*Prais-Winsten Regression Models*

NULL (PERIODIZATION)

Prais-Winsten AR(1) regression - iterated estimates

Source SS df MS Number of obs = 92

F(0, 91) = 0.00

Model .298715519 0 . Prob > F = .

Residual 3.14677064 91 .034579897 R-squared = 0.0867

Adj R-squared = 0.0867

Total 3.44548616 91 .037862485 Root MSE = .18596

usgdpcapita Coef. Std. Err. t P>t [95% Conf. Interval]

\_cons 2.450775 .284113 8.63 0.000 1.88642 3.015131

rho .94123

DW (original) 0.114593

DW (transformed) 1.407135

ATTRIBUTE

Prais-Winsten AR(1) regression - iterated estimates

Source SS df MS Number of obs = 63

F(6, 56) = 7.87

Model 1.15097935 6 .191829892 Prob > F = 0.0000

Residual 1.36531884 56 .024380694 R-squared = 0.4574

Adj R-squared = 0.3993

Total 2.5162982 62 .040585455 Root MSE = .15614

usgdpcapita Coef. Std. Err. t P>t [95% Conf. Interval]

usmilex .0222938 .0383028 0.58 0.563 -.0544359 .0990234

uscontribtoun -.0318722 1.88242 -0.02 0.987 -3.802812 3.739068

usimportsglobalimports -1.621377 .497734 -3.26 0.002 -2.618458 -.6242961

globalimportsglobalgdp 2.116084 21.87777 0.10 0.923 -41.71035 45.94252

lonunbudgetglobalgdp -24645.62 14593.5 -1.69 0.097 -53879.92 4588.68

lonunmembers .0005655 .0046278 0.12 0.903 -.0087051 .0098361

\_cons 3.191529 .981714 3.25 0.002 1.22492 5.158138

rho .9649089

DW (original) 0.467215

DW (transformed) 1.647569

NETWORK

Prais-Winsten AR(1) regression - iterated estimates

Source SS df MS Number of obs = 50

F(12, 37) = 2.08

Model .186293186 12 .015524432 Prob > F = 0.0436

Residual .275749071 37 .007452678 R-squared = 0.4032

Adj R-squared = 0.2096

Total .462042257 49 .009429434 Root MSE = .08633

usgdpcapita Coef. Std. Err. t P>t [95% Conf. Interval]

m3density -.303286 .2304473 -1.32 0.196 -.7702166 .1636446

m3centrality -1.682363 1.072089 -1.57 0.125 -3.854622 .4898955

m3uscentrality .0005436 .0094996 0.06 0.955 -.0187044 .0197916

m2uncentrality .006863 .0093341 0.74 0.467 -.0120497 .0257758

maiddensity .0745873 .0926861 0.80 0.426 -.1132127 .2623873

maidconnectedness .531392 .5234159 1.02 0.317 -.5291494 1.591933

maidefficiency .1696201 2.581855 0.07 0.948 -5.061716 5.400956

maidlub .3695036 .8800004 0.42 0.677 -1.413547 2.152554

mtradedensity .0006119 .0005648 1.08 0.286 -.0005326 .0017564

mtradeincentrality -.1953908 .0735494 -2.66 0.012 -.344416 -.0463656

mtradeconnectedness .1990825 .6722296 0.30 0.769 -1.162984 1.561149

mtradeefficiency .2165085 .7095513 0.31 0.762 -1.221179 1.654196

\_cons 2.787069 2.543187 1.10 0.280 -2.365917 7.940056

rho .9753686

DW (original) 1.499268

DW (transformed) 1.216307

CENTRALIZATION

Prais-Winsten AR(1) regression - iterated estimates

Source SS df MS Number of obs = 48

F(10, 37) = 3.01

Model .176330843 10 .017633084 Prob > F = 0.0070

Residual .216596279 37 .005853953 R-squared = 0.4488

Adj R-squared = 0.2998

Total .392927123 47 .008360152 Root MSE = .07651

usgdpcapita Coef. Std. Err. t P>t [95% Conf. Interval]

usmilex .0069008 .0210866 0.33 0.745 -.0358246 .0496262

uscontribtoun .3960193 1.075887 0.37 0.715 -1.783936 2.575974

usimportsglobalimports 1.990978 1.695558 1.17 0.248 -1.444549 5.426506

m3centrality -1.678624 .6167241 -2.72 0.010 -2.928226 -.4290227

m3uscentrality -.0070092 .0079367 -0.88 0.383 -.0230905 .009072

m2uncentrality .0059475 .0073281 0.81 0.422 -.0089007 .0207956

maidefficiency -.3764355 2.098222 -0.18 0.859 -4.627838 3.874967

maidlub -.003669 .686611 -0.01 0.996 -1.394875 1.387537

mtradeincentrality -.0790235 .0801283 -0.99 0.330 -.2413788 .0833319

mtradeefficiency .0946467 .6281901 0.15 0.881 -1.178187 1.367481

\_cons 3.006424 1.977581 1.52 0.137 -1.000535 7.013383

rho .9650234

DW (original) 1.001537

DW (transformed) 1.468216

INTEGRATION

Prais-Winsten AR(1) regression - iterated estimates

Source SS df MS Number of obs = 50

F(8, 41) = 2.89

Model .185371463 8 .023171433 Prob > F = 0.0119

Residual .328594191 41 .008014492 R-squared = 0.3607

Adj R-squared = 0.2359

Total .513965654 49 .010489095 Root MSE = .08952

usgdpcapita Coef. Std. Err. t P>t [95% Conf. Interval]

globalimportsglobalgdp 47.645 26.40653 1.80 0.079 -5.684064 100.9741

lonunbudgetglobalgdp -7275.216 9154.49 -0.79 0.431 -25763.08 11212.65

lonunmembers .0072128 .0069139 1.04 0.303 -.0067502 .0211757

m3density -.1422338 .191796 -0.74 0.463 -.5295738 .2451061

maiddensity .0280249 .0817037 0.34 0.733 -.1369791 .1930289

maidconnectedness .0672086 .4531521 0.15 0.883 -.8479507 .9823679

mtradedensity -.001879 .0013125 -1.43 0.160 -.0045296 .0007716

mtradeconnectedness .5523273 .6683762 0.83 0.413 -.7974859 1.90214

\_cons 1.195714 .6655373 1.80 0.080 -.148366 2.539794

rho .9568688

DW (original) 1.383746

DW (transformed) 1.155869

ECONOMIC

Prais-Winsten AR(1) regression - iterated estimates

Source SS df MS Number of obs = 49

F(10, 38) = 7.03

Model .355565816 10 .035556582 Prob > F = 0.0000

Residual .192101326 38 .005055298 R-squared = 0.6492

Adj R-squared = 0.5569

Total .547667141 48 .011409732 Root MSE = .0711

usgdpcapita Coef. Std. Err. t P>t [95% Conf. Interval]

usimportsglobalimports 2.775331 1.466468 1.89 0.066 -.193379 5.744041

globalimportsglobalgdp 44.69105 21.27353 2.10 0.042 1.625046 87.75705

maiddensity .155184 .0745119 2.08 0.044 .0043425 .3060256

maidconnectedness .6709938 .3402775 1.97 0.056 -.017862 1.35985

maidefficiency -.9310567 1.927554 -0.48 0.632 -4.833185 2.971072

maidlub .6911259 .7222492 0.96 0.345 -.7709912 2.153243

mtradedensity -.0028748 .0009598 -3.00 0.005 -.0048179 -.0009318

mtradeincentrality -.1188381 .0751919 -1.58 0.122 -.2710562 .03338

mtradeconnectedness .338617 .3670504 0.92 0.362 -.4044376 1.081672

mtradeefficiency -.0196593 .5685615 -0.03 0.973 -1.170652 1.131333

\_cons 2.29847 1.858204 1.24 0.224 -1.463266 6.060207

rho .9059426

DW (original) 1.301814

DW (transformed) 1.661396

DIPLOMATIC

Prais-Winsten AR(1) regression - iterated estimates

Source SS df MS Number of obs = 66

F(7, 58) = 6.17

Model 1.1901262 7 .170018029 Prob > F = 0.0000

Residual 1.59947362 58 .027577131 R-squared = 0.4266

Adj R-squared = 0.3574

Total 2.78959982 65 .04291692 Root MSE = .16606

usgdpcapita Coef. Std. Err. t P>t [95% Conf. Interval]

uscontribtoun -.6674154 2.000699 -0.33 0.740 -4.67225 3.337419

lonunbudgetglobalgdp -33143.84 14593.14 -2.27 0.027 -62355.18 -3932.503

lonunmembers .0161983 .011719 1.38 0.172 -.0072599 .0396565

m3density -.0284409 .300319 -0.09 0.925 -.6295946 .5727129

m3centrality 1.132677 .8170247 1.39 0.171 -.5027762 2.768129

m3uscentrality -.0159219 .0126687 -1.26 0.214 -.041281 .0094372

m2uncentrality .0071157 .0126105 0.56 0.575 -.018127 .0323583

\_cons 1.071748 1.983411 0.54 0.591 -2.89848 5.041975

rho .9536797

DW (original) 0.975483

DW (transformed) 1.819468

MILITARY

Prais-Winsten AR(1) regression - iterated estimates

Source SS df MS Number of obs = 89

F(1, 87) = 17.64

Model .585420992 1 .585420992 Prob > F = 0.0001

Residual 2.88764536 87 .033191326 R-squared = 0.1686

Adj R-squared = 0.1590

Total 3.47306635 88 .039466663 Root MSE = .18218

usgdpcapita Coef. Std. Err. t P>t [95% Conf. Interval]

usmilex .0694835 .0271019 2.56 0.012 .0156156 .1233514

\_cons 1.987788 .2857512 6.96 0.000 1.419827 2.55575

rho .9160079

DW (original) 0.172346

DW (transformed) 1.511194

FULL

Prais-Winsten AR(1) regression - iterated estimates

Source SS df MS Number of obs = 48

F(18, 29) = 4.02

Model .414585 18 .0230325 Prob > F = 0.0004

Residual .16628748 29 .005734051 R-squared = 0.7137

Adj R-squared = 0.5360

Total .58087248 47 .012358989 Root MSE = .07572

usgdpcapita Coef. Std. Err. t P>t [95% Conf. Interval]

usmilex .0078183 .0229995 0.34 0.736 -.0392211 .0548576

uscontribtoun .8195667 1.141657 0.72 0.479 -1.515385 3.154518

usimportsglobalimports 4.062108 2.090229 1.94 0.062 -.2128906 8.337107

globalimportsglobalgdp 50.01387 25.80746 1.94 0.062 -2.768298 102.796

lonunbudgetglobalgdp -6768.357 9717.743 -0.70 0.492 -26643.37 13106.66

lonunmembers -.0053875 .0104005 -0.52 0.608 -.0266589 .0158838

m3density -.0760856 .2374924 -0.32 0.751 -.561812 .4096408

m3centrality -1.834812 1.241082 -1.48 0.150 -4.373109 .7034862

m3uscentrality -.009531 .0090634 -1.05 0.302 -.0280677 .0090058

m2uncentrality .0118143 .0091889 1.29 0.209 -.0069791 .0306076

maiddensity .1444394 .0883895 1.63 0.113 -.0363373 .3252162

maidconnectedness .5592993 .5014257 1.12 0.274 -.4662314 1.58483

maidefficiency -.6894232 2.312041 -0.30 0.768 -5.418078 4.039232

maidlub .7140171 .7994144 0.89 0.379 -.920969 2.349003

mtradedensity -.0029945 .0012335 -2.43 0.022 -.0055172 -.0004718

mtradeincentrality -.0602388 .0912015 -0.66 0.514 -.2467669 .1262892

mtradeconnectedness .3667961 .7292359 0.50 0.619 -1.124659 1.858251

mtradeefficiency .2617015 .7462627 0.35 0.728 -1.264577 1.78798

\_cons 2.772485 2.40511 1.15 0.258 -2.146518 7.691489

rho .8891192

DW (original) 1.890238

DW (transformed) 1.666676