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Supplementary material Appendix 2 – Rarefaction analyses on sampling coverage in different studies

**Figure A1.** Results of rarefaction analyses showing the relationship between sampling coverage and sampling effort, measured as number of individuals detected in different sites. Sites within the same TDWG-1 regions are plotted in the same graph.
**Supplementary material Appendix 3 – Analyses on how alien species richness – alien species pool relationships vary along the urbanization gradient**

**Table A1.** Results of linear mixed models analyzing how alien species richness – alien species pool relationships vary along the urbanization gradient, based on different definitions of the alien species pool. **Bold** values indicate statistical significance (p < 0.05). Variable names are abbreviated: Alien species pool (ASP); Impervious surface cover (ISC).

<table>
<thead>
<tr>
<th></th>
<th>All species</th>
<th>Urban exploiters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Estimates</td>
<td>p</td>
</tr>
<tr>
<td>Intercept</td>
<td>-0.38</td>
<td>0.20</td>
</tr>
<tr>
<td>ln(ASP+1)</td>
<td><strong>-0.60</strong></td>
<td><strong>&lt;0.001</strong></td>
</tr>
<tr>
<td>ISC</td>
<td>-0.18</td>
<td>0.04</td>
</tr>
<tr>
<td>ln(ASP+1)*ISC</td>
<td><strong>-0.36</strong></td>
<td><strong>&lt;0.001</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>0.52</strong></td>
<td><strong>0.78</strong></td>
</tr>
</tbody>
</table>
Supplementary material Appendix 4 – How inclusion of interaction terms improved model performance in predicting ASR

**Table A2.** A summary of the chi-square test for the nested model. Variables names are abbreviated: Alien species pool quantified as number of species introduced (ASP<sub>All</sub>); Alien species pool quantified as number of urban-tolerant species introduced (ASP<sub>Urban</sub>); Impervious surface cover (ISC); Native species richness (NSR).

<table>
<thead>
<tr>
<th>Model</th>
<th>Interaction terms</th>
<th>AIC</th>
<th>AICc</th>
<th>R&lt;sup&gt;2&lt;/sup&gt;m</th>
<th>R&lt;sup&gt;2&lt;/sup&gt;c</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>ln(ASP&lt;sub&gt;All&lt;/sub&gt;+1), ISC, NSR</td>
<td>×</td>
<td>83.58</td>
<td>85.69</td>
<td>0.57</td>
<td>0.68</td>
<td></td>
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<tr>
<td></td>
<td>✓</td>
<td>58.61</td>
<td>62.13</td>
<td>0.70</td>
<td>0.83</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>ln(ASP&lt;sub&gt;Urban&lt;/sub&gt;+1), ISC, NSR</td>
<td>×</td>
<td>82.09</td>
<td>84.12</td>
<td>0.71</td>
<td>0.80</td>
<td></td>
</tr>
<tr>
<td></td>
<td>✓</td>
<td>67.46</td>
<td>70.99</td>
<td>0.63</td>
<td>0.69</td>
<td>&lt;0.001</td>
</tr>
</tbody>
</table>