

BADIA RESEARCH & DEVELOPMENT CENTRE		FIELD UNIT	AE2
Principal Topic:	VEGETATION DISTRIBUTIONS*		
Location:	Wherever there is a wadi section		
Related Topics:	1.	Hydrological Cycle	
	2.	Water harvesting	
	3.	Agriculture	
Questions:	1.	How close together are the plants?	
	2.	Does the regolith have a bearing on their distribution?	
	3.	Does slope have a bearing on their distribution?	
	4.	What moisture is present in the regolith?	
	5.	Would water harvesting be possible at this site?	
Hypotheses:	1.	Plants are widely spread to compete for moisture.	
	2.	Coarse regolith holds less moisture.	
	3.	Steeper slopes are too unstable for vegetation.	
	4.	Moisture levels increase with depth.	
	5.	There is potential for water harvesting using small dams.	
METHODS:		EQUIPMENT:	
1.	Random quadrat sampling (species; % cover; height; regolith)	Quadrat; meter rule (+FRS-4)	
2.	Compile a clinometer transect	Clinometer (+FRS-1)	
3.	Do infiltration measurements along transect	Tape; range poles	
4.	Draw a sketch plan of the site and plan for installing a water harvesting dam.	Infiltrometer; water (!) (FRS-2)	
NOTES:			
<p>*There are many such sections running across the main road between Safawi and Azraq. A particularly interesting site is at Qasr Amra (W. of Azraq) where water harvesting was once important.</p> <p>Obtain and view the "Excellent Development" CD entitled "Sustainable Farming and Development" (<a href="http://www.excellentdevelopment.com">www.excellentdevelopment.com</a>)</p>			





# FRS-4: QUADRAT SURVEY

LOCATION:

DATE:

RECORDER:

	A	B	C	D	E	F	G	H	J	K
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

Comments

**KEY:**

<input type="checkbox"/>	Fines	<input type="checkbox"/>	Stones	<input type="checkbox"/>	Boulders
<input type="checkbox"/>	Shrubs	<input type="checkbox"/>	Grasses	<input type="checkbox"/>	Other



LOCATION:

DATE:

RECORDER:

	A	B	C	D	E	F	G	H	J	K
1										
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Comments

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