



SUSTAINABLE LAND MANAGEMENT

Annual achievements 2012



Training courses for farmers in cooperation with JOHUD

Training courses for 2 communities in Karak and Ma'an had been done for the purpose of building farmers capacity in topics :-

- 1- water use and management
- 2- project proposal and small project management
- 3- Building women capacity in food processing to reach family food security



Course name	Target villages	No. of participants	beneficiaries
Compost manufacturing and fertilizing	Iraq - karak	15	CBOs
Small project management and project proposal	Iraq - aye karak	15	CBOs + farmers
	Basta- Ma'an	15	CBOs + farmers
Food security and processing	Iraq - aye karak	15	Women associations
	Basta- Ma'an	15	Women associations
Irrigation techniques and management	Iraq - aye karak	15	WUA + farmers
	Basta- Ma'an	15	CBOs + farmers



Gray water unites in cooperation with NCARE

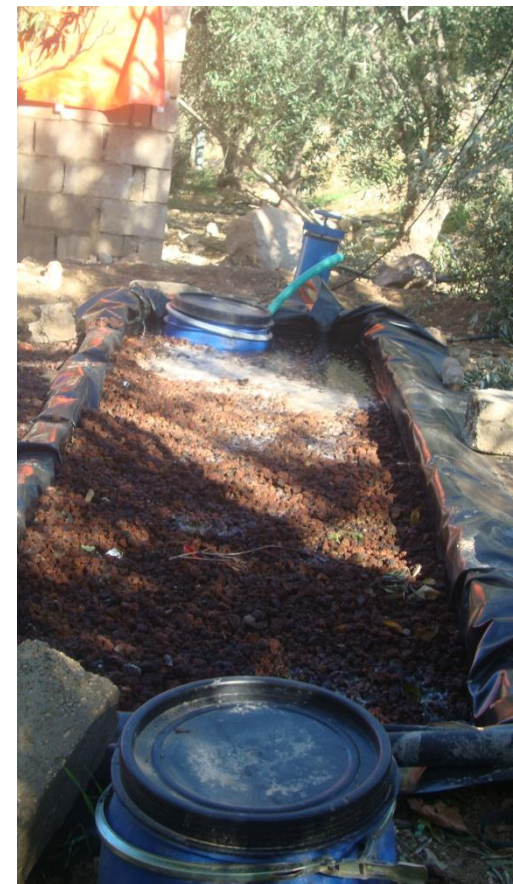
project is increasing awareness of farmers at household level to reuse gray water and for that purpose project support installation of 15 units :-

village	No. of units
Karak - Iraq	5
Tafila - Bsaira	5
Shoubak- jaheer	5
total	15

And to reach to the best use, training course for men and women at household level to:-

maintain this units ,best use for irrigation and expected environmental and health results had been done as

village	No. of trainers
Karak - Iraq	10
Tafila - Bsaira	10
Shoubak- jaheer	10
total	30





agricultural conservation techniques

Field crops demonstrations/ in cooperation with NCARE

- To encourage farmers to use agricultural conservation techniques in planting wheat , barley and vetch,
- field demonstrations have been done as :-

crop	Area / dunum			Total
	Karak	Tafila	Shoubak	
Wheat	120			120
Barley		150	188	338
Chrisna	100	50	50	200
Total	220	200	238	658



Water harvesting using VALKAN machine/ in cooperation with NCARE

- The purpose from this technique is harvesting more water in area planted with Cereals and to reduce soil erosion , it making a deep contour guideline (50 cm depth and 40 cm width) each 6-9 meter

Village	Area (dunum)	No. of beneficiaries
Iraq	626.682	154
Taibeh	630.551	20
Ader	163.760	47
Qaser	154	1
Total		222





Campaign against Red Hornet with MOA

- The purpose of the activity: - to reduce the losses caused by this insect to beekeepers and farmers fruit trees, especially grapes and figs ,and for that purpose project held extension days as :-



Village	No. of farmers
Aye	16
Tafila	19
Shoubak	27
Ma'an	21
Total	83



Extension program for fruit tree farmers

- This program is implemented by the ARMPH and in cooperation with the extension units of NCARE and aims to: -
 - 1 - increase awareness among project farmers and implementing agricultural development activity in areas of interest to farmers.
 - 2 - Field visits by extension officers to farmers in their positions and throughout the year to determine the problems they face.

table showing courses that have been implemented during the year 2012 .

Subject1	No. of participants	Field unit
Natural manure fermentation and how to use it	31	Karak
	19	Qaser
	21	shoubak
Automated harvest of olive trees	35	Qaser
	16	Karak
	15	Shoubak



Facilities diversification of income sources

- It is a jointed activity between(ARMPII / GEF)and food security project(MOA) to increase the rural household income by starting small project .

Activity	Area	No. of HH
Breeding sheep	Karak	22
	Qaser	14
	Mazar	14
	Tafila	50
	shoubak	52
	total	152

- Construction of small barn finished and waiting for contracture to deliver the sheep's(3/ HH)



Check dams

- One bid to build 1200 m³ in Tafila and Shoubak to reduce erosion .
- 60% of construction had been finished approximately 702m³ .
Hope to finish all by the end of the year





Agricultural roads (Iraq village)

The component of this bid is :-

- Establishment of 2 km
- Re establishment of 2 km
- Riprap to protect road and harvest water 700 m
- Canal rehabilitation 250 m
- Wadi bank protection to prevent erosion 350 m³

Contracture start working 2 weeks ago and 10% had been done and we expect to finish within 2 month's

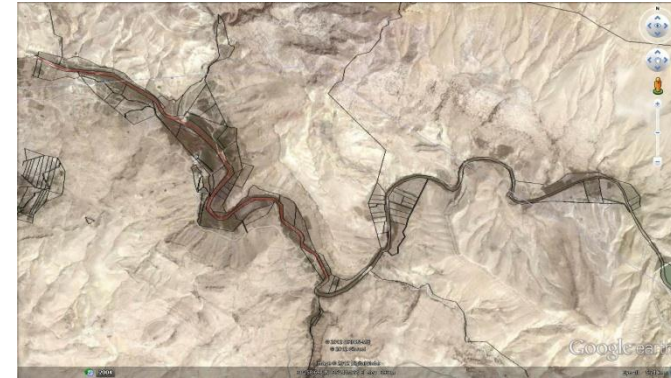




Wadi bank protecting (berbeita)

Protect the wadi by establishing 5000 m³ of gabion to :-

- 1- rehabilitate farmers' land for production which is located in the sides of the valley directly estimated (1500-2000) dunum.
- 2 - Increasing the flow of water to stream valley after determining the course of the valley, The increase is estimated at (20%) for the current situation because reducing waste water and determine the path
- 3 - enter new areas estimated (3000) dunum of untapped treasury and forestry lands and grasslands to agricultural investment product.
- 4 - Increase and improve agricultural production of vegetables and fruit quantity and quality and the introduction of new varieties with high economic value.





Concrete pools

Held in irrigated areas and designed to store water share of farmers.

57 farmer requested to build pools in their farms (603 dunum)

28 farms with 33 beneficiaries had finish construction pools with capacity of 898 m³



Drip irrigation

Held in irrigated areas

15 farmer requested to build pools in their farms (155 dunum)

2 farms with 4 beneficiaries had finish establishing the system.

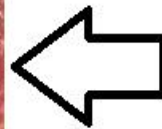




Proposals for next year

Al basateen al hijaziah / Ma'an

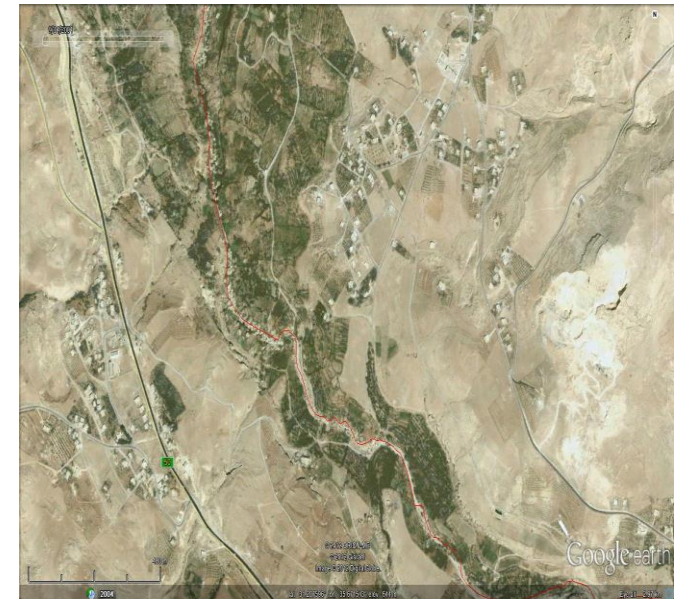
- Proposal submitted to IFAD
- Socio economic study had finished
- after final approval bidding procedures will start to establish:-
 - Artisian weel
 - Dripp irrigation
 - Estimated cost 150000 jd





Reduce water lose in wadi alkarak

- Proposal submitted to IFAD
 - WUA establishment procedures start with 22 farmers
 - Socio economic will start early 2013
-
- Estimated cost 335000 JD
 - GEF contribution 110000 JD



Al yobeel forest rehabilitation