disk Depth at FDEP Station 25020111

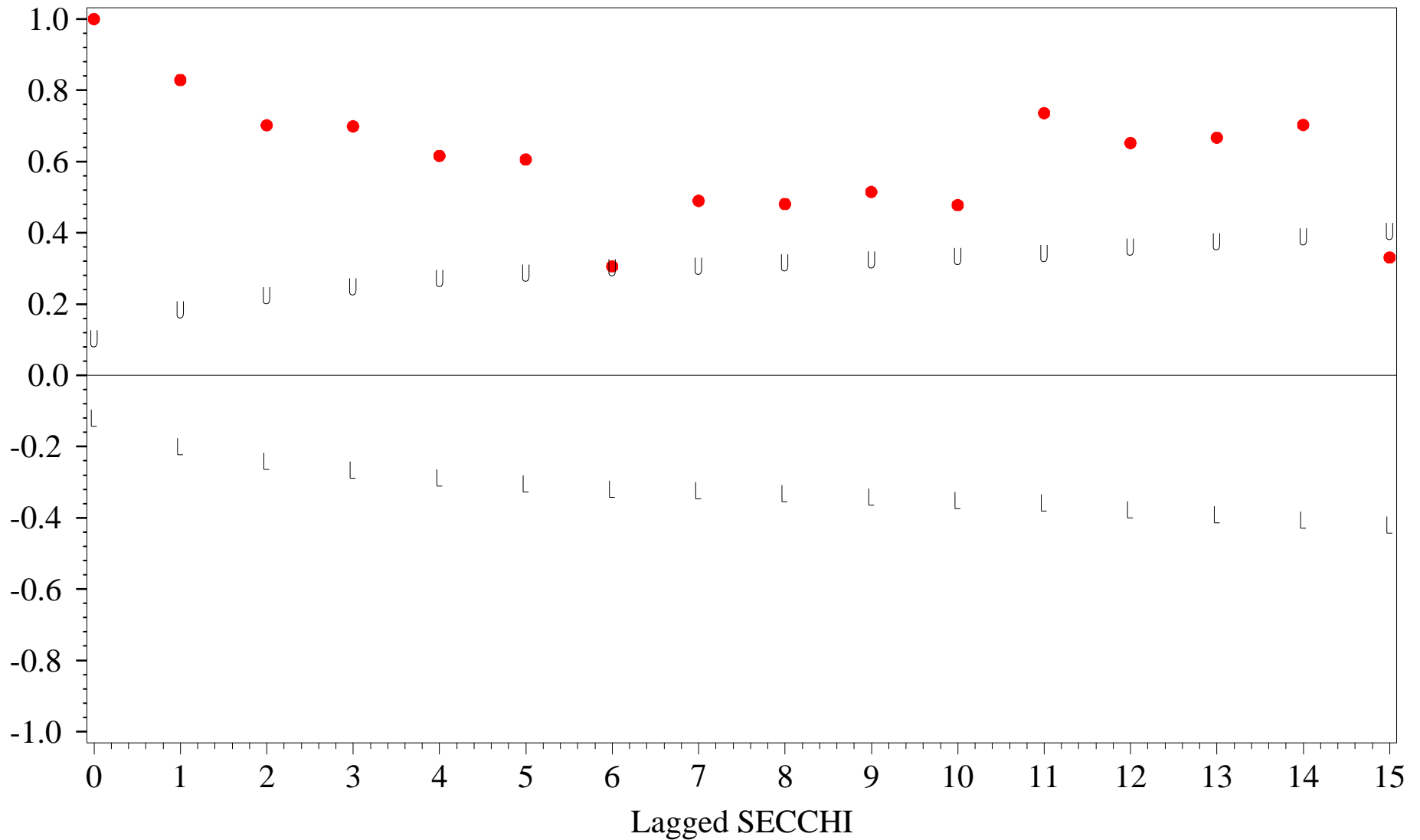
Unadjusted for Seasonal Medians

Lagged SECCHI	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.829	0.096	0.192	-0.192
2	0.702	0.116	0.232	-0.232
3	0.699	0.129	0.257	-0.257
4	0.616	0.140	0.280	-0.280
5	0.606	0.148	0.296	-0.296
6	0.306	0.155	0.311	-0.311
7	0.490	0.157	0.315	-0.315
8	0.481	0.162	0.324	-0.324
9	0.515	0.166	0.333	-0.333
10	0.478	0.171	0.342	-0.342
11	0.736	0.175	0.350	-0.350
12	0.652	0.184	0.369	-0.369
13	0.667	0.191	0.383	-0.383
14	0.703	0.199	0.397	-0.397
15	0.331	0.206	0.412	-0.412

Horse Creek Trends Appendix - Display 67
Correlogram for Column Secchi Disk Depth at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 68

Seasonal Kendall Tau Trend Test Statistics
for Column Secchi Disk Depth at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.248	0.046	0.119	0.025

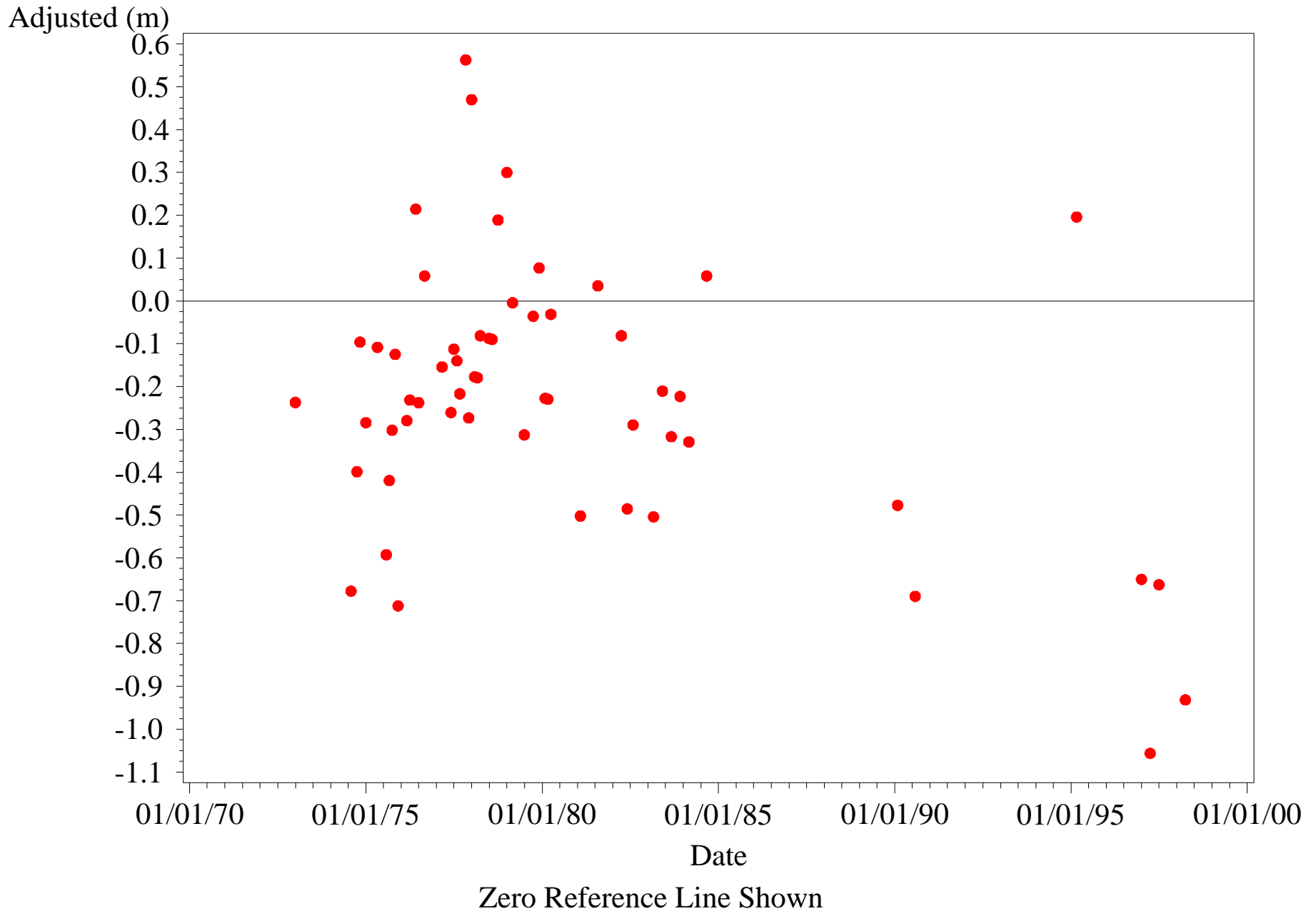
Horse Creek Trends Appendix - Display 69

Seasonal Kendall Tau Trend Test Statistics
for Column Secchi Disk Depth at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.24793	0.046401	0.11863	0.025

Horse Creek Trends Appendix - Display 70
Time Series Plot of Column Secchi Disk Depth Data Adjusted for Season and Detrended
at FDEP Station 25020111



Horse Creek Trends Appendix - Display 71

Autocorrelation Statistics for Column Secchi Disk Depth at FDEP Station 25020111

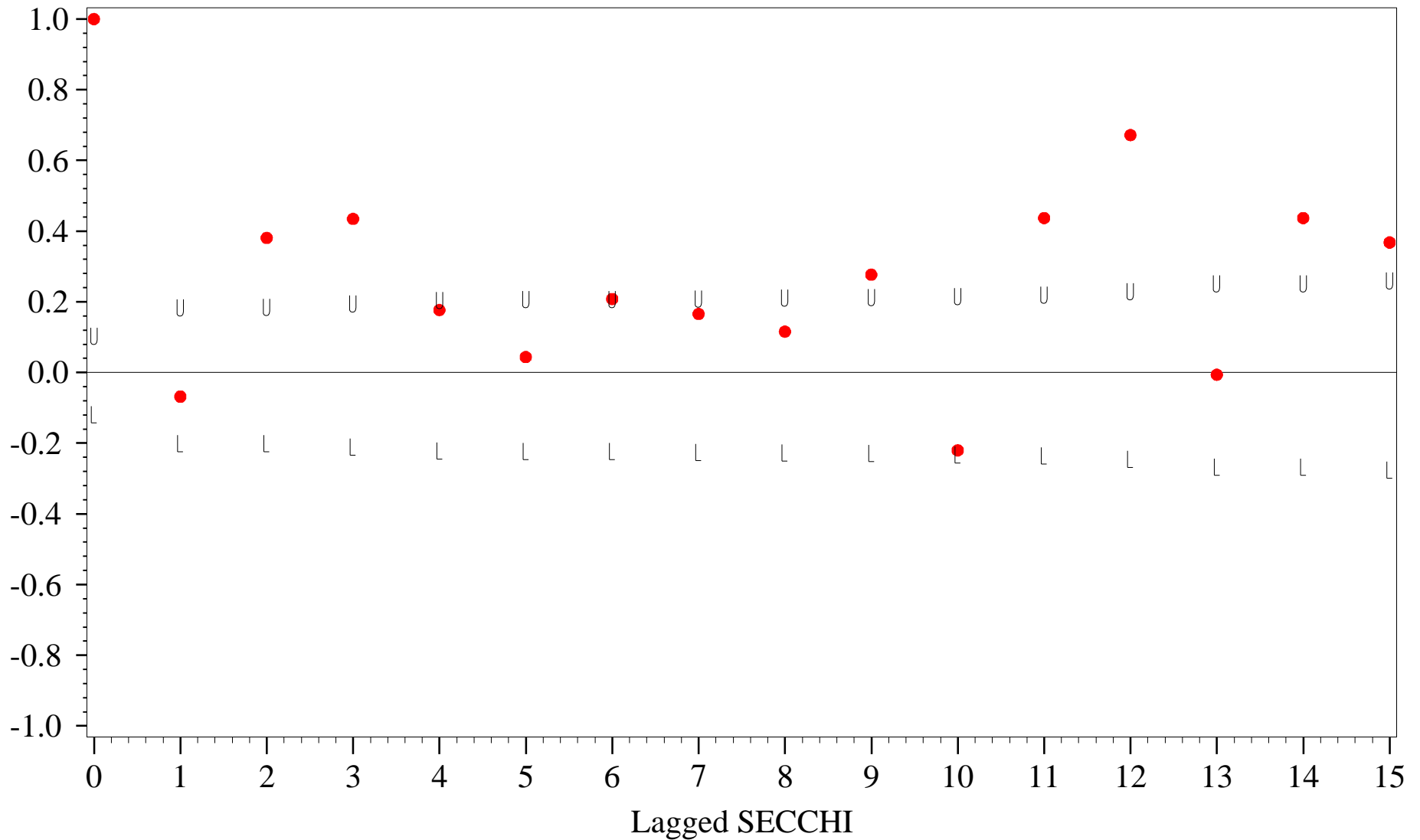
Adjusted for Seasonal Median and Detrended

Lagged SECCHI	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	-0.068	0.096	0.192	-0.192
2	0.381	0.096	0.193	-0.193
3	0.435	0.101	0.202	-0.202
4	0.177	0.107	0.213	-0.213
5	0.044	0.107	0.215	-0.215
6	0.208	0.108	0.215	-0.215
7	0.166	0.109	0.217	-0.217
8	0.116	0.110	0.219	-0.219
9	0.277	0.110	0.220	-0.220
10	-0.220	0.112	0.224	-0.224
11	0.437	0.113	0.227	-0.227
12	0.672	0.118	0.237	-0.237
13	-0.006	0.130	0.259	-0.259
14	0.437	0.130	0.259	-0.259
15	0.368	0.134	0.268	-0.268

Horse Creek Trends Appendix - Display 72
Correlogram for Column Secchi Disk Depth at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

Correlation



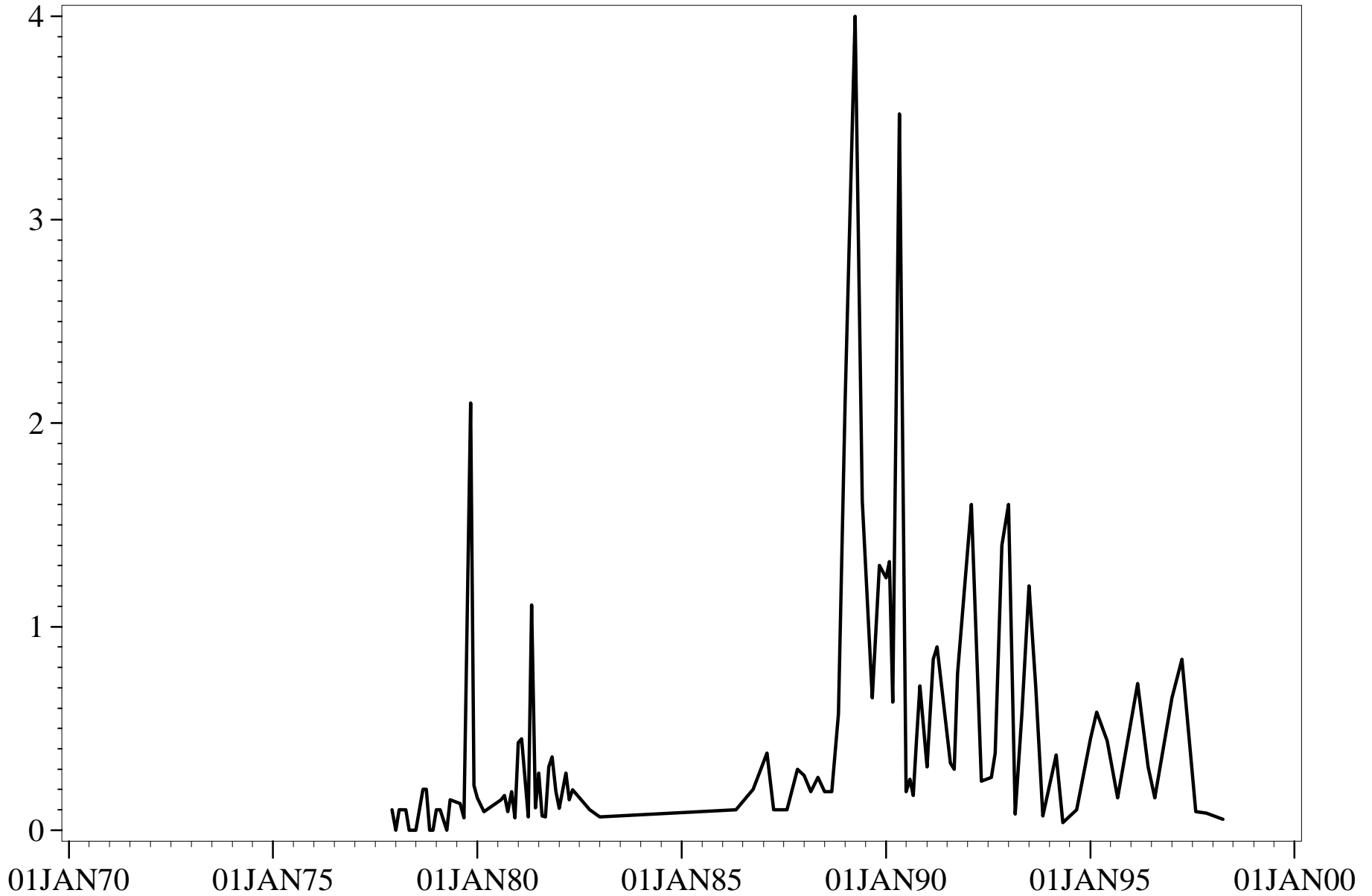
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 73

Monthly Data Time Series

Nitrate+Nitrite N
(mg/L)

for Surface Nitrate+Nitrite N at FDEP Station 25020111
Unadjusted for Seasonal Medians

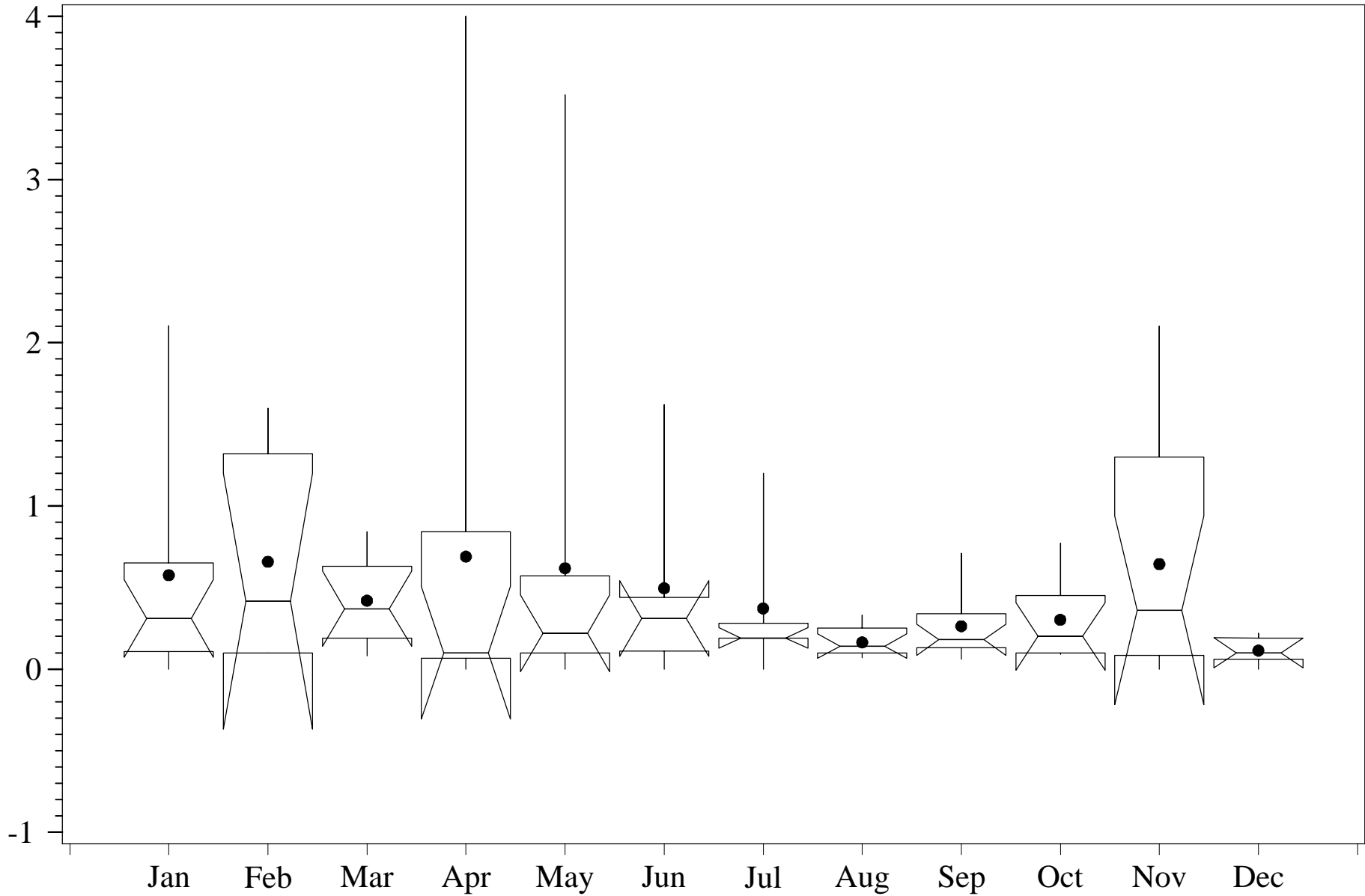


Horse Creek Trends Appendix - Display 74

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite N at FDEP Station 25020111

Nitrate+Nitrite N
(mg/L)



Horse Creek Trends Appendix - Display 75

Autocorrelation Statistics for Surface Nitrate+Nitrite N at FDEP Station 25020111

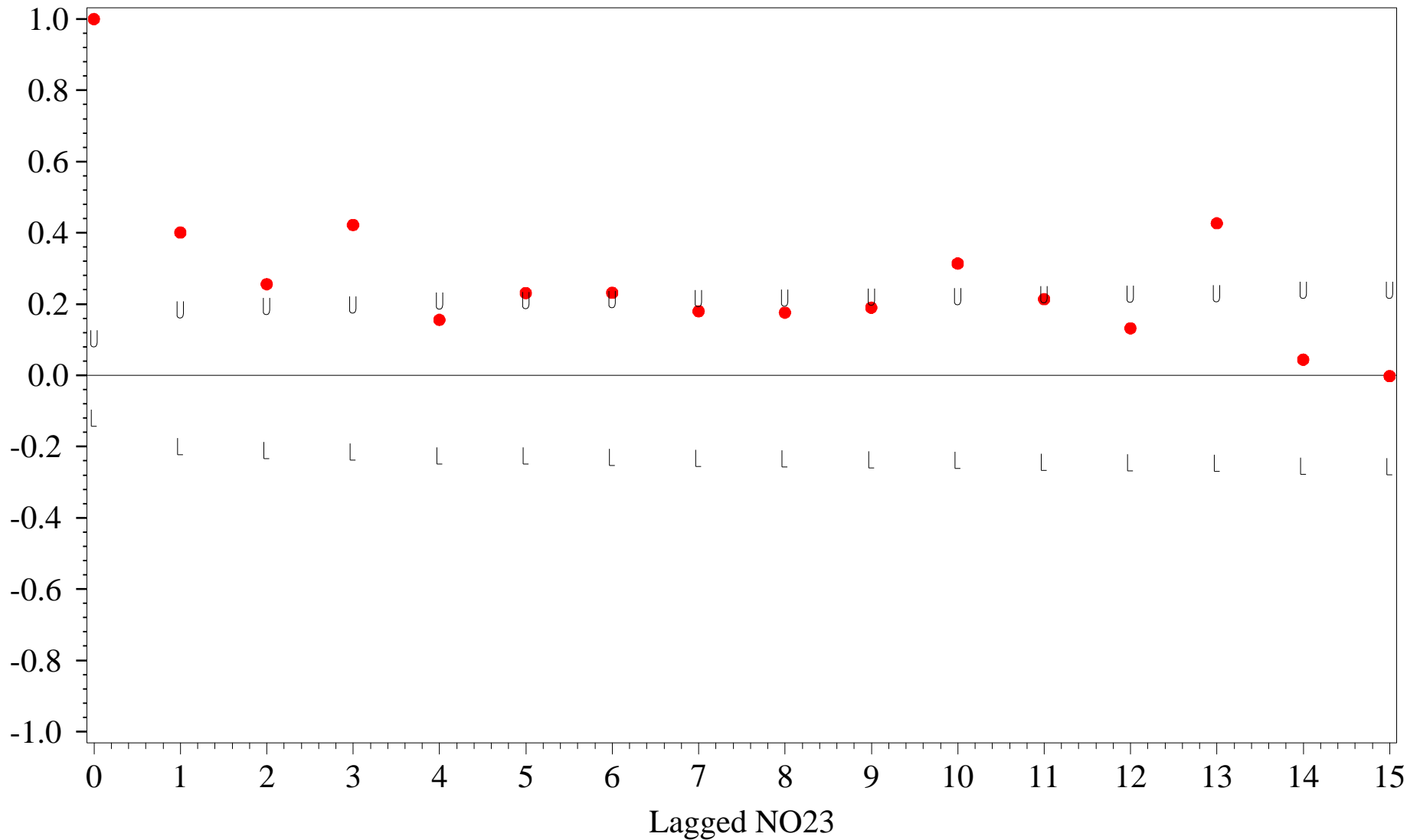
Unadjusted for Seasonal Medians

Lagged NO23	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.401	0.096	0.192	-0.192
2	0.256	0.101	0.202	-0.202
3	0.422	0.103	0.206	-0.206
4	0.156	0.108	0.217	-0.217
5	0.231	0.109	0.218	-0.218
6	0.232	0.111	0.221	-0.221
7	0.180	0.112	0.224	-0.224
8	0.176	0.113	0.226	-0.226
9	0.190	0.114	0.228	-0.228
10	0.314	0.115	0.230	-0.230
11	0.214	0.117	0.235	-0.235
12	0.132	0.119	0.237	-0.237
13	0.427	0.119	0.238	-0.238
14	0.044	0.124	0.247	-0.247
15	-0.002	0.124	0.248	-0.248

Horse Creek Trends Appendix - Display 76
Correlogram for Surface Nitrate+Nitrite N at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 77

Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite N at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.321	0	0.017	0.018

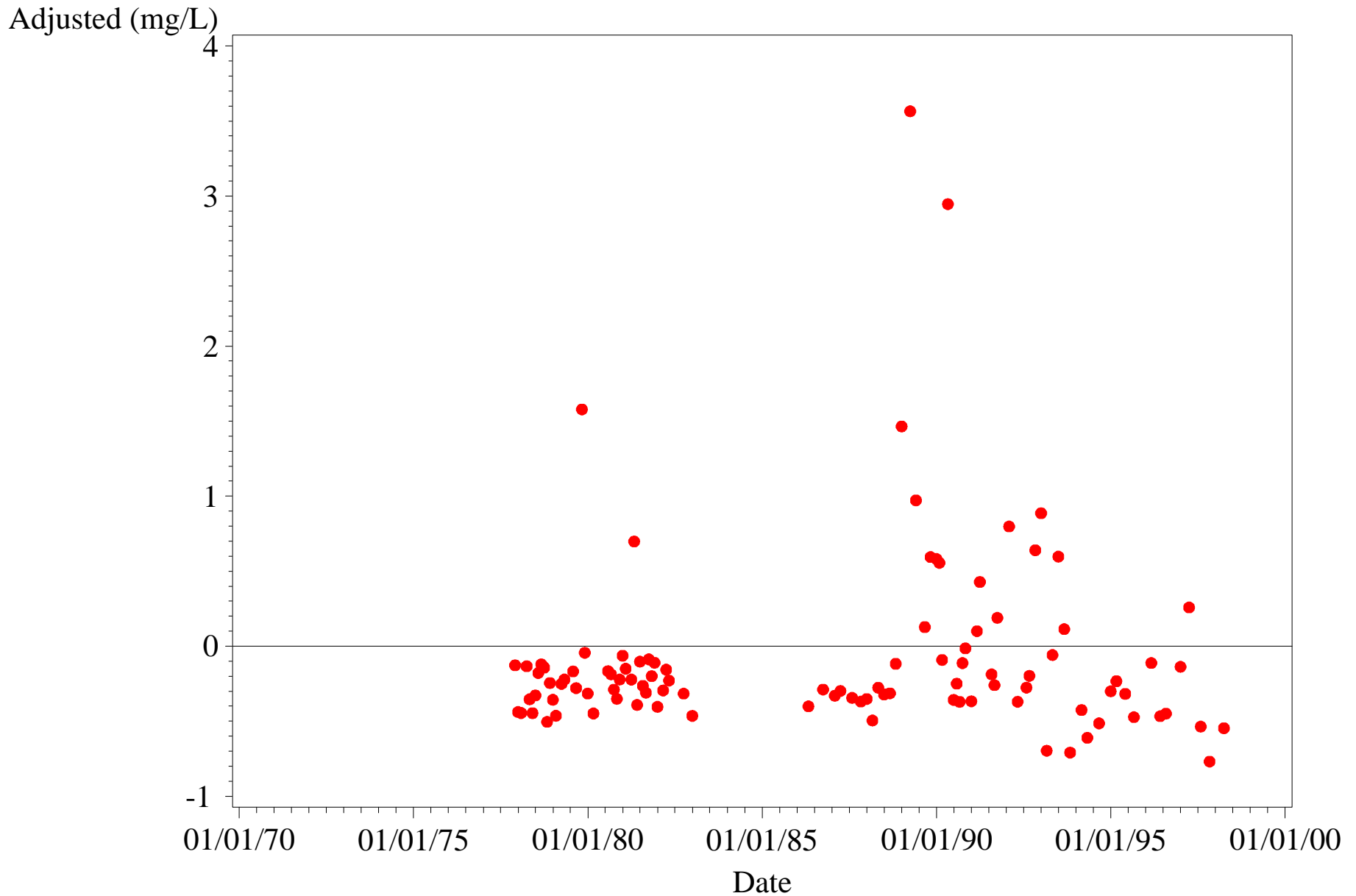
Horse Creek Trends Appendix - Display 78

Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite N at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.32084	.000084877	0.016989	0.018333

Horse Creek Trends Appendix - Display 79
Time Series Plot of Surface Nitrate+Nitrite N Data Adjusted for Season and Detrended
at FDEP Station 25020111



Zero Reference Line Shown

Horse Creek Trends Appendix - Display 80

Autocorrelation Statistics for Surface Nitrate+Nitrite N at FDEP Station 25020111

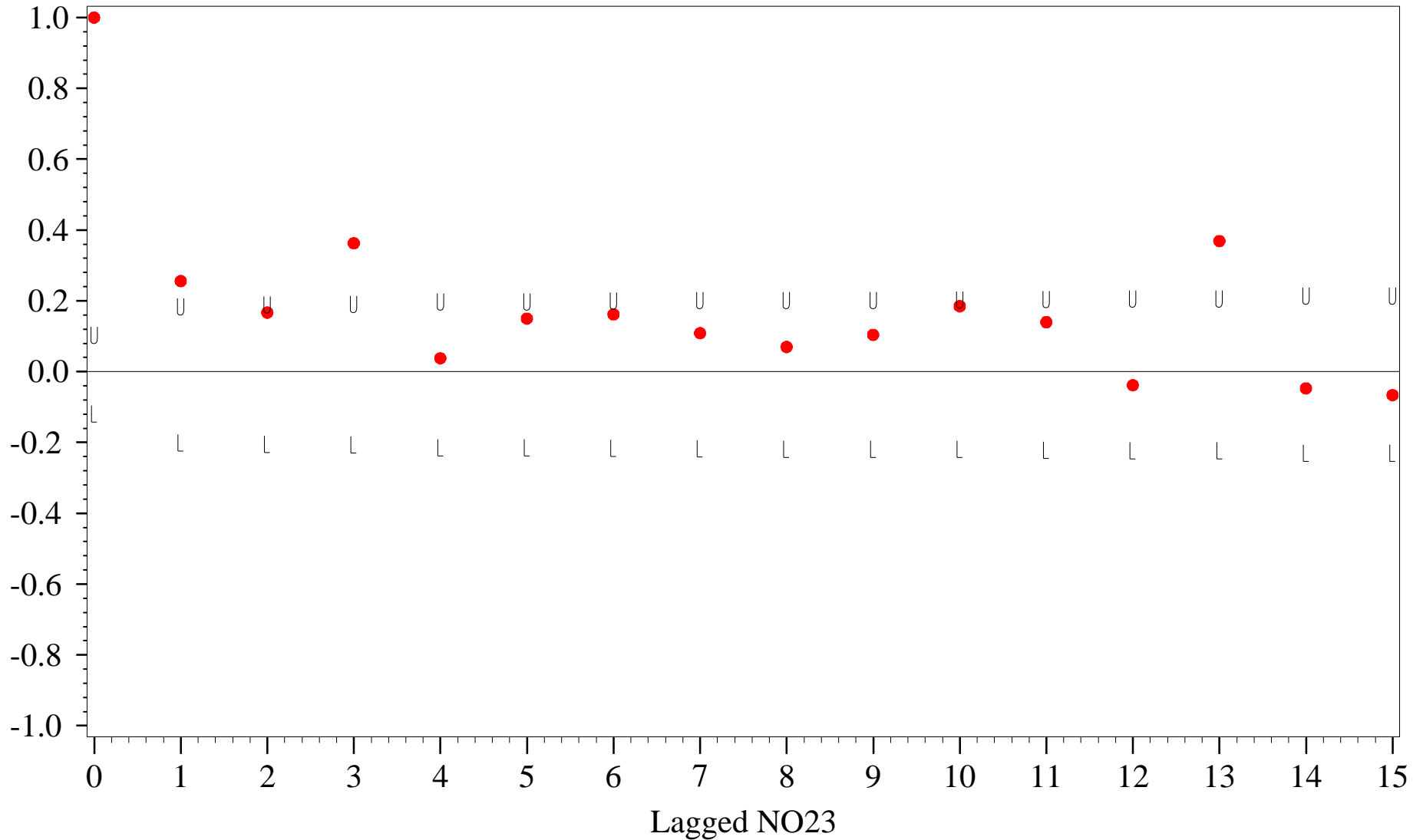
Adjusted for Seasonal Median and Detrended

Lagged NO23	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.256	0.096	0.192	-0.192
2	0.167	0.098	0.197	-0.197
3	0.363	0.099	0.198	-0.198
4	0.038	0.103	0.206	-0.206
5	0.150	0.103	0.206	-0.206
6	0.162	0.104	0.208	-0.208
7	0.109	0.105	0.209	-0.209
8	0.070	0.105	0.210	-0.210
9	0.104	0.105	0.210	-0.210
10	0.185	0.105	0.211	-0.211
11	0.140	0.106	0.213	-0.213
12	-0.038	0.107	0.214	-0.214
13	0.369	0.107	0.214	-0.214
14	-0.047	0.111	0.222	-0.222
15	-0.066	0.111	0.222	-0.222

Horse Creek Trends Appendix - Display 81
Correlogram for Surface Nitrate+Nitrite N at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

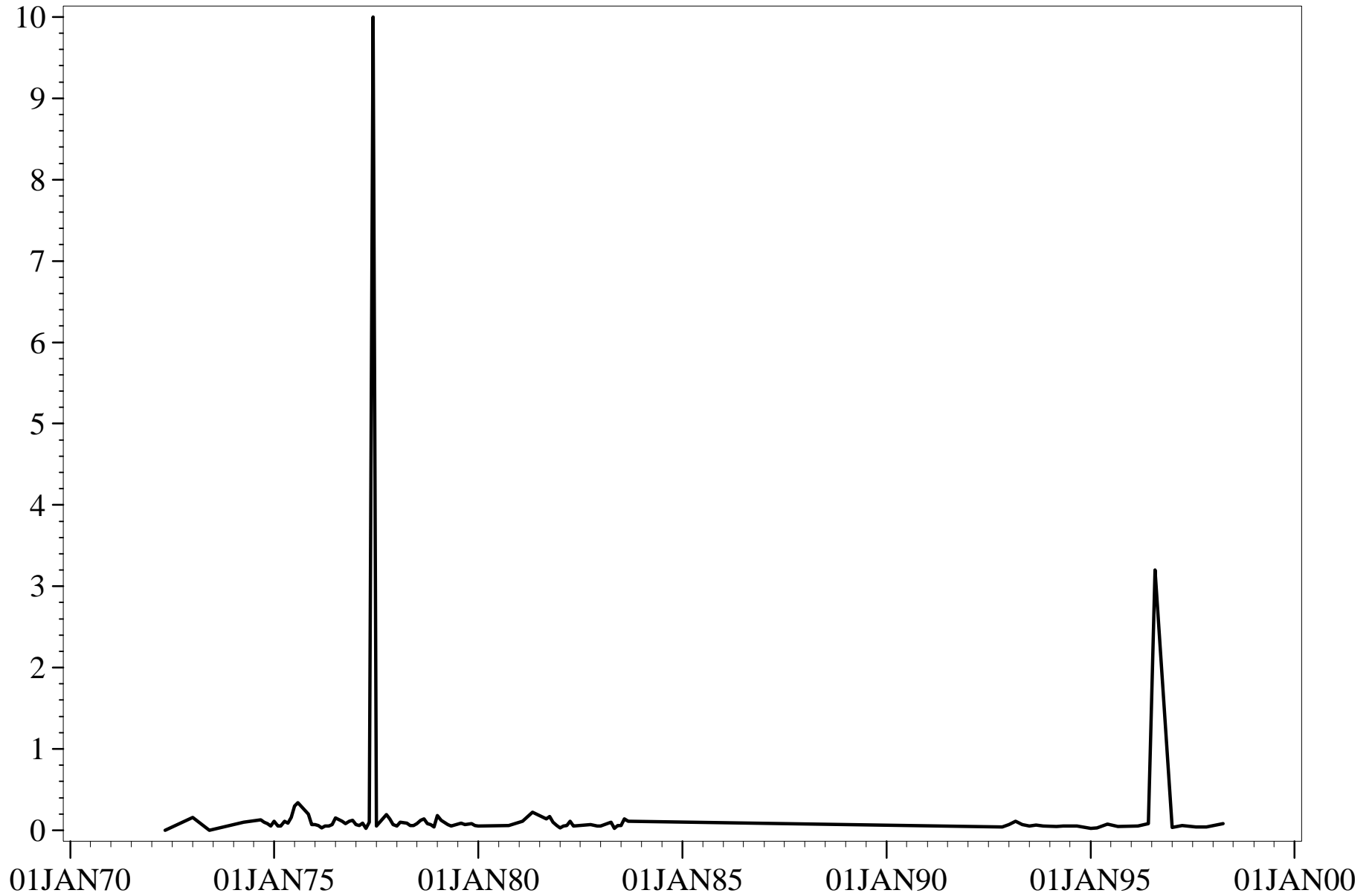
Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

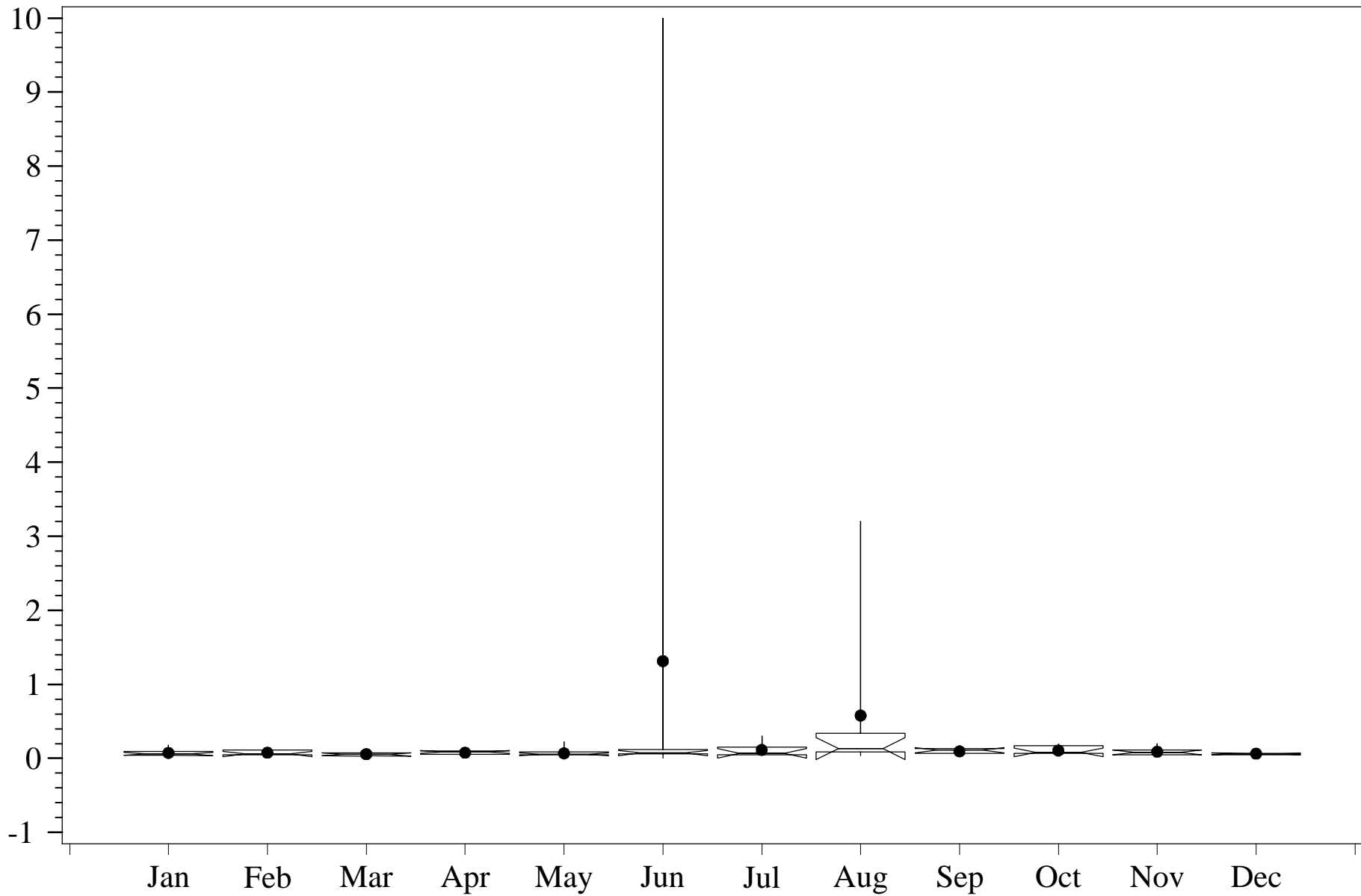
Horse Creek Trends Appendix - Display 82
Monthly Data Time Series
for Surface Ammonia N at FDEP Station 25020111
Unadjusted for Seasonal Medians

Ammonia N
(mg/L)



Horse Creek Trends Appendix - Display 83
Seasonal Univariate Statistics
for Surface Ammonia N at FDEP Station 25020111

Ammonia N
(mg/L)



Horse Creek Trends Appendix - Display 84

Autocorrelation Statistics for Surface Ammonia N at FDEP Station 25020111

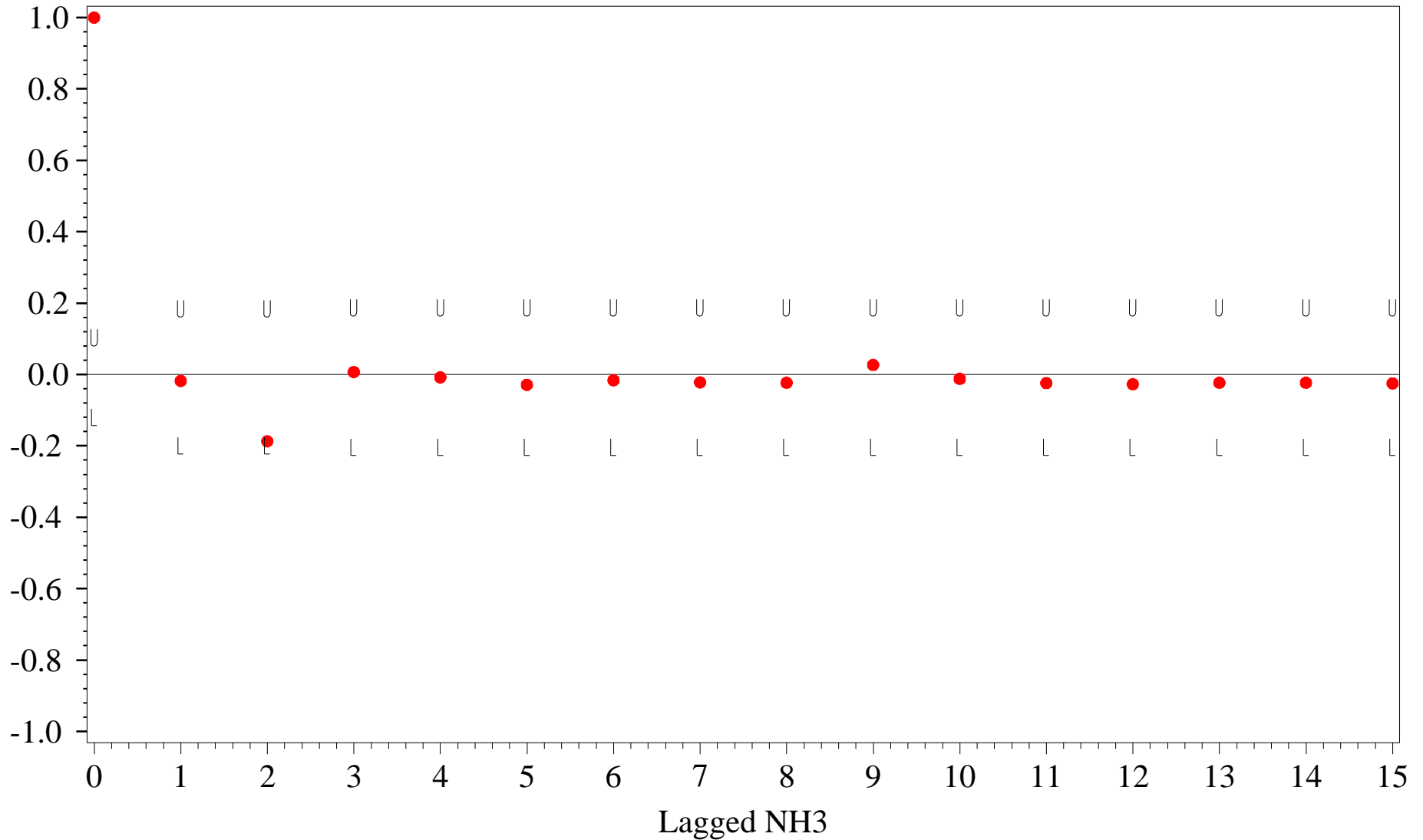
Unadjusted for Seasonal Medians

Lagged NH3	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	-0.018	0.096	0.192	-0.192
2	-0.187	0.096	0.192	-0.192
3	0.007	0.097	0.195	-0.195
4	-0.008	0.097	0.195	-0.195
5	-0.029	0.097	0.195	-0.195
6	-0.016	0.097	0.195	-0.195
7	-0.022	0.097	0.195	-0.195
8	-0.023	0.097	0.195	-0.195
9	0.027	0.097	0.195	-0.195
10	-0.012	0.097	0.195	-0.195
11	-0.024	0.097	0.195	-0.195
12	-0.027	0.097	0.195	-0.195
13	-0.023	0.097	0.195	-0.195
14	-0.023	0.098	0.195	-0.195
15	-0.025	0.098	0.195	-0.195

Horse Creek Trends Appendix - Display 85
Correlogram for Surface Ammonia N at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 86

Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia N at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.237	.003	0.029	-.002

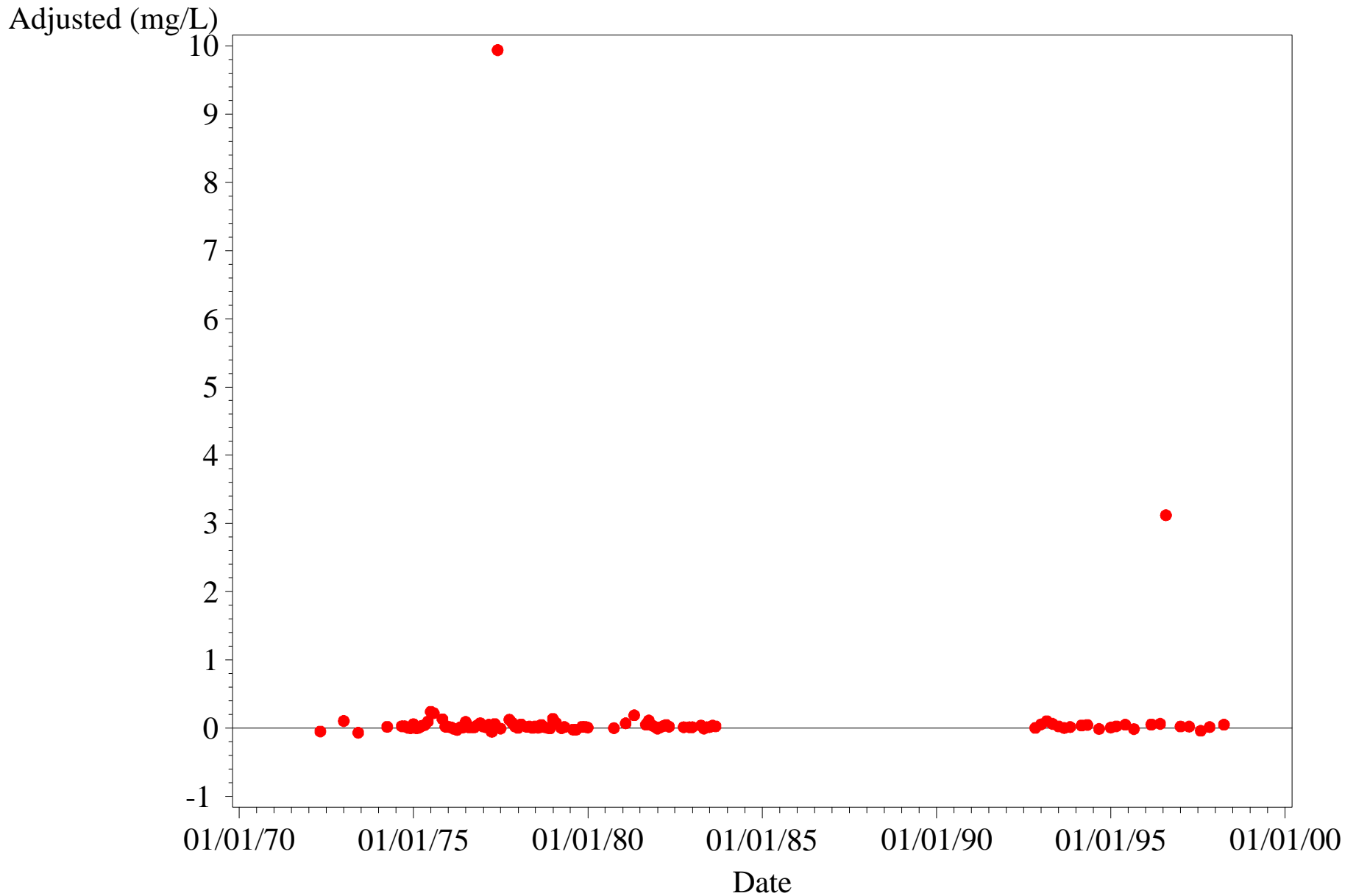
Horse Creek Trends Appendix - Display 87

Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia N at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.23716	.00312991	0.028529	-.002

Horse Creek Trends Appendix - Display 88
Time Series Plot of Surface Ammonia N Data Adjusted for Season and Detrended
at FDEP Station 25020111



Horse Creek Trends Appendix - Display 89

Autocorrelation Statistics for Surface Ammonia N at FDEP Station 25020111

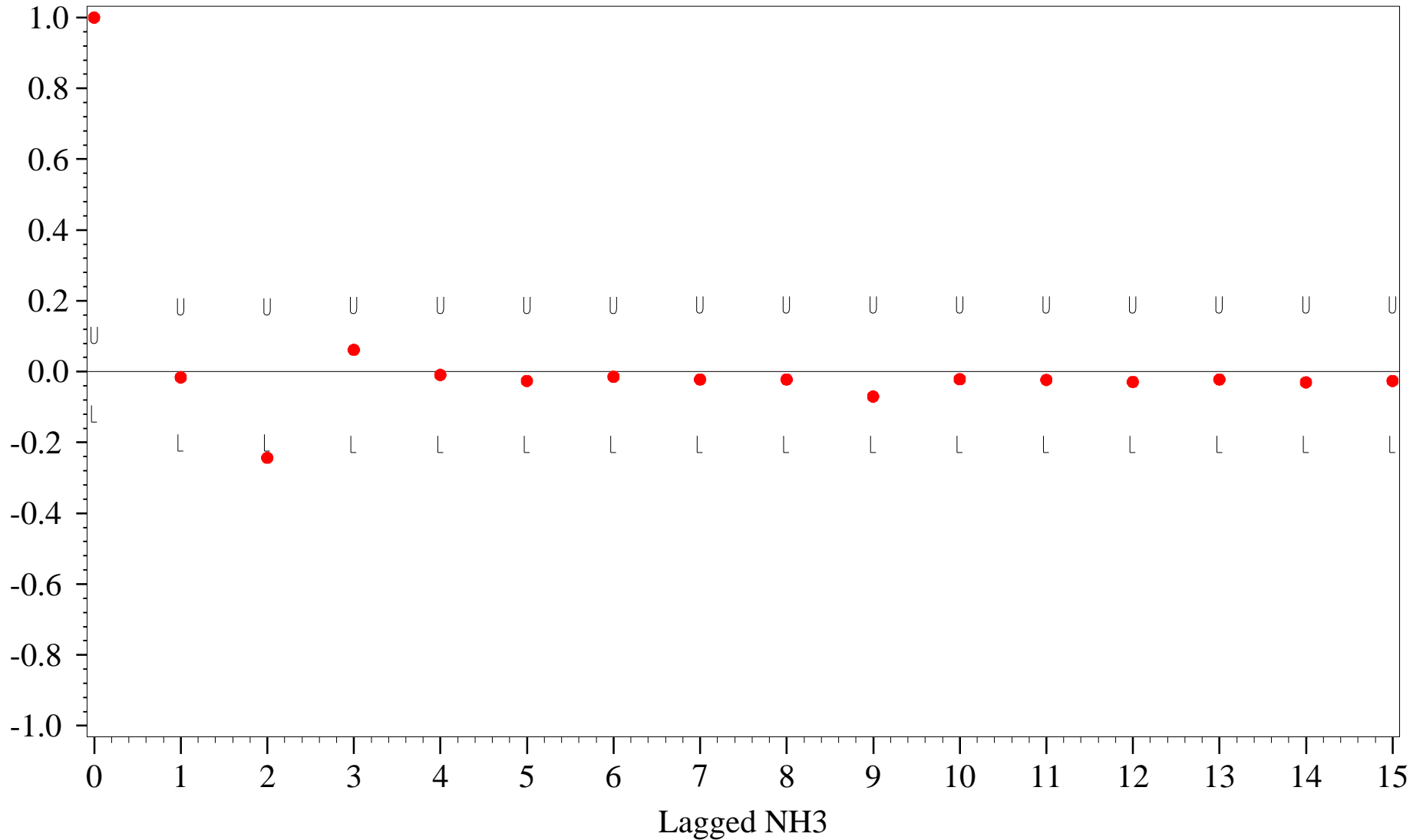
Adjusted for Seasonal Median and Detrended

Lagged NH3	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	-0.016	0.096	0.192	-0.192
2	-0.243	0.096	0.192	-0.192
3	0.062	0.098	0.196	-0.196
4	-0.009	0.098	0.196	-0.196
5	-0.026	0.098	0.196	-0.196
6	-0.014	0.098	0.196	-0.196
7	-0.022	0.098	0.197	-0.197
8	-0.022	0.098	0.197	-0.197
9	-0.070	0.098	0.197	-0.197
10	-0.021	0.098	0.197	-0.197
11	-0.023	0.098	0.197	-0.197
12	-0.029	0.098	0.197	-0.197
13	-0.022	0.098	0.197	-0.197
14	-0.030	0.099	0.197	-0.197
15	-0.026	0.099	0.197	-0.197

Horse Creek Trends Appendix - Display 90
Correlogram for Surface Ammonia N at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

Correlation

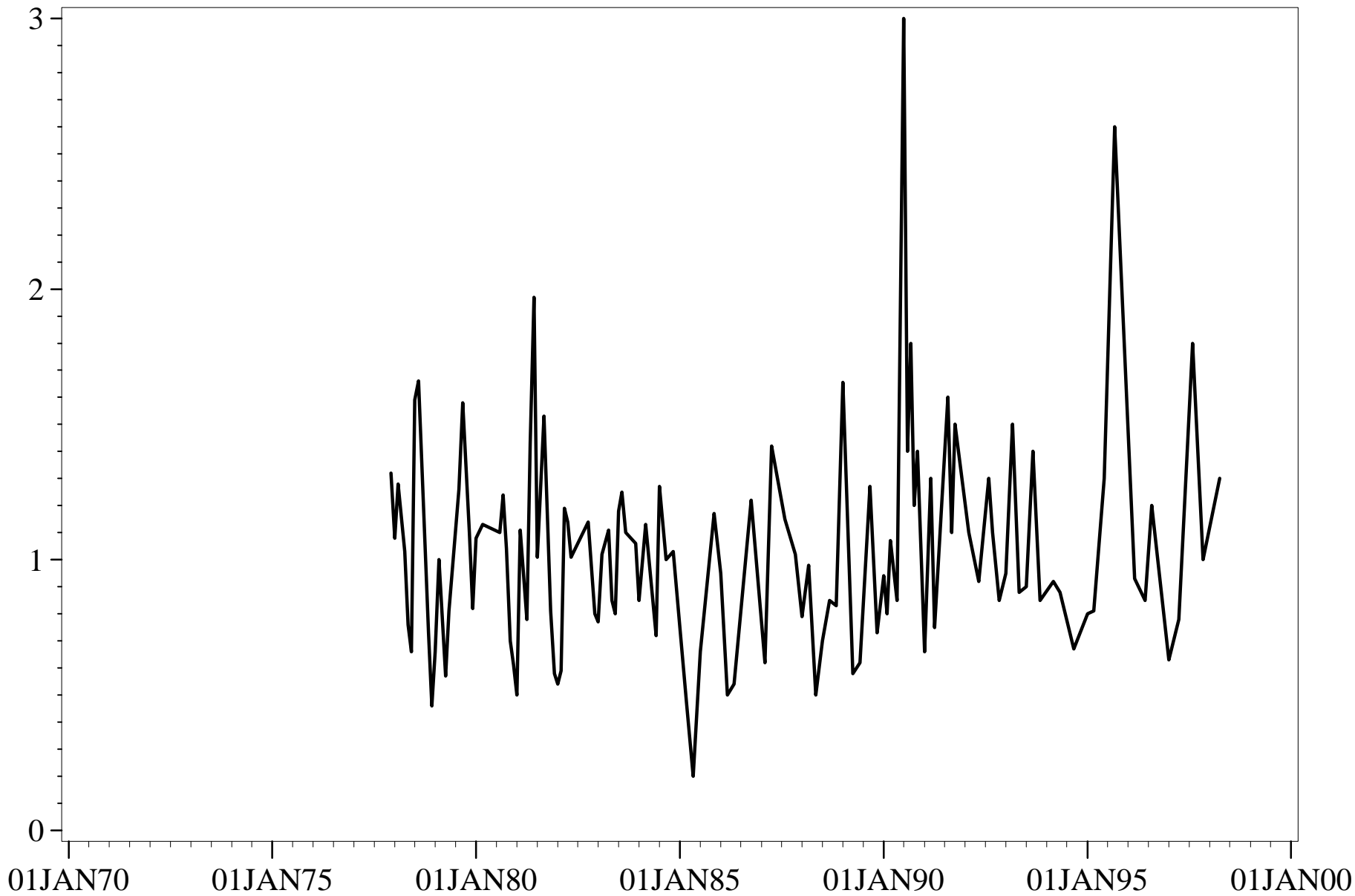


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 91

Monthly Data Time Series

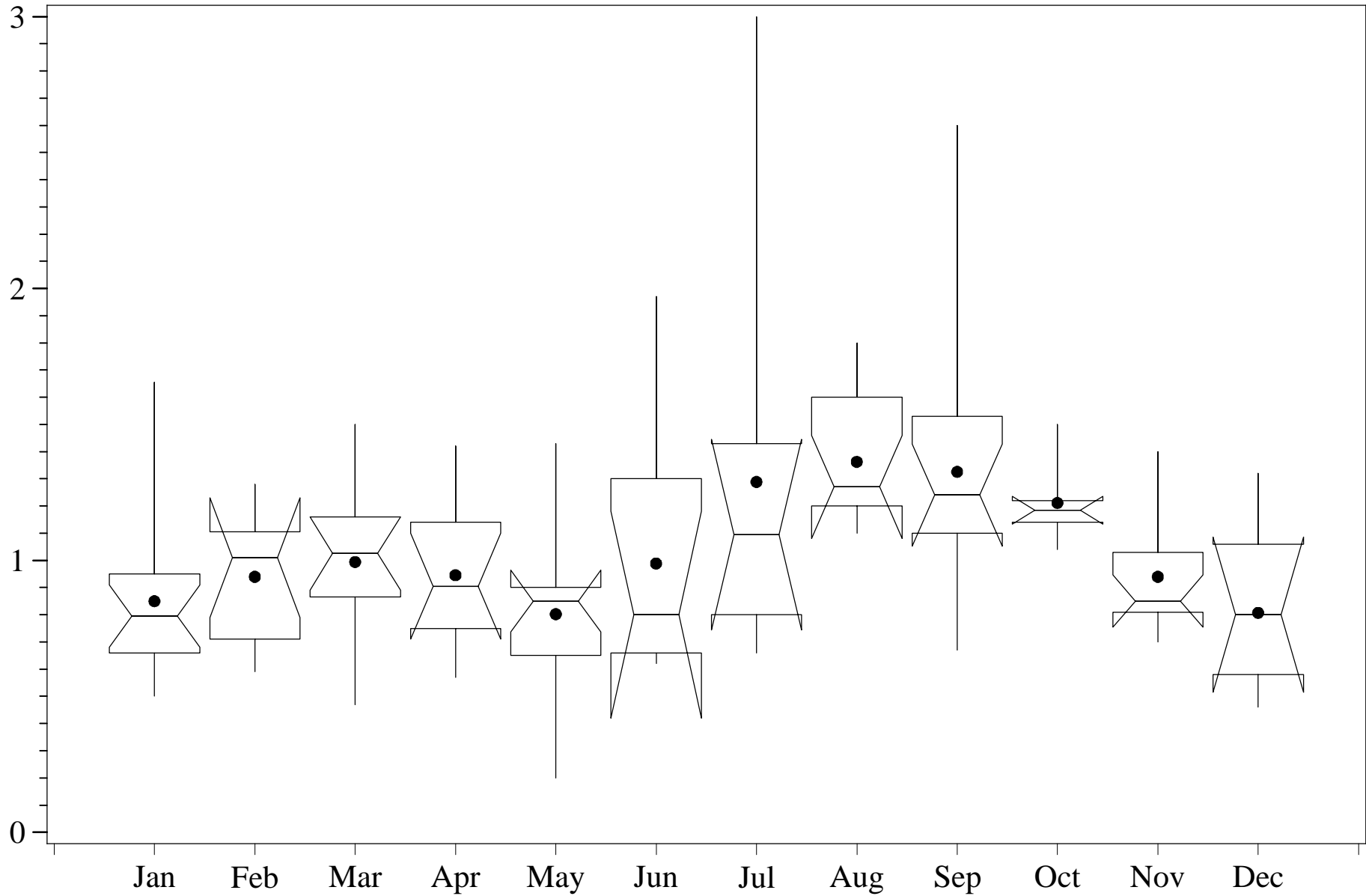
Total Kjeldahl Nitrogen for Surface Total Kjeldahl Nitrogen at FDEP Station 25020111
(mg/L) Unadjusted for Seasonal Medians



Horse Creek Trends Appendix - Display 92

Seasonal Univariate Statistics

Total Kjeldahl Nitrogen for Surface Total Kjeldahl Nitrogen at FDEP Station 25020111
(mg/L)



Horse Creek Trends Appendix - Display 93

Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen at FDEP Station 25020111

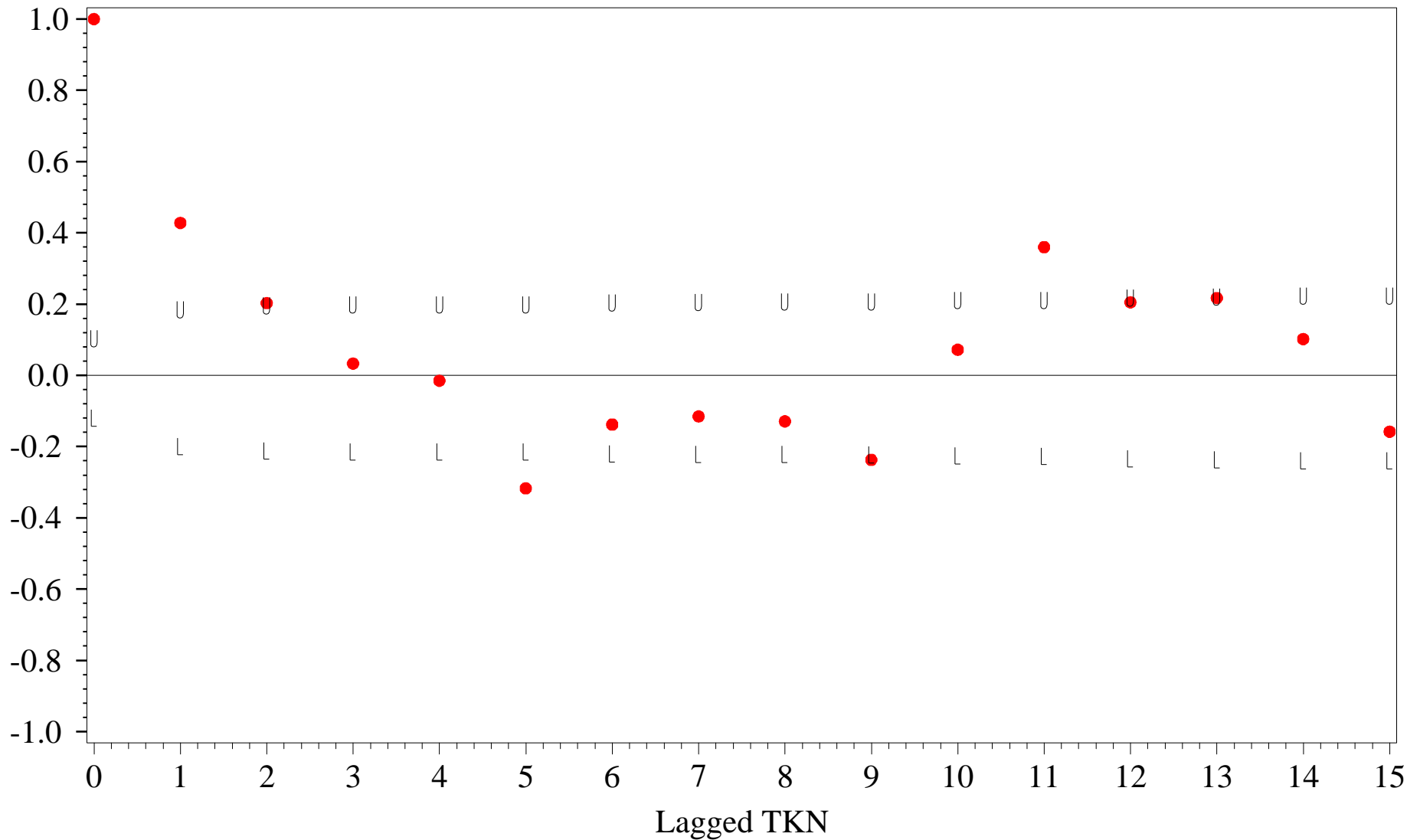
Unadjusted for Seasonal Medians

Lagged TKN	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.428	0.096	0.192	-0.192
2	0.203	0.102	0.204	-0.204
3	0.033	0.103	0.206	-0.206
4	-0.015	0.103	0.206	-0.206
5	-0.317	0.103	0.206	-0.206
6	-0.138	0.106	0.212	-0.212
7	-0.115	0.107	0.213	-0.213
8	-0.129	0.107	0.214	-0.214
9	-0.237	0.108	0.215	-0.215
10	0.072	0.109	0.218	-0.218
11	0.360	0.109	0.219	-0.219
12	0.205	0.113	0.226	-0.226
13	0.217	0.114	0.228	-0.228
14	0.102	0.115	0.231	-0.231
15	-0.158	0.116	0.231	-0.231

Horse Creek Trends Appendix - Display 94
Correlogram for Surface Total Kjeldahl Nitrogen at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 95

Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.05	0.5	0.451	.003

Horse Creek Trends Appendix - Display 96

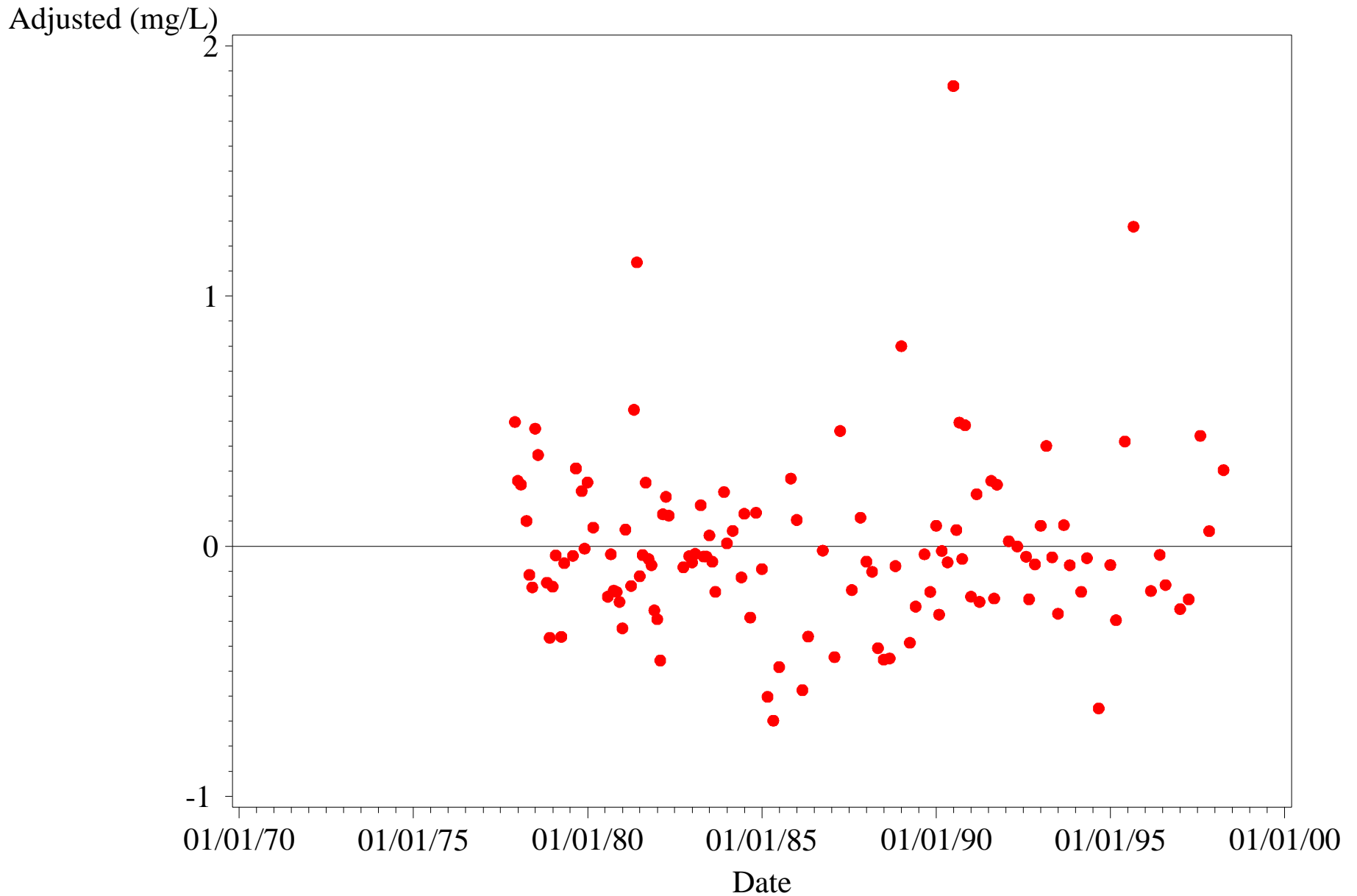
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.049920	0.50029	0.45074	.00333333

Horse Creek Trends Appendix - Display 97

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended at FDEP Station 25020111



Zero Reference Line Shown

Horse Creek Trends Appendix - Display 98

Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen at FDEP Station 25020111

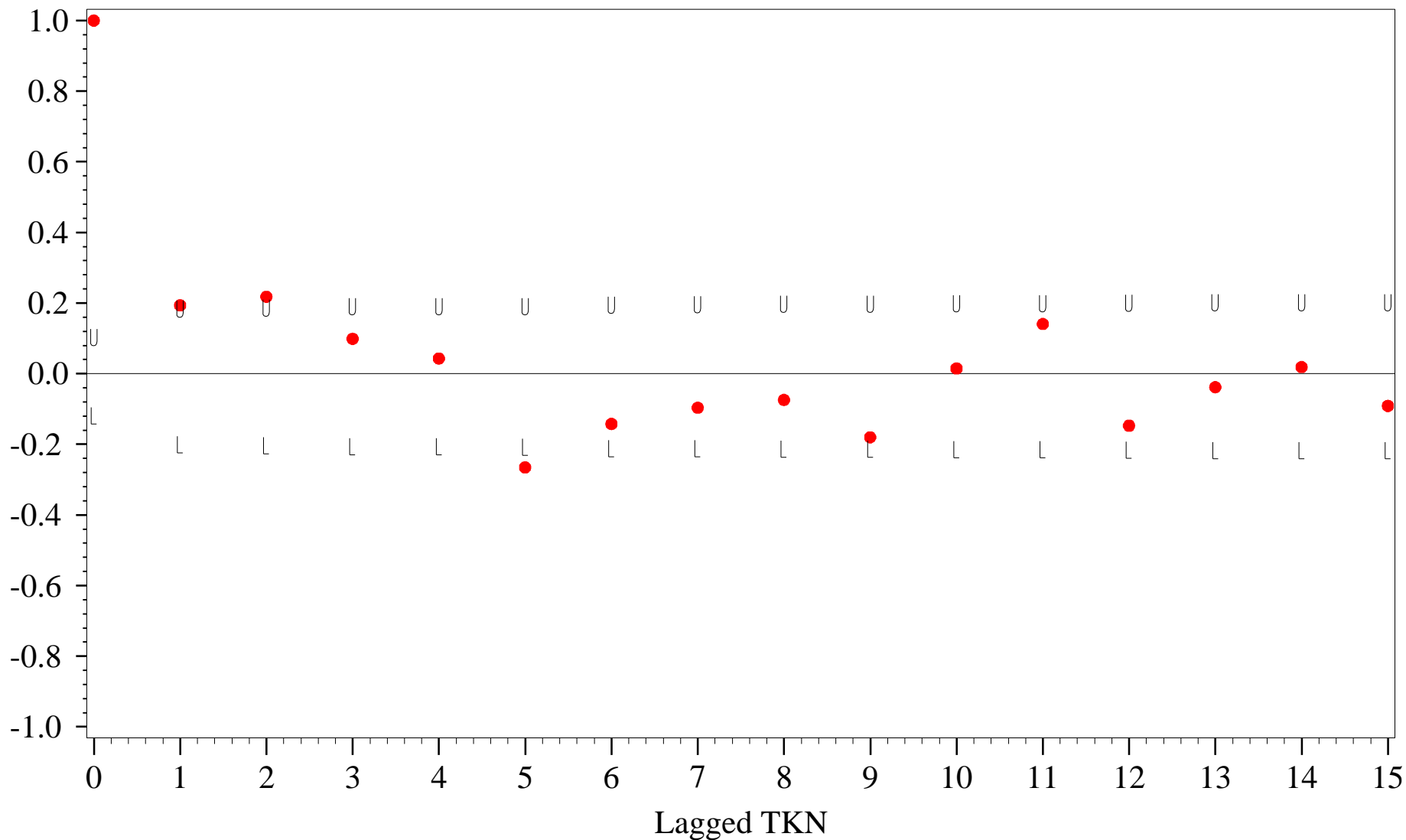
Adjusted for Seasonal Median and Detrended

Lagged TKN	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.194	0.096	0.192	-0.192
2	0.218	0.097	0.195	-0.195
3	0.099	0.099	0.198	-0.198
4	0.043	0.099	0.198	-0.198
5	-0.265	0.099	0.199	-0.199
6	-0.142	0.101	0.203	-0.203
7	-0.096	0.102	0.204	-0.204
8	-0.074	0.102	0.205	-0.205
9	-0.180	0.102	0.205	-0.205
10	0.015	0.103	0.207	-0.207
11	0.141	0.103	0.207	-0.207
12	-0.147	0.104	0.208	-0.208
13	-0.038	0.105	0.209	-0.209
14	0.019	0.105	0.209	-0.209
15	-0.091	0.105	0.209	-0.209

Horse Creek Trends Appendix - Display 99
Correlogram for Surface Total Kjeldahl Nitrogen at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

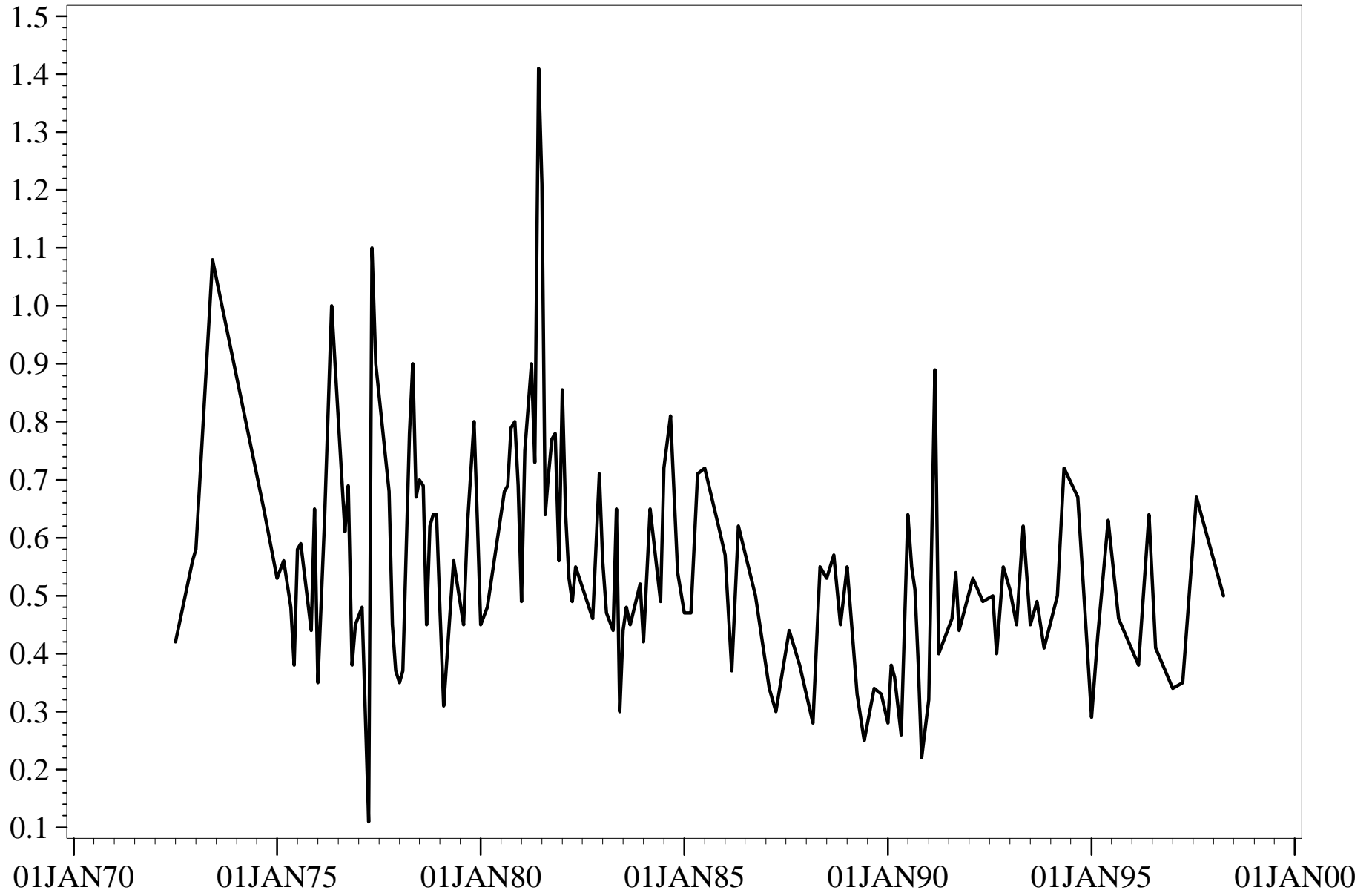
Horse Creek Trends Appendix - Display 100

Monthly Data Time Series

for Surface Total Phosphorous at FDEP Station 25020111

Unadjusted for Seasonal Medians

Total Phosphorous
(mg/L)

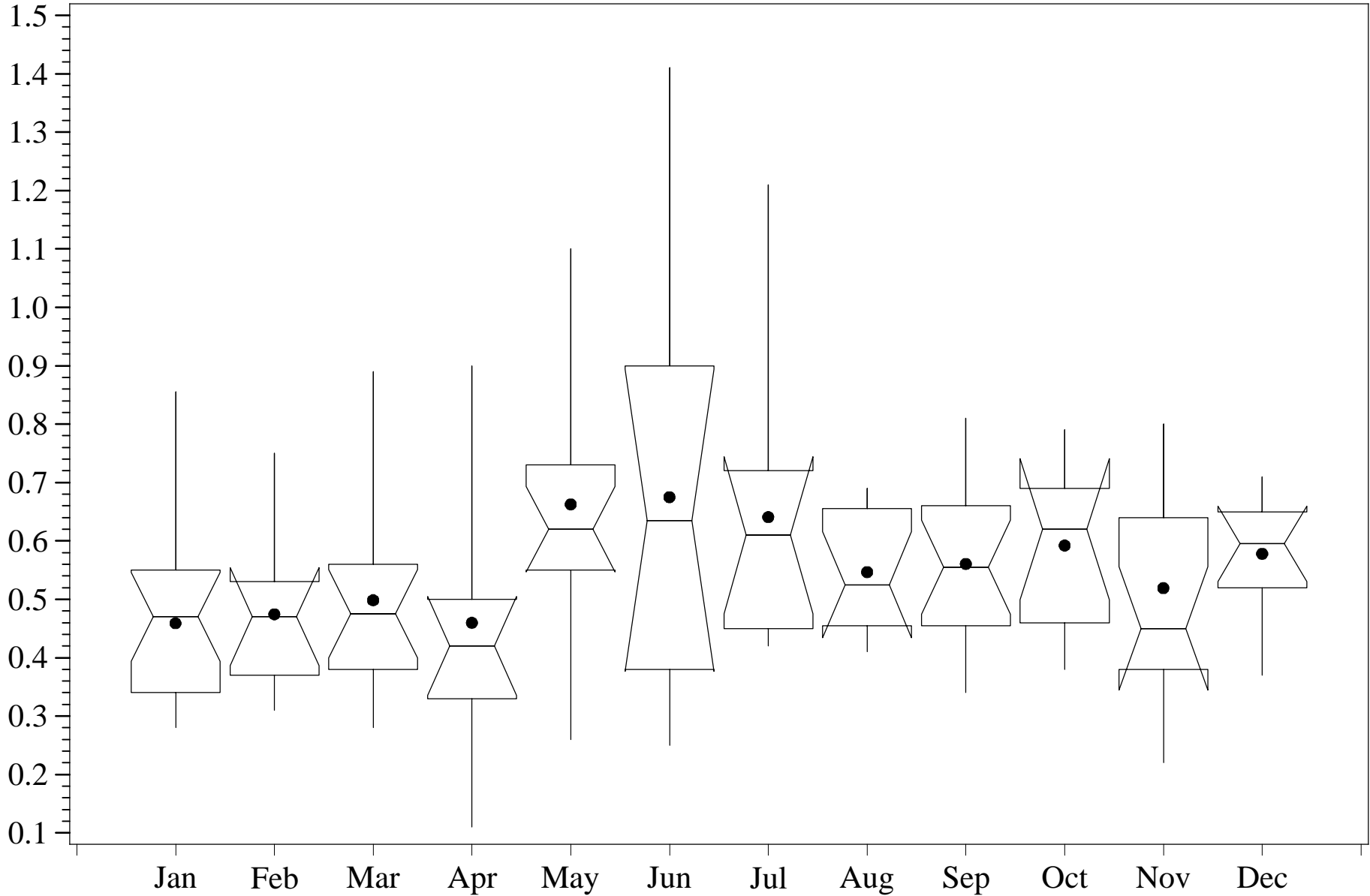


Horse Creek Trends Appendix - Display 101

Seasonal Univariate Statistics

for Surface Total Phosphorous at FDEP Station 25020111

Total Phosphorous
(mg/L)



Horse Creek Trends Appendix - Display 102

Autocorrelation Statistics for Surface Total Phosphorous at FDEP Station 25020111

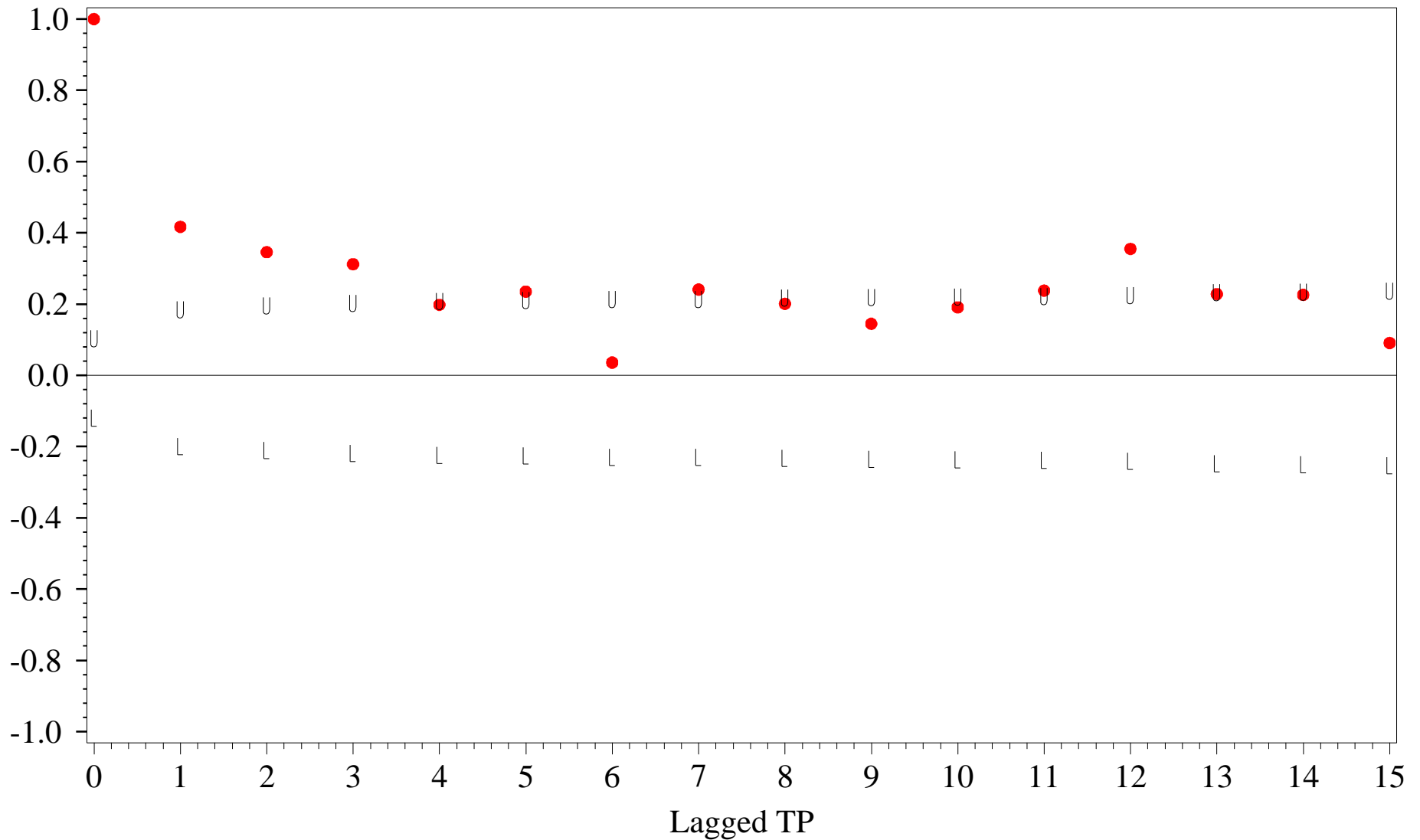
Unadjusted for Seasonal Medians

Lagged TP	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.417	0.096	0.192	-0.192
2	0.346	0.102	0.203	-0.203
3	0.312	0.105	0.210	-0.210
4	0.198	0.108	0.216	-0.216
5	0.235	0.109	0.218	-0.218
6	0.036	0.111	0.221	-0.221
7	0.241	0.111	0.221	-0.221
8	0.201	0.112	0.225	-0.225
9	0.145	0.113	0.227	-0.227
10	0.191	0.114	0.228	-0.228
11	0.238	0.115	0.230	-0.230
12	0.355	0.117	0.233	-0.233
13	0.228	0.120	0.240	-0.240
14	0.226	0.121	0.242	-0.242
15	0.091	0.122	0.245	-0.245

Horse Creek Trends Appendix - Display 103
Correlogram for Surface Total Phosphorous at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 104

Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.219	.001	0.024	-.008

Horse Creek Trends Appendix - Display 105

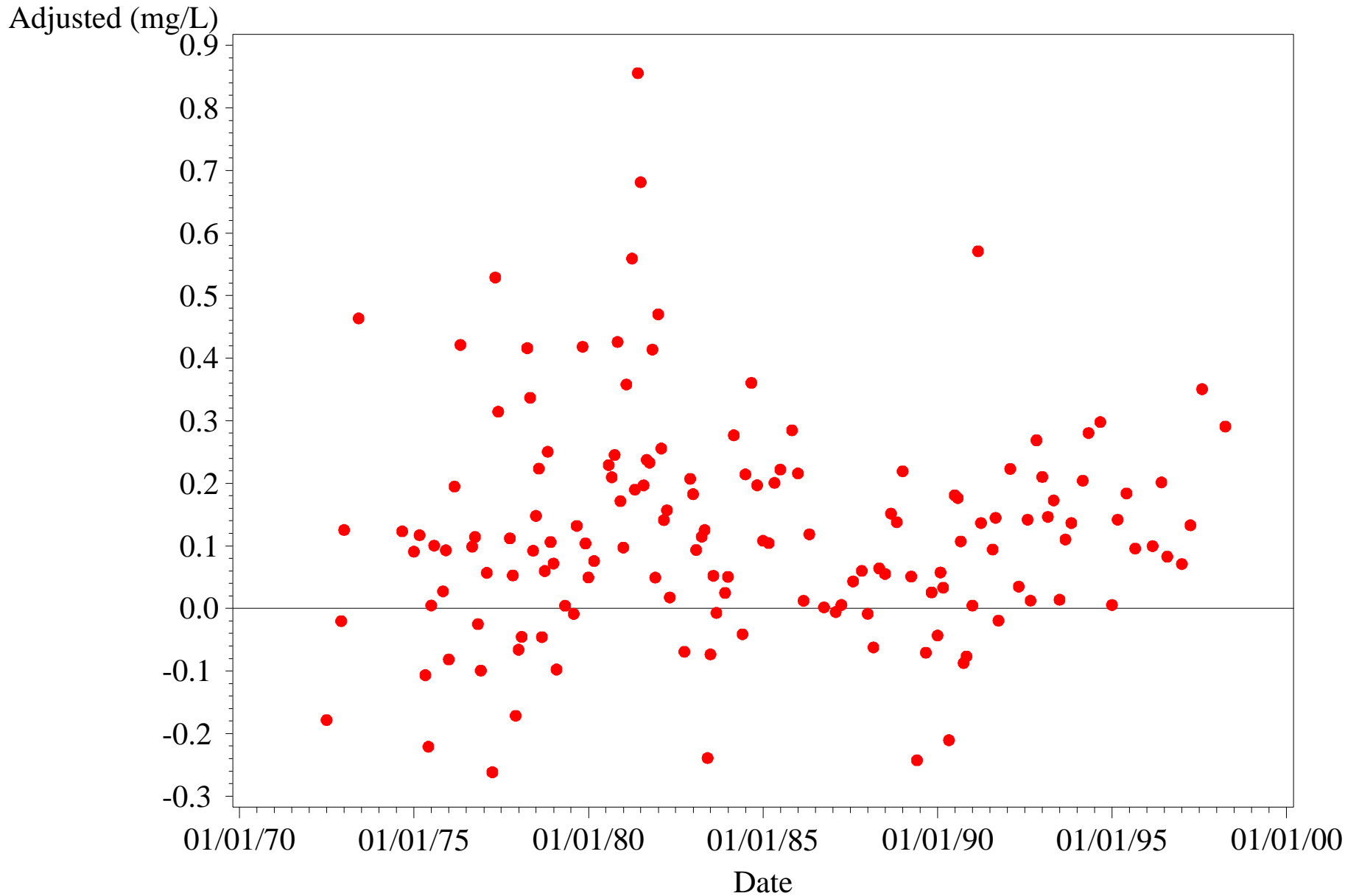
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.21868	.000622297	0.024372	-.00773504

Horse Creek Trends Appendix - Display 106

Time Series Plot of Surface Total Phosphorous Data Adjusted for Season and Detrended at FDEP Station 25020111



Zero Reference Line Shown

Horse Creek Trends Appendix - Display 107

Autocorrelation Statistics for Surface Total Phosphorous at FDEP Station 25020111

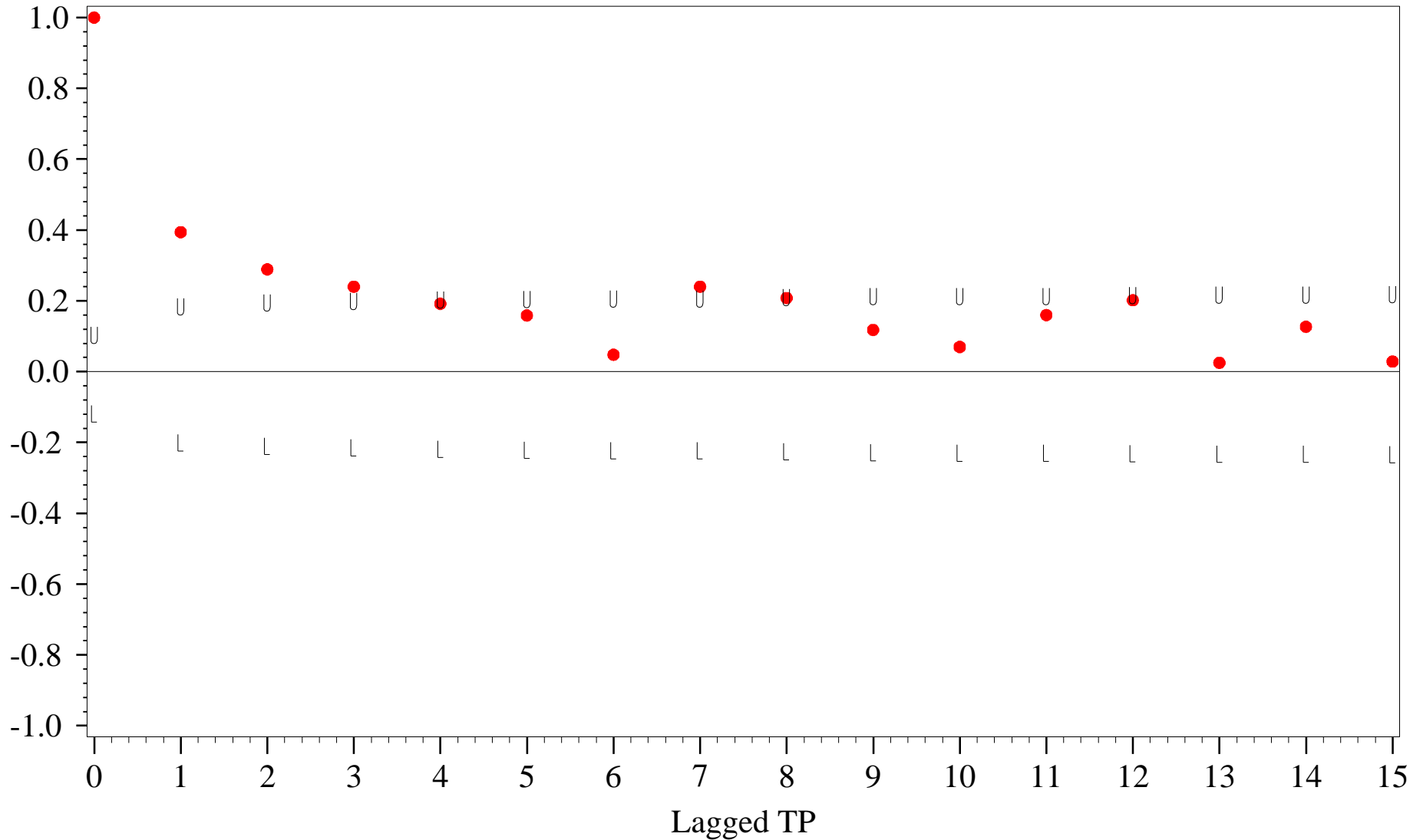
Adjusted for Seasonal Median and Detrended

Lagged TP	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.394	0.096	0.192	-0.192
2	0.289	0.101	0.202	-0.202
3	0.240	0.104	0.207	-0.207
4	0.192	0.105	0.211	-0.211
5	0.159	0.106	0.213	-0.213
6	0.048	0.107	0.214	-0.214
7	0.240	0.107	0.214	-0.214
8	0.208	0.109	0.218	-0.218
9	0.118	0.110	0.220	-0.220
10	0.070	0.110	0.221	-0.221
11	0.160	0.111	0.221	-0.221
12	0.202	0.111	0.223	-0.223
13	0.025	0.112	0.225	-0.225
14	0.127	0.112	0.225	-0.225
15	0.029	0.113	0.226	-0.226

Horse Creek Trends Appendix - Display 108
Correlogram for Surface Total Phosphorous at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

Correlation

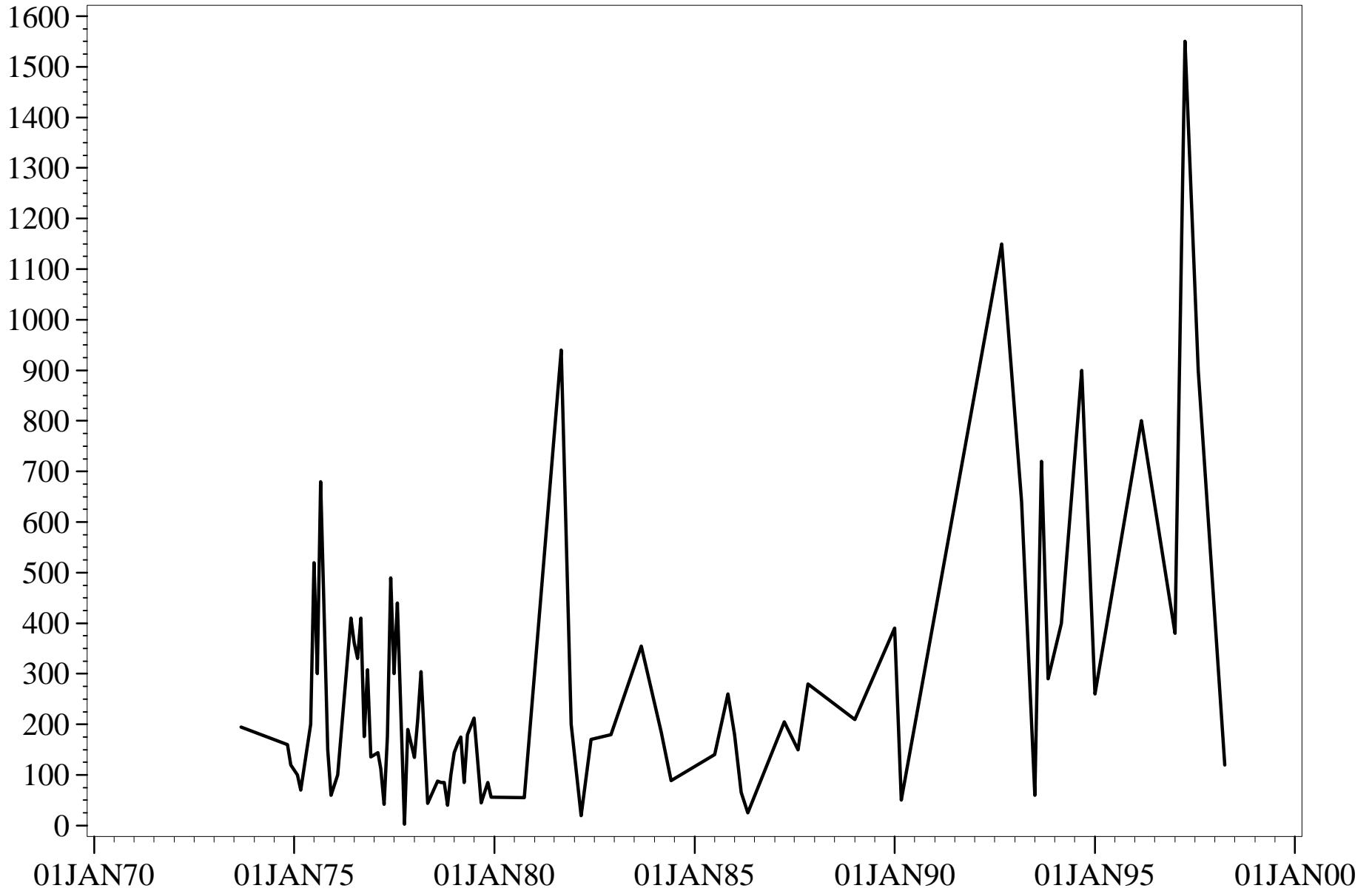


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 109

Monthly Data Time Series

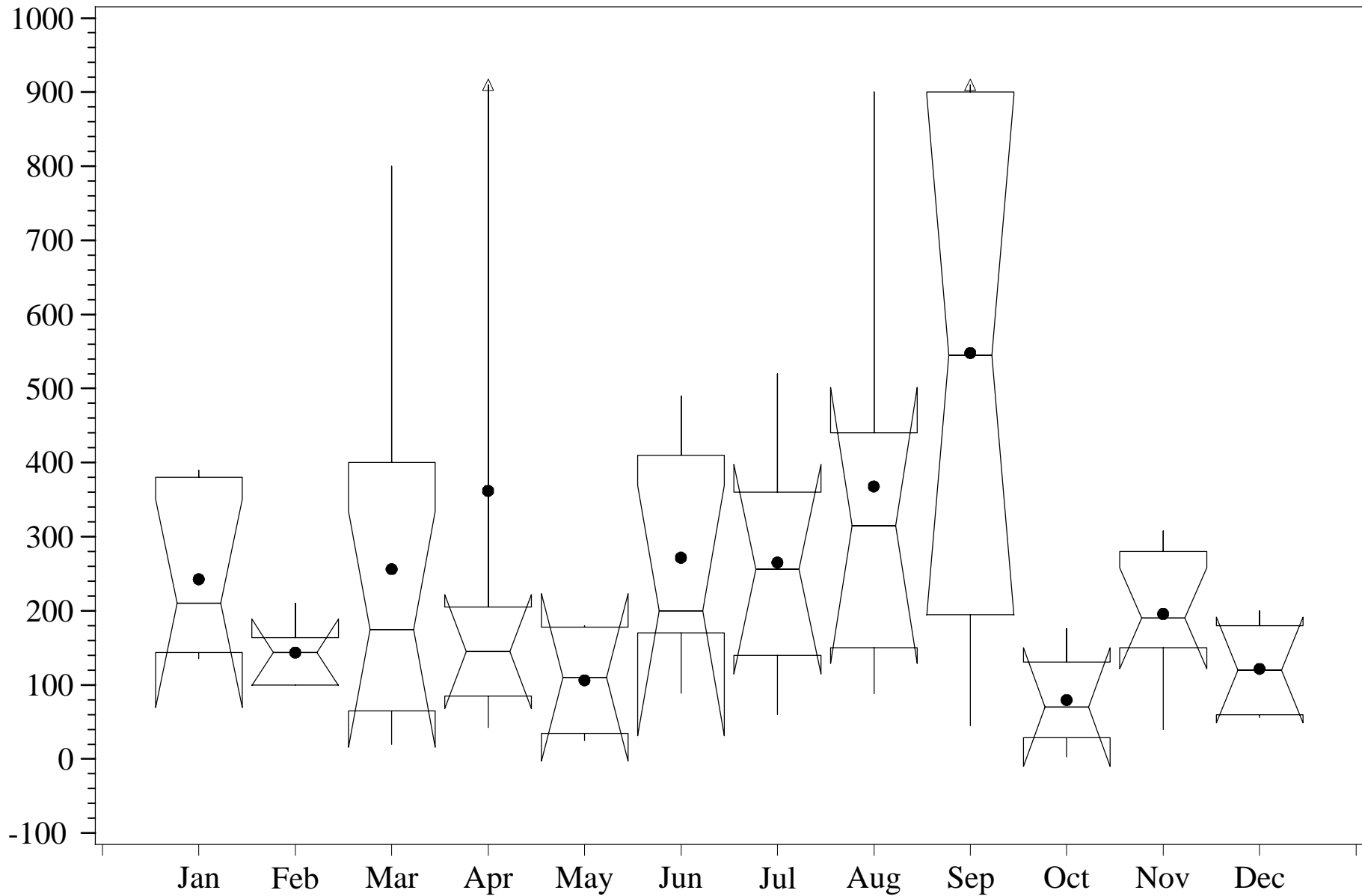
Total Coliform Bacteria for Surface Total Coliform Bacteria at FDEP Station 25020111
(Col/100ml) Unadjusted for Seasonal Medians



Horse Creek Trends Appendix - Display 110

Seasonal Univariate Statistics

Total Coliform Bacteria for Surface Total Coliform Bacteria at FDEP Station 25020111
(Col/100ml)



Horse Creek Trends Appendix - Display 111

Autocorrelation Statistics for Surface Total Coliform Bacteria at FDEP Station 25020111

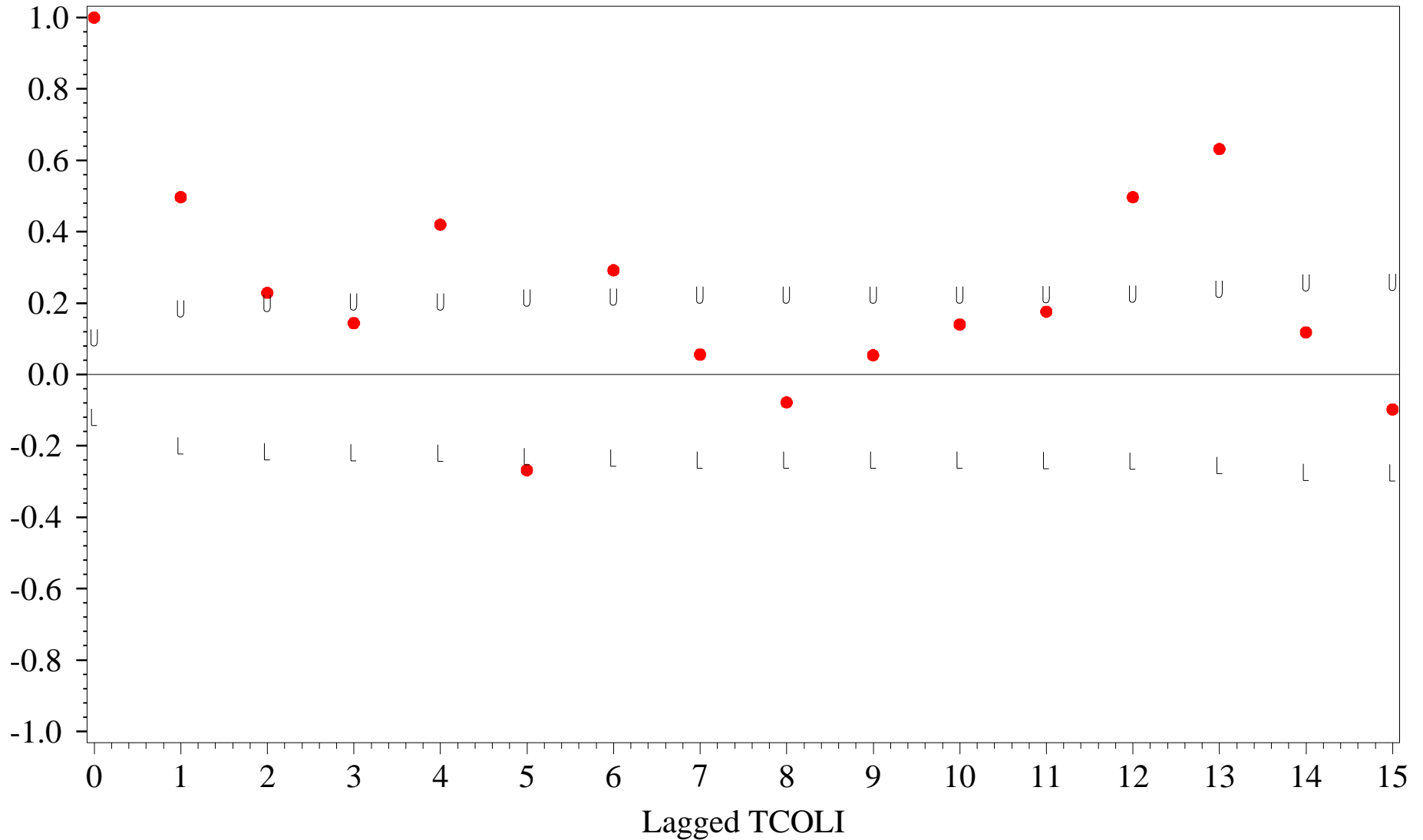
Unadjusted for Seasonal Medians

Lagged TCOLI	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.497	0.096	0.192	-0.192
2	0.229	0.104	0.208	-0.208
3	0.144	0.105	0.211	-0.211
4	0.420	0.106	0.212	-0.212
5	-0.268	0.111	0.222	-0.222
6	0.292	0.113	0.226	-0.226
7	0.056	0.115	0.231	-0.231
8	-0.078	0.115	0.231	-0.231
9	0.054	0.116	0.231	-0.231
10	0.140	0.116	0.231	-0.231
11	0.176	0.116	0.232	-0.232
12	0.497	0.117	0.234	-0.234
13	0.632	0.123	0.247	-0.247
14	0.118	0.133	0.266	-0.266
15	-0.098	0.133	0.267	-0.267

Horse Creek Trends Appendix - Display 112
Correlogram for Surface Total Coliform Bacteria at FDEP Station 25020111

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Horse Creek Trends Appendix - Display 113

Seasonal Kendall Tau Trend Test Statistics
for Surface Total Coliform Bacteria at FDEP Station 25020111

Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.235	0.016	0.045	9.231

Horse Creek Trends Appendix - Display 114

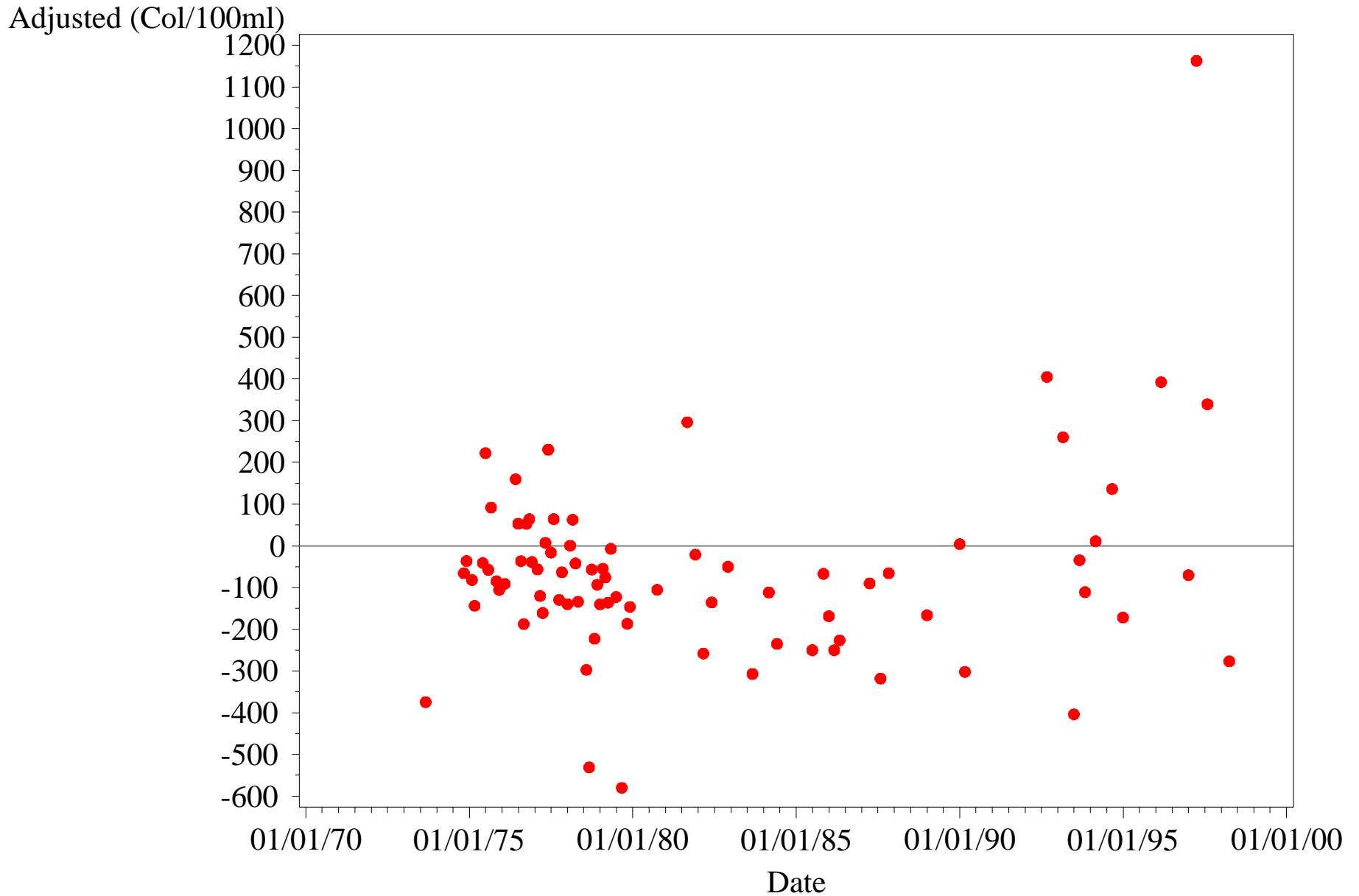
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Coliform Bacteria at FDEP Station 25020111

Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.23529	0.016483	0.044726	9.23077

Horse Creek Trends Appendix - Display 115

Time Series Plot of Surface Total Coliform Bacteria Data Adjusted for Season and Detrended at FDEP Station 25020111



Zero Reference Line Shown

Horse Creek Trends Appendix - Display 116

Autocorrelation Statistics for Surface Total Coliform Bacteria at FDEP Station 25020111

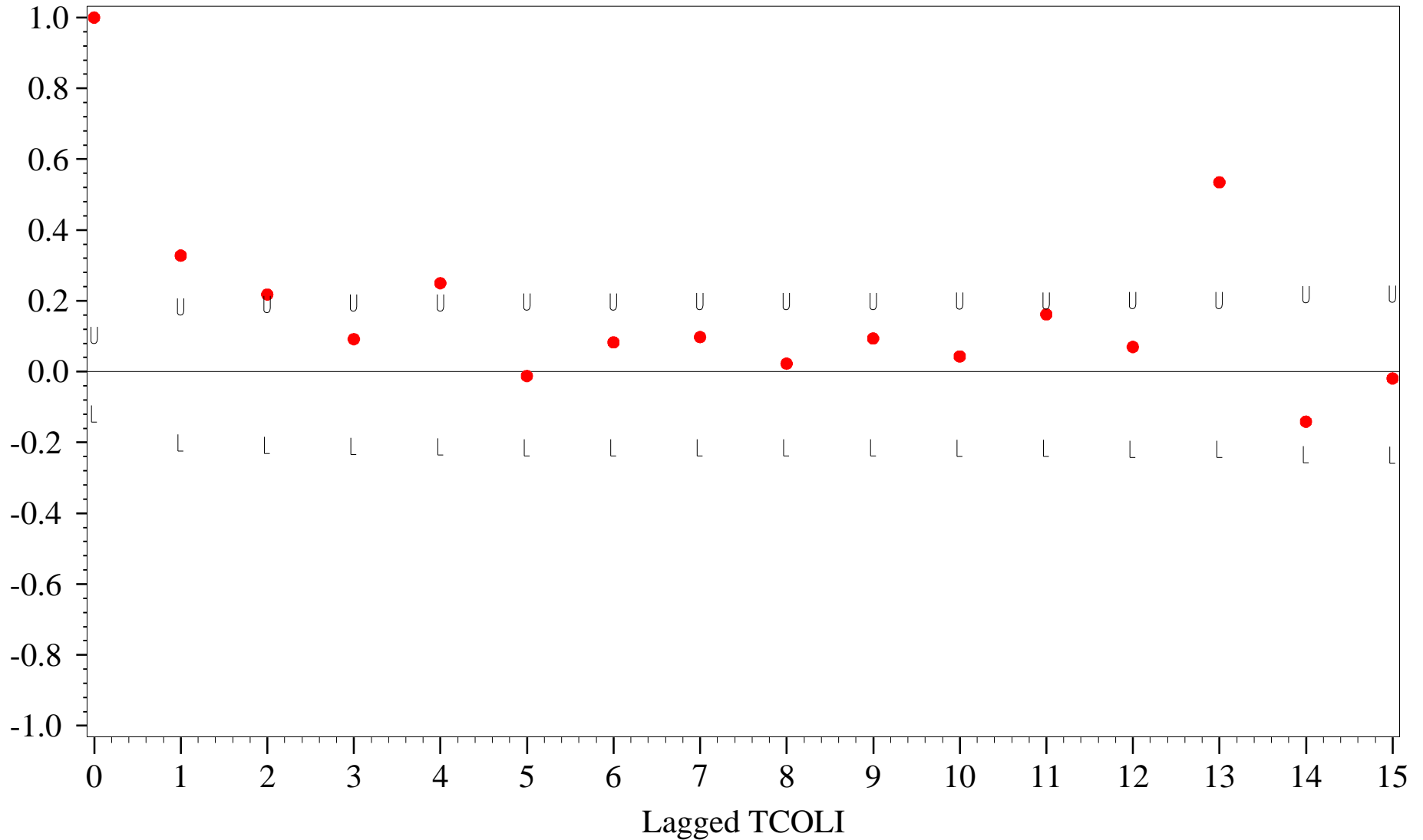
Adjusted for Seasonal Median and Detrended

Lagged TCOLI	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.056	0.111	-0.111
1	0.328	0.096	0.192	-0.192
2	0.218	0.100	0.199	-0.199
3	0.092	0.101	0.202	-0.202
4	0.250	0.101	0.203	-0.203
5	-0.012	0.103	0.206	-0.206
6	0.083	0.103	0.206	-0.206
7	0.098	0.103	0.207	-0.207
8	0.023	0.104	0.207	-0.207
9	0.094	0.104	0.207	-0.207
10	0.043	0.104	0.208	-0.208
11	0.162	0.104	0.208	-0.208
12	0.070	0.105	0.210	-0.210
13	0.535	0.105	0.210	-0.210
14	-0.141	0.113	0.226	-0.226
15	-0.019	0.114	0.227	-0.227

Horse Creek Trends Appendix - Display 117
Correlogram for Surface Total Coliform Bacteria at FDEP Station 25020111

Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown