

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*.

Items	Calotropisprocera		
	Location I	Location II	Location III
Shoot	0.436	0.4587	0.5019
	0.4587	0.4932	0.4598
	0.4056	0.4120	0.5134
Average	0.433433	0.454633	0.4917
Root	0.2595	0.3171	0.3276
	0.2345	0.3211	0.3651
	0.2523	0.3020	0.3567
Average	0.248767	0.3134	0.3498
Soil	0.06375	0.0716	0.0967
	0.05956	0.0701	0.1099
	0.06973	0.0726	0.0863
Average	0.064347	0.07143	0.097633
Soil Bulk Density (g/cm ³)	1.666	1.022	0.991
BCF	3.866023	1.07339	3.582805
TF	1.742325	1.593	1.40566

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*

Items	Phragmitesaustrales		
	Location I	Location II	Location III
Shoot	0.3315	0.3967	0.4012
	0.356	0.3501	0.4236
	0.321	0.3967	0.4467
Average	0.336167	0.381167	0.423833
Root	0.2445	0.2613	0.3097
	0.2595	0.2785	0.3478
	0.2345	0.2675	0.3980
Average	0.246167	0.2691	0.351833
Soil	0.02925	0.02768	0.03124
	0.02234	0.02989	0.03451
	0.02456	0.0298	0.03234
Average	0.025383	0.029123	0.032697
Soil Bulk Density (g/cm ³)	1.234	1.145	0.956
BCF	9.698105	9.240119	10.76041
TF	1.365605	1.416451	1.204643

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

	> 20 year old cultivation				
Horticulture land	Carbon stocks (Mg ha⁻¹)				
use system	0-15 cm	15-3 cm	30-50 cm	50-100 cm	Total (1 m depth)
Mango orchard	1597.50	1584.14	2103.86	5057.25	10342.75
Cashew orchard	1428.09	1412.58	1823.4	4119.28	8783.35
Rose block	1134.30	1097.55	1454.94	3470.04	7156.83
Vegetable block	1102.60	1043.70	1366.90	3205.40	6718.60
Medicinal and aromatic block	1037.56	1016.25	1242.48	3067.74	6364.03
SEm ±	70.56	68.45	88.45	210.45	431.45
CD at 5%	210.11	205.45	266.47	630.15	1315.56

	4 year old cultivation			
Horticulture land use system	CO₂ sequestration (Mg ha⁻¹)			
	0-15 cm	15-30 cm	30-50 cm	50-100 cm
Mango orchard	5862.82	5813.79	7721.16	18560.10
Cashew orchard	5241.09	5184.16	6691.87	15117.75
Rose block	5241.09	4028.00	5339.62	12735.04
Vegetable block	4046.54	3830.37	5016.52	11763.81
Medicinal and aromatic block	3807.84	3729.63	4559.90	11258.60
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

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