## NUMERICAL DATA

**Carbon Sequestration by the Terrestrial Soil-Plant System in a Heavily Polluted Area of Riyadh City, Saudi Arabia (2018)**

Average total organic carbon content (g/g) of plant parts and soils organic carbon (SOC), Bulk density (g/cm³), BCF and TF among the studied locations for Calotropisprocera.

<table>
<thead>
<tr>
<th>Items</th>
<th>Location I</th>
<th>Location II</th>
<th>Location III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoot</td>
<td>0.436</td>
<td>0.4587</td>
<td>0.5019</td>
</tr>
<tr>
<td></td>
<td>0.4587</td>
<td>0.4932</td>
<td>0.4598</td>
</tr>
<tr>
<td></td>
<td>0.4056</td>
<td>0.4120</td>
<td>0.5134</td>
</tr>
<tr>
<td>Average</td>
<td>0.433433</td>
<td>0.454633</td>
<td>0.4917</td>
</tr>
<tr>
<td>Root</td>
<td>0.2595</td>
<td>0.3171</td>
<td>0.3276</td>
</tr>
<tr>
<td></td>
<td>0.2345</td>
<td>0.3211</td>
<td>0.3651</td>
</tr>
<tr>
<td></td>
<td>0.2523</td>
<td>0.3020</td>
<td>0.3567</td>
</tr>
<tr>
<td>Average</td>
<td>0.248767</td>
<td>0.3134</td>
<td>0.3498</td>
</tr>
<tr>
<td>Soil</td>
<td>0.06375</td>
<td>0.0716</td>
<td>0.0967</td>
</tr>
<tr>
<td></td>
<td>0.05956</td>
<td>0.0701</td>
<td>0.1099</td>
</tr>
<tr>
<td></td>
<td>0.06973</td>
<td>0.0726</td>
<td>0.0863</td>
</tr>
<tr>
<td>Average</td>
<td>0.064347</td>
<td>0.07143</td>
<td>0.097633</td>
</tr>
<tr>
<td>Soil Bulk Density (g/cm³)</td>
<td>1.666</td>
<td>1.022</td>
<td>0.991</td>
</tr>
<tr>
<td>BCF</td>
<td>3.866023</td>
<td>1.07339</td>
<td>3.582805</td>
</tr>
<tr>
<td>TF</td>
<td>1.742325</td>
<td>1.593</td>
<td>1.40566</td>
</tr>
</tbody>
</table>

Average total organic carbon content (g/g) of plant parts and the soils organic carbon (SOC), Bulk density (g/cm³), BCF and TF among the studied locations for Phragmitesaustralis.

<table>
<thead>
<tr>
<th>Items</th>
<th>Location I</th>
<th>Location II</th>
<th>Location III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoot</td>
<td>0.3315</td>
<td>0.3967</td>
<td>0.4012</td>
</tr>
<tr>
<td></td>
<td>0.356</td>
<td>0.3501</td>
<td>0.4236</td>
</tr>
<tr>
<td></td>
<td>0.321</td>
<td>0.3967</td>
<td>0.4467</td>
</tr>
<tr>
<td>Average</td>
<td>0.336167</td>
<td>0.381167</td>
<td>0.423833</td>
</tr>
<tr>
<td>Root</td>
<td>0.2445</td>
<td>0.2613</td>
<td>0.3097</td>
</tr>
<tr>
<td></td>
<td>0.2595</td>
<td>0.2785</td>
<td>0.3478</td>
</tr>
<tr>
<td></td>
<td>0.2345</td>
<td>0.2675</td>
<td>0.3980</td>
</tr>
<tr>
<td>Average</td>
<td>0.246167</td>
<td>0.2691</td>
<td>0.351833</td>
</tr>
<tr>
<td>Soil</td>
<td>0.02925</td>
<td>0.02768</td>
<td>0.03124</td>
</tr>
<tr>
<td></td>
<td>0.02234</td>
<td>0.02989</td>
<td>0.03451</td>
</tr>
<tr>
<td></td>
<td>0.02456</td>
<td>0.0298</td>
<td>0.03234</td>
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<tr>
<td>Average</td>
<td>0.025383</td>
<td>0.029123</td>
<td>0.032697</td>
</tr>
<tr>
<td>Soil Bulk Density (g/cm³)</td>
<td>1.234</td>
<td>1.145</td>
<td>0.956</td>
</tr>
<tr>
<td>BCF</td>
<td>9.698105</td>
<td>9.240119</td>
<td>10.76041</td>
</tr>
<tr>
<td>TF</td>
<td>1.365605</td>
<td>1.416451</td>
<td>1.204643</td>
</tr>
</tbody>
</table>

**Source:** https://doi.org/10.26872/jmes.2018.9.2.58
Soil carbon storage at different depths as influenced by different horticulture crops (2018)

Carbon Sequestration under Different Cropping Systems with Different Depth and Its Impact on Climate Change

<table>
<thead>
<tr>
<th>Horticulture land use system</th>
<th>Carbon stocks (Mg ha(^{-1}))</th>
<th>Total (1 m depth)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0-15 cm</td>
<td>15-30 cm</td>
</tr>
<tr>
<td>Mango orchard</td>
<td>1597.50</td>
<td>1584.14</td>
</tr>
<tr>
<td>Cashew orchard</td>
<td>1428.09</td>
<td>1412.58</td>
</tr>
<tr>
<td>Rose block</td>
<td>1134.30</td>
<td>1097.55</td>
</tr>
<tr>
<td>Vegetable block</td>
<td>1102.60</td>
<td>1043.70</td>
</tr>
<tr>
<td>Medicinal and aromatic block</td>
<td>1037.56</td>
<td>1016.25</td>
</tr>
</tbody>
</table>

SEm ± 70.56 68.45 88.45 210.45 431.45
CD at 5% 210.11 205.45 266.47 630.15 1315.56

<table>
<thead>
<tr>
<th>Horticulture land use system</th>
<th>CO2 sequestration (Mg ha(^{-1}))</th>
<th>0-15 cm</th>
<th>15-30 cm</th>
<th>30-50 cm</th>
<th>50-100 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mango orchard</td>
<td>5862.82</td>
<td>5813.79</td>
<td>7721.16</td>
<td>18560.10</td>
<td></td>
</tr>
<tr>
<td>Cashew orchard</td>
<td>5241.90</td>
<td>5184.16</td>
<td>6691.87</td>
<td>15117.75</td>
<td></td>
</tr>
<tr>
<td>Rose block</td>
<td>5241.09</td>
<td>4028.00</td>
<td>5339.62</td>
<td>12735.04</td>
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</tr>
<tr>
<td>Vegetable block</td>
<td>4046.54</td>
<td>3830.37</td>
<td>5016.52</td>
<td>11763.81</td>
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</tr>
<tr>
<td>Medicinal and aromatic block</td>
<td>3807.84</td>
<td>3729.63</td>
<td>4559.90</td>
<td>11258.60</td>
<td></td>
</tr>
</tbody>
</table>

SEm ± 268.55 250.45 325.45 731.45
CD at 5% 806.45 752.25 977.45 2314.45

Source: DOI: http://dx.doi.org/10.18782/2320-7051.6114

The Role of Haloxylon Plantations in Improving Carbon Sequestration Potential of Sand Dunes of Iran (2017)

The rate of carbon sequestration in different parts of the Haloxylon plantation and control area

<table>
<thead>
<tr>
<th>Haloxylon plantation</th>
<th>Parameter</th>
<th>Carbon sequestration (ton/ha)</th>
<th>Carbon sequestration percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant part</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Trunk</td>
<td></td>
<td>0.74</td>
<td>3</td>
</tr>
<tr>
<td>Branch</td>
<td></td>
<td>6.16</td>
<td>21</td>
</tr>
<tr>
<td>Root</td>
<td></td>
<td>5.83</td>
<td>19</td>
</tr>
<tr>
<td>Litter</td>
<td></td>
<td>3.73</td>
<td>12</td>
</tr>
<tr>
<td>Soil depth (cm)</td>
<td>0-15</td>
<td>8.00</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>15-30</td>
<td>5.90</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>30.36</td>
<td>100</td>
</tr>
</tbody>
</table>

Control area

| Soil depth (cm)     | 0-15      | 3.1                            | 52.5                           |
|                     | 15-30     | 2.8                            | 47.5                           |
|                     | Total     | 5.9                            | 100                            |

Source: http://dx.doi.org/10.15666/aeer/1601_321333