Time Varying BC95-AJTT-HN-hY-long period

SFACD BC95-AJTT-HN-hY Elasticities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | 3.047 | 20.968 | -3.361 | 20.654 |
| 2.NZ | 3.047 | 20.968 | -3.361 | 20.654 |
| 3.Ontario | 3.047 | 20.968 | -3.361 | 20.654 |
| Total | 3.047 | 20.968 | -3.361 | 20.654 |

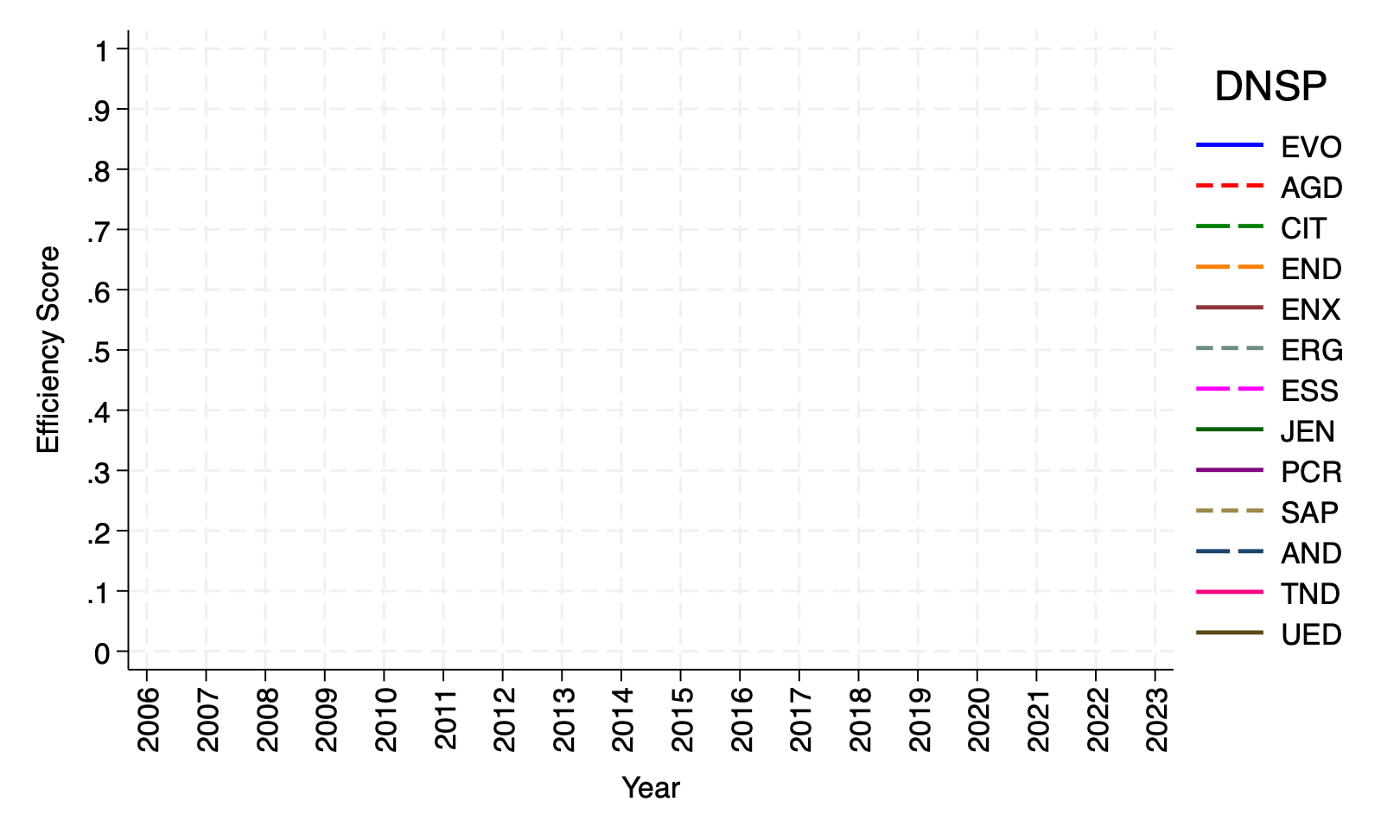
SFACD BC95-AJTT-HN Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | 95% lower bound of E(exp(-u)|e) | 95% upper bound of E(exp(-u)|e) |
| dnsp |  |  |  |
| 1 | . | . | . |
| 2 | . | . | . |
| 3 | . | . | . |
| 4 | . | . | . |
| 5 | . | . | . |
| 6 | . | . | . |
| 7 | . | . | . |
| 8 | . | . | . |
| 9 | . | . | . |
| 10 | . | . | . |
| 11 | . | . | . |
| 12 | . | . | . |
| 13 | . | . | . |
| Total | . | . | . |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | 95% lower bound of E(exp(-u)|e) | 95% upper bound of E(exp(-u)|e) |
| Country code |  |  |  |
| 1.Aust | . | . | . |
| 2.NZ | . | . | . |
| 3.Ontario | . | . | . |
| Total | . | . | . |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | |
|  | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| dnsp |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Total | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | | |
|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| Country code |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.Aust |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2.NZ |  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3.Ontario | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |  | . |
| Total | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |



SFATLG BC95-AJTT-HN-hY Elasticities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| Country code |  |  |  |  |
| 1.Aust | 0.187 | 0.153 | 0.639 | 0.979 |
| 2.NZ | 0.742 | 0.045 | 0.169 | 0.956 |
| 3.Ontario | 0.382 | 0.095 | 0.501 | 0.978 |
| Total | 0.453 | 0.092 | 0.427 | 0.972 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ely1 | ely2 | ely3 | elY |
| dnsp |  |  |  |  |
| 1 | 0.347 | 0.120 | 0.492 | 0.960 |
| 2 | -0.050 | 0.205 | 0.817 | 0.972 |
| 3 | 0.148 | 0.160 | 0.647 | 0.956 |
| 4 | -0.005 | 0.180 | 0.825 | 1.000 |
| 5 | 0.020 | 0.189 | 0.769 | 0.979 |
| 6 | 0.081 | 0.136 | 0.850 | 1.066 |
| 7 | 0.241 | 0.133 | 0.646 | 1.019 |
| 8 | 0.396 | 0.142 | 0.368 | 0.906 |
| 9 | 0.239 | 0.145 | 0.602 | 0.986 |
| 10 | 0.148 | 0.151 | 0.710 | 1.009 |
| 11 | 0.343 | 0.144 | 0.459 | 0.945 |
| 12 | 0.278 | 0.117 | 0.611 | 1.007 |
| 13 | 0.245 | 0.169 | 0.507 | 0.921 |
| Total | 0.187 | 0.153 | 0.639 | 0.979 |

SFATLG BC95-AJTT-HN-hY Monotonicity Violations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | montot |
| Country code |  |  |  |  |
| 1.Aust | 0.141 | 0.000 | 0.000 | 0.141 |
| 2.NZ | 0.000 | 0.073 | 0.260 | 0.260 |
| 3.Ontario | 0.090 | 0.000 | 0.000 | 0.090 |
| Total | 0.073 | 0.023 | 0.081 | 0.154 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | mon1 | mon2 | mon3 | montot |
| dnsp |  |  |  |  |
| 1 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | 1.000 | 0.000 | 0.000 | 1.000 |
| 3 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | 0.611 | 0.000 | 0.000 | 0.611 |
| 5 | 0.222 | 0.000 | 0.000 | 0.222 |
| 6 | 0.000 | 0.000 | 0.000 | 0.000 |
| 7 | 0.000 | 0.000 | 0.000 | 0.000 |
| 8 | 0.000 | 0.000 | 0.000 | 0.000 |
| 9 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10 | 0.000 | 0.000 | 0.000 | 0.000 |
| 11 | 0.000 | 0.000 | 0.000 | 0.000 |
| 12 | 0.000 | 0.000 | 0.000 | 0.000 |
| 13 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.141 | 0.000 | 0.000 | 0.141 |

SFATLG BC95-AJTT-HN-hY Efficiency Scores

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | 95% lower bound of E(exp(-u)|e) | 95% upper bound of E(exp(-u)|e) |
| dnsp |  |  |  |
| 1 | .5453331 | .4372375 | .6714953 |
| 2 | .641869 | .5124686 | .7787629 |
| 3 | .941298 | .8292896 | .9978368 |
| 4 | .799993 | .6447152 | .9497448 |
| 5 | .7706359 | .6117462 | .9386706 |
| 6 | .7373969 | .586996 | .8999102 |
| 7 | .7398963 | .5923777 | .8852256 |
| 8 | .7971594 | .6502466 | .9380403 |
| 9 | . | . | . |
| 10 | .9930496 | . | . |
| 11 | .8637156 | .7098807 | .9841906 |
| 12 | .98351 | .9397119 | .999561 |
| 13 | .99474 | . | . |
| Total | .8173831 | .6482283 | .9038119 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cost efficiency via E(exp(-u)|e) | 95% lower bound of E(exp(-u)|e) | 95% upper bound of E(exp(-u)|e) |
| Country code |  |  |  |
| 1.Aust | .8173831 | .6482283 | .9038119 |
| 2.NZ | .7629285 | .6296453 | .8893103 |
| 3.Ontario | .9290588 | .8134524 | .9948647 |
| Total | .8541157 | .7248997 | .9446269 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | |
|  | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| dnsp |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | .5397813 | .5432409 | .5204188 | .5257078 | .4676063 | .4313875 | .4306378 | .4116171 | .3767929 | .4039494 | .654346 | .6193835 | .5556474 | .5855635 | .6240859 | .6815046 | .6682251 | .7760993 | .5453331 |
| 2 | .5639482 | .6589376 | .4921541 | .5493665 | .4918358 | .5275351 | .4862205 | .6091229 | .5572016 | .4842286 | .5432861 | .6123011 | .7100676 | .7507806 | .8338417 | .8703768 | .9200747 | .8923615 | .641869 |
| 3 | .9563379 | .9563742 | .9621385 | .9453323 | .9385113 | .9465278 | .9033336 | .9157525 | .9037439 | .9195739 | .9229288 | .9349256 | .9562215 | .945314 | .953015 | .9639636 | .9621994 | .9571702 | .941298 |
| 4 | .8076349 | .7719461 | .6529164 | .7520866 | .7750494 | .7795052 | .7255759 | .8192958 | .7278816 | .7371798 | .7184647 | .8139508 | .8546456 | .8460969 | .9076693 | .8995484 | .9053338 | .9050923 | .799993 |
| 5 | .8092572 | .7644867 | .7478164 | .7589455 | .8017926 | .7444883 | .7010623 | .666966 | .7172341 | .6875611 | .7616463 | .7827294 | .7782492 | .8204621 | .8490228 | .8410196 | .8396196 | .7990862 | .7706359 |
| 6 | .6493549 | .7085382 | .6911289 | .7026976 | .7331024 | .6304751 | .6069047 | .7300562 | .7261471 | .673897 | .7008707 | .7784408 | .7909775 | .783905 | .7570044 | .8895735 | .8887066 | .8313639 | .7373969 |
| 7 | .799328 | .6861646 | .6105676 | .669631 | .6213616 | .6099366 | .5053164 | .5687445 | .6475889 | .7320436 | .8615425 | .8816053 | .8680428 | .8116788 | .8387263 | .85794 | .8902286 | .8576872 | .7398963 |
| 8 | .8129692 | .8039503 | .9210284 | .9046503 | .8342376 | .7814249 | .6629559 | .6875536 | .7246176 | .7304255 | .7061455 | .6916997 | .7522051 | .7622996 | .8502142 | .9031376 | .9189263 | .9004273 | .7971594 |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | .9934607 | .9936826 | .9935325 | .993469 | .993497 | .9928417 | .9927617 | .9926147 | .992671 | .9925743 | .9931996 | .9927747 | .9928867 | .9928448 | .9932532 | .9932239 | .9930469 | .9925584 | .9930496 |
| 11 | .9452838 | .9164192 | .9020259 | .8682868 | .8842727 | .8787031 | .8489228 | .8229489 | .8136601 | .7783726 | .7382229 | .8324113 | .8836592 | .8833336 | .8781071 | .8727921 | .8887569 | .9107012 | .8637156 |
| 12 | .983996 | .9851294 | .9852718 | .9836517 | .9798154 | .9809123 | .9781023 | .9844731 | .9843675 | .9873338 | .9863718 | .9816098 | .9825996 | .9844725 | .9836338 | .9829991 | .983453 | .9849865 | .98351 |
| 13 | .9944577 | .9946584 | .9947388 | .9948163 | .9947541 | .9943467 | .9943641 | .9946346 | .9946095 | .9947376 | .994462 | .9945839 | .9950488 | .9950703 | .9950096 | .9950278 | .9949964 | .9950035 | .99474 |
| Total | .8213175 | .815294 | .7894782 | .8040535 | .7929863 | .7748404 | .7363465 | .7669817 | .7638763 | .7601564 | .7984572 | .826368 | .8433543 | .8468185 | .8719653 | .8959256 | .9044639 | .9002114 | .8173831 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Reporting year | | | | | | | | | | | | | | | | | | | |
|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| Country code |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.Aust |  | .8213175 | .815294 | .7894782 | .8040535 | .7929863 | .7748404 | .7363465 | .7669817 | .7638763 | .7601564 | .7984572 | .826368 | .8433543 | .8468185 | .8719653 | .8959256 | .9044639 | .9002114 | .8173831 |
| 2.NZ |  | .8332171 | .8234753 | .804923 | .7984915 | .7849981 | .7871193 | .7873354 | .8069961 | .7819927 | .7871606 | .762248 | .7517343 | .7349877 | .7229946 | .6929722 | .7092521 | .6913455 | .6714686 | .7629285 |
| 3.Ontario | .9259326 | .9233545 | .9116786 | .9286649 | .9329053 | .9362636 | .9278394 | .9255874 | .9152789 | .9163373 | .9217413 | .9185666 | .9233625 | .9273391 | .9363017 | .9493923 | .95296 | .9495519 |  | .9290588 |
| Total | .9259326 | .8744036 | .8644706 | .8616426 | .8645706 | .8597074 | .8526782 | .8439594 | .8513299 | .8433026 | .8468071 | .8450438 | .8496146 | .8496308 | .8508578 | .8527072 | .8643789 | .8587689 | .7600142 | .8541157 |

