

Common

Dependent Variable: SHU?

Method: Pooled Least Squares

Date: 08/30/16 Time: 18:55

Sample: 2012 2015

Included observations: 4

Cross-sections included: 20

Total pool (balanced) observations: 80

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|----------|-------------|------------|-------------|--------|
| C | 14.59900 | 19.07015 | 0.765542 | 0.4463 |
| MS? | 0.026589 | 0.012767 | 2.082559 | 0.0407 |
| ML? | -0.007270 | 0.007206 | -1.008896 | 0.3162 |
| JA? | 0.089780 | 0.081284 | 1.104524 | 0.2729 |

| | | | |
|--------------------|-----------|-----------------------|----------|
| R-squared | 0.151503 | Mean dependent var | 71.02063 |
| Adjusted R-squared | 0.118010 | S.D. dependent var | 92.63665 |
| S.E. of regression | 86.99909 | Akaike info criterion | 11.81838 |
| Sum squared resid | 575232.0 | Schwarz criterion | 11.93748 |
| Log likelihood | -468.7352 | Hannan-Quinn criter. | 11.86613 |
| F-statistic | 4.523387 | Durbin-Watson stat | 0.161214 |
| Prob(F-statistic) | 0.005674 | | |

Fixed

Dependent Variable: SHU?
 Method: Pooled EGLS (Cross-section weights)
 Date: 08/30/16 Time: 18:56
 Sample: 2012 2015
 Included observations: 4
 Cross-sections included: 20
 Total pool (balanced) observations: 80
 Linear estimation after one-step weighting matrix

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|-----------------------|-------------|------------|-------------|--------|
| C | 84.40561 | 7.126994 | 11.84309 | 0.0000 |
| MS? | 0.003974 | 0.000830 | 4.790449 | 0.0000 |
| ML? | 0.002236 | 0.000492 | 4.548138 | 0.0000 |
| JA? | -0.081058 | 0.021005 | -3.858963 | 0.0003 |
| Fixed Effects (Cross) | | | | |
| _GIAT--C | 14.14576 | | | |
| _ARENA--C | -46.96870 | | | |
| _ARUM--C | -13.28031 | | | |
| _DASPIN--C | 371.3011 | | | |
| _GEMI--C | 50.95684 | | | |
| _GURU_KESESI--C | -41.01175 | | | |
| _KOPENDA--C | 50.62631 | | | |
| _KOPENDJA--C | -62.09231 | | | |
| _MANDIRI--C | 38.75382 | | | |
| _MEDIKA_JAYA--C | -22.73901 | | | |
| _MEGAR--C | 12.92353 | | | |
| _RAMA--C | -62.44836 | | | |
| _RASA--C | -42.25544 | | | |
| _SAMI_MAKMUR--C | -61.19701 | | | |
| _SAMI_RUKUN--C | 19.91429 | | | |
| _HANDAYANI--C | -74.46270 | | | |
| _SEJAHTERA--C | -54.03844 | | | |
| _TENIKA_BHAKTI--C | -47.14796 | | | |
| _TITI--C | -51.76634 | | | |
| _TUTWURI--C | 20.78672 | | | |

Effects Specification

Cross-section fixed (dummy variables)

| Weighted Statistics | | | |
|---------------------|----------|--------------------|----------|
| R-squared | 0.983235 | Mean dependent var | 130.4526 |
| Adjusted R-squared | 0.976764 | S.D. dependent var | 122.9951 |
| S.E. of regression | 13.21741 | Sum squared resid | 9957.897 |
| F-statistic | 151.9477 | Durbin-Watson stat | 1.905499 |
| Prob(F-statistic) | 0.000000 | | |

| Unweighted Statistics | | | |
|-----------------------|----------|--------------------|----------|
| R-squared | 0.983362 | Mean dependent var | 71.02063 |
| Sum squared resid | 11279.66 | Durbin-Watson stat | 2.029096 |

Random

Dependent Variable: SHU?
 Method: Pooled EGLS (Cross-section random effects)
 Date: 08/30/16 Time: 18:57
 Sample: 2012 2015
 Included observations: 4
 Cross-sections included: 20
 Total pool (balanced) observations: 80
 Swamy and Arora estimator of component variances

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|------------------------|-------------|------------|-------------|--------|
| C | 53.70528 | 28.01614 | 1.916941 | 0.0590 |
| MS? | 0.005379 | 0.002536 | 2.121573 | 0.0371 |
| ML? | 0.003354 | 0.001877 | 1.786685 | 0.0780 |
| JA? | 0.016699 | 0.071548 | 0.233392 | 0.8161 |
| Random Effects (Cross) | | | | |
| _GIAT--C | 12.69710 | | | |
| _ARENA--C | -34.31864 | | | |
| _ARUM--C | -12.01025 | | | |
| _DASPIN--C | 358.4102 | | | |
| _GEMI--C | 37.37175 | | | |
| _GURU_KESESI--C | -44.04226 | | | |
| _KOPENDA--C | -9.540702 | | | |
| _KOPENDJA--C | -37.05442 | | | |
| _MANDIRI--C | 30.13005 | | | |
| _MEDIKA_JAYA--C | -42.54750 | | | |
| _MEGAR--C | -5.197084 | | | |
| _RAMA--C | -57.83366 | | | |
| _RASA--C | -36.73485 | | | |
| _SAMI_MAKMUR--C | -47.15176 | | | |
| _SAMI_RUKUN--C | 35.51520 | | | |
| _HANDAYANI--C | -49.95379 | | | |
| _SEJAHTERA--C | -45.23406 | | | |
| _TENIKA_BHAKTI--C | -32.61649 | | | |
| _TITI--C | -42.07368 | | | |
| _TUTWURI--C | 22.18479 | | | |

| Effects Specification | | S.D. | Rho |
|-----------------------|--|----------|--------|
| Cross-section random | | 87.81852 | 0.9752 |
| Idiosyncratic random | | 13.99337 | 0.0248 |

| Weighted Statistics | | | |
|---------------------|----------|--------------------|----------|
| R-squared | 0.096610 | Mean dependent var | 5.640488 |
| Adjusted R-squared | 0.060950 | S.D. dependent var | 14.59536 |
| S.E. of regression | 14.14358 | Sum squared resid | 15203.10 |
| F-statistic | 2.709182 | Durbin-Watson stat | 1.493156 |
| Prob(F-statistic) | 0.050972 | | |

| Unweighted Statistics | | | |
|-----------------------|----------|--------------------|----------|
| R-squared | 0.065947 | Mean dependent var | 71.02063 |
| Sum squared resid | 633234.1 | Durbin-Watson stat | 0.035849 |

Chow

Redundant Fixed Effects Tests

Pool: PANEL

Test cross-section fixed effects

| Effects Test | Statistic | d.f. | Prob. |
|--------------------------|------------|---------|--------|
| Cross-section F | 151.612580 | (19,57) | 0.0000 |
| Cross-section Chi-square | 315.384817 | 19 | 0.0000 |

Cross-section fixed effects test equation:

Dependent Variable: SHU?

Method: Panel Least Squares

Date: 08/30/16 Time: 18:58

Sample: 2012 2015

Included observations: 4

Cross-sections included: 20

Total pool (balanced) observations: 80

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|--------------------|-------------|-----------------------|-------------|----------|
| C | 14.59900 | 19.07015 | 0.765542 | 0.4463 |
| MS? | 0.026589 | 0.012767 | 2.082559 | 0.0407 |
| ML? | -0.007270 | 0.007206 | -1.008896 | 0.3162 |
| JA? | 0.089780 | 0.081284 | 1.104524 | 0.2729 |
| R-squared | 0.151503 | Mean dependent var | | 71.02063 |
| Adjusted R-squared | 0.118010 | S.D. dependent var | | 92.63665 |
| S.E. of regression | 86.99909 | Akaike info criterion | | 11.81838 |
| Sum squared resid | 575232.0 | Schwarz criterion | | 11.93748 |
| Log likelihood | -468.7352 | Hannan-Quinn criter. | | 11.86613 |
| F-statistic | 4.523387 | Durbin-Watson stat | | 0.161214 |
| Prob(F-statistic) | 0.005674 | | | |

Hausman

Correlated Random Effects - Hausman Test

Pool: PANEL

Test cross-section random effects

| Test Summary | Chi-Sq. Statistic | Chi-Sq. d.f. | Prob. |
|----------------------|-------------------|--------------|--------|
| Cross-section random | 4.640338 | 3 | 0.2001 |

Cross-section random effects test comparisons:

| Variable | Fixed | Random | Var(Diff.) | Prob. |
|----------|-----------|----------|------------|--------|
| MS? | 0.005046 | 0.005379 | 0.000000 | 0.1146 |
| ML? | 0.003277 | 0.003354 | 0.000000 | 0.7728 |
| JA? | -0.051707 | 0.016699 | 0.002962 | 0.2088 |

Cross-section random effects test equation:

Dependent Variable: SHU?

Method: Panel Least Squares

Date: 08/30/16 Time: 18:58

Sample: 2012 2015

Included observations: 4

Cross-sections included: 20

Total pool (balanced) observations: 80

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|----------|-------------|------------|-------------|--------|
| C | 73.26064 | 25.28210 | 2.897727 | 0.0053 |
| MS? | 0.005046 | 0.002544 | 1.983473 | 0.0521 |
| ML? | 0.003277 | 0.001896 | 1.728786 | 0.0893 |
| JA? | -0.051707 | 0.089892 | -0.575206 | 0.5674 |

Effects Specification

Cross-section fixed (dummy variables)

| | | | |
|--------------------|-----------|-----------------------|----------|
| R-squared | 0.983536 | Mean dependent var | 71.02063 |
| Adjusted R-squared | 0.977182 | S.D. dependent var | 92.63665 |
| S.E. of regression | 13.99337 | Akaike info criterion | 8.351069 |
| Sum squared resid | 11161.42 | Schwarz criterion | 9.035902 |
| Log likelihood | -311.0428 | Hannan-Quinn criter. | 8.625638 |
| F-statistic | 154.7804 | Durbin-Watson stat | 2.081093 |
| Prob(F-statistic) | 0.000000 | | |

Asumsi klasik

Multi

| | SHU | MS | ML | JA |
|-----|----------|----------|----------|----------|
| SHU | 1.000000 | 0.361706 | 0.140260 | 0.319530 |
| MS | 0.361706 | 1.000000 | 0.577338 | 0.690448 |
| ML | 0.140260 | 0.577338 | 1.000000 | 0.522599 |
| JA | 0.319530 | 0.690448 | 0.522599 | 1.000000 |

Heteros

Dependent Variable: RESID2
Method: Panel Least Squares
Date: 08/30/16 Time: 19:03
Sample: 2012 2015
Periods included: 4
Cross-sections included: 20
Total panel (balanced) observations: 80

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|----------|-------------|------------|-------------|--------|
| C | 46.65712 | 77.48395 | 0.602152 | 0.5489 |
| MS | 0.074661 | 0.051875 | 1.439236 | 0.1542 |
| ML | 0.010363 | 0.029277 | 0.353976 | 0.7243 |
| JA | -0.124642 | 0.330266 | -0.377397 | 0.7069 |

| | | | |
|--------------------|-----------|-----------------------|----------|
| R-squared | 0.053209 | Mean dependent var | 140.9957 |
| Adjusted R-squared | 0.015836 | S.D. dependent var | 356.3187 |
| S.E. of regression | 353.4862 | Akaike info criterion | 14.62227 |
| Sum squared resid | 9496387. | Schwarz criterion | 14.74137 |
| Log likelihood | -580.8909 | Hannan-Quinn criter. | 14.67002 |
| F-statistic | 1.423720 | Durbin-Watson stat | 2.190592 |
| Prob(F-statistic) | 0.242418 | | |