SFA-Kumb90-JTT-HN - long period

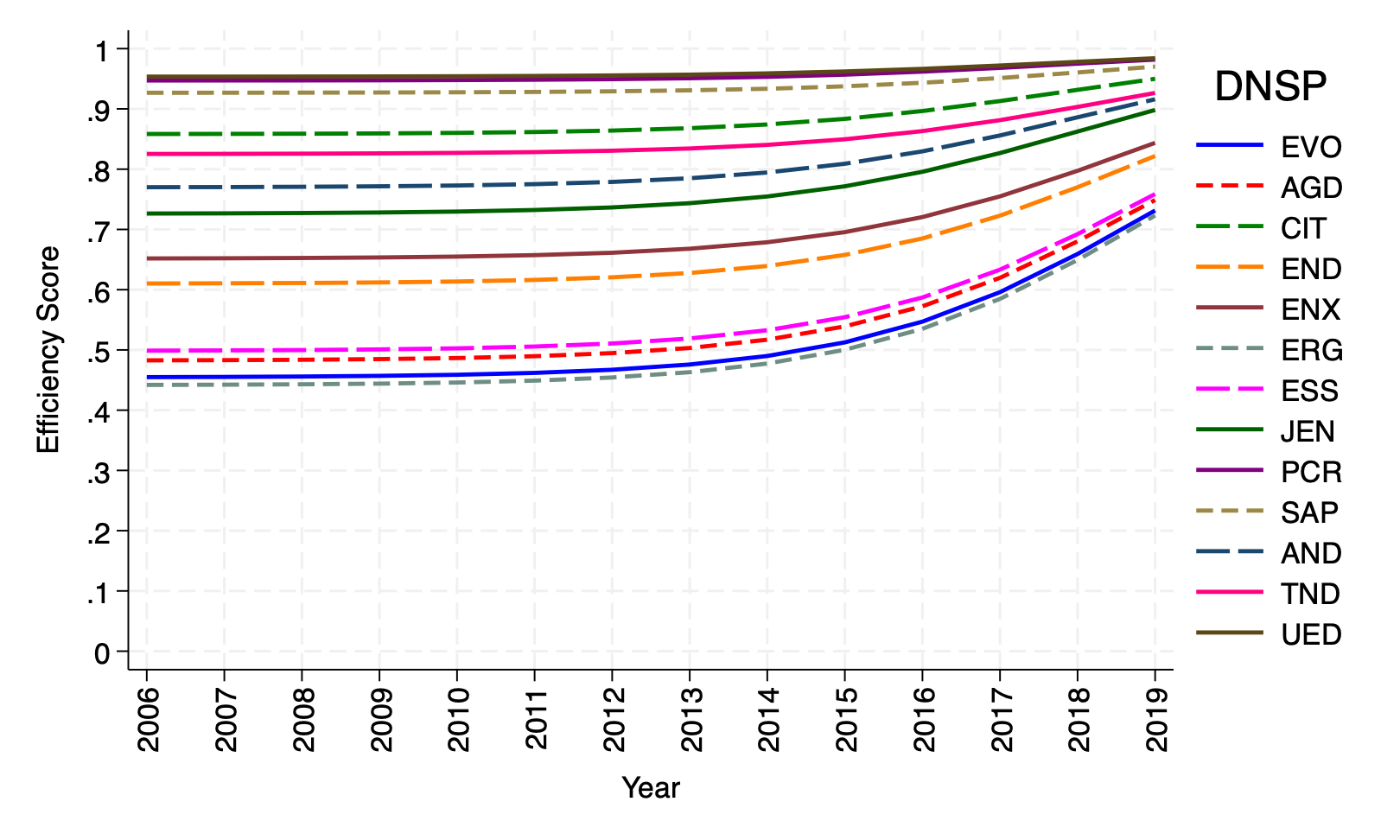
SFACD-Kumb90-JTT-HN Elasticities

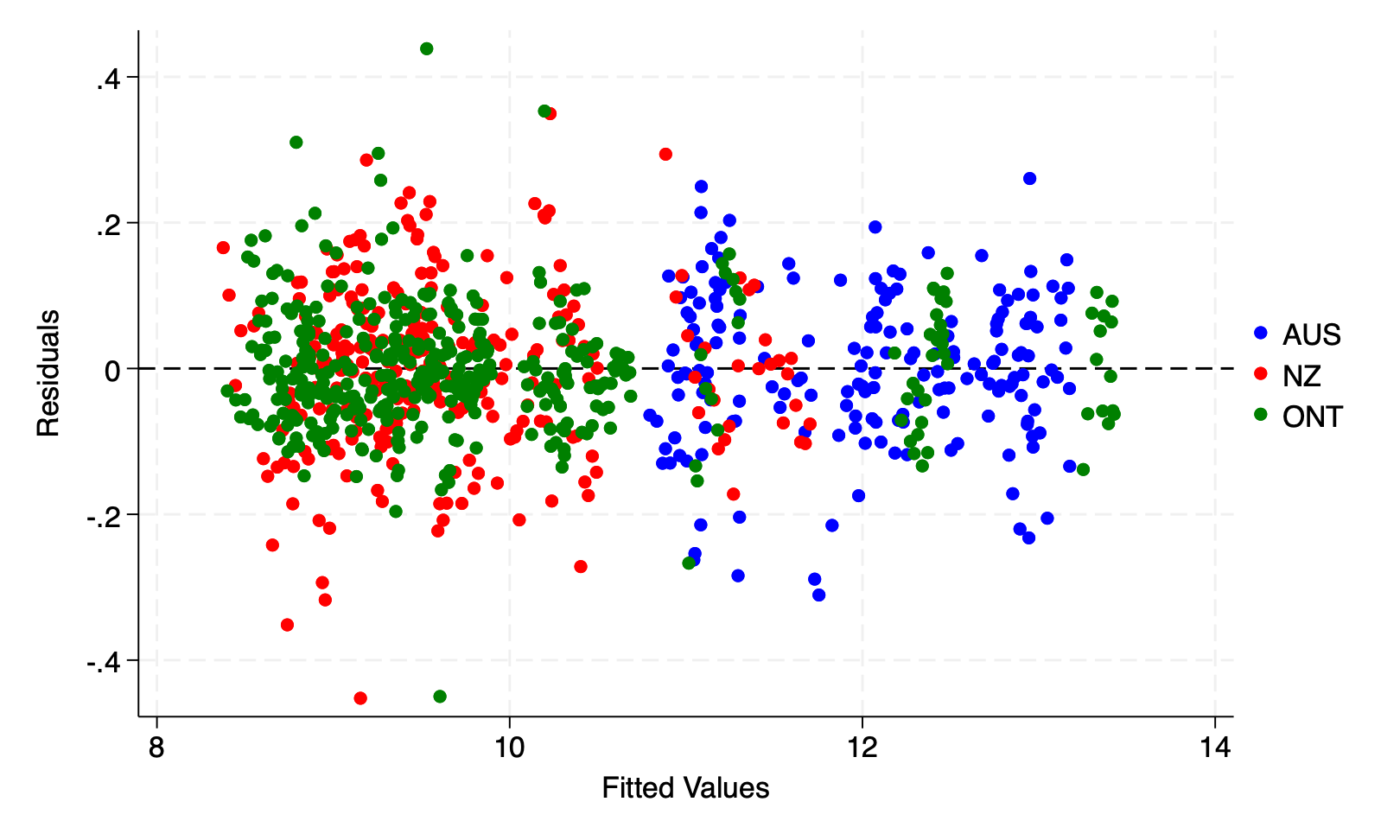
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | 0.559 | 0.140 | 0.255 | 0.955 |
| 2.NZ | 0.559 | 0.140 | 0.255 | 0.955 |
| 3.Ontario | 0.559 | 0.140 | 0.255 | 0.955 |
| Total | 0.559 | 0.140 | 0.255 | 0.955 |

SFACD-Kumb90-JTT-HN Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | eff\_LB95 | eff\_UB95 |
| Country code |  |  |  |
| 1.Aust | 0.741 | 0.778 | 0.704 |
| 2.NZ | 0.781 | 0.821 | 0.741 |
| 3.Ontario | 0.779 | 0.820 | 0.740 |
| Total | 0.772 | 0.811 | 0.733 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | eff\_LB95 | eff\_UB95 |
| dnsp |  |  |  |
| 1 | 0.516 | 0.543 | 0.491 |
| 2 | 0.542 | 0.570 | 0.515 |
| 3 | 0.881 | 0.928 | 0.837 |
| 4 | 0.658 | 0.693 | 0.626 |
| 5 | 0.696 | 0.733 | 0.661 |
| 6 | 0.504 | 0.530 | 0.479 |
| 7 | 0.557 | 0.586 | 0.529 |
| 8 | 0.769 | 0.809 | 0.730 |
| 9 | 0.956 | 0.995 | 0.910 |
| 10 | 0.937 | 0.985 | 0.890 |
| 11 | 0.806 | 0.849 | 0.766 |
| 12 | 0.849 | 0.894 | 0.806 |
| 13 | 0.961 | 0.997 | 0.916 |
| Total | 0.741 | 0.778 | 0.704 |





SFATLG-Kumb90-JTT-HN-Elasticities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | 0.819 | 0.192 | 0.014 | 1.025 |
| 2.NZ | 0.486 | 0.234 | 0.226 | 0.946 |
| 3.Ontario | 0.627 | 0.091 | 0.184 | 0.902 |
| Total | 0.624 | 0.157 | 0.161 | 0.942 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| dnsp |  |  |  |  |
| 1 | 0.881 | 0.084 | -0.003 | 0.962 |
| 2 | 1.156 | 0.086 | -0.193 | 1.050 |
| 3 | 1.137 | -0.020 | -0.151 | 0.966 |
| 4 | 0.791 | 0.191 | 0.043 | 1.025 |
| 5 | 0.994 | 0.154 | -0.098 | 1.051 |
| 6 | -0.028 | 0.529 | 0.537 | 1.039 |
| 7 | 0.329 | 0.449 | 0.291 | 1.069 |
| 8 | 1.380 | -0.052 | -0.331 | 0.996 |
| 9 | 0.661 | 0.294 | 0.096 | 1.050 |
| 10 | 0.521 | 0.338 | 0.189 | 1.048 |
| 11 | 1.010 | 0.168 | -0.127 | 1.050 |
| 12 | 0.412 | 0.302 | 0.277 | 0.992 |
| 13 | 1.398 | -0.028 | -0.347 | 1.023 |
| Total | 0.819 | 0.192 | 0.014 | 1.025 |

SFATLG-Kumb90-JTT-HN Efficiency Scores

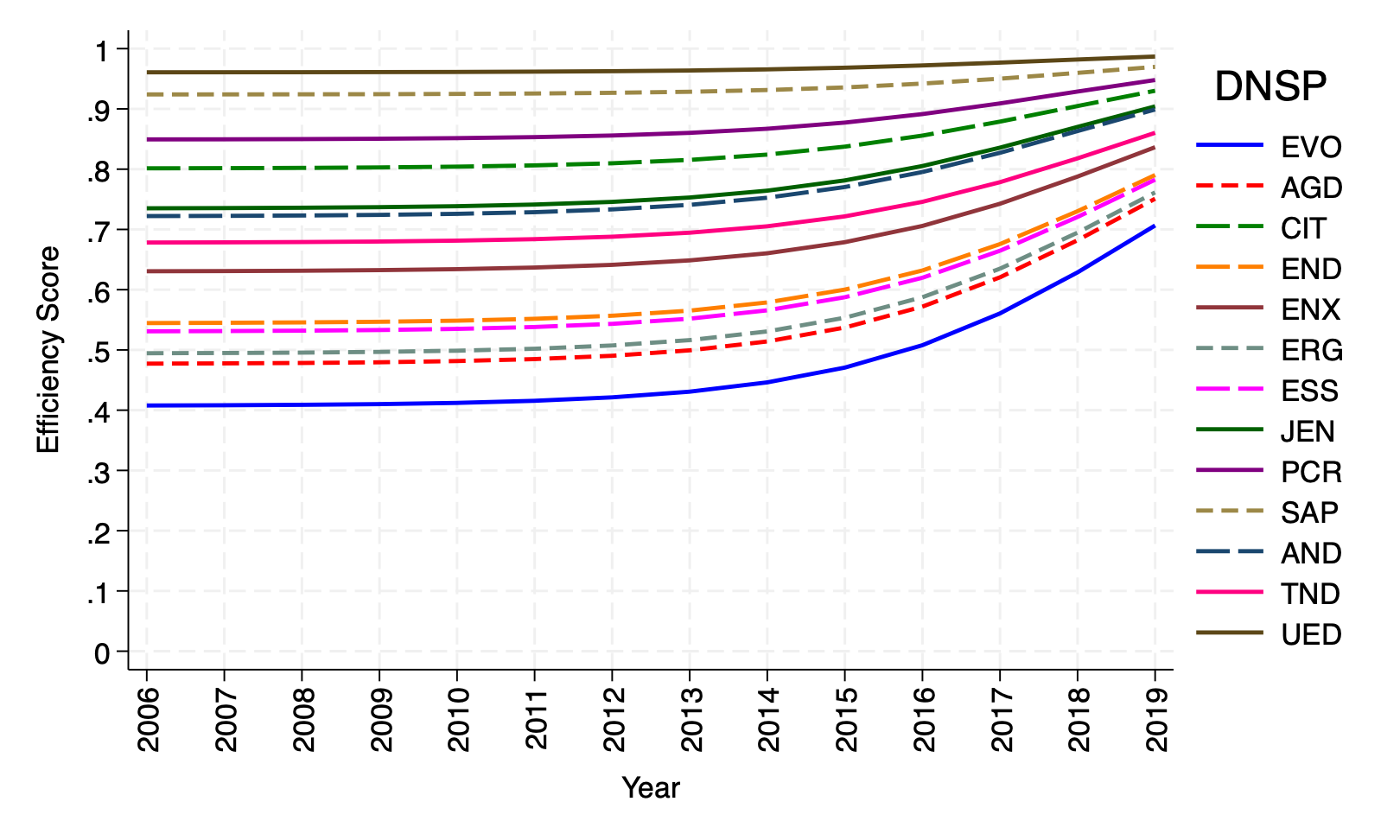
|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | eff\_LB95 | eff\_UB95 |
| dnsp |  |  |  |
| 1 | 0.474 | 0.498 | 0.451 |
| 2 | 0.539 | 0.566 | 0.513 |
| 3 | 0.834 | 0.877 | 0.793 |
| 4 | 0.601 | 0.632 | 0.572 |
| 5 | 0.678 | 0.713 | 0.645 |
| 6 | 0.555 | 0.583 | 0.528 |
| 7 | 0.588 | 0.618 | 0.560 |
| 8 | 0.777 | 0.817 | 0.739 |
| 9 | 0.874 | 0.920 | 0.831 |
| 10 | 0.935 | 0.983 | 0.889 |
| 11 | 0.766 | 0.806 | 0.729 |
| 12 | 0.721 | 0.758 | 0.685 |
| 13 | 0.968 | 0.998 | 0.925 |
| Total | 0.716 | 0.752 | 0.682 |

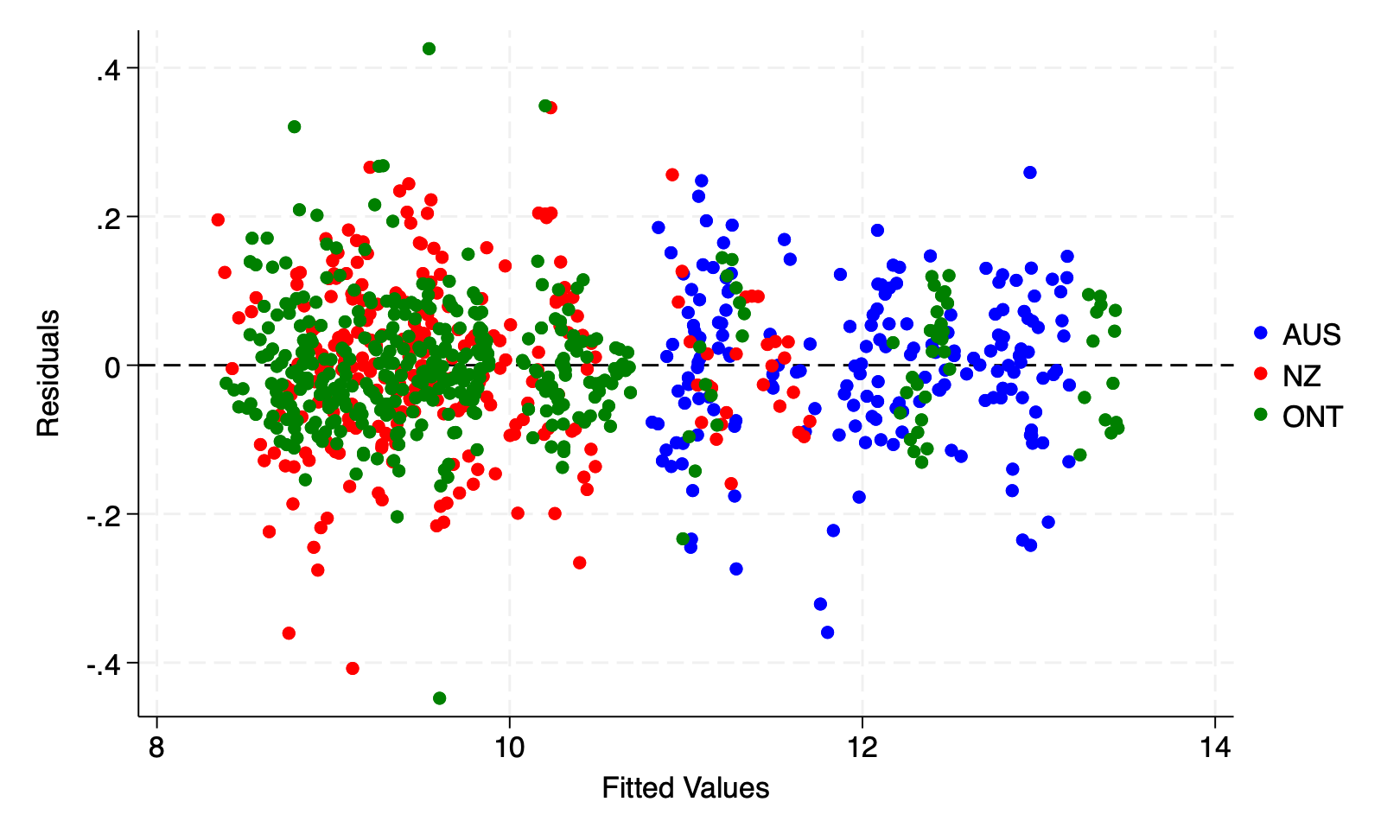
|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | eff\_LB95 | eff\_UB95 |
| Country code |  |  |  |
| 1.Aust | 0.716 | 0.752 | 0.682 |
| 2.NZ | 0.790 | 0.829 | 0.750 |
| 3.Ontario | 0.794 | 0.834 | 0.754 |
| Total | 0.776 | 0.815 | 0.737 |

SFATLG-Kumb90-JTT-HN Monotonicity Violations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | montot |
| Country code |  |  |  |  |
| 1.Aust | 4.9 | 23.1 | 50.5 | 55.5 |
| 2.NZ | 10.2 | 0.0 | 21.1 | 31.2 |
| 3.Ontario | 0.0 | 9.4 | 4.7 | 12.8 |
| Total | 4.2 | 9.4 | 19.6 | 27.6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | montot |
| dnsp |  |  |  |  |
| 1 | 0.0 | 0.0 | 50.0 | 50.0 |
| 2 | 0.0 | 0.0 | 100.0 | 100.0 |
| 3 | 0.0 | 100.0 | 100.0 | 100.0 |
| 4 | 0.0 | 0.0 | 7.1 | 7.1 |
| 5 | 0.0 | 0.0 | 100.0 | 100.0 |
| 6 | 64.3 | 0.0 | 0.0 | 64.3 |
| 7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8 | 0.0 | 100.0 | 100.0 | 100.0 |
| 9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 0.0 | 0.0 | 100.0 | 100.0 |
| 12 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 0.0 | 100.0 | 100.0 | 100.0 |
| Total | 4.9 | 23.1 | 50.5 | 55.5 |





SFATLG BC95-JTT-HN Alternative Elasticities (long period)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | aely1 | aely2 | aely3 | aelY |
| Country code |  |  |  |  |
| 1.Aust | -0.266 | -0.261 | 0.161 | -0.367 |
| 2.NZ | 0.541 | 0.466 | 0.161 | 1.168 |
| 3.Ontario | 1.077 | 0.142 | 0.161 | 1.380 |
| Total | 0.624 | 0.157 | 0.161 | 0.942 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | aely1 | aely2 | aely3 | aelY |
| dnsp |  |  |  |  |
| 1 | 0.536 | -0.056 | 0.161 | 0.641 |
| 2 | -0.388 | -0.645 | 0.161 | -0.872 |
| 3 | 0.605 | -0.354 | 0.161 | 0.411 |
| 4 | -0.323 | -0.420 | 0.161 | -0.582 |
| 5 | -0.491 | -0.515 | 0.161 | -0.846 |
| 6 | -0.973 | -0.013 | 0.161 | -0.825 |
| 7 | -1.075 | -0.055 | 0.161 | -0.970 |
| 8 | 0.449 | -0.288 | 0.161 | 0.321 |
| 9 | -0.653 | -0.184 | 0.161 | -0.676 |
| 10 | -0.729 | -0.200 | 0.161 | -0.769 |
| 11 | -0.421 | -0.239 | 0.161 | -0.499 |
| 12 | -0.119 | 0.028 | 0.161 | 0.070 |
| 13 | 0.121 | -0.458 | 0.161 | -0.176 |
| Total | -0.266 | -0.261 | 0.161 | -0.367 |

SFATLG BC95-JTT-HN Alternative Monotonicity Violations (long period)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mv1 | mv2 | mv3 | mvtot |
| Country code |  |  |  |  |
| 1.Aust | 69.2 | 89.6 | 0.0 | 100.0 |
| 2.NZ | 10.5 | 12.8 | 0.0 | 15.8 |
| 3.Ontario | 6.9 | 28.1 | 0.0 | 28.1 |
| Total | 21.3 | 36.4 | 0.0 | 39.6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mv1 | mv2 | mv3 | mvtot |
| dnsp |  |  |  |  |
| 1 | 0.0 | 100.0 | 0.0 | 100.0 |
| 2 | 100.0 | 100.0 | 0.0 | 100.0 |
| 3 | 0.0 | 100.0 | 0.0 | 100.0 |
| 4 | 100.0 | 100.0 | 0.0 | 100.0 |
| 5 | 100.0 | 100.0 | 0.0 | 100.0 |
| 6 | 100.0 | 64.3 | 0.0 | 100.0 |
| 7 | 100.0 | 100.0 | 0.0 | 100.0 |
| 8 | 0.0 | 100.0 | 0.0 | 100.0 |
| 9 | 100.0 | 100.0 | 0.0 | 100.0 |
| 10 | 100.0 | 100.0 | 0.0 | 100.0 |
| 11 | 100.0 | 100.0 | 0.0 | 100.0 |
| 12 | 100.0 | 0.0 | 0.0 | 100.0 |
| 13 | 0.0 | 100.0 | 0.0 | 100.0 |
| Total | 69.2 | 89.6 | 0.0 | 100.0 |