Assessing the use of different policy instruments to manage the unwanted release of nitrogen

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Human alterations to carbon and nitrogen natural fluxes

The global atmospheric processing of reactive nitrogen, illustrating the main sources, the main chemical pathways and products and the magnitudes of the fluxes (units Tg yr−1).

Source: Fowler et al. (2013)
Nitrogen leaching from gorse

Source: Mason et al. (2016)
Impact of “green” vehicle tax on pollution

- Average (per car) emissions from new registered passenger cars in Israel, 2009-14

<table>
<thead>
<tr>
<th>Year</th>
<th>New registrations</th>
<th>CO₂</th>
<th>HC</th>
<th>PM</th>
<th>NOₓ</th>
<th>CO</th>
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</thead>
<tbody>
<tr>
<td>2009</td>
<td>169,426</td>
<td>178</td>
<td>0.049</td>
<td>0.00053</td>
<td>0.028</td>
<td>0.351</td>
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<tr>
<td>2010</td>
<td>209,185</td>
<td>170</td>
<td>0.047</td>
<td>0.00066</td>
<td>0.025</td>
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<tr>
<td>2011</td>
<td>216,068</td>
<td>160</td>
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<td>0.00049</td>
<td>0.022</td>
<td>0.356</td>
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<tr>
<td>2012</td>
<td>198,271</td>
<td>152</td>
<td>0.042</td>
<td>0.00024</td>
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<td>0.363</td>
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<tr>
<td>2013</td>
<td>206,075</td>
<td>144</td>
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<td>0.0002</td>
<td>0.024</td>
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<td>2014</td>
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<td>140</td>
<td>0.037</td>
<td>0.00029</td>
<td>0.021</td>
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</tr>
</tbody>
</table>

% change (2009-14) 39% -21% -24% -45% -25% -4%

Source: OECD (2016)
Lake Taupo, New Zealand

Photo: www.co.nz
Variations in nitrogen use efficiency

Source: Zhang et al. (2015)
Thank you!

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www.oecd.org/environment
References


- Lake Taupo photo: www.co.nz