ARIMA (2,1,0)

Conditional Least Squares Estimation

Standard Approx

Parameter Estimate Error t Value Pr > |t| Lag

AR1,1 0.34848 0.08330 4.18 <.0001 1

AR1,2 -0.16117 0.08397 -1.92 0.0569 2

Variance Estimate 0.000049

Std Error Estimate 0.006973

AIC -1012.41

SBC -1006.48

Number of Residuals 143

\* AIC and SBC do not include log determinant.

Correlations of Parameter

Estimates

Parameter AR1,1 AR1,2

AR1,1 1.000 -0.305

AR1,2 -0.305 1.000

ARIMA (1,1,0)

Conditional Least Squares Estimation

Standard Approx

Parameter Estimate Error t Value Pr > |t| Lag

AR1,1 0.29972 0.08008 3.74 0.0003 1

Variance Estimate 0.00005

Std Error Estimate 0.007038

AIC -1010.72

SBC -1007.76

Number of Residuals 143

\* AIC and SBC do not include log determinant.

Autocorrelation Check of Residuals

To Chi- Pr >

Lag Square DF ChiSq --------------------Autocorrelations--------------------

6 5.31 5 0.3787 0.047 -0.151 -0.037 0.042 0.054 -0.069

12 11.96 11 0.3664 -0.072 0.127 0.056 0.077 0.094 -0.061

18 14.30 17 0.6460 0.037 -0.002 0.010 -0.080 0.070 0.040

24 18.46 23 0.7319 -0.024 -0.116 -0.050 -0.056 -0.025 -0.064

The ARIMA Procedure

Model for variable avg

Period(s) of Differencing 1

No mean term in this model.

Autoregressive Factors

Factor 1: 1 - 0.29972 B\*\*(1)

ARIMA (0,1,0)

Autocorrelation Check for White Noise

To Chi- Pr >

Lag Square DF ChiSq --------------------Autocorrelations--------------------

6 14.62 6 0.0235 0.300 -0.053 -0.035 0.036 0.038 -0.058

12 23.94 12 0.0207 -0.039 0.128 0.118 0.126 0.111 -0.011

18 25.21 18 0.1193 0.029 0.004 -0.006 -0.054 0.053 0.034

24 34.63 24 0.0741 -0.049 -0.140 -0.107 -0.095 -0.071 -0.089

Conditional Least Squares Estimation

Standard Approx

Parameter Estimate Error t Value Pr > |t| Lag

MA1,1 -0.36347 0.07849 -4.63 <.0001 1

Variance Estimate 0.000048

Std Error Estimate 0.006957

AIC -1014.05

SBC -1011.09

Number of Residuals 143

\* AIC and SBC do not include log determinant.

Autocorrelation Check of Residuals

To Chi- Pr >

Lag Square DF ChiSq --------------------Autocorrelations--------------------

6 1.30 5 0.9346 -0.010 -0.041 -0.034 0.032 0.046 -0.051

12 8.50 11 0.6681 -0.071 0.133 0.046 0.079 0.104 -0.066

18 11.49 17 0.8299 0.059 -0.022 0.030 -0.087 0.075 0.015

24 16.13 23 0.8497 -0.014 -0.121 -0.044 -0.074 -0.025 -0.066

The SAS System 15:12 Thursday, April 11, 2013 13

The ARIMA Procedure

Model for variable avg

Period(s) of Differencing 1

No mean term in this model.

Moving Average Factors

Factor 1: 1 + 0.36347 B\*\*(1)