

APPENDIX 11 Vector Auto Regression (VAR) Analysis

Vector Autoregression Estimates

Date: 01/03/19 Time: 22:50

Sample (adjusted): 3 44

Included observations: 42 after adjustments

Standard errors in () & t-statistics in []

	OIL_PRICE	GDP
OIL_PRICE(-1)	0.915001 (0.16316) [5.60801]	0.009633 (0.00468) [2.05938]
OIL_PRICE(-2)	-0.304470 (0.15858) [-1.92002]	-0.009965 (0.00455) [-2.19197]
GDP(-1)	2.500581 (5.46740) [0.45736]	0.894340 (0.15674) [5.70586]
GDP(-2)	4.820143 (5.55274) [0.86807]	-0.136567 (0.15919) [-0.85790]
C	-10.32203 (19.9588) [-0.51717]	1.390938 (0.57218) [2.43093]
R-squared	0.650025	0.697462
Adj. R-squared	0.612189	0.664755
Sum sq. resids	7972.069	6.551980
S.E. equation	14.67860	0.420809
F-statistic	17.18042	21.32467
Log likelihood	-169.7620	-20.57947
Akaike AIC	8.322002	1.218070
Schwarz SC	8.528867	1.424935
Mean dependent	81.83476	5.688571
S.D. dependent	23.57083	0.726782
Determinant resid covariance (dof adj.)		36.67535
Determinant resid covariance		28.46290
Log likelihood		-189.5115
Akaike information criterion		9.500546
Schwarz criterion		9.914277

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	OIL_PRICE	BOP
OIL_PRICE(-1)	0.986484 (0.16140) [6.11208]	-3.037496 (4.95122) [-0.61348]
OIL_PRICE(-2)	-0.276693 (0.16280) [-1.69960]	-0.257622 (4.99417) [-0.05158]
BOP(-1)	-0.001744 (0.00538) [-0.32433]	0.011637 (0.16493) [0.07055]
BOP(-2)	-0.001764 (0.00536) [-0.32878]	6.39E-05 (0.16457) [0.00039]
C	23.46453 (9.81895) [2.38972]	260.6202 (301.215) [0.86523]
R-squared	0.620096	0.027716
Adj. R-squared	0.579026	-0.077396
Sum sq. resids	8653.804	8143851.
S.E. equation	15.29335	469.1525
F-statistic	15.09827	0.263683
Log likelihood	-171.4852	-315.2726
Akaike AIC	8.404057	15.25108
Schwarz SC	8.610922	15.45794
Mean dependent	81.83476	-10.54712
S.D. dependent	23.57083	451.9875
Determinant resid covariance (dof adj.)		51161722
Determinant resid covariance		39705441
Log likelihood		-486.6278
Akaike information criterion		23.64894
Schwarz criterion		24.06267

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	OIL_PRICE	INFLATION
OIL_PRICE(-1)	0.931077 (0.16217) [5.74133]	0.000362 (0.00024) [1.48779]
OIL_PRICE(-2)	-0.260078 (0.15877) [-1.63804]	-0.000347 (0.00024) [-1.45602]
INFLATION(-1)	-54.59717 (106.962) [-0.51043]	0.993660 (0.16033) [6.19775]
INFLATION(-2)	-57.18391 (110.831) [-0.51596]	-0.233964 (0.16612) [-1.40836]
C	34.85536 (12.7249) [2.73915]	0.015461 (0.01907) [0.81060]
R-squared	0.639390	0.641744
Adj. R-squared	0.600405	0.603014
Sum sq. resids	8214.306	0.018455
S.E. equation	14.89994	0.022334
F-statistic	16.40100	16.56955
Log likelihood	-170.3906	102.7364
Akaike AIC	8.351935	-4.654113
Schwarz SC	8.558801	-4.447247
Mean dependent	81.83476	0.071964
S.D. dependent	23.57083	0.035446
Determinant resid covariance (dof adj.)		0.109873
Determinant resid covariance		0.085270
Log likelihood		-67.49023
Akaike information criterion		3.690011
Schwarz criterion		4.103742