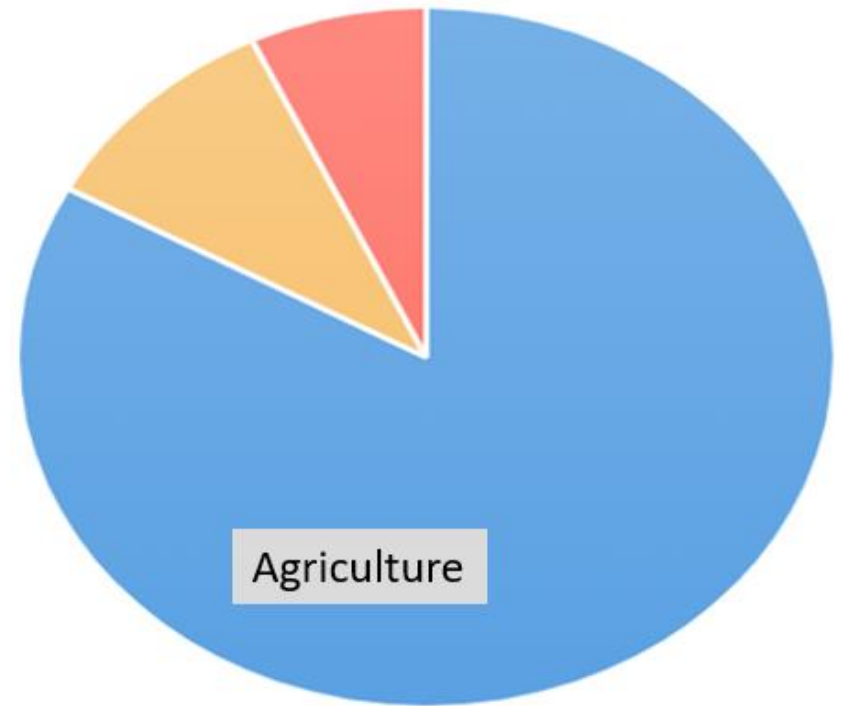


Planting in Oman with Water Saving Technology

Wafa Al Mammari



water consumption



Innovative farming solution for dry areas



Protects the seedling, Saves water
Makes it possible to plant in dry regions

Makes the root structure develop naturally, rather than stay near the surface, less need of pesticides

50 ml. of water is channeled from the reservoir per day with the help of the wick. Enough for the plant to stay strong and seek out water deep down

Makes the tree independent, after 6-18 months the Waterboxx can be removed and reused



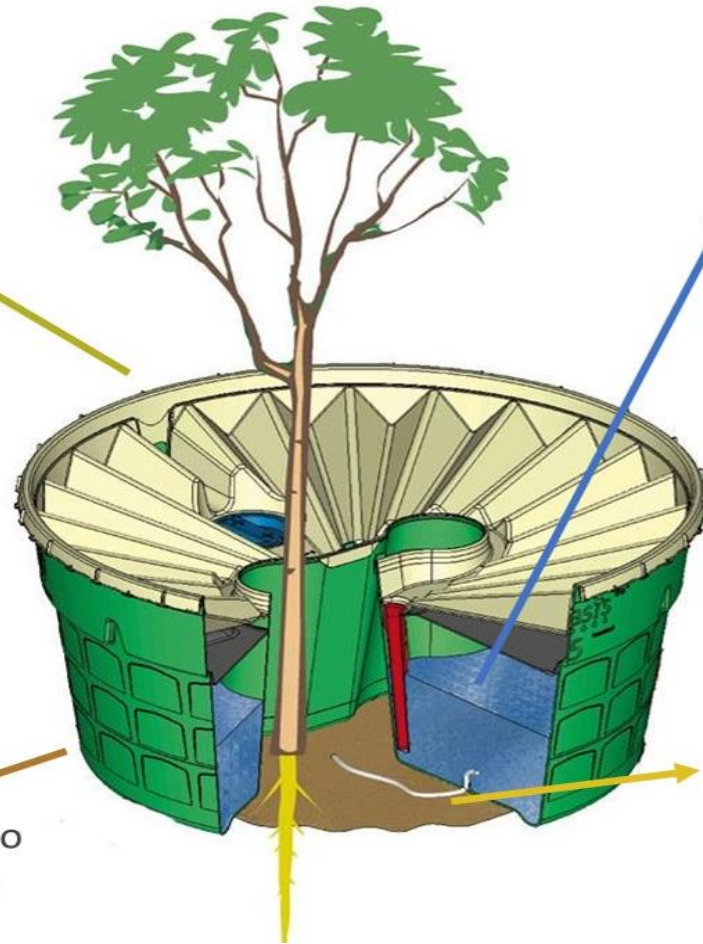
Water Saving Technology

Rain and dew is reaching the reservoir from the surface

The reservoir secures water supplies for 6-12 weeks

The Waterboxx can be removed after 6-12 months and be reused to breed another plant, up to 10 times

50 ml. of water is channelled from the reservoir per day, with the help of the wick. Enough for the plant to stay strong and deeper deep





Location sites of
plantation by using water
saving technology



To Make It Successful: Plan Your Plantation

When?



Where?



How?



What?



Mirbat



Mirbat



Mirbat



Water consumption calculation estimate using waterboxxes (wb)							Comparative calculation						
Date	Per tree and wb	ltrs water	ltrs water	ltrs water	ltrs water	Total ltrs water		per tree / conventional irrigation average	ltrs water	ltrs water	Total ltrs water	Percent	
Dhofar Site / planted	water use	months since planting	refill in Liters average 10 Ltr / month	Total water used per tree	Nr. of trees planted	Actual use	versus	Conventional plantations*	Individual tree days, until 14.04.21	estimated water usage	Total ltrs water If irrigated	Water saved	
	at start	until 14.04.21	total per group	until today			compare to	tree / day liters	days since planting	so far / tree	until today		
Mirbat													
April 2019		60	24	240	300	754	226 200	:	20	730	1 4600	1 1008 400	98%
Oct / Nov 2019		60	17	170	230	516	118 680	:	20	540	1 0800	557 2800	98%
Total this site						1 270	344 880	:		1270	25 400	16 581 200	98%
Madinat al Haq													
November 2019		60	17	170	230	248	57 040	:	20	540	10 800	267 8400	98%
March 2020		60	13	130	190	498	94 620	:	20	390	7 800	3 884 400	98%
April 2020		60	12	120	180	393	70 740	:	20	365	7 300	2 868 900	98%
Total this site						1 139	222 400	:		1295	25 900	9 431 700	98%
Teetam													
October 2020		60	6	60	120	595	71 400	:	20	180	3 600	2 142 000	97%
Total this site						595	71 400	:		180	3 600	2 142 000	97%
TOTAL water used above sites						3 004	638 680	:		2 745	54 900	28 154 900	98%**

Thank
You