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| Heteroskedasticity Test: Breusch-Pagan-Godfrey |
|  |  |  |  |  |
|  |  |  |  |  |
| F-statistic | 18.28949 |     Prob. F(1,28) | 0.0002 |
| Obs\*R-squared | 11.85333 |     Prob. Chi-Square(1) | 0.0006 |
| Scaled explained SS | 48.91445 |     Prob. Chi-Square(1) | 0.0000 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Test Equation: |  |  |  |
| Dependent Variable: RESID^2 |  |  |
| Method: Least Squares |  |  |
| Date: 08/22/22 Time: 16:03 |  |  |
| Sample: 1981 2010 |  |  |
| Included observations: 30 |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Variable | Coefficient | Std. Error | t-Statistic | Prob.   |
|  |  |  |  |  |
|  |  |  |  |  |
| C | 541.8058 | 3415.753 | 0.158620 | 0.8751 |
| INF(-1) | 120.3034 | 28.13049 | 4.276622 | 0.0002 |
|  |  |  |  |  |
|  |  |  |  |  |
| R-squared | 0.395111 |     Mean dependent var | 6817.761 |
| Adjusted R-squared | 0.373508 |     S.D. dependent var | 21344.20 |
| S.E. of regression | 16894.21 |     Akaike info criterion | 22.37167 |
| Sum squared resid | 7.99E+09 |     Schwarz criterion | 22.46508 |
| Log likelihood | -333.5750 |     Hannan-Quinn criter. | 22.40155 |
| F-statistic | 18.28949 |     Durbin-Watson stat | 2.881992 |
| Prob(F-statistic) | 0.000199 |  |  |  |
|  |  |  |  |  |
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| Heteroskedasticity Test: ARCH |  |  |
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| F-statistic | 189.7691 |     Prob. F(3,12) | 0.0000 |
| Obs\*R-squared | 15.66971 |     Prob. Chi-Square(3) | 0.0013 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Test Equation: |  |  |  |
| Dependent Variable: WGT\_RESID^2 |  |
| Method: Least Squares |  |  |
| Date: 08/22/22 Time: 16:06 |  |  |
| Sample (adjusted): 1984 2007 |  |  |
| Included observations: 16 after adjustments |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Variable | Coefficient | Std. Error | t-Statistic | Prob.   |
|  |  |  |  |  |
|  |  |  |  |  |
| C | -6.53E-05 | 0.000135 | -0.484974 | 0.6364 |
| WGT\_RESID^2(-1) | -0.144811 | 0.042434 | -3.412658 | 0.0051 |
| WGT\_RESID^2(-2) | -1.392015 | 0.079953 | -17.41032 | 0.0000 |
| WGT\_RESID^2(-3) | 52.23381 | 2.234306 | 23.37809 | 0.0000 |
|  |  |  |  |  |
|  |  |  |  |  |
| R-squared | 0.979357 |     Mean dependent var | 0.000982 |
| Adjusted R-squared | 0.974196 |     S.D. dependent var | 0.002979 |
| S.E. of regression | 0.000478 |     Akaike info criterion | -12.23962 |
| Sum squared resid | 2.75E-06 |     Schwarz criterion | -12.04647 |
| Log likelihood | 101.9170 |     Hannan-Quinn criter. | -12.22973 |
| F-statistic | 189.7691 |     Durbin-Watson stat | 2.270650 |
| Prob(F-statistic) | 0.000000 |  |  |  |
|  |  |  |  |  |
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| --- | --- | --- |
| Dependent Variable: INF |  |  |
| Method: ML - ARCH (Marquardt) - Normal distribution |
| Date: 08/22/22 Time: 16:06 |  |  |
| Sample (adjusted): 1980 2010 |  |  |
| Included observations: 31 after adjustments |  |
| Convergence achieved after 40 iterations |  |
| Presample variance: backcast (parameter = 0.7) |
| GARCH = C(2) + C(3)\*RESID(-1)^2 |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Variable | Coefficient | Std. Error | z-Statistic | Prob.   |
|  |  |  |  |  |
|  |  |  |  |  |
| C | 1.615268 | 0.439652 | 3.673966 | 0.0002 |
|  |  |  |  |  |
|  |  |  |  |  |
|  | Variance Equation |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| C | 2.632605 | 3.017187 | 0.872536 | 0.3829 |
| RESID(-1)^2 | 2.006128 | 0.677888 | 2.959380 | 0.0031 |
|  |  |  |  |  |
|  |  |  |  |  |
| R-squared | -0.205733 |     Mean dependent var | 50.67978 |
| Adjusted R-squared | -0.205733 |     S.D. dependent var | 109.9603 |
| S.E. of regression | 120.7429 |     Akaike info criterion | 8.746628 |
| Sum squared resid | 437365.2 |     Schwarz criterion | 8.885401 |
| Log likelihood | -132.5727 |     Hannan-Quinn criter. | 8.791864 |
| Durbin-Watson stat | 0.586252 |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |