**S3 Table. Estimates of model (3) with contemporaneous and once lagged changes in independent variables.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **All Plants** | | | | | | | |
| ***g*** | ***g* x |*L*|** | ***g.L1*** | ***g.L1* x |*L*|** | ***o*** | ***o* x |*L*|** | ***o.L1*** | ***o.L1* x |*L*|** |
| **Production** | | | | | | | |
| **PSV** | 5.40  (6.66) | -0.10 (0.19) | 1.93 (7.91) | -0.12 (0.19) | -0.73 (2.13) | 0.03 (0.07) | 1.43 (2.23) | -0.03 (0.06) |
| **SR** | -64.86 (40.71) | 0.68 (1.14) | 40.8 (48.29) | -1.39 (1.17) | 2.85 (12.97) | 0.41 (0.44) | 18.21 (13.63) | -0.52 (0.34) |
| **E** | -88.81\*\*\* (24.64) | 3.08\*\*\* (0.7) | -6.11 (29.1) | 1.14 (0.70) | -2.43 (7.81) | -0.01 (0.26) | -5.06 (8.21) | 0.09  (0.21) |
|  | **Consumption** | | | | | | | |
| **PSV** | -0.76 (16.87) | -0.47 (0.47) | -19.22 (20.03) | 0.32 (0.48) | 0.86 (5.37) | -0.02 (0.18) | -4.33 (5.65) | -0.12 (0.14) |
| **SR** | 154.57 (102.06) | 0.05 (2.87) | -28.90 (121.0) | -3.01 (2.93) | -24.9 (32.44) | 0.90 (1.10) | 61.28\* (34.12) | -1.79\*\* (0.86) |
| **E** | -50.12 (60.39) | 1.92 (1.70) | -75.93 (71.64) | 1.16 (1.74) | 14.24 (19.24) | -0.44 (0.65) | -14.52 (20.22) | 0.99\* (0.51) |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **All Plants** | | | | | | | |
| ***nra*** | ***nra* x |*L*|** | ***nra.L1*** | ***nra.L1* x |*L*|** | ***tbi*** | ***tbi* x |*L*|** | ***tbi.L1*** | ***tbi.L1* x |*L*|** |
| **Production** | | | | | | | |
| **PSV** | -0.52  (2.40) | 0.02  (0.05) | 0.85  (2.32) | 0.00  (0.05) | -0.31 (1.20) | 0.01  (0.02) | 0.63 (1.07) | -0.01  (0.02) |
| **SR** | -4.79 (14.7) | 0.14  (0.29) | -1.06 (14.2) | -0.03  (0.29) | 0.15 (7.37) | 0.00  (0.12) | 2.42 (6.57) | -0.04  (0.11) |
| **E** | -0.80 (8.84) | -0.01  (0.17) | 2.45  (8.55) | -0.28  (0.18) | 0.79 (4.43) | -0.01  (0.07) | 1.30 (3.95) | -0.02  (0.07) |
|  | **Consumption** | | | | | | | |
| **PSV** | 1.05  (6.09) | 0.04  (0.12) | -16.18\*\*\* (5.88) | 0.30\*\*  (0.12) | 2.74 (3.05) | -0.05  (0.05) | 3.52 (2.72) | -0.06 (0.05) |
| **SR** | -40.73 (36.85) | 1.19  (0.73) | 23.53 (35.55) | -0.82  (0.73) | -1.92 (18.45) | 0.030  (0.31) | 8.32 (16.44) | -0.14 (0.27) |
| **E** | 44.6\*\* (21.8) | -0.91\*\* (0.43) | 12.09 (21.1) | -0.25  (0.43) | -18.15\* (10.92) | 0.30\*  (0.18) | -7.46 (9.74) | 0.12  (0.16) |