

ANNEX - G
PROJECT EVALUATION

ANNEX-G PROJECT EVALUATION

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1. GENERAL

The objective of the project evaluation is to assess the economic and financial feasibility of the Project. For the economic evaluation, two measures of project worth, namely, economic internal rate of return (EIRR) and benefit-cost ratio (B/C) were examined. The financial evaluation was made by analyzing cash flow statement and profit and loss statement. The indirect benefits and socio-economic impacts were also studied briefly.

The project evaluation was based on the following basic assumptions:

- 1) The useful life of the Project is taken as 70 years (useful life of olives) for crop production scheme, 30 years for fodder shrub production scheme and 20 years for winter irrigation scheme.
- 2) For the calculation of EIRR, only direct benefits are counted, and any indirect and intangible benefits are not taken into account;
- 3) The exchange rate of U.S. Dollar (US\$) to Jordanian Dinar (JD) is taken to be JD 0.67 equivalent to US\$ 1.00 (January 1990);
- 4) Constant prices at January 1990 level are used in the economic and financial evaluations.

The project feature to be evaluated in this Annex are as follows:

(Unit: ha)

	Crop Production (Development by Individual Farmers)	Fodder Shrub Production (Development by Government)	Total
1) Water Harvesting Measures	8,510	4,480	12,990
- Micro-catchment	(5,600)	(2,380)	(7,980)
- Stone Walls/Earth Bank	(210)	-	(210)
- Stone Walls/Contour Furrow	(2,700)	(2,100)	(4,800)
2) Mechanized Farming	270	-	270
3) Check Dam	93	-	93
4) Winter Irrigation	33.9	-	33.9
Total	8,906.9	4,480	13,386.9

2. ECONOMIC EVALUATION

2.1 Economic Costs

The economic costs would consist of initial investment

cost and O&M cost, and can be obtained by applying the standard conversion factors (SCF) to these financial costs (excluding import, export and service taxes). SCF used to convert financial into economic costs was estimated at 1.0, because most of farm machinery and construction equipment are tax free. The unit construction costs and total economic costs are presented in Tables G.2.1 and G.2.2 and are summarized below.

(Unit: JD 1,000)

	Total
<u>Crop Production Scheme</u>	<u>2,608.3</u>
1) Water Harvesting Measures	
- Micro-catchment	313.6
- Stone Walls/Earth Bank	87.1
- Stone Walls/Contour Furrow	1,037.9
2) Mechanized Farming	-
3) Check Dam	970.3
4) Winter Irrigation	199.4
<u>Fodder Shrub Production Scheme</u>	<u>385.2</u>
1) Water Harvesting Measures	
- Micro-catchment	133.2
- Stone Walls/Contour Furrow	252.0
Whole Project	2,993.5

Land acquisition cost was excluded from the initial investment cost of the Project. For the economic evaluation, the opportunity cost of land to be used for the installed facilities and farm fields evaluate as distinct from the land acquisition cost which is used in the financial evaluation. In the project area, no opportunity cost in a national economic sense was evaluated for the land, since there was no potential alternative.

The implementing period of the water harvesting measures and fodder shrub production scheme is estimated at 10 years. As for the winter irrigation scheme, almost all of the costs for construction would be invested within one year. Therefore, it is assumed that all economic costs would occur in the 4th year in the Phase-I stage. The check dam development would be implemented during the period of 5 years in the Phase-II stage.

The annual disbursement schedule of these construction cost is presented in Table G.2.3.

2.2 Economic Benefits

In order to evaluate the expected economic benefits, economic prices of farm inputs and outputs were estimated as well as the estimation of economic cost as shown in Tables G.2.4 and G.2.5.

The economic benefits of the Project would consist of only

crop production. Based on the above economic prices, the economic net return per hectare for each crop was calculated as shown in Table G.2.6 to G.2.9, and total net return by each project component under the full production stage was estimated below. The details are shown in Table G.2.10.

(Unit: JD 1,000)

	Year		
	20th	21th	22th ^{/2}
<u>Crop Production Scheme</u>	982.1	974.7	962.9
1) Water Harvesting Measures	717.1	731.8	746.8
2) Mechanized Farming ^{/1}	(58.3)	(58.3)	(58.3)
3) Check Dam	230.3	208.2	181.4
4) Winter Irrigation	34.7	34.7	34.7
<u>Fodder Shrub Production Scheme</u>			
1) Water Harvesting Measures	51.3	51.3	51.3
Whole Project	1,033.4	1,026.0	1,014.2

Note: ^{/1} Mechanized farming was excluded from the evaluation because of no investment.

^{/2} 1st year = Initial year of Phase-I

In general, the economic benefit is defined as the difference of the net return between the future with and the future without project conditions. In the Project area, no net return under the future without project condition would be estimated, because crop cultivation without water harvesting measures and check dam and winter irrigation methods is so limited. Therefore, the economic benefit would accrue from the total net return under the future with project condition.

2.3 EIRR and B/C

In order to compute the EIRR and B/C, the annual economic costs and benefits flow were firstly prepared as shown in Table G.2.11 to G.2.16. From these tables, the EIRR and B/C were estimated as follows. The highest EIRR was 36.6% of the water harvesting development and -1.4% of fodder shrub production scheme for the lowest. EIRR of the check dam development was modest. These results indicate that the developments for water harvesting and winter irrigation would be economically viable. The implementation of these two developments is proposed in the project area.

As for the check dam development and fodder shrub production scheme, it is recommended that they are also implemented in the project area, though they do not prove high economic viability of the project.

In Jordan, a semi-arid country, water is so precious that the surface water resources in the country have to be used thoroughly. In view of the fullest use of scarce water, such schemes would have a big significance to Jordan situated in the

semi-arid zone. In addition, the fodder shrub development would be expected to contribute to the stabilization of nomads' living standard. The livestock raising of the nomads in and around the project area is an important income source in their livelihood. One of the problems of their livestock raising is the grazing. Namely, the grazing of livestock have been carried out mainly in the dry land with below 300mm of annual rainfall, and the availability of pasture is very limited and unstable. After completion of the fodder shrub production scheme, the grazing yard of 4,480 ha would be provided stably to the nomads, thereby it is expected to increase their income from livestock raising and to secure a sure means of their living.

	EIRR (%)	B/C
<u>Crop Production Scheme</u>	<u>20.2</u>	<u>2.45</u>
1) Water Harvesting Measures	36.6	3.98
2) Mechanized Farming	-	-
3) Check Dam	7.3	0.70
4) Winter Irrigation	13.1	1.41
<u>Fodder Shrub Production Scheme</u>	<u>-1.4</u>	<u>-2.50</u>
Whole Project	15.6	1.92

3. FINANCIAL EVALUATION

3.1 Financial Costs

The financial costs for initial investment of each farm management are estimated as shown in Table G.2.2, and are summarized as follows.

(Unit: JD 1,000)

	Total
<u>Crop Production Scheme</u>	<u>2,608.3</u>
1) Water Harvesting Measures	1,438.6
2) Mechanized Farming	-
3) Check Dam	970.3
4) Winter Irrigation	199.4
<u>Fodder Shrub Production Scheme</u>	<u>385.2</u>
1) Water Harvesting Measures	
- Micro-catchment	133.2
- Stone Walls/Contour Furrow	252.0
Whole Project	2,993.5

3.2 Financial Benefits

The financial benefits of the Project would accrue from

only crop production, and are assessed by financial prices as well as the estimation of financial costs. The net return per hectare (financial benefits) by each crop would be estimated as shown in Table G.3.1 to G.3.3, and are summarized as follows:

(Unit: JD/ha)

	Useful Life (Year)	Year		
		11th	12th	13th/1
<u>Crop Production Scheme</u>				
1) Water Harvesting Measures				
- Olives	70	11.7	17.7	21.1
- Grapes	15	71.3	77.1	79.2
- Apricots	20	23.1	25.1	25.9
2) Check Dam				
- Olives	70	646	987	1,178
- Grapes	15	4,508	4,842	4,954
- Apricots	20	2,188	2,379	2,454
3) Winter Irrigation				
- Wheat (Irrigated)	-	339.8	339.8	339.8
- Olives	20	646	987	1,178
- Grapes	20	4,508	4,842	4,954
- Apricots	20	2,188	2,379	2,454
<u>Fodder Shrub Production Scheme</u>				
1) Water Harvesting Measures				
- Fodder shrubs	30	13.0	13.0	13.0

/1 Year after planting

3.3 Financial Analyses of Farm Management

The farm management of each scheme was done by the following organization and private sector.

- | | |
|-----------------------------------|--------------------|
| 1) Crop Production Scheme | |
| - Water Harvesting | Individual farmers |
| - Check Dam | Individual farmers |
| - Winter Irrigation | Individual farmers |
| 2) Fodder Shrub Production Scheme | Government (MOA) |

The crop production scheme which are managed by individual farmers analyze separately the development measure. Farm size and cropping area of each development measure were assumed as follows:

- 1) Water Harvesting: 10 ha (100 dunum).
 - Micro-catchment
 - Fruits (Olives 1/3, Grapes 1/3, Apricots 1/3)
 - Stone Walls/Earth Bank/Contour Furrow
 - Fruits (Olives 1/3, Grapes 1/3, Apricots 1/3)
 - Stone Walls/Earth Bank/Contour Furrow
 - Fruits (Olives 1/3, Grapes 1/3, Apricots 1/3)
 - Field crops/mixture (inter cropping)
- 2) Check Dam: 0.3 ha (area of one site)
 - Fruits (Olives 1/3, Grapes 1/3, Apricots 1/3)

3) Winter Irrigation (fruits and irrigated wheat)

- Site: J1 3.4 ha
- Site: E1 2.3 ha
- Site: D2 7.7 ha
- Site: Abyad 20.5 ha

As for the fodder shrub production, all area would be managed by the Government. But in this study, its size was assumed at 10 ha (100 dunum), in order to make cooperative study with the crop production scheme. The farm management for the whole area which was estimated at about 4,480 ha is also analyzed.

3.3.1 Cash Flow Analysis

A considerable amount of initial investment costs would be required for construction of the Project. In order to grasp annual cash flow and repayment capability of loan, the cash flow statements by each project component were prepared as shown in Table G.3.4 to G.3.7. In this analysis, it is assumed that all initial investment costs would be generated by the investor from the private markets or the Government agencies (ACC and JCO). In case of the fodder shrub production scheme to be implemented by the Government, initial investment costs including construction, seedling, hired labour, etc. are invested from the government budget under the condition of no interest and no repayment. The loan conditions assumed comprehensively would be as follows:

- Interest : 8 %/year
- Repayment period : 6 years
- Grace period : 1 years

The total loan requirements for construction and operation of the Project were estimated as follows:

Year	Farm Size (ha)	Total Loan Requirement (JD 1,000)
<u>Crop Production Scheme</u>		
1) Water Harvesting Measures		
- Micro-catchment	10	15.9
- Stone Walls (Fruits)	10	13.9
- Stone Walls (Fruits + Field Crops)	10	1.2
2) Check Dam	0.3	10.2
3) Winter Irrigation	33.9	487.9
<u>Fodder Shrub Production</u> /1	10	4.0

/1 Invested from the Government budget.

As a result of analysis, the farm managements for micro-catchment and stone walls (fruits) have a difficulty for loan repayment because of a poor income in their cash flow, as shown in Table G.3.4 to G.3.7. In order to promote these schemes in the project area, it is necessary that initial investment costs

for facilities and fence are subsidized by the Government. The cash flow statement with the government subsidy are presented in Table G.3.8 to G.3.10.

3.3.2 Profit and Loss Analysis

Based on the cash flow statement as described above, the profit and loss statement (without government subsidy) of each scheme was prepared as shown in Table G.3.11 to G.3.14, and is summarized below.

(Unit: JD 1,000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Crop Production Scheme														
1) Water Harvesting Measures														
- Micro-catchment														
Net Income	-0.59	-0.28	-0.52	-0.42	-0.36	-0.28	-0.24	-0.20	-0.17	-0.17	-0.11	0.14	0.19	0.22
R.C.F	-0.59	-0.87	-1.39	-1.82	-2.18	-2.46	-2.70	-2.90	-3.07	-3.23	-3.35	-3.20	-3.02	-2.80
- Stone Walls (Fruits)														
Net Income	-0.59	-0.29	-0.58	-0.48	-0.42	-0.34	-0.30	-0.26	-0.23	-0.24	-0.19	0.07	0.11	0.15
R.C.F	-0.59	-0.88	-1.46	-1.94	-2.36	-2.70	-3.00	-3.26	-3.49	-3.73	-3.92	-3.85	-3.74	-3.60
- Stone Walls (Fruits + Field Crops)														
Net Income	-	1.61	1.51	1.52	1.54	1.55	1.57	1.59	1.61	1.61	1.61	1.61	1.61	1.61
R.C.F	-	1.61	3.12	4.64	6.18	7.73	9.30	10.89	12.49	14.10	15.70	17.31	18.92	20.52
2) Check Dam														
Net Income	-0.22	-0.17	-0.44	-0.29	-0.15	0.01	0.09	0.19	0.27	0.32	0.43	0.58	0.67	0.72
R.C.F	-0.22	-0.39	-0.83	-1.12	-1.27	-1.26	-1.17	-0.99	-0.72	-0.40	0.03	0.61	1.28	1.99
3) Winter Irrigation														
Net Income	-24.9	-11.9	-30.9	-14.9	2.5	22.1	21.2	32.9	42.4	50.9	61.0	78.3	84.3	85.6
R.C.F	-24.9	-36.8	-67.7	-82.6	-80.1	-58.0	-36.8	-4.0	38.4	89.3	150.3	228.6	312.9	398.5
Fodder Shrub Production Scheme														
Net Income	0	0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
R.C.F	0	0	0.13	0.26	0.39	0.52	0.65	0.78	0.91	1.04	1.17	1.30	1.43	1.56

Remark: R.C.F. Reserve carried forward

In this analysis, it is assumed that running costs would be generated by the investor from the Government agencies (ACC and JCO). The loan conditions would be as follows:

Interest: 8 %/year
 Repayment period: 6 years
 Grace period: 1 years

As shown in the above table, an annual surplus of micro-catchment and stone walls (fruits) would accrue from the 12th year from the start of operation (after the planting), but debt would continue until 14th year. In case of check dam and winter irrigation, an annual surplus would accrue from 5th to 6th year, and debt would turn to surplus in the 9th to 11th year. The farm management by stone walls (fruits + field crops) has a good balance.

As the results of profit and loss analysis, the farm

management by winter irrigation has the highest profitability, followed by the stone walls (field crops + fruits). These two development measures are financially feasible. The other project components are financially marginal, but it is recommended that they are implemented in the project area. From the stand point of the fullest use of the scarce water, the implementation of such projects will have a big significance on the national needs, as mentioned earlier.

In addition to the above analysis, the profit and loss statement with the Government subsidy are prepared as shown in Table G.3.15 to G.3.17. If the initial investment costs for facilities and fence are subsidized by the Government, the farm managements of crop production schemes will improve drastically.

4. INDIRECT BENEFIT AND SOCIAL IMPACTS

Various indirect benefits and socio-economic impacts are expected from the implementation of the project as mentioned hereinafter.

(1) Fruits Supply

The project area would produce a substantial quantities of crops which are estimated at 400 tons of olives (green), 870 tons of grapes and 570 tons of apricots. Since demand for these crops in the country will continue to increase with population growth, the project area will have to be a fruits supply base to the country.

	Wheat	Olives	Grapes	Apricots
Area (ha)				
- Water Harvesting	2,700	1,937	1,937	1,937
- Mechanized farming	270	-	-	-
- Check Dam	-	31	31	31
- Winter irrigation	-	11.3	11.3	11.3
Yield (t/ha)/1				
- Water Harvesting	1.8	0.093	0.2	0.095
- Mechanized farming	1.8	-	-	-
- Check Dam	-	5.3	11.5	9.0
- Winter irrigation	-	5.3	11.5	9.0
Production (t)				
- Water Harvesting	4,860	180	387	184
- Mechanized farming	486	-	-	-
- Check Dam	-	164	357	279
- Winter irrigation	-	60	130	102
Total Production	5,346	404	874	565

/1 Average yield from 11th to 15th years after planting.

(2) Contribution to National Economy

With completion of the project, the production of wheat, olives and grapes would reduce the annual amount of those imported crops. If the import of these crops continues in future, the saving of annual foreign exchange would amount to JD 762,000, as shown below:

Import Crop	Q'ty (ton)	Value (JD1,000)
Wheat/1	5,350	321
Olive oil/2	80	120
Grapes/1	870	321
Total		762

/1 1988 import price
 /2 Conversion factor from green olive to olive oil: 20 % 400t x 0.2 = 80t 1987 import price.

(3) Employment Opportunity

The project would increase the employment opportunity in Amman, Karak and Tafila governorates. The labor requirement of the farm management was estimated to be 17,800 man-days/year, as shown in the following table. The farmers would employ these laborer in the three governorates. Furthermore, about JD 71,200 of labor wage would annually flow in this region.

Type of Farm Management	Area			Labor Requirement			Total (MD/year)
	Wheat (ha)	Fruits (ha)	Fodder (ha)	Wheat (MD/ha)	Fruits (MD/ha)	Fodder (MD/ha)	
1) Water Harvesting	2,700	5,810	-	*	1.6	-	9,300
2) Mechanized Farming	270	-	-	*	-	-	*
3) Check Dam	-	93	-	-	67	-	6,200
4) Winter Irrigation	-	33.9	-	-	67	-	2,300
5) Fodder Shrub Production Scheme	-	-	4,480	-	-	*	*
Total							17,800
Labour Wage (JD/year) /1							71,200

* Negligible small /1 Excluding meal allowance

In addition, construction of the project would increase employment opportunities in the area. During the construction stage, the majority of workers would be unskilled laborers, most of whom would come from unemployment laborers.

(4) Marketing of Farm Inputs and Outputs

Further marketing in the area is likely expand as compared with the present condition. With anticipated agricultural production, more farm inputs and outputs could be marketed by the farmers and the proportion of sales would also increase relative to consumption. The agricultural cooperatives and merchants would have a large turnover which could increase their income.

Table G.2.1 UNIT CONSTRUCTION COST

		0-8%	8-12%	12-30%	0-30%
1) Water Harvesting Measures					
- Micro-catchment	(JD/ha)	56	56	56	-
- Stone Walls/Earth Bank	(JD/ha)	-	120	446	-
- Stone Walls/C. Furrow	(JD/ha)	-	120	446	-
2) Mechanized Farming		-	-	-	-
3) Check Dam	(JD/site)	-	-	-	3,120
4) Winter Irrigation					
- D-2	(JD/site)	-	-	-	43,600
- E-1	(JD/site)	-	-	-	22,900
- J-1	(JD/site)	-	-	-	44,700
- Abyad	(JD/site)	-	-	-	88,200

Table G.2.2 CONSTRUCTION COST (Unit: JD 1,000)

	Crop Production Scheme										Grand Total											
	Field Crops					Fodder Shrub																
	0-8%	8-12%	12-30%	Total	Mixture*	0-8%	8-12%	12-30%	Total	0-8%		8-12%	12-30%	Total								
Phase-I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199.4	-	-	199.4		
1) Winter Irrigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199.4
Phase-II	-	61.2	-	61.2	-	10.8	84.7	1,065.8	976.7	976.7	66.6	126.0	-	192.6	2,103.7	66.6	126.0	-	192.6	2,296.3		
1) Water Harvesting Measures	-	-	-	-	-	8.4	-	8.4	-	-	66.6	-	-	-	8.4	66.6	-	-	66.6	75.0		
- Micro-catchment	-	-	-	-	-	2.4	84.7	87.1	-	-	-	-	-	-	87.1	-	-	-	87.1	87.1		
- Stone Walls/Earth Bank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
- Stone Walls/C. Furrow	-	61.2	-	61.2	-	-	-	-	976.7	976.7	-	126.0	-	126.0	1,037.9	-	126.0	-	126.0	1,163.9		
2) Mechanized Farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3) Check Dam	-	-	-	-	-	-	-	970.3	-	-	-	-	-	-	970.3	-	-	-	-	970.3		
Phase-III	-	-	-	-	-	-	-	305.2	-	-	305.2	66.6	126.0	-	305.2	66.6	126.0	-	192.6	497.8		
1) Water Harvesting Measures	-	-	-	-	-	-	-	305.2	-	-	66.6	-	-	-	305.2	66.6	-	-	66.6	371.8		
- Micro-catchment	-	-	-	-	-	-	-	305.2	-	-	-	-	-	-	-	-	-	-	-	-		
- Stone Walls/Earth Bank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
- Stone Walls/C. Furrow	-	-	-	-	-	-	-	-	-	-	-	126.0	-	-	-	126.0	-	-	-	126.0		
2) Mechanized Farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3) Check Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Whole Area	-	61.2	-	61.2	305.2	10.8	84.7	1,570.4	976.7	976.7	133.2	252.0	-	385.2	2,608.3	133.2	252.0	-	385.2	2,993.5		
1) Water Harvesting Measures	-	-	-	-	-	8.4	-	313.6	-	-	133.2	-	-	-	313.6	133.2	-	-	133.2	446.8		
- Micro-catchment	-	-	-	-	-	2.4	84.7	87.1	-	-	-	-	-	-	87.1	-	-	-	87.1	87.1		
- Stone Walls/Earth Bank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
- Stone Walls/C. Furrow	-	61.2	-	61.2	-	-	-	-	976.7	976.7	-	252.0	-	252.0	1,037.9	-	252.0	-	252.0	1,289.9		
2) Mechanized Farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3) Check Dam	-	-	-	-	-	-	-	970.3	-	-	-	-	-	-	970.3	-	-	-	-	970.3		
4) Winter Irrigation	-	-	-	-	-	-	-	199.4	-	-	-	-	-	-	199.4	-	-	-	-	199.4		

Table G.2.3 ANNUAL DISBURSEMENT SCHEDULE OF CONSTRUCTION COST

(Unit: JD 1,000)

	Annual Development Area																				
	Phase-I			Phase-II			Phase-III			Annual Development Area											
	Fruit Crops (ha)	Field Crops (ha)	Mixture Crops (ha)	Fodder Shrubs (ha)	Fodder Total (ha)	Fruit Crops (ha)	Shrubs (ha)	Total (ha)	Ground Total	Phase-I	Phase-II	Phase-III	10	11	12	13	14	15			
Crop Production Scheme	199.4	61.2	1,065.8	976.7	-	2,103.7	305.2	-	305.2	2,608.3	199.4	-	420.8	420.8	420.7	420.6	61.0	61.0	61.0	61.1	61.1
1) Water Harvesting Measures	-	-	8.4	-	-	8.4	305.2	-	305.2	313.6	-	-	1.7	1.7	1.7	1.6	61.0	61.0	61.0	61.1	61.1
- Micro-catchment	-	-	87.1	-	-	87.1	-	-	-	87.1	-	-	17.4	17.4	17.4	17.5	-	-	-	-	-
- Stone Walls/Earth Bank	-	-	-	-	-	-	-	-	-	-	-	-	207.6	207.6	207.6	207.5	-	-	-	-	-
- Stone Walls/C. Furrow	-	61.2	-	976.7	-	1,037.9	-	-	-	1,037.9	-	-	-	-	-	-	-	-	-	-	-
2) Mechanized Farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Check Dam	-	-	970.3	-	-	970.3	-	-	-	970.3	-	-	194.1	194.1	194.0	194.0	-	-	-	-	-
4) Winter Irrigation	199.4	-	-	-	-	-	-	-	-	199.4	199.4	-	-	-	-	-	-	-	-	-	-
Fodder Shrub Production Scheme	-	-	-	-	192.6	192.6	-	192.6	192.6	385.2	-	-	38.5	38.5	38.5	38.6	38.5	38.5	38.5	38.5	38.5
1) Water Harvesting Measures	-	-	-	-	66.6	66.6	-	66.6	66.6	133.2	-	-	13.3	13.3	13.3	13.4	13.3	13.3	13.3	13.3	13.4
- Micro-catchment	-	-	-	-	66.6	66.6	-	66.6	66.6	133.2	-	-	13.3	13.3	13.3	13.4	13.3	13.3	13.3	13.3	13.4
- Stone Walls/C. Furrow	-	-	-	-	126.0	126.0	-	126.0	126.0	252.0	-	-	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
Whole Area	-	61.2	1,065.8	976.7	192.6	2,296.3	305.2	192.6	497.8	2,993.5	199.4	-	459.3	459.3	459.2	459.2	99.5	99.5	99.5	99.5	99.6
1) Water Harvesting Measures	-	-	8.4	-	66.6	75.0	305.2	66.6	371.8	446.8	-	-	15.0	15.0	15.0	15.0	74.3	74.3	74.3	74.4	74.5
- Micro-catchment	-	-	87.1	-	-	87.1	-	-	87.1	87.1	-	-	17.4	17.4	17.4	17.5	-	-	-	-	-
- Stone Walls/Earth Bank	-	-	-	-	-	-	-	-	-	-	-	-	232.8	232.8	232.8	232.7	25.2	25.2	25.2	25.2	25.2
- Stone Walls/C. Furrow	-	61.2	-	976.7	126.0	1,163.9	-	126.0	1,289.9	-	-	-	-	-	-	-	-	-	-	-	-
2) Mechanized Farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Check Dam	-	-	970.3	-	-	970.3	-	-	970.3	-	-	-	194.1	194.1	194.0	194.0	-	-	-	-	-
4) Winter Irrigation	199.4	-	-	-	-	-	-	-	199.4	199.4	199.4	-	-	-	-	-	-	-	-	-	-

* 1st year = initial year in Phase-I stage

Table G.2.4 ECONOMIC PRICES OF FARM INPUTS AND OUTPUTS (1990 CONSTANT PRICES)

	Financial Prices (Unit) (JD)	Economic Prices (JD)		Financial Prices (Unit) (JD)	Economic Prices (JD)		
Crops and Livestock Products			Seed and Seedling				
- Wheat	(ton)	140	185	- Wheat	(kg)	140	185
- Olive (green)	(ton)	250	250	- Olive (green)	(No.)	0.5	0.5
- Grape	(ton)	150	150	- Grape	(No.)	0.5	0.5
- Apricot	(ton)	325	325	- Apricot	(No.)	0.5	0.5
- Fodder shrubs				- Fodder shrubs	(No.)	0.5	0.5
Fertilizer			Agro-chemicals (litre)				
- Diammonium phosphate (DAP)				Hired Cost of Farm machinery *1			
(21:18:0)	(ton)	115	307	- Plow *2	(dunum)	1.00	1.00
- Urea (46%)	(ton)	110	232	- Seed drill	(dunum)	0.80	0.80
- T.S.P. (45%)	(ton)	160	251	- Sprayer *3	(dunum)	1.00	1.00
- Potassium chlor	(ton)	-	110	- Harvester *4	(dunum)	1.25	1.25
Others			- Grazing fee				
- Hired labor cost	(day)	5.00	5.00	MOA/JCO *6	(head)	0.005	0.005
- Bag	(No.)	0.45	0.45	Private *7	(dunum)	0.50	0.50
- Box	(No.)	0.25	0.25	- Construction cost of fence			
- Transportation *	(kg)	0.01	0.01	(m)	1.50	1.50	
- Water (from Water Authority)	(m3)	0.10	0.10				

*1 Including allowance of operator

*2 Disc plow

*4 Cutting wide: 3.8 m

*3 Capacity: 600 liter

*5 Including two meals

*8 By truck: Average cost from the project area to central market of Amman.

*6 Fodder Shrub Project (MOA/JCO)

*7 Grazing in the fields of wheat and barley.

Table G.2.5 ESTIMATION OF ECONOMIC PRICES

	Fertilizers					
	Wheat (IP)	DAP (IP)	Urea (IP)	TSP (IP)	Potassium Chlor (EP)	
1) World market price*1						
- 1985 constant price	(US\$/t)	113	194	130	146	75
(Conversion from 1985 to 1990)	1.594					
- 1990 constant price	(US\$/t)	180	309	207	233	120
2) Freight and insurance	(US\$/t)	30	40	40	40	40
3) CIF Aqaba	(US\$/t)	210	349	247	273	160
	(JD/t)*2	141	234	165	183	107
4) Port handling charge, loading and unloading cost, warehouse cost, handling charge, etc.	(JD/t)	+ 30	+ 30	+ 30	+ 30	- 30
5) Inland transportation cost (Aqaba - Amman)	(JD/t)	+ 10	+ 10	+ 10	+ 10	- 10
6) Marketing cost*3	(JD/t)	+ 14	+ 23	+ 17	+ 18	- 11
7) Market price at Amman	(JD/t)	195	297	222	241	56
8) Transportation cost (Amman - Project site)	(JD/t)	- 10	+ 10	+ 10	+ 10	+ 10
9) Economic farmgate price	(JD/t)	185	307	232	251	66
(Economic prices per nutrient of fertilizers)						
- N	(JD/t)		504			
- P205	(JD/t)			558		
- K20	(JD/t)				110	

Remarks:

*1 World Bank long run projection (2000)

- Wheat (Canadian), No.1 Western Red Spring (CWRS) 13.5%, basis in store Thunder Bay

- DAP (Diammonium Phosphate), bulk, FOB US Gulf

- Urea (any orifin), bagged, FOB N.W. Europe

- TSP (Triple Superphosphate), bulk, FOB US Gulf

- Potassium Chlor (Muriate of Potash), bulk, FOB Vancouver

*2 Exchange rate: 1.00 US\$ = JD 0.67

*3 10% of CIF price

Table G.2.6 (1/4) ECONOMIC NET RETURN PER HECTARE UNDER WITH
PROJECT CONDITION - WATER HARVESTING MEASURES

(1) OLIVES

Year	1	2	3	4	5	6	7
I. Gross Income							
1) Yield per one plant (kg/plant)	-	-	-	-	-	2.3	3.1
2) Planting density (No./ha)	5	5	5	5	5	5	5
3) Total yield (kg/ha)	-	-	-	-	-	12	16
4) Unit price (JD/kg)	0.25	0.25	0.25	0.25	0.25	0.25	0.25
5) Gross income (JD/ha)	-	-	-	-	-	3.0	4.0
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	5	2.5	1	0.5	-	-
2) Fertilizers							
- N (kg/ha)	0.50	0.90	0.5	1.15	0.6	1.35	0.7
- P205 (kg/ha)	0.56	0.45	0.3	0.60	0.3	0.75	0.4
- K20 (kg/ha)	0.11	0.95	0.1	1.20	0.1	1.45	0.2
3) Plowing (hrs/ha)	2.40	1.0	2.4	-	-	-	-
4) Labour (man-day/ha)							
- Harvesting	5.00	-	-	-	-	-	-
- Hoeing	5.00	2	10.0	0.25	1.3	0.25	1.3
5) Materials							
- Fence (m/ha)	1.50	40	60.0	-	-	-	-
- Bags (40kg) (lit/ha)	0.45	-	-	-	-	-	-
- Boxes (no./ha)	0.25	-	-	-	-	-	-
- Water (ton/ha)	0.10	2.40	0.2	2.40	0.2	-	-
6) Transportation (JD/kg)	0.01	-	-	-	-	-	-
7) Miscellaneous							
			3.8		0.2		0.1
							0.1
							0.2
							0.2
Total			79.8		3.2		2.7
							2.9
							3.2
							4.3
							5.0
III. Net Income (JD/ha)							
			(79.8)		(3.2)		(2.7)
							(2.9)
							(3.2)
							(1.3)
							(1.0)
Year	8	9	10	11	12	13-70	
I. Gross Income							
1) Yield per one plant (kg/plant)	6.5	8.5	12.2	13.0	18.0	20.8	
2) Planting density (No./ha)	5	5	5	5	5	5	
3) Total yield (kg/ha)	33	43	61	65	90	104	
4) Unit price (JD/kg)	0.25	0.25	0.25	0.25	0.25	0.25	
5) Gross income (JD/ha)	8.3	10.8	15.3	16.3	22.5	26.0	
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	-
2) Fertilizers							
- N (kg/ha)	0.50	2.30	1.2	2.45	1.2	2.65	1.3
- P205 (kg/ha)	0.56	1.75	1.0	2.00	1.1	2.25	1.3
- K20 (kg/ha)	0.11	3.00	0.3	3.40	0.4	3.75	0.4
3) Plowing (hrs/ha)	2.40	-	-	-	-	-	-
4) Labour (man-day/ha)							
- Harvesting	5.00	0.34	1.7	0.45	2.3	0.64	3.2
- Hoeing	5.00	0.25	1.3	0.25	1.3	0.25	1.3
5) Materials							
- Fence (m/ha)	1.50	-	-	-	-	-	-
- Bags (40kg) (lit/ha)	0.45	0.83	0.4	1.08	0.5	1.53	0.7
- Boxes (no./ha)	0.25	-	-	-	-	-	-
- Water (ton/ha)	0.10	-	-	-	-	-	-
6) Transportation (JD/kg)	0.01	-	0.3	-	0.4	-	0.6
7) Miscellaneous							
			0.3		0.4		0.4
							0.5
							0.5
Total			6.5		7.6		9.2
							9.6
							11.4
							12.5
III. Net Income (JD/ha)							
			1.8		3.2		6.1
							6.7
							11.1
							13.5

Table G.2.6 (2/4) ECONOMIC NET RETURN PER HECTARE UNDER WITH PROJECT CONDITION - WATER HARVESTING MEASURES

(2) GRAPES

Year	1	2	3	4	5	6	7
I. Gross Income							
1) Yield per one plant (kg/plant)	-	-	-	1.1	2.1	3.1	3.5
2) Planting density (No./ha)	44	44	44	44	44	44	44
3) Total yield (ton/ha)	-	-	-	48	92	136	154
4) Unit price (JD/kg)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
5) Gross income (JD/ha)	-	-	-	24.0	46.0	68.0	77.0
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	44	22.0	4	2.0	-	-
2) Fertilizers							
- N (kg/ha)	0.50	0.44	0.2	1.32	0.7	1.76	0.9
- P205 (kg/ha)	0.56	0.88	0.5	1.32	0.7	1.76	1.0
3) Plowing (hrs/ha)	2.40	7.00	16.8	-	-	-	-
4) Labour (man-day/ha)							
- Harvesting	5.00	18	90.0	2.2	11.0	2.2	11.0
- Hoeing	5.00	-	-	-	-	0.25	1.3
5) Materials							
- Fence (m/ha)	1.50	352	528.0	-	-	-	-
- Chemicals (lit/ha)	10.00	0.01	0.1	0.01	0.1	0.01	0.1
- Boxes(12kg)(no./ha)	0.25	-	-	-	-	4.0	1.0
- Water (ton/ha)	0.10	21.1	2.1	21.1	2.1	-	-
6) Transportation(JD/kg)	0.01	-	-	-	-	-	0.5
7) Miscellaneous							
			33.0		0.8		0.7
							0.9
							1.1
Total			692.7		17.4		13.7
							18.4
							22.3
							25.6
							27.1
III. Net Income (JD/ha)			(692.7)		(17.4)		(13.7)
							5.6
							23.7
							42.4
							49.9
Year	8	9	10	11	12	13-15	
I. Gross Income							
1) Yield per one plant (kg/plant)	3.7	3.8	4.0	4.3	4.6	4.7	
2) Planting density (No./ha)	44	44	44	44	44	44	
3) Total yield (ton/ha)	163	167	176	189	202	207	
4) Unit price (JD/kg)	0.5	0.5	0.5	0.5	0.5	0.5	
5) Gross income (JD/ha)	81.5	83.5	88.0	94.5	101.0	103.5	
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	
2) Fertilizers							
- N (kg/ha)	0.50	6.16	3.1	6.60	3.3	7.04	
- P205 (kg/ha)	0.56	5.28	3.0	5.72	3.2	6.16	
3) Plowing (hrs/ha)	2.40	-	-	-	-	-	
4) Labour (man-day/ha)							
- Harvesting	5.00	2.2	11.0	2.2	11.0	2.2	
- Hoeing	5.00	0.85	4.3	0.87	4.4	0.92	
5) Materials							
- Fence (m/ha)	1.50	-	-	-	-	-	
- Chemicals (lit/ha)	10.00	0.03	0.3	0.03	0.3	0.04	
- Boxes(12kg)(no./ha)	0.25	13.6	3.4	13.9	3.5	14.7	
- Water (ton/ha)	0.10	-	-	-	-	-	
6) Transportation(JD/kg)	0.01	-	1.6	-	1.7	-	
7) Miscellaneous			1.3		1.4		
Total			28.0		28.8		29.8
							30.5
							31.3
							31.6
III. Net Income (JD/ha)			53.5		54.7		58.2
							64.0
							69.7
							71.9

Table G.2.6 (3/4) ECONOMIC NET RETURN PER HECTARE UNDER WITH
PROJECT CONDITION - WATER HARVESTING MEASURES

(3) APRICOTS

Year	1	2	3	4	5	6	7
I. Gross Income							
1) Yield per one plant (kg/plant)	-	-	-	-	6.8	11.9	15.2
2) Planting density (No./ha)	3	3	3	3	3	3	3
3) Total yield (ton/ha)	-	-	-	-	20.4	35.7	45.6
4) Unit price (JD/kg)	0.325	0.325	0.325	0.325	0.325	0.325	0.325
5) Gross income (JD/ha)	-	-	-	-	6.6	11.6	14.8
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	3.0	1.5	0.3	0.2	-	-
2) Fertilizers							
- N (kg/ha)	0.50	0.48	0.2	0.72	0.4	0.96	0.5
- P205 (kg/ha)	0.56	0.27	0.2	0.42	0.2	0.57	0.3
- K20 (kg/ha)	0.11	0.39	0.0	0.57	0.1	0.75	0.1
3) Plowing (hrs/ha)	2.40	1.0	2.4	-	-	-	-
4) Labour (man-day/ha)							
- Harvesting	5.00	-	-	-	-	-	0.04
- Hoeing	5.00	2.00	10.0	0.15	0.8	0.15	0.8
5) Materials							
- Fence (m/ha)	1.50	24	36.0	-	-	-	-
- Chemicals (lit/ha)	10.00	0.005	0.1	0.005	0.1	0.005	0.1
- Boxes(12kg)(no./ha)	0.25	-	-	-	-	-	1.70
- Water (ton/ha)	0.10	1.4	0.1	1.4	0.1	-	-
6) Transportation(JD/kg)	0.01	-	-	-	-	-	0.2
7) Miscellaneous		2.5	0.1	0.1	0.1	0.1	0.2
Total		53.0	2.0	1.9	2.1	3.2	4.0
III. Net Income (JD/ha)		(53.0)	(2.0)	(1.9)	(2.1)	3.4	7.6

Year	8	9	10	11	12	13-20	
I. Gross Income							
1) Yield per one plant (kg/plant)	18.6	22.3	26.2	29.2	31.5	32.4	
2) Planting density (No./ha)	3	3	3	3	3	3	
3) Total yield (ton/ha)	55.8	66.9	78.6	87.6	94.5	97.2	
4) Unit price (JD/kg)	0.325	0.325	0.325	0.325	0.325	0.325	
5) Gross income (JD/ha)	18.1	21.7	25.5	28.5	30.7	31.6	
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	
2) Fertilizers							
- N (kg/ha)	0.50	1.71	0.9	1.80	0.9	1.89	
- P205 (kg/ha)	0.56	1.02	0.6	1.08	0.6	1.14	
- K20 (kg/ha)	0.11	1.35	0.1	1.44	0.2	1.50	
3) Plowing (hrs/ha)	2.40	-	-	-	-	-	
4) Labour (man-day/ha)							
- Harvesting	5.00	0.11	0.6	0.13	0.7	0.16	
- Hoeing	5.00	0.15	0.8	0.15	0.8	0.15	
5) Materials							
- Fence (m/ha)	1.50	-	-	-	-	-	
- Chemicals (lit/ha)	10.00	0.005	0.1	0.005	0.1	0.005	
- Boxes(12kg)(no./ha)	0.25	4.65	1.2	5.58	1.6	7.30	
- Water (ton/ha)	0.10	-	-	-	-	-	
6) Transportation(JD/kg)	0.01	-	0.6	0.7	0.8	0.9	
7) Miscellaneous		0.2	0.3	0.3	0.3	0.3	
Total		5.1	5.7	6.1	6.5	6.8	
III. Net Income (JD/ha)		13.0	16.0	19.4	22.0	24.7	

Table G.2.6 (4/4) ECONOMIC NET RETURN PER HECTARE UNDER WITH
PROJECT CONDITION - WATER HARVESTING MEASURES

(4) FODDER SHRUB (ATRIplex)

Year		1	2	3	4	5	6	7	
I. Gross Income									
1) Total yield	(kg/ha)	-	-	650	650	650	650	650	
2) Unit price	(JD/kg)	0.022	0.022	0.022	0.022	0.022	0.022	0.022	
3) Gross income	(JD/ha)	-	-	14.3	14.3	14.3	14.3	14.3	
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost									
1) Seedlings (piece/ha)	0.50	313	156.5	31	15.5	-	-	-	-
2) Fertilizers									
- N (kg/ha)	0.50	-	-	-	-	-	-	-	-
- P205 (kg/ha)	0.56	5	2.8	5	2.8	5	2.8	5	2.8
- K20 (kg/ha)	0.11	-	-	-	-	-	-	-	-
3) Labour (man-day/ha)									
- Pitting	5.00	15.7	78.5	1.6	8.0	-	-	-	-
- Planting	5.00	6.3	31.5	0.6	3.0	-	-	-	-
4) Miscellaneous			13.5		1.5		0.1		0.1
Total			282.8		30.8		2.9		2.9
III. Net Income (JD/ha)			(282.8)		(30.8)		11.4		11.4

Year		8	9	10	11	12	13-30		
I. Gross Income									
1) Total yield	(kg/ha)	650	650	650	650	650	650		
2) Unit price	(JD/kg)	0.022	0.022	0.022	0.022	0.022	0.022		
3) Gross income	(JD/ha)	14.3	14.3	14.3	14.3	14.3	14.3		
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost									
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	-	-	-
2) Fertilizers									
- N (kg/ha)	0.50	-	-	-	-	-	-	-	-
- P205 (kg/ha)	0.56	5	2.8	5	2.8	5	2.8	5	2.8
- K20 (kg/ha)	0.11	-	-	-	-	-	-	-	-
3) Labour (man-day/ha)									
- Pitting	5.00	-	-	-	-	-	-	-	-
- Planting	5.00	-	-	-	-	-	-	-	-
4) Miscellaneous			0.1		0.1		0.1		0.1
Total			2.9		2.9		2.9		2.9
III. Net Income (JD/ha)			11.4		11.4		11.4		11.4

Table G.2.7 (1/3) ECONOMIC NET RETURN PER HECTARE UNDER WITH PROJECT CONDITION- CHECK DAM

(1) OLIVES

Year		1	2	3	4	5	6	7	
I. Gross Income									
1) Yield per one plant (kg/plant)		-	-	-	-	-	2.3	3.1	
2) Planting density (No./ha)		286	286	286	286	286	286	286	
3) Total yield (kg/ha)		-	-	-	-	-	660	890	
4) Unit price (JD/kg)		0.25	0.25	0.25	0.25	0.25	0.25	0.25	
5) Gross income (JD/ha)		-	-	-	-	-	165	223	
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost									
1) Seedlings (piece/ha)	0.50	286	143	29	15	-	-	-	-
2) Fertilizers									
- N (kg/ha)	0.50	51	26	66	33	77	39	89	45
- P205 (kg/ha)	0.56	26	15	34	19	43	24	51	29
- K20 (kg/ha)	0.11	54	6	69	8	83	9	97	11
3) Plowing (hrs/ha)	10.00	1.0	10	-	-	-	-	-	-
4) Labour (man-day/ha)									
- Harvesting	5.00	-	-	-	-	-	-	-	-
- Hoeing	5.00	5.7	29	20	100	20	100	20	100
5) Materials									
- Fence (m/ha)	1.50	1,040	1,560	-	-	-	-	-	-
- Bags (40kg)(lit/ha)	0.45	-	-	-	-	-	-	-	-
- Boxes (no./ha)	0.25	-	-	-	-	-	-	-	-
- Water (ton/ha)	0.10	137	14	137	14	-	-	-	-
6) Transportation(JD/kg)	0.01	-	-	-	-	-	-	-	-
7) Miscellaneous			90		9		9		10
Total			1,893		198		181		194
III. Net Income (JD/ha)			(1,893)		(198)		(181)		(194)
Year		8	9	10	11	12	13-70		
I. Gross Income									
1) Yield per one plant (kg/plant)		6.5	8.5	12.2	13.0	18.0	20.8		
2) Planting density (No./ha)		286	286	286	286	286	286		
3) Total yield (kg/ha)		1,860	2,430	3,490	3,720	5,150	5,950		
4) Unit price (JD/kg)		0.25	0.25	0.25	0.25	0.25	0.25		
5) Gross income (JD/ha)		465	608	873	930	1,288	1,488		
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost									
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	-	-	-
2) Fertilizers									
- N (kg/ha)	0.50	132	66	140	70	152	76	152	76
- P205 (kg/ha)	0.56	100	56	114	64	129	72	129	72
- K20 (kg/ha)	0.11	172	19	194	21	215	24	215	24
3) Plowing (hrs/ha)	10.00	-	-	-	-	-	-	-	-
4) Labour (man-day/ha)									
- Harvesting	5.00	19.4	97	25.3	127	36.4	182	38.8	194
- Hoeing	5.00	20	100	20	100	20	100	20	100
5) Materials									
- Fence (m/ha)	1.50	-	-	-	-	-	-	-	-
- Bags (40kg)(no./ha)	0.45	47	21	61	27	87	39	93	42
- Boxes (no./ha)	0.25	-	-	-	-	-	-	-	-
- Water (ton/ha)	0.10	-	-	-	-	-	-	-	-
6) Transportation(JD/kg)	0.01	-	19	-	24	-	35	-	37
7) Miscellaneous			19		22		26		27
Total			397		455		554		572
III. Net Income (JD/ha)			68		153		319		358

Table G.2.7 (2/3) ECONOMIC NET RETURN PER HECTARE UNDER WITH PROJECT CONDITION- CHECK DAM

(2) GRAPES

Year	1	2	3	4	5	6	7
I. Gross Income							
1) Yield per one plant (kg/plant)	-	-	-	1.1	2.1	3.1	3.5
2) Planting density (No./ha)	2,500	2,500	2,500	2,500	2,500	2,500	2,500
3) Total yield (ton/ha)	-	-	-	2.75	5.25	7.75	8.75
4) Unit price (JD/kg)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
5) Gross income (JD/ha)	-	-	-	1,375	2,625	3,875	4,375
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	2,500	1,250	250	125	-	-
2) Fertilizers							
- N (kg/ha)	0.50	25	13	75	38	100	50
- P2O5 (kg/ha)	0.56	50	28	75	42	100	56
3) Plowing (hrs/ha)	10.00	1.0	10	-	-	-	-
4) Labour (man-day/ha)							
- Harvesting	5.00	5.7	29	20	100	20	100
- Hoeing	5.00	-	-	-	-	0	14.3
5) Materials							
- Fence (m/ha)	1.50	1,040	1,560	-	-	-	-
- Chemicals (lit/ha)	10.00	0.3	3	0.3	3	0.5	5
- Boxes (no./ha)	0.25	-	-	-	-	229	57
- Water (ton/ha)	0.10	1,200	120	1,200	120	-	-
6) Transportation (JD/kg)	0.01	-	-	-	-	28	-
7) Miscellaneous		151	-	21	-	10	23
Total		3,164	449	219	483	715	893
III. Net Income (JD/ha)		(3,164)	(449)	(219)	892	1,910	2,982
Year	8	9	10	11	12	13-15	
I. Gross Income							
1) Yield per one plant (kg/plant)	3.7	3.8	4.0	4.3	4.6	4.7	
2) Planting density (No./ha)	2,500	2,500	2,500	2,500	2,500	2,500	
3) Total yield (ton/ha)	9.25	9.50	10.00	10.75	11.50	11.75	
4) Unit price (JD/kg)	0.5	0.5	0.5	0.5	0.5	0.5	
5) Gross income (JD/ha)	4,625	4,750	5,000	5,375	5,750	5,875	
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	-
2) Fertilizers							
- N (kg/ha)	0.50	350	175	375	188	400	200
- P2O5 (kg/ha)	0.56	300	168	325	182	350	196
3) Plowing (hrs/ha)	10.00	-	-	-	-	-	-
4) Labour (man-day/ha)							
- Harvesting	5.00	20	100	20	100	20	100
- Hoeing	5.00	48.2	241	49.5	248	52.1	261
5) Materials							
- Fence (m/ha)	1.50	-	-	-	-	-	-
- Chemicals (lit/ha)	10.00	0.8	8	0.8	8	1	10
- Boxes (12kg) (no./ha)	0.25	771	193	792	198	833	208
- Water (ton/ha)	0.10	-	-	-	-	-	-
6) Transportation (JD/kg)	0.01	-	93	-	95	-	100
7) Miscellaneous		49	-	51	-	54	-
Total		1,027	1,070	1,129	1,174	1,219	1,233
III. Net Income (JD/ha)		3,598	3,680	3,871	4,201	4,531	4,642

Table G.2.7 (3/3) ECONOMIC NET RETURN PER HECTARE UNDER WITH PROJECT CONDITION- CHECK DAM

(3) APRICOTS

Year	1		2		3		4		5		6		7		
I. Gross Income															
1) Yield per one plant (kg/plant)	-	-	-	-	-	-	-	-	-	6.8	11.9	15.2	-	-	
2) Planting density (No./ha)	286	286	286	286	286	286	286	286	286	286	286	286	286	286	
3) Total yield (kg/ha)	-	-	-	-	-	-	-	-	-	1,940	3,400	4,350	-	-	
4) Unit price (JD/kg)	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	
5) Gross income (JD/ha)	-	-	-	-	-	-	-	-	-	631	1,105	1,414	-	-	
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost															
1) Seedlings (piece/ha)	0.50	286	143	29	15	-	-	-	-	-	-	-	-	-	-
2) Fertilizers															
- N (kg/ha)	0.50	46	23	69	35	92	46	114	57	134	67	143	72	152	76
- P205 (kg/ha)	0.56	26	15	40	22	54	30	69	39	80	45	86	48	92	52
- K20 (kg/ha)	0.11	37	4	54	6	72	8	92	10	109	12	114	13	123	14
3) Plowing (hrs/ha)	10.00	1.0	10	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour (man-day/ha)															
- Harvesting	5.00	-	-	-	-	-	-	-	-	3.9	20	6.8	34	8.7	44
- Hoeing	5.00	5.7	29	20	100	20	100	20	100	20	100	20	100	20	100
5) Materials															
- Fence (m/ha)	1.50	1,040	1,560	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals (lit/ha)	10.00	0.25	3	0.38	4	0.5	5	0.63	6	0.75	8	0.79	8	0.84	8
- Boxes(12kg)(no./ha)	0.25	-	-	-	-	-	-	-	-	162	41	283	71	363	91
- Water (ton/ha)	0.10	137	14	137	14	-	-	-	-	-	-	-	-	-	-
6) Transportation(JD/kg)	0.01	-	-	-	-	-	-	-	-	-	19	-	34	-	44
7) Miscellaneous															
			90		10		9		11		16		19		21
Total			1,891		206		198		223		328		399		450
III. Net Income (JD/ha)			(1,891)		(206)		(198)		(223)		303		706		964

Year	8		9		10		11		12		13-20				
I. Gross Income															
1) Yield per one plant (kg/plant)	18.6	22.3	26.2	29.2	31.5	32.4	-	-	-	-	-	-	-	-	-
2) Planting density (No./ha)	286	286	286	286	286	286	-	-	-	-	-	-	-	-	-
3) Total yield (kg/ha)	5,320	6,380	7,490	8,350	9,010	9,270	-	-	-	-	-	-	-	-	-
4) Unit price (JD/kg)	0.325	0.325	0.325	0.325	0.325	0.325	-	-	-	-	-	-	-	-	-
5) Gross income (JD/ha)	1,729	2,074	2,434	2,714	2,928	3,013	-	-	-	-	-	-	-	-	-
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost															
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers															
- N (kg/ha)	0.50	163	82	172	86	180	90	180	90	180	90	180	90	180	90
- P205 (kg/ha)	0.56	97	54	103	58	109	61	109	61	109	61	109	61	109	61
- K20 (kg/ha)	0.11	129	14	137	15	143	16	143	16	143	16	143	16	143	16
3) Plowing (hrs/ha)	10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour (man-day/ha)															
- Harvesting	5.00	10.6	53	12.8	64	15.0	75	16.7	84	18.0	90	18.5	93	100	100
- Hoeing	5.00	20	100	20	100	20	100	20	100	20	100	20	100	20	100
5) Materials															
- Fence (m/ha)	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals (lit/ha)	10.00	0.9	9	0.95	10	1	10	1	10	1	10	1	10	1	10
- Boxes(12kg)(no./ha)	0.25	443	111	532	133	624	156	696	174	751	188	773	193	193	193
- Water (ton/ha)	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation(JD/kg)	0.01	-	53	-	64	-	75	-	84	-	90	-	93	-	93
7) Miscellaneous			24		27		29		31		32		33		33
Total			500		557		612		650		677		689		689
III. Net Income (JD/ha)			1,229		1,517		1,822		2,064		2,251		2,324		2,324

Table G.2.8 ECONOMIC NET RETURN PER HECTARE UNDER
WITH PROJECT CONDITION - WHEAT

		Irrigated		Rainfed			
		Unit	Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
I. Gross Income							
- Unit Yield	(t/ha)			3.5		1.8	
- Unit price	(JD/t)			185		185	
- Gross income	(JD/ha)			647.5		333.0	
II. Production Cost							
1) Seeds	(kg/ha)	0.19		80	15.2	80	15.2
2) Fertilizers							
Compound, DAP	(kg/ha)	0.31		420	130.2	90	27.9
3) Agro-chemicals							
Herbicides	(lit/ha)	2.75		1	2.8	1	2.8
4) Farm Machinery							
- Plowing	(hrs/ha)	10.00		1	10.0	1	10.0
- Drilling	(hrs/ha)	9.00		1	9.0	1	9.0
- Spraying	(hrs/ha)	7.50		1	7.5	1	7.5
- Harvesting	(hrs/ha)	12.50		1	12.5	1	12.5
5) Materials							
Bags	(no./ha)	0.45		35	15.8	18	8.1
6) Transportation	(JD/kg)	0.01		3,500	35.0	1,800	18.0
7) Miscellaneous					11.9		5.6
Total	(JD/ha)				249.9		116.6
III. Net Income							
	(JD/ha)				397.6		216.4

Table G.2.9 SUMMARY OF NET RETURN PER HECTARE UNDER WITH PROJECT CONDITION

Year	Check Dam										Water Harvesting										Winter Irrigation										Farm M.	
	Fruits					Field Mixture (JD/ha)	Fruits					Wheat (JD/ha)	Fruits					Wheat (JD/ha)	Fruits					Average (JD/ha)	Wheat Rainfed (JD/ha)							
	Olives (JD/ha)	Grapes (JD/ha)	Apricots (JD/ha)	Average (JD/ha)	216		Olives (JD/ha)	Grapes (JD/ha)	Apricots (JD/ha)	Average (JD/ha)	216		Olives (JD/ha)	Grapes (JD/ha)	Apricots (JD/ha)	Average (JD/ha)	216		Olives (JD/ha)	Grapes (JD/ha)	Apricots (JD/ha)	Average (JD/ha)	216									
1	(1,893)	(3,164)	(1,891)	(2,316)	216	(79.8)	(692.7)	(53.0)	(275.2)	216	(1,893)	(3,164)	(1,891)	(2,316)	216	(1,893)	(3,164)	(1,891)	(2,316)	216	(1,893)	(3,164)	(1,891)	(2,316)	216	(1,893)	(3,164)	(1,891)	(2,316)	216		
2	(198)	(449)	(206)	(284)	216	(3.2)	(17.4)	(2.0)	(7.5)	216	(3.2)	(17.4)	(2.0)	(7.5)	216	(198)	(449)	(206)	(284)	216	(198)	(449)	(206)	(284)	216	(198)	(449)	(206)	(284)	216		
3	(181)	(219)	(198)	(199)	216	(2.7)	(13.7)	(1.9)	(6.1)	216	(2.7)	(13.7)	(1.9)	(6.1)	216	(181)	(219)	(198)	(199)	216	(181)	(219)	(198)	(199)	216	(181)	(219)	(198)	(199)	216		
4	(194)	892	(223)	158	216	(2.9)	5.6	(2.1)	0.2	216	(2.9)	5.6	(2.1)	0.2	216	(194)	892	(223)	158	216	(194)	892	(223)	158	216	(194)	892	(223)	158	216		
5	(204)	1,910	303	670	216	(3.2)	23.7	3.4	8.0	216	(3.2)	23.7	3.4	8.0	216	(204)	1,910	303	670	216	(204)	1,910	303	670	216	(204)	1,910	303	670	216		
6	(108)	2,982	706	1,193	216	(1.3)	42.4	7.6	16.2	216	(1.3)	42.4	7.6	16.2	216	(108)	2,982	706	1,193	216	(108)	2,982	706	1,193	216	(108)	2,982	706	1,193	216		
7	(83)	3,393	964	1,425	216	(1.0)	49.9	10.3	19.7	216	(1.0)	49.9	10.3	19.7	216	(83)	3,393	964	1,425	216	(83)	3,393	964	1,425	216	(83)	3,393	964	1,425	216		
8	68	3,598	1,229	1,632	216	1.8	53.5	13.0	22.8	216	1.8	53.5	13.0	22.8	216	68	3,598	1,229	1,632	216	68	3,598	1,229	1,632	216	68	3,598	1,229	1,632	216		
9	153	3,680	1,517	1,783	216	3.2	54.7	16.0	24.6	216	3.2	54.7	16.0	24.6	216	153	3,680	1,517	1,783	216	153	3,680	1,517	1,783	216	153	3,680	1,517	1,783	216		
10	319	3,871	1,822	2,004	216	6.1	58.2	19.4	27.9	216	6.1	58.2	19.4	27.9	216	319	3,871	1,822	2,004	216	319	3,871	1,822	2,004	216	319	3,871	1,822	2,004	216		
11	358	4,201	2,064	2,208	216	6.7	64.0	22.0	30.9	216	6.7	64.0	22.0	30.9	216	358	4,201	2,064	2,208	216	358	4,201	2,064	2,208	216	358	4,201	2,064	2,208	216		
12	605	4,531	2,251	2,462	216	11.1	69.7	23.9	34.9	216	11.1	69.7	23.9	34.9	216	605	4,531	2,251	2,462	216	605	4,531	2,251	2,462	216	605	4,531	2,251	2,462	216		
13	744	4,642	2,324	2,570	216	13.5	71.9	24.7	36.7	216	13.5	71.9	24.7	36.7	216	744	4,642	2,324	2,570	216	744	4,642	2,324	2,570	216	744	4,642	2,324	2,570	216		
14	744	4,642	2,324	2,570	216	13.5	71.9	24.7	36.7	216	13.5	71.9	24.7	36.7	216	744	4,642	2,324	2,570	216	744	4,642	2,324	2,570	216	744	4,642	2,324	2,570	216		
15	744	4,642	2,324	2,570	216	13.5	71.9	24.7	36.7	216	13.5	71.9	24.7	36.7	216	744	4,642	2,324	2,570	216	744	4,642	2,324	2,570	216	744	4,642	2,324	2,570	216		
16	744	-	2,324	1,023	216	13.5	-	24.7	12.7	216	13.5	-	24.7	12.7	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216		
17	744	-	2,324	1,023	216	13.5	-	24.7	12.7	216	13.5	-	24.7	12.7	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216		
18	744	-	2,324	1,023	216	13.5	-	24.7	12.7	216	13.5	-	24.7	12.7	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216		
19	744	-	2,324	1,023	216	13.5	-	24.7	12.7	216	13.5	-	24.7	12.7	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216		
20	744	-	2,324	1,023	216	13.5	-	24.7	12.7	216	13.5	-	24.7	12.7	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216	744	-	2,324	1,023	216		
21	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
22	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
23	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
24	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
25	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
26	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
27	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
28	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
29	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
30	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
31	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		
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70	744	-	-	248	216	13.5	-	-	4.5	216	13.5	-	-	4.5	216	744	-	-	248	216	744	-	-	248	216	744	-	-	248	216		

Table G.2.10 ECONOMIC BENEFITS IN THE WHOLE PROJECT AREA

(Unit: JD 1,000)

Year*	Crop Production Scheme (Development by Individual Farmers)							Fodder Shrub Production Scheme by Government	Ground Total
	Water Harvesting Measures				Check Dam	Winter Irrigation	Total		
	Field Crops	Fruits	Mixture*	Total					
4	-	-	-	-	-	-78.51	-78.5	-	-78.5
5	-	-	-	-	-	3.86	3.9	-	3.9
6	-	-19.8	-	-19.8	-43.0	6.74	-56.1	-127.3	-183.4
7	22	-20.4	94.6	96.2	-48.4	18.85	66.7	-141.2	-74.6
8	44.1	-20.8	189.2	212.5	-52.1	36.21	196.6	-136.0	60.6
9	66.1	-20.8	283.8	329.1	-49.1	53.94	333.9	-130.9	203.0
10	88.1	-20.2	378.4	446.3	-36.7	48.31	457.9	-125.8	332.1
11	110.2	-299.2	473	284.0	28.6	55.33	367.9	-120.6	247.3
12	110.2	-305.4	473	277.8	60.3	60.44	398.5	-115.5	283.0
13	110.2	-310.0	473	273.2	94.5	67.93	435.6	-110.3	325.3
14	110.2	-308.0	473	275.2	124.7	74.85	474.8	-105.2	369.6
15	110.2	-297.8	473	285.4	149.5	83.46	518.4	-100.1	418.3
16	110.2	20.8	473	604.0	168.4	87.13	859.5	32.3	891.8
17	110.2	51.6	473	634.8	187.7	87.13	909.6	51.3	960.9
18	110.2	84.1	473	667.3	205.1	87.13	959.5	51.3	1,010.8
19	110.2	111.5	473	694.7	219.8	34.68	949.2	51.3	1,000.5
20	110.2	133.9	473	717.1	230.3	34.68	982.1	51.3	1,033.4
21	110.2	148.6	473	731.8	208.2	34.68	974.7	51.3	1,026.0
22	110.2	163.6	473	746.8	181.4	34.68	962.9	51.3	1,014.2
23	110.2	177.0	473	760.2	152.7	34.68	947.6	51.3	998.9
24	110.2	188.4	473	771.6	123.9	-	895.5	51.3	946.8
25	110.2	196.3	473	779.5	95.1	-	874.6	51.3	925.9
26	110.2	175.9	473	759.1	80.7	-	839.8	51.3	891.1
27	110.2	151.1	473	734.3	66.3	-	800.6	51.3	851.9
28	110.2	124.3	473	707.5	51.9	-	759.4	51.3	810.7
29	110.2	97.6	473	680.8	37.5	-	718.3	51.3	769.6
30	110.2	70.8	473	654.0	23.1	-	677.1	51.3	728.4
31	110.2	61.9	473	645.1	23.1	-	668.2	51.3	719.5
32	110.2	53.0	473	636.2	23.1	-	659.3	51.3	710.6
33	110.2	44.0	473	627.2	23.1	-	650.3	51.3	701.6
34	110.2	35.1	473	618.3	23.1	-	641.4	51.3	692.7
35	110.2	26.1	473	609.3	23.1	-	632.4	51.3	683.7
36	110.2	26.1	473	609.3	23.1	-	632.4	46.1	678.5
37	110.2	26.1	473	609.3	23.1	-	632.4	41.1	673.5
38	110.2	26.1	473	609.3	23.1	-	632.4	36.0	668.4
39	110.2	26.1	473	609.3	23.1	-	632.4	30.8	663.2
40	110.2	26.1	473	609.3	23.1	-	632.4	25.7	658.1
41	110.2	26.1	473	609.3	23.1	-	632.4	20.5	652.9
42	110.2	26.1	473	609.3	23.1	-	632.4	15.4	647.8
43	110.2	26.1	473	609.3	23.1	-	632.4	10.3	642.7
44	110.2	26.1	473	609.3	23.1	-	632.4	5.1	637.5
45	110.2	26.1	473	609.3	23.1	-	632.4	-	632.4
:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:
75	110.2	26.1	473	609.3	23.1	-	632.4	-	632.4

* 1st year = initial year in the Phase-I stage

Table G.2.11 INTERNAL RATE OF RETURN FOR WATER HARVESTING MEASURES

(Unit: JD 1,000)

Year	Field Crops			Fruits Crops			Mixture*				Total Area			
	Area	Cost	O&M Benefit	Area	Cost	O&M Benefit	Area	Cost	O&M	Benefit	Area	Cost	O&M	Benefit
6	102	12.2	-	72	19.1	-	438	195.3	-	612	226.6	-		
7	102	12.2	22	72	19.1	-	438	195.3	94.6	612	226.6	-		
8	102	12.2	44.1	72	19.1	-	438	195.3	189.2	612	226.6	-		
9	102	12.2	66.1	72	19.1	-	438	195.3	283.8	612	226.6	-		
10	102	12.2	88.1	72	19.1	-	438	195.3	378.4	612	226.6	-		
11	-	-	110.2	1,090	61.0	-	-	-	473	1,090	61.0	-		
12	-	-	110.2	1,090	61.0	-	-	-	473	1,090	61.0	-		
13	-	-	110.2	1,090	61.0	-	-	-	473	1,090	61.0	-		
14	-	-	110.2	1,090	61.0	-	-	-	473	1,090	61.0	-		
15	-	-	110.2	1,090	61.0	-	-	-	473	1,090	61.0	-		
16	-	-	110.2	-	-	20.8	-	-	473	-	-	604.0		
17	-	-	110.2	-	-	51.6	-	-	473	-	-	634.8		
18	-	-	110.2	-	-	84.1	-	-	473	-	-	667.3		
19	-	-	110.2	-	-	111.5	-	-	473	-	-	694.7		
20	-	-	110.2	-	-	133.9	-	-	473	-	-	717.1		
21	-	-	110.2	-	-	148.6	-	-	473	-	-	731.8		
22	-	-	110.2	-	-	163.6	-	-	473	-	-	746.8		
23	-	-	110.2	-	-	177.0	-	-	473	-	-	760.2		
24	-	-	110.2	-	-	188.4	-	-	473	-	-	771.6		
25	-	-	110.2	-	-	196.3	-	-	473	-	-	779.5		
26	-	-	110.2	-	-	175.9	-	-	473	-	-	759.1		
27	-	-	110.2	-	-	151.1	-	-	473	-	-	734.3		
28	-	-	110.2	-	-	124.3	-	-	473	-	-	707.5		
29	-	-	110.2	-	-	97.6	-	-	473	-	-	680.8		
30	-	-	110.2	-	-	70.8	-	-	473	-	-	654.0		
31	-	-	110.2	-	-	61.9	-	-	473	-	-	645.1		
32	-	-	110.2	-	-	53.0	-	-	473	-	-	636.2		
33	-	-	110.2	-	-	44.0	-	-	473	-	-	627.2		
34	-	-	110.2	-	-	35.1	-	-	473	-	-	618.3		
35	-	-	110.2	-	-	26.1	-	-	473	-	-	609.3		
36	-	-	110.2	-	-	26.1	-	-	473	-	-	609.3		
:	:	:	:	:	:	:	:	:	:	:	:	:		
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75	-	-	110.2	-	-	26.1	-	-	473	-	-	609.3		
IRR (%)													36.56	
B/C (10% Discount Rate)													3.98	

Table G.2.12 INTERNAL RATE OF RETURN FOR CHECK DAM

(Unit: JD 1,000)

Year*	Cost	Benefit			Total
		Olives	Grapes	Apricots	
6	194.1	-11.7	-19.6	-11.7	-43.0
7	194.1	-13.0	-22.4	-13.0	-48.4
8	194.1	-14.1	-23.8	-14.2	-52.1
9	194.0	-15.3	-18.2	-15.6	-49.1
10	194.0	-16.6	-6.4	-13.7	-36.7
11	-	-5.5	31.7	2.4	28.6
12	-	-4.8	55.5	9.6	60.3
13	-	-3.2	79.2	18.5	94.5
14	-	-1.1	96.5	29.3	124.7
15	-	2.2	108.6	38.7	149.5
16	-	5.1	116.2	47.1	168.4
17	-	9.3	123.3	55.1	187.7
18	-	13.5	129.7	61.9	205.1
19	-	17.2	135.7	66.9	219.8
20	-	19.8	140.5	70.0	230.3
21	-	22.2	114.4	71.6	208.2
22	-	23.1	86.3	72.0	181.4
23	-	23.1	57.6	72.0	152.7
24	-	23.1	28.8	72.0	123.9
25	-	23.1	-	72.0	95.1
26	-	23.1	-	57.6	80.7
27	-	23.1	-	43.2	66.3
28	-	23.1	-	28.8	51.9
29	-	23.1	-	14.4	37.5
30	-	23.1	-	-	23.1
31	-	23.1	-	-	23.1
32	-	23.1	-	-	23.1
33	-	23.1	-	-	23.1
34	-	23.1	-	-	23.1
35	-	23.1	-	-	23.1
36	-	23.1	-	-	23.1
37	-	23.1	-	-	23.1
38	-	23.1	-	-	23.1
39	-	23.1	-	-	23.1
40	-	23.1	-	-	23.1
41	-	23.1	-	-	23.1
42	-	23.1	-	-	23.1
43	-	23.1	-	-	23.1
:	:	:	:	:	:
:	:	:	:	:	:
75	-	23.1	-	-	23.1
IRR (%)					7.32
B/C (10% Discount Rate)					0.70

* 1st year = initial year in the Phase-I

Table 6.2.13 INTERNAL RATE OF RETURN FOR WINTER IRRIGATION

(Unit: JD 1,000)

Year	J1		E1		D2		Abyad		Total	
	Cost O&M	Benefit Wheat Fruits Total	Cost O&M	Benefit Wheat Fruits Total	Cost O&M	Benefit Wheat Fruits Total	Cost O&M	Benefit Wheat Fruits Total	Cost O&M	Benefit Wheat Fruits Total
		3.4	2.3	7.7	20.5	33.9				
Irrigable Area (ha)										
4	44.70	(7.87)(7.87)	22.90	(5.33)(5.33)	43.60	(17.83)(17.83)	88.20	(47.48)(47.48)	199.40	(78.51)(78.51)
5	0.07	1.35 (0.97) 0.38	0.05	0.92 (0.65) 0.27	0.15	3.06 (2.19) 0.87	0.41	8.16 (5.82) 2.34	0.68	13.49 (9.63) 3.86
6	0.07	1.35 (0.68) 0.67	0.05	0.92 (0.46) 0.46	0.15	3.06 (1.53) 1.53	0.41	8.16 (4.08) 4.08	0.68	13.49 (6.75) 6.74
7	0.07	1.35 0.54 1.89	0.05	0.92 0.36 1.28	0.15	3.06 1.22 4.28	0.41	8.16 3.24 11.40	0.68	13.49 5.36 18.85
8	0.07	1.35 2.28 3.63	0.05	0.92 1.54 2.46	0.15	3.06 5.16 8.22	0.41	8.16 13.74 21.90	0.68	13.49 22.72 36.21
9	0.07	1.35 4.06 5.41	0.05	0.92 2.74 3.66	0.15	3.06 9.19 12.25	0.41	8.16 24.46 32.62	0.68	13.49 40.45 53.94
10	0.07	4.85 4.85	0.05	3.28 3.28	0.15	10.97 10.97	0.41	29.21 29.21	0.68	48.31 48.31
11	0.07	5.55 5.55	0.05	3.75 3.75	0.15	12.57 12.57	0.41	33.46 33.46	0.68	55.33 55.33
12	0.07	6.06 6.06	0.05	4.10 4.10	0.15	13.73 13.73	0.41	36.55 36.55	0.68	60.44 60.44
13	0.07	6.81 6.81	0.05	4.61 4.61	0.15	15.43 15.43	0.41	41.08 41.08	0.68	67.93 67.93
14	0.07	7.51 7.51	0.05	5.08 5.08	0.15	17.00 17.00	0.41	45.26 45.26	0.68	74.85 74.85
15	0.07	8.37 8.37	0.05	5.66 5.66	0.15	18.96 18.96	0.41	50.47 50.47	0.68	83.46 83.46
16	0.07	8.74 8.74	0.05	5.91 5.91	0.15	19.79 19.79	0.41	52.69 52.69	0.68	87.13 87.13
17	0.07	8.74 8.74	0.05	5.91 5.91	0.15	19.79 19.79	0.41	52.69 52.69	0.68	87.13 87.13
18	0.07	8.74 8.74	0.05	5.91 5.91	0.15	19.79 19.79	0.41	52.69 52.69	0.68	87.13 87.13
19	0.07	3.48 3.48	0.05	2.35 2.35	0.15	7.88 7.88	0.41	20.97 20.97	0.68	34.68 34.68
20	0.07	3.48 3.48	0.05	2.35 2.35	0.15	7.88 7.88	0.41	20.97 20.97	0.68	34.68 34.68
21	0.07	3.48 3.48	0.05	2.35 2.35	0.15	7.88 7.88	0.41	20.97 20.97	0.68	34.68 34.68
22	0.07	3.48 3.48	0.05	2.35 2.35	0.15	7.88 7.88	0.41	20.97 20.97	0.68	34.68 34.68
23	0.07	3.48 3.48	0.05	2.35 2.35	0.15	7.88 7.88	0.41	20.97 20.97	0.68	34.68 34.68
IRR (%)		5.68		8.21		13.46		15.95		13.10
B/C (10% Discount Rate)		0.63		0.83		1.44		1.88		1.41

Table G.2.14 INTERNAL RATE OF RETURN FOR CROP PRODUCTION SCHEME
(DEVELOPMENT BY INDIVIDUAL FARMERS)

(Unit: JD 1,000)

Year*1	Water Harvesting			Check Dam			Winter Irrigation			Farm Mechanization*3			Whole Area		
	Cost	O&M	Benefit	Cost	O&M	Benefit	Cost	O&M	Benefit	Cost	O&M	Benefit	Cost	O&M	Benefit
4	-	-	-	-	-	-	199.4	-	-78.5	-	-	-	199.4	-	-78.5
5	-	-	-	-	-	-	-	0.7	3.9	-	-	-	-	0.7	3.9
6	226.6	-	-19.8	194.1	-	-43.0	-	0.7	6.7	-	-	(10.8)	420.7	0.7	-56.1
7	226.6	-	96.2	194.1	-	-48.4	-	0.7	18.9	-	-	(21.6)	420.7	0.7	66.7
8	226.6	-	212.5	194.1	-	-52.1	-	0.7	36.2	-	-	(32.4)	420.7	0.7	196.6
9	226.6	-	329.1	194.0	-	-49.1	-	0.7	53.9	-	-	(45.4)	420.6	0.7	333.9
10	226.6	-	446.3	194.0	-	-36.7	-	0.7	48.3	-	-	(58.3)	420.6	0.7	457.9
11	61.0	-	284.0	-	-	28.6	-	0.7	55.3	-	-	(58.3)	61.0	0.7	367.9
12	61.0	-	277.8	-	-	60.3	-	0.7	60.4	-	-	(58.3)	61.0	0.7	398.5
13	61.0	-	273.2	-	-	94.5	-	0.7	67.9	-	-	(58.3)	61.0	0.7	435.6
14	61.0	-	275.2	-	-	124.7	-	0.7	74.9	-	-	(58.3)	61.0	0.7	474.8
15	61.0	-	285.4	-	-	149.5	-	0.7	83.5	-	-	(58.3)	61.0	0.7	518.4
16	-	-	604.0	-	-	168.4	-	0.7	87.1	-	-	(58.3)	-	0.7	859.5
17	-	-	634.8	-	-	187.7	-	0.7	87.1	-	-	(58.3)	-	0.7	909.6
18	-	-	667.3	-	-	205.1	-	0.7	87.1	-	-	(58.3)	-	0.7	959.5
19	-	-	694.7	-	-	219.8	-	0.7	34.7	-	-	(58.3)	-	0.7	949.2
20	-	-	717.1	-	-	230.3	-	0.7	34.7	-	-	(58.3)	-	0.7	982.1
21	-	-	731.8	-	-	208.2	-	0.7	34.7	-	-	(58.3)	-	0.7	974.7
22	-	-	746.8	-	-	181.4	-	0.7	34.7	-	-	(58.3)	-	0.7	962.9
23	-	-	760.2	-	-	152.7	-	0.7	34.7	-	-	(58.3)	-	0.7	947.6
24	-	-	771.6	-	-	123.9	-	-	-	-	-	(58.3)	-	-	895.5
25	-	-	779.5	-	-	95.1	-	-	-	-	-	(58.3)	-	-	874.6
26	-	-	759.1	-	-	80.7	-	-	-	-	-	(58.3)	-	-	839.8
27	-	-	734.3	-	-	66.3	-	-	-	-	-	(58.3)	-	-	800.6
28	-	-	707.5	-	-	51.9	-	-	-	-	-	(58.3)	-	-	759.4
29	-	-	680.8	-	-	37.5	-	-	-	-	-	(58.3)	-	-	718.3
30	-	-	654.0	-	-	23.1	-	-	-	-	-	(58.3)	-	-	677.1
31	-	-	645.1	-	-	23.1	-	-	-	-	-	(58.3)	-	-	668.2
32	-	-	636.2	-	-	23.1	-	-	-	-	-	(58.3)	-	-	659.3
33	-	-	627.2	-	-	23.1	-	-	-	-	-	(58.3)	-	-	650.3
34	-	-	618.3	-	-	23.1	-	-	-	-	-	(58.3)	-	-	641.4
35	-	-	609.3	-	-	23.1	-	-	-	-	-	(58.3)	-	-	632.4
36	-	-	609.3	-	-	23.1	-	-	-	-	-	(58.3)	-	-	632.4
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
75	-	-	609.3	-	-	23.1	-	-	-	-	-	(58.3)	-	-	632.4
IRR	36.56			7.32			13.10			20.24					
B/C *2	3.98			0.70			1.41			2.45					

*1 1st year = initial year in Phase-I stage

*2 Discount Rate: 10%

*3 Farm mechanization scheme was excluded from the evaluation because of no investment.

Table G.2.15 INTERNAL RATE OF RETURN FOR FODDER SHRUBS -
DEVELOPMENT BY THE GOVERNMENT

(Unit: JD 1,000)

Year*	Micro-catchment			Stone Walls/C. Furrow			Total Area		
	Area	Cost	Benefit	Area	Cost	Benefit	Area	Cost	Benefit
6	240	13.4	-67.9	210	25.2	-59.4	450	38.6	-127.3
7	240	13.4	-75.3	210	25.2	-65.9	450	38.6	-141.2
8	240	13.4	-72.5	210	25.2	-63.5	450	38.6	-136.0
9	240	13.4	-69.8	210	25.2	-61.1	450	38.6	-130.9
10	240	13.4	-67.1	210	25.2	-58.7	450	38.6	-125.8
11	240	13.4	-64.3	210	25.2	-56.3	450	38.6	-120.6
12	240	13.4	-61.6	210	25.2	-53.9	450	38.6	-115.5
13	240	13.4	-58.8	210	25.2	-51.5	450	38.6	-110.3
14	240	13.4	-56.1	210	25.2	-49.1	450	38.6	-105.2
15	240	13.4	-53.4	210	25.2	-46.7	450	38.6	-100.1
16	-	-	17.2	-	-	15.1	-	-	32.3
17	-	-	27.4	-	-	23.9	-	-	51.3
18	-	-	27.4	-	-	23.9	-	-	51.3
19	-	-	27.4	-	-	23.9	-	-	51.3
20	-	-	27.4	-	-	23.9	-	-	51.3
21	-	-	27.4	-	-	23.9	-	-	51.3
22	-	-	27.4	-	-	23.9	-	-	51.3
23	-	-	27.4	-	-	23.9	-	-	51.3
24	-	-	27.4	-	-	23.9	-	-	51.3
25	-	-	27.4	-	-	23.9	-	-	51.3
26	-	-	27.4	-	-	23.9	-	-	51.3
27	-	-	27.4	-	-	23.9	-	-	51.3
28	-	-	27.4	-	-	23.9	-	-	51.3
29	-	-	27.4	-	-	23.9	-	-	51.3
30	-	-	27.4	-	-	23.9	-	-	51.3
31	-	-	27.4	-	-	23.9	-	-	51.3
32	-	-	27.4	-	-	23.9	-	-	51.3
33	-	-	27.4	-	-	23.9	-	-	51.3
34	-	-	27.4	-	-	23.9	-	-	51.3
35	-	-	27.4	-	-	23.9	-	-	51.3
36	-	-	24.6	-	-	21.5	-	-	46.1
37	-	-	21.9	-	-	19.2	-	-	41.1
38	-	-	19.2	-	-	16.8	-	-	36.0
39	-	-	16.4	-	-	14.4	-	-	30.8
40	-	-	13.7	-	-	12.0	-	-	25.7
41	-	-	10.9	-	-	9.6	-	-	20.5
42	-	-	8.2	-	-	7.2	-	-	15.4
43	-	-	5.5	-	-	4.8	-	-	10.3
44	-	-	2.7	-	-	2.4	-	-	5.1
IRR (%)									-1.40
B/C (Discount Rate: 10%)									-2.50

* 1st year = initial year in Phase-I stage

Table G.2.16 INTERNAL RATE OF RETURN FOR WHOLE PROJECT

(Unit: JD 1,000)

Year	Food Crop Development by Individual Farmers			Fodder Shrub Development by Government			Whole Area		
	Cost	O&M	Benefit	Cost	O&M	Benefit	Cost	O&M	Benefit
4	199.4	-	-78.5	-	-	-	199.4	0.0	-78.5
5	-	0.7	3.9	-	-	-	0.0	0.7	3.9
6	420.7	0.7	-56.1	38.6	-	-127.3	459.3	0.7	-183.4
7	420.7	0.7	66.7	38.6	-	-141.2	459.3	0.7	-74.5
8	420.7	0.7	196.6	38.6	-	-136.0	459.3	0.7	60.6
9	420.6	0.7	333.9	38.6	-	-130.9	459.2	0.7	203.0
10	420.6	0.7	457.9	38.6	-	-125.8	459.2	0.7	332.1
11	61.0	0.7	367.9	38.6	-	-120.6	99.6	0.7	247.3
12	61.0	0.7	398.5	38.6	-	-115.5	99.6	0.7	283.0
13	61.0	0.7	435.6	38.6	-	-110.3	99.6	0.7	325.3
14	61.0	0.7	474.8	38.6	-	-105.2	99.6	0.7	369.6
15	61.0	0.7	518.4	38.6	-	-100.1	99.6	0.7	418.3
16	-	0.7	859.5	-	-	32.3	-	0.7	891.8
17	-	0.7	909.6	-	-	51.3	-	0.7	960.9
18	-	0.7	959.5	-	-	51.3	-	0.7	1,010.8
19	-	0.7	949.2	-	-	51.3	-	0.7	1,000.5
20	-	0.7	982.1	-	-	51.3	-	0.7	1,033.4
21	-	0.7	974.7	-	-	51.3	-	0.7	1,026.0
22	-	0.7	962.9	-	-	51.3	-	0.7	1,014.2
23	-	0.7	947.6	-	-	51.3	-	0.7	998.9
24	-	-	895.5	-	-	51.3	-	-	946.8
25	-	-	874.6	-	-	51.3	-	-	925.9
26	-	-	839.8	-	-	51.3	-	-	891.1
27	-	-	800.6	-	-	51.3	-	-	851.9
28	-	-	759.4	-	-	51.3	-	-	810.7
29	-	-	718.3	-	-	51.3	-	-	769.6
30	-	-	677.1	-	-	51.3	-	-	728.4
31	-	-	668.2	-	-	51.3	-	-	719.5
32	-	-	659.3	-	-	51.3	-	-	710.6
33	-	-	650.3	-	-	51.3	-	-	701.6
34	-	-	641.4	-	-	51.3	-	-	692.7
35	-	-	632.4	-	-	51.3	-	-	683.7
36	-	-	632.4	-	-	46.1	-	-	678.5
37	-	-	632.4	-	-	41.1	-	-	673.5
38	-	-	632.4	-	-	36.0	-	-	668.4
39	-	-	632.4	-	-	30.8	-	-	663.2
40	-	-	632.4	-	-	25.7	-	-	658.1
41	-	-	632.4	-	-	20.5	-	-	652.9
42	-	-	632.4	-	-	15.4	-	-	647.8
43	-	-	632.4	-	-	10.3	-	-	642.7
44	-	-	632.4	-	-	5.1	-	-	637.5
45	-	-	632.4	-	-	-	-	-	632.4
:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:
75	-	-	632.4	-	-	-	-	-	632.4
IRR			20.24			-1.40			15.58
B/C *			2.45			-2.50			1.92

Table G.3.1 (1/4) CROP BUDGET UNDER WITH PROJECT CONDITION - WATER HARVESTING MEASURES

1) OLIVES

Year	1	2	3	4	5	6	7								
I. Gross Income															
1) Yield per one plant (kg/plant)	-	-	-	-	-	2.3	3.1								
2) Planting density (No./ha)	5	5	5	5	5	5	5								
3) Total yield (kg/ha)	-	-	-	-	-	12	16								
4) Unit price (JD/kg)	0.3	0.3	0.3	0.3	0.3	0.3	0.3								
5) Gross income (JD/ha)	-	-	-	-	-	3.6	4.8								
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost															
1) Seedlings (piece/ha)	0.50	5	2.5	1	0.5	-	-	-	-	-	-	-	-	-	-
2) Fertilizers															
- N (kg/ha)	0.24	0.90	0.2	1.15	0.3	1.35	0.3	1.55	0.4	1.75	0.4	1.95	0.5	2.10	0.5
- P205 (kg/ha)	0.24	0.45	0.1	0.60	0.1	0.75	0.2	0.90	0.2	1.00	0.2	1.25	0.3	1.50	0.4
- K20 (kg/ha)	0.40	0.95	0.4	1.20	0.5	1.45	0.6	1.70	0.7	1.90	0.8	2.25	0.9	2.65	1.1
3) Plowing (hrs/ha)	2.4	1.0	2.4	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour (man-day/ha)															
- Harvesting	4.00	-	-	-	-	-	-	-	-	-	-	0.13	0.5	0.17	0.7
- Hoeing	4.00	2	8.0	0.25	1.0	0.25	1.0	0.25	1.0	0.25	1.0	0.25	1.0	0.25	1.0
5) Materials															
- Fence (m/ha)	1.5	40	60.0	-	-	-	-	-	-	-	-	-	-	-	-
- Bags (40kg)(lit/ha)	0.25	-	-	-	-	-	-	-	-	-	-	0.3	0.1	0.40	0.1
- Boxes (no./ha)	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water (ton/ha)	0.1	2.40	0.2	2.40	0.2	-	-	-	-	-	-	-	-	-	-
6) Transportation(JD/kg)	0.01	-	-	-	-	-	-	-	-	-	-	-	0.1	-	0.2
7) Miscellaneous															
			3.7		0.1		0.1		0.1		0.1		0.2		0.2
Total			77.5		2.7		2.2		2.4		2.5		3.6		4.2
III. Net Income (JD/ha)			(77.5)		(2.7)		(2.2)		(2.4)		(2.5)		0.0		0.6

Year	8	9	10	11	12	13-70							
I. Gross Income													
1) Yield per one plant (kg/plant)	6.5	8.5	12.2	13.0	18.0	20.8							
2) Planting density (No./ha)	5	5	5	5	5	5							
3) Total yield (kg/ha)	33	43	61	65	90	104							
4) Unit price (JD/kg)	0.3	0.3	0.3	0.3	0.3	0.3							
5) Gross income (JD/ha)	9.9	12.9	18.3	19.5	27.0	31.2							
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost													
1) Seedlings (piece/ha)	0.50	-	-	-	-	-							
2) Fertilizers													
- N (kg/ha)	0.24	2.30	0.6	2.45	0.6	2.65							
- P205 (kg/ha)	0.24	1.75	0.4	2.00	0.5	2.25							
- K20 (kg/ha)	0.40	3.00	1.2	3.40	1.4	3.75							
3) Plowing (hrs/ha)	2.4	-	-	-	-	-							
4) Labour (man-day/ha)													
- Harvesting	4.00	0.34	1.4	0.45	1.8	0.64							
- Hoeing	4.00	0.25	1.0	0.25	1.0	0.25							
5) Materials													
- Fence (m/ha)	1.5	-	-	-	-	-							
- Bags (40kg)(lit/ha)	0.25	0.83	0.2	1.08	0.3	1.53							
- Boxes (no./ha)	0.25	-	-	-	-	-							
- Water (ton/ha)	0.1	-	-	-	-	-							
6) Transportation(JD/kg)	0.01	-	0.3	-	0.4	-							
7) Miscellaneous			0.3		0.3								
			0.3		0.4								
Total			5.4		6.3								
			5.4		6.3								
III. Net Income (JD/ha)			4.5		6.6								
			4.5		6.6								
			10.7		11.7								
			10.7		11.7								
			17.7		17.7								
			17.7		17.7								
			21.1		21.1								
			21.1		21.1								

Table G.3.1 (2/4) CROP BUDGET UNDER WITH PROJECT CONDITION - WATER HARVESTING MEASURES

(2) GRAPES

Year	1	2	3	4	5	6	7
I. Gross Income							
1) Yield per one plant (kg/plant)	-	-	-	1.1	2.1	3.1	3.5
2) Planting density (No./ha)	44	44	44	44	44	44	44
3) Total yield (ton/ha)	-	-	-	48	92	136	154
4) Unit price (JD/kg)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
5) Gross income (JD/ha)	-	-	-	24.0	46.0	68.0	77.0
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	44	22.0	4	2.0	-	-
2) Fertilizers							
- N (kg/ha)	0.24	0.44	0.1	1.32	0.3	1.76	0.4
- P205 (kg/ha)	0.24	0.88	0.2	1.32	0.3	1.76	0.4
3) Plowing (hrs/ha)	2.4	7.00	16.8	-	-	-	-
4) Labor (man-day/ha)							
- Hoeing	4	18	72.0	2.2	8.8	2.2	8.8
- Harvesting	4	-	-	-	-	0.25	1.0
5) Materials							
- Fence (m/ha)	1.5	352	528.0	-	-	-	-
- Chemicals (lit/ha)	10	0.01	0.1	0.01	0.1	0.01	0.1
- Boxes (no./ha)	0.25	-	-	-	-	4.0	1.0
- Water (ton/ha)	0.1	21.1	2.1	21.1	2.1	-	-
6) Transportation (JD/kg)	0.01	-	-	-	-	-	0.5
7) Miscellaneous							
			32.1		0.7		0.5
Total			673.4		14.3		10.2
III. Net Income (JD/ha)			(673.4)		(14.3)		(10.2)
							10.3
							29.2
							48.6
							56.3

Year	8	9	10	11	12	13-15
I. Gross Income						
1) Yield per one plant (kg/plant)	3.7	3.8	4.0	4.3	4.6	4.7
2) Planting density (No./ha)	44	44	44	44	44	44
3) Total yield (ton/ha)	163	167	176	189	202	207
4) Unit price (JD/kg)	0.5	0.5	0.5	0.5	0.5	0.5
5) Gross income (JD/ha)	81.5	83.5	88.0	94.5	101.0	103.5
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty
II. Production Cost						
1) Seedlings (piece/ha)	0.50	-	-	-	-	-
2) Fertilizers						
- N (kg/ha)	0.24	6.16	1.5	6.60	1.6	7.04
- P205 (kg/ha)	0.24	5.28	1.3	5.72	1.4	6.16
3) Plowing (hrs/ha)	2.4	-	-	-	-	-
4) Labor (man-day/ha)						
- Hoeing	4	2.2	8.8	2.2	8.8	2.2
- Harvesting	4	0.85	3.4	0.87	3.5	0.92
5) Materials						
- Fence (m/ha)	1.5	-	-	-	-	-
- Chemicals (lit/ha)	10	0.03	0.3	0.03	0.3	0.04
- Boxes (no./ha)	0.25	13.6	3.4	13.9	3.5	14.7
- Water (ton/ha)	0.1	-	-	-	-	-
6) Transportation (JD/kg)	0.01	-	1.6	-	1.7	-
7) Miscellaneous			1.0		1.0	
Total			21.3		21.8	
III. Net Income (JD/ha)			60.2		61.7	
						65.3
						71.3
						77.1
						79.2

Table G.3.1 (3/4) CROP BUDGET UNDER WITH PROJECT CONDITION - WATER HARVESTING MEASURES

3) APRICOTS

Year	1	2	3	4	5	6	7								
I. Gross Income															
1) Yield per one plant (kg/plant)	-	-	-	-	6.8	11.9	15.2								
2) Planting density (No./ha)	3	3	3	3	3	3	3								
3) Total yield (kg/ha)	-	-	-	-	20.4	35.7	45.6								
4) Unit price (JD/kg)	0.33	0.33	0.33	0.33	0.33	0.33	0.33								
5) Gross income (JD/ha)	-	-	-	-	6.7	11.8	15.0								
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost															
1) Seedlings (piece/ha)	0.50	3.0	1.5	0.3	0.2	-	-	-	-	-	-	-	-	-	-
2) Fertilizers															
- N (kg/ha)	0.24	0.48	0.1	0.72	0.2	0.96	0.2	1.20	0.3	1.41	0.3	1.50	0.4	1.59	0.4
- P205 (kg/ha)	0.24	0.27	0.1	0.42	0.1	0.57	0.1	0.72	0.2	0.84	0.2	0.90	0.2	0.96	0.2
- K20 (kg/ha)	0.40	0.39	0.2	0.57	0.2	0.75	0.3	0.96	0.4	1.14	0.5	1.20	0.5	1.29	0.5
3) Plowing (hrs/ha)	2.4	1.0	2.4	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour (man-day/ha)															
- Harvesting	4.00	-	-	-	-	-	-	-	0.04	0.2	0.07	0.3	0.09	0.4	
- Hoeing	4.00	2.00	8.0	0.15	0.6	0.15	0.6	0.15	0.6	0.15	0.6	0.15	0.6	0.15	0.6
5) Materials															
- Fence (m/ha)	1.5	24	36.0	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals (lit/ha)	10	0.005	0.1	0.005	0.1	0.005	0.1	0.005	0.1	0.005	0.1	0.005	0.1	0.005	0.1
- Boxes(12kg)(no./ha)	0.25	-	-	-	-	-	-	-	1.70	0.4	2.98	0.7	3.80	1.0	
- Water (ton/ha)	0.1	1.4	0.1	1.4	0.1	-	-	-	-	-	-	-	-	-	-
6) Transportation(JD/kg)	0.01	-	-	-	-	-	-	-	-	0.2	-	0.4	-	0.5	-
7) Miscellaneous		2.4	-	0.1	-	0.1	-	0.1	-	0.1	-	0.2	-	0.2	-
Total		50.9	1.6	1.4	1.7	2.6	3.4	3.9							
III. Net Income (JD/ha)		(50.9)	(1.6)	(1.4)	(1.7)	4.1	8.4	11.1							

Year	8	9	10	11	12	13-20							
I. Gross Income													
1) Yield per one plant (kg/plant)	18.6	22.3	26.2	29.2	31.5	32.4							
2) Planting density (No./ha)	3	3	3	3	3	3							
3) Total yield (kg/ha)	55.8	66.9	78.6	87.6	94.5	97.2							
4) Unit price (JD/kg)	0.33	0.33	0.33	0.33	0.33	0.33							
5) Gross income (JD/ha)	18.4	22.1	25.9	28.9	31.2	32.1							
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost													
1) Seedlings (piece/ha)	0.50	-	-	-	-	-							
2) Fertilizers													
- N (kg/ha)	0.24	1.71	0.4	1.80	0.4	1.89							
- P205 (kg/ha)	0.24	1.02	0.2	1.08	0.3	1.14							
- K20 (kg/ha)	0.40	1.35	0.5	1.44	0.6	1.50							
3) Plowing (hrs/ha)	2.4	-	-	-	-	-							
4) Labour (man-day/ha)													
- Harvesting	4.00	0.11	0.4	0.13	0.5	0.16							
- Hoeing	4.00	0.15	0.6	0.15	0.6	0.15							
5) Materials													
- Fence (m/ha)	1.5	-	-	-	-	-							
- Chemicals (lit/ha)	10	0.005	0.1	0.005	0.1	0.005							
- Boxes(12kg)(no./ha)	0.25	4.65	1.2	5.58	1.4	6.55							
- Water (ton/ha)	0.1	-	-	-	-	-							
6) Transportation(JD/kg)	0.01	-	0.6	0.7	0.8	0.9							
7) Miscellaneous		0.2	-	0.2	0.3	0.3							
Total		4.2	4.8	5.4	5.8	6.1							
III. Net Income (JD/ha)		14.2	17.3	20.5	23.1	25.1							

Table G.3.1 (4/4) CROP BUDGET UNDER WITH PROJECT CONDITION - WATER HARVESTING MEASURES

(4) FODDER SHRUB (ATRIPLEX)

Year		1	2	3	4	5	6	7	
I. Gross Income									
1) Total yield	(kg/ha)	-	-	650	650	650	650	650	
2) Unit price	(JD/kg)	0.022	0.022	0.022	0.022	0.022	0.022	0.022	
3) Gross income	(JD/ha)	-	-	14.3	14.3	14.3	14.3	14.3	
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost									
1) Seedlings (piece/ha)	0.50	313	156.5	31	15.5	-	-	-	-
2) Fertilizers									
- N	(kg/ha) 0.24	-	-	-	-	-	-	-	-
- P205	(kg/ha) 0.24	5	1.2	5	1.2	5	1.2	5	1.2
- K20	(kg/ha) 0.40	-	-	-	-	-	-	-	-
3) Labour (man-day/ha)									
- Pitting	4	15.7	62.8	1.6	6.4	-	-	-	-
- Planting	4	6.3	25.2	0.6	2.4	-	-	-	-
4) Miscellaneous			12.3		1.3		0.1		0.1
Total			258.0		26.8		1.3		1.3
III. Net Income (JD/ha)			(258.0)		(26.8)		13.0		13.0

Year		8	9	10	11	12	13-30		
I. Gross Income									
1) Total yield	(kg/ha)	650	650	650	650	650	650		
2) Unit price	(JD/kg)	0.022	0.022	0.022	0.022	0.022	0.022		
3) Gross income	(JD/ha)	14.3	14.3	14.3	14.3	14.3	14.3		
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost									
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	-	-	-
2) Fertilizers									
- N	(kg/ha) 0.24	-	-	-	-	-	-	-	-
- P205	(kg/ha) 0.24	5	1.2	5	1.2	5	1.2	5	1.2
- K20	(kg/ha) 0.40	-	-	-	-	-	-	-	-
3) Labour (man-day/ha)									
- Pitting	4	-	-	-	-	-	-	-	-
- Planting	4	-	-	-	-	-	-	-	-
4) Miscellaneous			0.1		0.1		0.1		0.1
Total			1.3		1.3		1.3		1.3
III. Net Income (JD/ha)			13.0		13.0		13.0		13.0

Table G.3.2 (1/3) CROP BUDGET UNDER WITH PROJECT CONDITION - CHECK DAM

(1) OLIVES

Year			1			2			3			4			5			6			7
I. Gross Income																					
1) Yield per one plant (kg/plant)			-			-			-			-			-			2.3			3.1
2) Planting density (No./ha)			286			286			286			286			286			286			286
3) Total yield (kg/ha)			-			-			-			-			-			660			890
4) Unit price (JD/kg)			0.3			0.3			0.3			0.3			0.3			0.3			0.3
5) Gross income (JD/ha)			-			-			-			-			-			198			267
II. Production Cost																					
1) Seedlings (piece/ha)	0.50	286	143	29	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers																					
- N (kg/ha)	0.24	51	12	66	16	77	18	89	21	100	24	112	27	120	29	-	-	-	-	-	-
- P205 (kg/ha)	0.24	26	6	34	8	43	10	51	12	57	14	72	17	86	21	-	-	-	-	-	-
- K20 (kg/ha)	0.40	54	22	69	28	83	33	97	39	109	44	129	52	152	61	-	-	-	-	-	-
3) Plowing (hrs/ha)	10.00	1.0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour (man-day/ha)																					
- Harvesting	4.00	-	-	-	-	-	-	-	-	-	-	-	6.9	28	9.3	37	-	-	-	-	-
- Hoeing	4.00	5.7	23	20	80	20	80	20	80	20	80	20	80	20	80	20	80	20	80	20	80
5) Materials																					
- Fence (m/ha)	1.50	1,040	1,560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Bags (40kg)(lit/ha)	0.25	-	-	-	-	-	-	-	-	-	-	-	17	4	22	6	-	-	-	-	-
- Boxes (no./ha)	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water (ton/ha)	0.10	137	14	137	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation (JD/kg)	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7) Miscellaneous	-	-	90	-	8	-	7	-	8	-	8	-	11	-	12	-	-	-	-	-	-
Total			1,880			169			148			160			170			226			255
III. Net Income (JD/ha)			(1,880)			(169)			(148)			(160)			(170)			(28)			12

Year			8			9			10			11			12			13-70
I. Gross Income																		
1) Yield per one plant (kg/plant)			6.5			8.5			12.2			13.0			18.0			20.8
2) Planting density (No./ha)			286			286			286			286			286			286
3) Total yield (kg/ha)			1,860			2,430			3,490			3,720			5,150			5,950
4) Unit price (JD/kg)			0.3			0.3			0.3			0.3			0.3			0.3
5) Gross income (JD/ha)			558			729			1,047			1,116			1,545			1,785
II. Production Cost																		
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers																		
- N (kg/ha)	0.24	132	32	140	34	152	36	152	36	152	36	152	36	152	36	152	36	152
- P205 (kg/ha)	0.24	100	24	114	27	129	31	129	31	129	31	129	31	129	31	129	31	129
- K20 (kg/ha)	0.40	172	69	194	78	215	86	215	86	215	86	215	86	215	86	215	86	215
3) Plowing (hrs/ha)	10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour (man-day/ha)																		
- Harvesting	4.00	19.4	78	25.3	101	36.4	146	38.8	155	53.6	214	62.0	248	-	-	-	-	-
- Hoeing	4.00	20	80	20	80	20	80	20	80	20	80	20	80	20	80	20	80	20
5) Materials																		
- Fence (m/ha)	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Bags (40kg)(no./ha)	0.25	47	12	61	15	87	22	93	23	129	32	149	37	-	-	-	-	-
- Boxes (no./ha)	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water (ton/ha)	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation (JD/kg)	0.01	-	19	-	24	-	35	-	37	-	52	-	60	-	-	-	-	-
7) Miscellaneous	-	-	16	-	18	-	22	-	22	-	27	-	29	-	-	-	-	-
Total			330			377			458			470			558			607
III. Net Income (JD/ha)			228			352			589			646			987			1,178

Table G.3.2 (2/3) CROP BUDGET UNDER WITH PROJECT CONDITION - CHECK DAM

(2) GRAPES

Year	1		2		3		4		5		6		7		
I. Gross Income															
1) Yield per one plant (kg/plant)	-	-	-	-	-	-	1.1	2.1	3.1	3.5	-	-	-	-	-
2) Planting density (No./ha)	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
3) Total yield (ton/ha)	-	-	-	-	-	-	2.75	5.25	7.75	8.75	-	-	-	-	-
4) Unit price (JD/kg)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
5) Gross income (JD/ha)	-	-	-	-	-	-	1,375	2,625	3,875	4,375	-	-	-	-	-
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost															
1) Seedlings (piece/ha)	0.50	2,500	1,250	250	125	-	-	-	-	-	-	-	-	-	-
2) Fertilizers															
- N (kg/ha)	0.24	25	6	75	18	100	24	200	48	300	72	325	78	350	84
- P205 (kg/ha)	0.24	50	12	75	18	100	24	175	42	225	54	250	60	275	66
3) Plowing (hrs/ha)	10.00	1.0	10	-	-	-	-	-	-	-	-	-	-	-	-
4) Labor (man-day/ha)															
- Hoeing	4.00	5.7	23	20	80	20	80	20	80	20	80	20	80	20	80
- Harvesting	4.00	-	-	-	-	0	14.3	57	27.3	109	40.4	162	45.6	182	-
5) Materials															
- Fence (m/ha)	1.50	1,040	1,560	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals (lit/ha)	10.00	0.3	3	0.3	3	0.3	3	0.5	5	0.5	5	0.5	5	0.8	8
- Boxes (no./ha)	0.25	-	-	-	-	-	-	229	57	438	110	646	162	729	182
- Water (ton/ha)	0.10	1,200	120	1,200	120	-	-	-	-	-	-	-	-	-	-
6) Transportation (JD/kg)	0.01	-	-	-	-	-	-	-	28	-	53	-	78	-	88
7) Miscellaneous			149		18		7		16		24		31		35
Total			3,133		382		138		333		507		656		725
III. Net Income (JD/ha)			(3,133)		(382)		(138)		1,042		2,118		3,219		3,650
Year															
	8		9		10		11		12		13-15				
I. Gross Income															
1) Yield per one plant (kg/plant)	3.7	3.8	4.0	4.3	4.6	4.7	-	-	-	-	-	-	-	-	-
2) Planting density (No./ha)	2,500	2,500	2,500	2,500	2,500	2,500	-	-	-	-	-	-	-	-	-
3) Total yield (ton/ha)	9.25	9.50	10.00	10.75	11.50	11.75	-	-	-	-	-	-	-	-	-
4) Unit price (JD/kg)	0.5	0.5	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-
5) Gross income (JD/ha)	4,625	4,750	5,000	5,375	5,750	5,875	-	-	-	-	-	-	-	-	-
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost															
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers															
- N (kg/ha)	0.24	350	84	375	90	400	96	400	96	400	96	400	96	400	96
- P205 (kg/ha)	0.24	300	72	325	78	350	84	350	84	350	84	350	84	350	84
3) Plowing (hrs/ha)	10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labor (man-day/ha)															
- Hoeing	4.00	20	80	20	80	20	80	20	80	20	80	20	80	20	80
- Harvesting	4.00	48.2	193	49.5	198	52.1	208	56.0	224	60	240	61	244	-	-
5) Materials															
- Fence (m/ha)	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals (lit/ha)	10.00	0.8	8	0.8	8	1	10	1	10	1	10	1	10	1	10
- Boxes (no./ha)	0.25	771	193	792	198	833	208	896	224	958	240	979	245	-	-
- Water (ton/ha)	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation (JD/kg)	0.01	-	93	-	95	-	100	-	108	-	115	-	118	-	-
7) Miscellaneous			36		37		39		41		43		44		-
Total			759		784		825		867		908		921		-
III. Net Income (JD/ha)			3,866		3,966		4,175		4,508		4,842		4,954		-

Table G.3.2 (3/3) CROP BUDGET UNDER WITH PROJECT CONDITION - CHECK DAM

(3) APRICOTS

Year	1	2	3	4	5	6	7
I. Gross Income							
1) Yield per one plant (kg/plant)	-	-	-	-	6.8	11.9	15.2
2) Planting density (No./ha)	286	286	286	286	286	286	286
3) Total yield (kg/ha)	-	-	-	-	1,940	3,400	4,350
4) Unit price (JD/kg)	0.33	0.33	0.33	0.33	0.33	0.33	0.33
5) Gross income (JD/ha)	-	-	-	-	640	1,122	1,436
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	286	143	29	15	-	-
2) Fertilizers							
- N (kg/ha)	0.24	46	11	69	17	92	22
- P205 (kg/ha)	0.24	26	6	40	10	54	13
- K20 (kg/ha)	0.40	37	15	54	22	72	29
3) Plowing (hrs/ha)	10.00	1.0	10	-	-	-	-
4) Labour (man-day/ha)							
- Harvesting	4.00	-	-	-	-	-	3.9
- Hoeing	4.00	5.7	23	20	80	20	80
5) Materials							
- Fence (m/ha)	1.50	1,040	1,560	-	-	-	-
- Chemicals (lit/ha)	10.00	0.25	3	0.38	4	0.5	5
- Boxes(12kg)(no./ha)	0.25	-	-	-	-	-	-
- Water (ton/ha)	0.10	137	14	137	14	-	-
6) Transportation(JD/kg)	0.01	-	-	-	-	-	19
7) Miscellaneous		89	8	8	7	8	13
Total		1,874	170	156	175	272	337
III. Net Income (JD/ha)		(1,874)	(170)	(156)	(175)	368	785
1,053							
Year							
	8	9	10	11	12	13-20	
I. Gross Income							
1) Yield per one plant (kg/plant)	18.6	22.3	26.2	29.2	31.5	32.4	
2) Planting density (No./ha)	286	286	286	286	286	286	
3) Total yield (kg/ha)	5,320	6,380	7,490	8,350	9,010	9,270	
4) Unit price (JD/kg)	0.33	0.33	0.33	0.33	0.33	0.33	
5) Gross income (JD/ha)	1,756	2,105	2,472	2,756	2,973	3,059	
	Unit Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
II. Production Cost							
1) Seedlings (piece/ha)	0.50	-	-	-	-	-	-
2) Fertilizers							
- N (kg/ha)	0.24	163	39	172	41	180	43
- P205 (kg/ha)	0.24	97	23	103	25	109	26
- K20 (kg/ha)	0.40	129	52	137	55	143	57
3) Plowing (hrs/ha)	10.00	-	-	-	-	-	-
4) Labour (man-day/ha)							
- Harvesting	4.00	10.6	42	12.8	51	15.0	60
- Hoeing	4.00	20	80	20	80	20	80
5) Materials							
- Fence (m/ha)	1.50	-	-	-	-	-	-
- Chemicals (lit/ha)	10.00	0.9	9	0.95	10	1	10
- Boxes(12kg)(no./ha)	0.25	443	111	532	133	624	156
- Water (ton/ha)	0.10	-	-	-	-	-	-
6) Transportation(JD/kg)	0.01	-	53	-	64	-	75
7) Miscellaneous		20	23	23	25	27	28
Total		429	482	532	568	594	605
III. Net Income (JD/ha)		1,327	1,623	1,940	2,188	2,379	2,454

Table G.3.3 CROP BUDGET UNDER WITH PROJECT
CONDITION - WHEAT

		Irrigated		Rainfed			
		Unit	Price (JD)	Q'ty	Amount (JD/ha)	Q'ty	Amount (JD/ha)
I. Gross Income							
- Unit Yield	(t/ha)			3.5		1.8	
- Unit price	(JD/t)			140		140	
- Gross income	(JD/ha)			490.0		252.0	
II. Production Cost							
1) Seeds	(kg/ha)	0.14		80	11.2	80	11.2
2) Fertilizers							
Compound, DAP	(kg/ha)	0.11		420	46.2	90	9.9
3) Agro-chemicals							
Herbicides	(lit/ha)	2.75		1	2.8	1	2.8
4) Farm Machinery							
- Plowing	(hrs/ha)	10.00		1	10.0	1	10.0
- Drilling	(hrs/ha)	9.00		1	9.0	1	9.0
- Spraying	(hrs/ha)	7.50		1	7.5	1	7.5
- Harvesting	(hrs/ha)	12.50		1	12.5	1	12.5
5) Materials							
Bags	(no./ha)	0.25		35	8.8	18	4.5
6) Transportation	(JD/kg)	0.01		3,500	35.0	1,800	18.0
7) Miscellaneous					7.2		4.3
Total	(JD/ha)				150.2		89.7
III. Net Income (JD/ha)							
					339.8		162.3

Table G.3.4 (1/3) CASH FLOW STATEMENT FOR WATER HARVESTING MEASURES (WITHOUT SUBSIDY)

AREA:	10.0 ha (Micro-catchment)	Construction Cost (JD/ha): 56															(Unit: JD)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I. GROSS INCOME																	
1) Fruits																	
		-	-	-	-	12	16	33	43	61	65	90	104	104	104	104	104
	Olives	-	-	-	80	153	227	272	278	293	315	337	345	345	345	345	0
	Grapes	-	-	-	-	22	39	61	74	86	96	104	107	107	107	107	107
	Apricots	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2) Loan	3,233	62	745	691	771	832	962	1,106	783	590	394	206	26	-	-	-
	Total	3,233	62	745	771	946	1,110	1,285	1,472	988	1,223	1,066	762	582	556	211	-
II. GROSS OUTGOING																	
A. Construction Cost																	
B. Production Cost																	
	1) Seedlings	86.7	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2) Fertilizers																
	- N	1.3	2.7	3.0	5.0	6.7	7.7	8.0	8.3	8.7	9.3	9.3	9.3	9.3	9.3	9.3	3.7
	- P205	1.3	1.7	2.3	3.7	4.7	5.3	6.0	6.3	7.3	7.7	7.7	7.7	7.7	7.7	7.7	2.7
	- K20	2.0	2.3	3.0	3.7	4.3	4.7	5.3	5.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	3) Plowing	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	- Harvesting	-	-	-	3.3	7.0	12.0	14.3	17.3	19.3	23.0	24.3	31.3	31.3	31.3	31.3	17.0
	- Hoing	293.3	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	5.3
	5) Materials	2,080.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	- Fence	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	0.3
	- Chemicals	-	-	-	-	-	0.3	0.3	0.7	1.0	1.3	1.3	2.0	2.3	2.3	2.3	2.3
	- Bags (40kg)	-	-	-	-	-	11.7	14.0	15.3	16.3	17.7	19.0	20.7	21.0	21.0	21.0	6.7
	- Boxes	-	-	-	3.3	7.7	11.7	14.0	15.3	16.3	17.7	19.0	20.7	21.0	21.0	21.0	6.7
	- Water	8.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6) Transportation	-	-	-	1.7	3.7	6.3	7.3	8.3	9.3	10.7	11.7	12.7	13.7	13.7	13.7	6.7
	7) Miscellaneous	127.3	3.0	2.2	2.8	3.5	4.2	4.6	4.9	5.2	5.7	5.8	6.3	6.4	6.4	6.4	2.6
	C. Loan Repayment	-	-	699	712	873	1,022	1,189	1,369	878	1,104	943	794	627	447	239	-
	Total	3,233	62	745	771	946	1,110	1,285	1,472	988	1,223	1,066	762	582	374	54	54
III. NET INCOME																	
		0	0	0	0	0	0	0	0	0	0	0	0	0	182	157	157

Table G.3.4 (2/3) CASH FLOW STATEMENT FOR WATER HARVESTING MEASURES (WITHOUT SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow)												120			
	Construction Cost (JD/ha):												(Unit: JD)			
Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-70
I. GROSS INCOME																
1) Fruits	-	-	-	-	-	12	16	33	43	61	65	90	104	104	104	104
Olives	-	-	-	-	-	227	257	272	278	293	315	337	345	345	345	0
Grapes	-	-	-	80	153	39	50	61	74	86	96	104	107	107	107	107
Apricots	-	-	-	-	22	884	830	830	940	1,032	1,198	1,385	784	1,035	812	138
2) Loan	3,873	62	884	910	1,115	1,310	1,521	1,751	1,179	1,475	1,288	1,116	917	694	556	211
Total	3,873	62	884	910	1,115	1,310	1,521	1,751	1,179	1,475	1,288	1,116	917	694	556	211
II. GROSS OUTGOING																
A. Construction Cost	1,200.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	86.7	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	1.3	2.7	3.0	5.0	6.7	7.7	8.0	8.3	8.7	9.3	9.3	9.3	9.3	9.3	9.3	3.7
2) Fertilizers	1.3	1.7	2.3	3.7	4.7	5.3	6.0	6.3	7.3	7.7	7.7	7.7	7.7	7.7	7.7	2.7
- N	2.0	2.3	3.0	3.7	4.3	4.7	5.3	5.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0
- P205	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- K20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	3.3	7.0	12.0	14.3	17.3	19.3	23.0	24.3	29.3	31.3	31.3	31.3	17.0
- Harvesting	293.3	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	5.3
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	2,080.0	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	0.3
- Fence	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	-	-	-	-	-	0.3	0.3	0.7	1.0	1.3	1.3	2.0	2.3	2.3	2.3	2.3
- Bags (40kg)	-	-	-	3.3	7.7	11.7	14.0	15.3	16.3	17.7	19.0	20.7	21.0	21.0	21.0	6.7
- Boxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water	8.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	1.7	3.7	6.3	7.3	8.3	9.3	10.7	11.7	12.7	13.7	13.7	13.7	6.7
7) Miscellaneous	127.3	3.0	2.2	2.8	3.5	4.2	4.6	4.9	5.2	5.7	5.8	6.3	6.4	6.4	6.4	2.6
C. Loan Repayment	-	-	838	851	1,042	1,222	1,425	1,648	1,069	1,356	1,165	985	782	559	300	-
Total	3,873	62	884	910	1,115	1,310	1,521	1,751	1,179	1,475	1,288	1,116	917	694	435	54
III. NET INCOME																
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121	157

Table G.3.4 (3/3) CASH FLOW STATEMENT FOR WATER HARVESTING MEASURES (WITHOUT SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow)										Construction Cost (JD/ha): 120					(Unit: JD)				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-70				
I. GROSS INCOME																				
1) Field Crops/Mixtur	-	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520				
2) Loan	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Total	1,200	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520				
II. GROSS OUTGOING																				
A. Construction Cost	1,200.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
B. Production Cost																				
1) Seedlings	-	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112				
2) Fertilizers	-	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99				
- Compound, DAP																				
3) Agro-chemicals	-	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28				
- Herbicides																				
4) Farm Machinery	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				
- Plowing																				
- Drilling	-	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90				
- Spraying	-	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75				
- Harvesting	-	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125				
5) Materials	-	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45				
- Bags																				
6) Transportation	-	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180				
7) Miscellaneous	-	43.0	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7				
C. Loan Repayment	-	-	260	260	260	260	260	260	0	0	0	0	0	0	0	0				
Total	1,200	897	1,157	1,157	1,157	1,157	1,157	897	897	897	897	897	897	897	897	897				
III. NET INCOME	0	1,623	1,363	1,363	1,363	1,363	1,363	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623				

Table G.3.5 CASH FLOW STATEMENT FOR CHECK DAM (WITHOUT SUBSIDY)

AREA:	0.3 ha (One Site)																(Unit: JD)		
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16-70	
I. GROSS INCOME																			
1) Fruits	-	-	-	-	-	20	27	56	73	105	112	112	155	179	179	179	179	179	
Olives	-	-	-	138	263	388	438	463	475	500	538	538	575	588	588	588	588	588	
Grapes	-	-	-	-	64	112	144	176	211	247	276	276	297	306	306	306	306	306	
Apricots	-	-	-	-	-	797	895	996	315	437	185	-	-	-	-	-	-	-	
2) Loan	3,810	74	868	770	797	797	895	996	315	437	185	-	-	-	-	-	-	-	
Total	3,810	74	868	908	1,124	1,317	1,504	1,691	1,074	1,289	1,111	1,111	1,027	1,073	1,073	1,073	1,073	1,073	485
II. GROSS OUTGOING																			
A. Construction Cost	3,120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost																			
1) Seedlings	154	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers																			
- N	3	5	6	10	13	14	15	16	17	18	18	18	18	18	18	18	18	18	8
- P205	2	4	5	7	9	10	11	12	13	14	14	14	14	14	14	14	14	14	6
- K20	4	5	6	8	9	10	11	12	13	14	14	14	14	14	14	14	14	14	14
3) Plowing	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Harvesting	7	24	24	24	24	22	25	31	35	41	45	45	53	57	57	57	57	57	32
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	468	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Fence	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1
- Chemicals	-	-	-	-	-	0	1	1	2	2	2	2	3	4	4	4	4	4	4
- Bags (40kg)	-	-	-	-	-	15	23	30	33	36	40	40	43	44	44	44	44	44	19
- Boxes	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	3	7	12	14	17	18	21	23	23	26	27	27	27	27	27	15
7) Miscellaneous	33	4	2	3	5	6	7	7	8	9	9	9	10	10	10	10	10	10	6
C. Loan Repayment	-	-	824	840	1,028	1,195	1,367	1,539	909	1,108	920	920	753	581	409	215	-	-	-
Total	3,810	74	868	908	1,124	1,317	1,504	1,691	1,074	1,289	1,111	1,111	960	795	623	429	121	121	364
III. NET INCOME	0	0	0	0	0	0	0	0	0	0	0	0	67	278	450	644	364	364	364

Table G.3.6 (1/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITHOUT SUBSIDY)

AREA:	3.4 ha (Site: J1)		(Unit: JD)															
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20	
I. GROSS INCOME																		
1) Fruits	-	-	-	-	-	-	224	303	632	826	1,187	1,265	1,751	2,023	2,023	2,023	2,023	
Olives	-	-	-	1,558	2,975	4,392	4,958	4,958	5,242	5,383	5,667	6,092	6,517	6,658	6,658	6,658	6,658	
Grapes	-	-	-	-	725	1,272	1,627	1,990	2,386	2,802	3,123	3,369	3,467	3,467	3,467	3,467	3,467	
Apricots	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) Field Crops	-	1,155	1,155	1,155	1,155	1,155	-	-	-	-	-	-	-	-	-	-	-	
3) Loan	52,506	-	10,504	9,470	9,920	10,087	12,551	13,933	4,699	6,848	3,854	822	-	-	-	-	-	
Total	52,506	1,155	11,659	12,183	14,775	17,130	19,439	21,797	13,294	16,504	14,334	12,459	12,148	12,148	12,148	12,148	5,490	
II. GROSS OUTGOING																		
A. Construction Cost	44,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B. Production Cost	1,741	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1) Seedlings	33	58	73	109	145	158	158	169	176	187	198	198	198	198	198	198	90	
2) Fertilizers	27	41	53	80	99	111	111	124	135	147	160	160	160	160	160	160	65	
- P205	42	57	70	86	100	111	111	125	137	151	162	162	162	162	162	162	162	
- K20	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) Labour	-	-	-	65	142	246	246	288	355	397	469	505	596	641	641	641	365	
- Harvesting	78	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	181	
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5) Materials	5,304	8	9	12	15	15	15	18	19	20	23	23	23	23	23	23	11	
- Fence	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Chemicals	-	-	-	-	5	5	5	7	14	17	25	26	36	42	42	42	42	
- Bags (40kg)	-	-	-	65	171	264	309	345	375	413	451	485	496	496	496	496	219	
- Boxes	168	168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Water	-	-	-	32	82	135	160	160	187	207	238	260	291	307	307	307	173	
6) Transportation	-	-	-	36	51	66	74	74	82	89	98	103	111	115	115	115	55	
7) Miscellaneous	372	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	
8) O&M Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
O&M Cost	-	-	11,358	11,358	13,630	15,679	17,825	20,007	11,364	14,378	12,106	10,057	7,911	5,729	3,014	-	-	
C. Loan Repayment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	52,506	887	11,927	12,183	14,775	17,130	19,439	21,797	13,294	16,504	14,334	12,459	10,395	8,213	5,498	1,441	-	
III. NET INCOME	0	268	(268)	0	0	0	0	0	0	0	0	0	0	1,753	3,935	6,650	4,049	

Table G.3.6 (2/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITHOUT SUBSIDY)

AREA:	2.3 ha (Site: E1)		(Unit: JD)															
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20	
I. GROSS INCOME																		
1) Fruits																		
Olives							152	205	428	559	803	856	1,185	1,369	1,369	1,369	1,369	
Grapes					1,054	2,013	2,971	3,354	3,546	3,642	3,833	4,121	4,408	4,504	4,504	4,504	4,504	
Apricots						491	860	1,101	1,346	1,614	1,895	2,113	2,279	2,345	2,345	2,345	2,345	
2) Field Crops		782	782	782	782	782	782											
3) Loan	28,179		5,515	4,817	4,777	4,547	5,795	6,238	998	1,761	80							
Total	28,179	782	6,297	6,553	8,063	9,312	10,455	11,558	6,813	8,292	7,170	7,872	8,218	8,218	8,218	8,218	3,714	
II. GROSS OUTGOING																		
A. Construction Cost	22,900																	
B. Production Cost		1,178	119															
1) Seedlings																		
2) Fertilizers		22	39	49	74	98	107	114	119	127	134	134	134	134	134	134	61	
- N		18	28	36	54	67	75	84	91	100	108	108	108	108	108	108	44	
- P205		28	38	48	58	67	75	84	93	102	110	110	110	110	110	110	110	
- K20		23																
3) Plowing																		
4) Labour					44	96	166	195	240	268	317	342	403	434	434	434	247	
- Harvesting		53	184	184	184	184	184	184	184	184	184	184	184	184	184	184	123	
- Hoeing																		
5) Materials		3,588																
- Fence																		
- Chemicals		5	5	6	8	10	10	12	13	14	15	15	15	15	15	15	8	
- Bags (40kg)							3	5	9	12	17	18	25	28	28	28	28	
- Boxes					44	116	179	209	233	254	279	305	328	336	336	336	148	
- Water		113	113															
6) Transportation					21	55	91	108	127	140	161	176	197	208	208	208	117	
7) Miscellaneous		251	26	16	24	35	45	50	55	60	66	70	75	78	78	78	44	
8) O&M Cost			46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
C. Loan Repayment				6,096	6,096	7,289	8,331	9,364	10,348	5,506	6,855	5,662	4,620	3,587	2,603	1,349		
Total	28,179	598	6,481	6,653	8,063	9,312	10,455	11,558	6,813	8,292	7,170	6,245	5,268	4,284	3,030	976		
III. NET INCOME																		
	0	184	(184)	0	0	0	0	0	0	0	0	0	1,627	2,950	3,934	5,188	2,738	

Table G.3.6 (3/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITHOUT SUBSIDY)

AREA:	7.7 ha (Site: D2)																(Unit: JD)
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	508	685	1,432	1,871	2,687	2,864	3,966	4,582	4,582	4,582	4,582	4,582
- Olives	-	-	-	3,529	6,738	9,946	11,229	11,871	12,192	12,833	13,796	14,758	15,079	15,079	15,079	15,079	0
- Grapes	-	-	-	-	1,643	2,880	3,686	4,507	5,403	6,345	7,074	7,631	7,851	7,851	7,851	7,851	7,851
- Apricots	-	-	-	2,616	2,616	2,616	-	-	-	-	-	-	-	-	-	-	-
2) Field Crops	-	2,616	2,616	2,616	2,616	-	-	-	-	-	-	-	-	-	-	-	-
3) Loan	61,276	0	11,317	8,977	7,297	4,978	7,275	6,542	-	-	-	-	-	-	-	-	-
Total	61,276	2,616	13,933	15,122	18,294	20,928	22,875	24,352	19,466	21,865	23,734	26,355	27,512	27,512	27,512	27,512	12,433
II. GROSS OUTGOING																	
A. Construction Cost	43,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	3,942	398	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- N	74	131	164	246	329	357	382	398	424	449	449	449	449	449	449	449	203
- P205	62	92	121	182	223	252	280	305	334	362	362	362	362	362	362	362	146
- K20	95	128	159	195	226	252	282	311	341	367	367	367	367	367	367	367	367
3) Plowing	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	146	321	557	652	803	898	1,063	1,145	1,350	1,453	1,453	1,453	1,453	826
- Harvesting	177	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	411
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	12,012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Fence	15	18	21	28	33	33	41	44	46	51	51	51	51	51	51	51	26
- Chemicals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Bags (40kg)	-	-	-	-	-	10	15	31	39	56	59	82	95	95	95	95	95
- Boxes	-	-	-	146	388	598	701	780	850	934	1,022	1,099	1,124	1,124	1,124	1,124	495
- Water	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	72	185	305	362	424	470	539	588	660	696	696	696	696	393
7) Miscellaneous	842	88	54	82	116	149	167	186	201	222	233	252	261	261	261	261	148
8) O&M Cost	-	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154
C. Loan Repayment	-	-	13,255	13,255	15,703	17,645	19,223	20,300	8,619	10,034	7,586	5,644	4,066	2,989	1,415	-	-
Total	61,276	2,005	14,544	15,122	18,294	20,928	22,875	24,352	12,992	14,847	12,632	11,086	9,694	8,617	7,043	3,264	-
III. NET INCOME																	
	0	611	(611)	0	0	0	0	0	6,474	7,018	11,102	15,269	17,818	18,895	20,469	9,169	-

Table 6.3.6 (4/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITHOUT SUBSIDY)

AREA:	20.5 ha (Site: Abyad)															(Unit: JD)	
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	1,353	1,825	3,813	4,982	7,155	7,626	10,558	12,198	12,198	12,198	12,198	12,198
Olives	-	-	-	9,396	17,938	26,479	29,896	31,604	32,458	34,167	36,729	39,292	40,146	40,146	40,146	40,146	0
Grapes	-	-	-	-	4,373	7,667	9,813	11,999	14,384	16,892	18,833	20,316	20,903	20,903	20,903	20,903	20,903
2) Field Crops	-	6,966	6,966	6,966	6,966	6,966	-	-	-	-	-	-	-	-	-	-	-
3) Loan	135,261	0	24,098	17,870	12,092	4,614	9,145	5,321	-	-	-	-	-	-	-	-	-
Total	135,261	6,966	31,064	34,232	41,369	47,079	50,679	52,737	51,824	58,214	63,188	70,166	73,247	73,247	73,247	73,247	33,101
II. GROSS OUTGOING																	
A. Construction Cost	88,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	10,496	1,059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	198	349	437	656	875	950	1,018	1,059	1,128	1,196	1,196	1,196	1,196	1,196	1,196	1,196	540
2) Fertilizers	164	246	321	485	595	670	745	813	888	964	964	964	964	964	964	964	390
- N	253	342	424	519	601	670	752	827	909	977	977	977	977	977	977	977	977
- P205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- K20	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	472	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,093
- Harvesting	-	-	-	390	854	1,483	1,736	2,139	2,392	2,829	3,048	3,594	3,868	3,868	3,868	3,868	2,200
- Hoeing	-	-	-	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,093
5) Materials	31,980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Fence	41	48	55	75	89	89	109	116	123	137	137	137	137	137	137	137	68
- Chemicals	-	-	-	-	-	27	41	82	103	150	157	219	253	253	253	253	253
- Bags (40kg)	-	-	-	390	1,032	1,592	1,866	2,077	2,262	2,487	2,720	2,925	2,993	2,993	2,993	2,993	1,319
- Boxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water	1,011	1,011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	191	492	813	964	1,128	1,251	1,435	1,565	1,756	1,852	1,852	1,852	1,852	1,046
7) Miscellaneous	2,241	235	144	217	309	397	444	494	535	591	620	670	694	694	694	694	394
8) O&M Cost	-	410	410	410	410	410	410	410	410	410	410	410	410	410	410	410	410
C. Loan Repayment	-	-	29,259	29,259	34,472	38,338	40,954	41,952	14,671	15,822	10,609	6,743	4,127	3,129	1,151	-	-
Total	135,261	5,340	32,690	34,232	41,369	47,079	50,679	52,737	26,312	28,638	24,043	21,231	19,111	18,113	16,135	8,690	-
III. NET INCOME	0	1,626	(1,626)	0	0	0	0	0	25,512	29,576	39,145	48,935	54,136	55,134	57,112	24,411	-

Table G.3.6 (5/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITHOUT SUBSIDY)

AREA:	33.9 ha (Whole Area)												(Unit: JD)				
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	2,237	3,017	6,305	8,238	11,831	12,611	17,459	20,171	20,171	20,171	20,171	20,171
Olives	-	-	-	15,538	29,663	43,788	49,438	52,263	53,675	56,500	60,738	64,975	66,388	66,388	66,388	66,388	0
Grapes	-	-	-	7,232	12,679	16,227	16,227	19,843	23,787	27,934	31,143	33,595	34,567	34,567	34,567	34,567	34,567
Apricots	-	-	-	-	-	11,519	11,519	-	-	-	-	-	-	-	-	-	-
2) Field Crops	-	11,519	11,519	11,519	11,519	11,519	-	-	-	-	-	-	-	-	-	-	-
3) Loan	277,223	0	50,076	40,456	33,112	23,103	33,433	30,459	-	-	-	-	-	-	-	-	-
Total	277,223	11,519	61,595	67,513	81,526	93,326	102,115	108,870	85,700	96,265	104,492	116,029	121,126	121,126	121,126	121,126	54,738
II. GROSS OUTGOING																	
A. Construction Cost	199,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	17,357	1,752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- N	328	576	723	1,085	1,446	1,571	1,684	1,752	1,865	1,978	1,978	1,978	1,978	1,978	1,978	1,978	893
- P2O5	271	407	531	802	983	1,107	1,232	1,345	1,469	1,593	1,593	1,593	1,593	1,593	1,593	1,593	644
- K2O	418	565	701	859	994	1,107	1,243	1,367	1,503	1,616	1,616	1,616	1,616	1,616	1,616	1,616	1,616
3) Plowing	339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Harvesting	780	2,712	2,712	2,712	2,712	2,452	2,870	3,537	3,955	4,678	5,040	5,944	6,396	6,396	6,396	6,396	3,639
- Hoing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	52,884	68	79	90	124	147	181	192	203	226	226	226	226	226	226	226	113
- Fence	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	68	-	-	-	-	45	68	136	170	249	260	362	418	418	418	418	418
- Bags (40kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Boxes	-	-	-	-	644	1,706	3,085	3,435	3,740	4,113	4,497	4,836	4,949	4,949	4,949	4,949	2,181
- Water	1,672	1,672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	3706	388	388	316	814	1,345	1,593	1,865	2,068	2,373	2,588	2,904	3,062	3,062	3,062	3,062	1,729
7) Miscellaneous	-	-	238	359	511	656	733	817	884	977	1026	1109	1148	1148	1148	1148	652
8) O&M Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C. Loan Repayment	-	-	59,968	59,968	70,800	79,551	86,714	91,712	38,976	45,565	34,733	25,982	18,819	13,821	6,589	-	-
Total	277,223	8,151	64,963	67,513	81,526	93,326	102,115	108,870	57,545	66,080	56,269	49,262	42,917	37,919	30,687	13,693	-
III. NET INCOME	0	3,368	(3,368)	0	0	0	0	0	28,155	30,185	48,223	66,767	78,209	83,207	90,439	41,045	-

Table G.3.7 (1/2) CASH FLOW STATEMENT FOR FODDER SHRUB PRODUCTION SCHEME (WITH SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow)		Construction Cost (JD/ha):										(Unit: JD)			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-30
I. GROSS INCOME																
1) Fodder Shrubs	-	-	143	143	143	143	143	143	143	143	143	143	143	143	143	143
2) Government Budget*	3,780	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	3,780	268	143	143	143	143	143	143	143	143	143	143	143	143	143	143
II. GROSS OUTGOING																
A. Construction Cost	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	1,565	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- N	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
- P205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- K20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Labour	628	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Pitting	252	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Planting	123	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7) Miscellaneous	3,780	268	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Total	0	0	130	130	130	130	130	130	130	130	130	130	130	130	130	130
III. NET INCOME																

* Initial investment costs including construction, seedling, hired labour, etc. are invested from the government budget under the condition of no interest and no repayment.

Table G.3.7 (2/2) CASH FLOW STATEMENT FOR FODDER SHRUB
PRODUCTION SCHEME (WITH SUBSIDY)

Stone Walls/Earth Bank/Contour Furrow: 4,480 ha (Unit: JD 1,000)

Year*	Gross Income			Gross Outgoing			Balance
	Fodder Shrubs	Government Budget	Total	Construc- tion Cost	Production Cost	Total	
1	-	170.10	170.10	54.00	116.10	170.10	-
2	-	182.16	182.16	54.00	128.16	182.16	-
3	6.44	182.16	188.60	54.00	128.75	182.75	5.85
4	12.87	182.16	195.03	54.00	129.33	183.33	11.70
5	19.31	178.38	197.69	52.80	127.34	180.14	17.55
6	25.74	181.89	207.63	54.00	130.23	184.23	23.40
7	32.03	182.16	214.19	54.00	131.07	185.07	29.12
8	38.47	182.16	220.63	54.00	131.66	185.66	34.97
9	44.90	182.16	227.06	54.00	132.24	186.24	40.82
10	51.34	178.38	229.72	52.80	130.25	183.05	46.67
11	57.77	11.79	69.56	-	17.04	17.04	52.52
12	64.06	-	64.06	-	5.82	5.82	58.24
13	64.06	-	64.06	-	5.82	5.82	58.24
14	64.06	-	64.06	-	5.82	5.82	58.24
15	64.06	-	64.06	-	5.82	5.82	58.24
16	64.06	-	64.06	-	5.82	5.82	58.24
17	64.06	-	64.06	-	5.82	5.82	58.24
18	64.06	-	64.06	-	5.82	5.82	58.24
19	64.06	-	64.06	-	5.82	5.82	58.24
20	64.06	-	64.06	-	5.82	5.82	58.24
21	64.06	-	64.06	-	5.82	5.82	58.24
22	64.06	-	64.06	-	5.82	5.82	58.24
23	64.06	-	64.06	-	5.82	5.82	58.24
24	64.06	-	64.06	-	5.82	5.82	58.24
25	64.06	-	64.06	-	5.82	5.82	58.24
26	64.06	-	64.06	-	5.82	5.82	58.24
27	64.06	-	64.06	-	5.82	5.82	58.24
28	64.06	-	64.06	-	5.82	5.82	58.24
29	64.06	-	64.06	-	5.82	5.82	58.24
30	64.06	-	64.06	-	5.82	5.82	58.24
31	57.63	-	57.63	-	5.24	5.24	52.39
32	51.19	-	51.19	-	4.65	4.65	46.54
33	44.76	-	44.76	-	4.07	4.07	40.69
34	38.32	-	38.32	-	3.48	3.48	34.84
35	32.03	-	32.03	-	2.91	2.91	29.12
36	25.60	-	25.60	-	2.33	2.33	23.27
37	19.16	-	19.16	-	1.74	1.74	17.42
38	12.73	-	12.73	-	1.16	1.16	11.57
39	6.29	-	6.29	-	0.57	0.57	5.72
40	-	-	-	-	-	-	-

* Year after planting

Table G.3.8 (1/3) CASH FLOW STATEMENT FOR WATER HARVESTING MEASURES (WITH SUBSIDY)

AREA:	10.0 ha (Micro-catchment)										Construction Cost (JD/ha): 56					(Unit: JD)				
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-70			
I. GROSS INCOME																				
1) Fruits																				
Olives	-	-	-	-	12	16	33	43	61	65	90	104	104	104	104	104	104			
Grapes	-	-	-	80	153	227	272	278	293	315	337	345	345	345	345	345	0			
Apricots	-	-	-	-	22	39	61	74	86	96	104	107	107	107	107	107	107			
2) Loan	593	62	174	120	77	15	-	-	-	-	-	-	-	-	-	-	-			
Total	593	62	174	200	252	293	323	366	395	440	476	531	556	556	556	556	211			
II. GROSS OUTGOING																				
A. Construction Cost	(560.0)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
B. Production Cost																				
1) Seedlings	86.7	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2) Fertilizers																				
- N	1.3	2.7	3.0	5.0	6.7	7.7	8.0	8.3	8.7	9.3	9.3	9.3	9.3	9.3	9.3	9.3	3.7			
- P205	1.3	1.7	2.3	3.7	4.7	5.3	6.0	6.3	7.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7	2.7			
- K20	2.0	2.3	3.0	3.7	4.3	4.7	5.3	5.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0			
3) Plowing	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
4) Labour																				
- Harvesting	-	-	-	3.3	7.0	12.0	14.3	17.3	19.3	23.0	24.3	29.3	31.3	31.3	31.3	31.3	17.0			
- Hoeing	293.3	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	5.3			
5) Materials	(2,080.0)*																			
- Fence	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.3			
- Chemicals	-	-	-	-	-	0.3	0.3	0.7	1.0	1.3	1.3	2.0	2.3	2.3	2.3	2.3	2.3			
- Bags (40kg)	-	-	-	3.3	7.7	11.7	14.0	15.3	16.3	17.7	19.0	20.7	21.0	21.0	21.0	21.0	6.7			
- Boxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
- Water	8.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6) Transportation	-	-	-	1.7	3.7	6.3	7.3	8.3	9.3	10.7	11.7	12.7	13.7	13.7	13.7	13.7	6.7			
7) Miscellaneous	127.3	3.0	2.2	2.8	3.5	4.2	4.6	4.9	5.2	5.7	5.8	6.3	6.4	6.4	6.4	6.4	2.6			
C. Loan Repayment	-	-	128	141	179	205	222	225	97	84	46	20	3	0	0	0	0			
Total	593	62	174	200	252	293	318	328	207	203	169	151	138	135	135	135	54			
III. NET INCOME																				
	0	0	0	0	0	0	5	38	188	237	307	380	418	421	421	421	157			

* Subsidy

Table 6.3.8 (2/3) CASH FLOW STATEMENT FOR WATER HARVESTING MEASURES (WITH SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow)		Construction Cost (JD/ha): 120														(Unit: JD)		
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-70		
I. GROSS INCOME																			
1) Fruits	-	-	-	-	-	-	12	16	33	43	61	65	90	104	104	104	104	104	
Olives	-	-	-	-	-	-	227	257	272	278	293	315	337	345	345	345	345	0	
Grapes	-	-	-	-	-	-	39	50	61	74	86	96	104	107	107	107	107	107	
Apricots	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-	-	-	-	
2) Loan	593	62	174	120	77	15	-	-	-	-	-	-	-	-	-	-	-	-	
Total	593	62	174	200	252	293	323	366	395	440	476	531	556	556	556	556	556	211	
II. GROSS OUTGOING																			
A. Construction Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B. Production Cost	(1,200.0)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1) Seedlings	86.7	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- N	1.3	2.7	3.0	5.0	6.7	7.7	8.0	8.3	8.7	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	3.7	
- P205	1.3	1.7	2.3	3.7	4.7	5.3	6.0	6.3	7.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	2.7	
- K20	2.0	2.3	3.0	3.7	4.3	4.7	5.3	5.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
3) Plowing	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Harvesting	-	-	-	3.3	7.0	12.0	14.3	17.3	19.3	23.0	24.3	24.3	29.3	31.3	31.3	31.3	31.3	17.0	
- Hoeing	293.3	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	5.3	
5) Materials	(2,080.0)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Fence	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.3	
- Chemicals	-	-	-	-	-	-	0.3	0.3	0.7	1.0	1.3	1.3	2.0	2.3	2.3	2.3	2.3	2.3	
- Bags (40kg)	-	-	-	-	-	-	11.7	14.0	15.3	16.3	17.7	19.0	20.7	21.0	21.0	21.0	21.0	6.7	
- Boxes	-	-	-	3.3	7.7	11.7	14.0	15.3	16.3	17.7	19.0	19.0	20.7	21.0	21.0	21.0	21.0	6.7	
- Water	8.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6) Transportation	-	-	-	1.7	3.7	6.3	7.3	8.3	9.3	10.7	11.7	11.7	12.7	13.7	13.7	13.7	13.7	6.7	
7) Miscellaneous	127.3	3.0	2.2	2.8	3.5	4.2	4.6	4.9	5.2	5.7	5.8	5.8	6.3	6.4	6.4	6.4	6.4	2.6	
C. Loan Repayment	-	-	128	141	179	205	222	225	97	84	46	20	20	3	0	0	0	0	
Total	593	62	174	200	252	293	318	328	207	203	169	151	138	138	135	135	135	54	
III. NET INCOME																			
	0	0	0	0	0	0	5	38	188	237	307	380	418	421	421	421	421	157	

* Subsidy

Table G.3.8 (3/3) CASH FLOW STATEMENT FOR WATER HARVESTING MEASURES (WITH SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow)		Construction Cost (JD/ha): 120														(Unit: JD)		
	Year		1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16-70
I. GROSS INCOME																			
1) Field Crops/Mixture	-	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
2) Loan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
II. GROSS OUTGOING																			
A. Construction Cost (1,200.0)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	-	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
1) Seedlings	-	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
2) Fertilizers	-	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
3) Agro-chemicals	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4) Farm Machinery	-	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
- Plowing	-	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
- Drilling	-	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
- Spraying	-	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
- Harvesting	-	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
5) Materials	-	43.0	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
Bags	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	897	897	897	897	897	897	897	897	897	897	897	897	897	897	897	897	897	897
7) Miscellaneous	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C. Loan Repayment	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623
III. NET INCOME	0	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623

* Subsidy

Table G.3.9 CASH FLOW STATEMENT FOR CHECK DAM (WITH SUBSIDY)

AREA:	0.3 ha (One Site)																(Unit: JD)		
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-70		
I. GROSS INCOME																			
1) Fruits	-	-	-	-	-	20	27	56	73	105	112	155	179	179	179	179	179	179	
Olives	-	-	-	138	263	388	438	463	475	500	538	575	588	588	588	588	588	588	
Grapes	-	-	-	-	64	112	144	176	211	247	276	297	306	306	306	306	306	306	
Apricots	222	74	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) Loan	222	74	92	138	327	520	609	695	759	852	926	1,027	1,073	1,073	1,073	1,073	1,073	485	
Total	222	74	92	138	327	520	609	695	759	852	926	1,027	1,073	1,073	1,073	1,073	1,073	485	
II. GROSS OUTGOING																			
A. Construction Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B. Production Cost (3,120.0)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1) Seedlings	154	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- N	3	5	6	10	13	14	15	16	17	18	18	18	18	18	18	18	18	8	
- P205	2	4	5	7	9	10	11	12	13	14	14	14	14	14	14	14	14	6	
- K20	4	5	6	8	9	10	11	12	13	14	14	14	14	14	14	14	14	14	
3) Plowing	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) Labour	-	-	-	6	13	22	25	31	35	41	45	53	57	57	57	57	57	32	
- Harvesting	7	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	16	
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5) Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Fence	(468)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Chemicals	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	
- Bags (40kg)	-	-	-	-	0	0	1	1	2	2	2	3	4	4	4	4	4	4	
- Boxes	-	-	-	6	15	23	27	30	33	36	40	43	44	44	44	44	44	19	
- Water	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6) Transportation	-	-	-	3	7	12	14	17	18	21	23	26	27	27	27	27	27	15	
7) Miscellaneous	33	4	2	3	5	6	7	7	8	9	9	10	10	10	10	10	10	6	
C. Loan Repayment	-	-	48	64	84	84	84	84	35	20	0	0	0	0	0	0	0	0	
Total	222	74	92	132	180	206	221	235	201	201	191	207	214	214	214	214	214	121	
III. NET INCOME	0	0	0	6	147	314	388	459	558	651	735	820	859	859	859	859	859	364	

* Subsidy

Table G.3.10 (1/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	3.4 ha (Site: J1)																
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20
(Unit: JD)																	
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	224	303	632	826	1,187	1,265	1,751	2,023	2,023	2,023	2,023	2,023
Olives	-	-	-	-	-	4,392	4,958	5,242	5,383	5,667	6,092	6,517	6,658	6,658	6,658	6,658	6,658
Grapes	-	-	-	1,558	2,975	1,272	1,627	1,990	2,386	2,802	3,123	3,369	3,467	3,467	3,467	3,467	3,467
Apricots	-	-	-	-	725	1,155	-	-	-	-	-	-	-	-	-	-	-
2) Field Crops	-	1,155	1,155	1,155	1,155	-	-	-	-	-	-	-	-	-	-	-	-
3) Loan	2,502	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2,502	1,155	1,155	2,713	4,855	7,043	6,888	7,864	8,595	9,656	10,480	11,637	12,148	12,148	12,148	12,148	5,490
II. GROSS OUTGOING																	
A. Construction Cost																	
B. Production Cost																	
1) Seedlings	1,741	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers																	
- N	33	58	73	109	145	158	169	176	187	198	198	198	198	198	198	198	90
- P205	27	41	53	80	99	111	124	135	147	160	160	160	160	160	160	160	65
- K20	42	57	70	86	100	111	125	137	151	162	162	162	162	162	162	162	162
3) Plowing	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Harvesting	-	-	-	65	142	246	288	355	397	469	505	596	641	641	641	641	365
- Hoing	78	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	181
5) Materials																	
- Fence	(5,304)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	7	8	9	12	15	15	18	19	20	23	23	23	23	23	23	23	11
- Bags (40kg)	-	-	-	-	-	5	7	14	17	25	26	36	42	42	42	42	42
- Boxes	-	-	-	65	171	264	309	345	375	413	451	485	496	496	496	496	219
- Water	168	168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	32	82	135	160	187	207	238	260	291	307	307	307	307	173
7) Miscellaneous	372	39	24	36	51	66	74	82	89	98	103	111	115	115	115	115	65
8) O&M Cost	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
C. Loan Repayment	-	-	541	541	541	541	541	541	0	0	0	0	0	0	0	0	0
Total	2,502	887	1,110	1,366	1,686	1,992	2,155	2,331	1,930	2,126	2,228	2,402	2,484	2,484	2,484	2,484	1,441
III. NET INCOME	0	268	45	1,347	3,169	5,051	4,733	5,533	6,665	7,530	8,252	9,235	9,664	9,664	9,664	9,664	4,049

* Subsidy

Table G.3.10 (2/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	2.3 ha (Site: E1)																(Unit: JD)
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	152	205	428	559	803	856	1,185	1,369	1,369	1,369	1,369	1,369
Olives	-	-	-	-	-	2,971	3,354	3,546	3,642	3,833	4,121	4,408	4,504	4,504	4,504	4,504	4,504
Grapes	-	-	-	1,054	2,013	491	1,101	1,346	1,614	1,895	2,113	2,279	2,345	2,345	2,345	2,345	2,345
Apricots	-	-	-	-	-	860	-	-	-	-	-	-	-	-	-	-	-
2) Field Crops	-	782	782	782	782	782	-	-	-	-	-	-	-	-	-	-	-
3) Loan	1,691	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1,691	782	782	1,836	3,286	4,765	4,660	5,320	5,815	6,531	7,090	7,872	8,218	8,218	8,218	8,218	3,714
II. GROSS OUTGOING																	
A. Construction Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	(22,900)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	1,178	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- N	22	39	49	74	98	107	114	119	127	134	134	134	134	134	134	134	61
- P205	18	28	36	54	67	75	84	91	100	108	108	108	108	108	108	108	44
- K20	28	38	48	58	67	75	84	93	102	110	110	110	110	110	110	110	110
3) Plowing	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Harvesting	-	-	-	44	96	166	195	240	268	317	342	403	434	434	434	434	247
- Hoeing	53	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	123
5) Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Fence	(3,588)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	5	5	6	8	10	10	12	13	14	15	15	15	15	15	15	15	8
- Bags (40kg)	-	-	-	-	-	3	5	9	12	17	18	25	28	28	28	28	28
- Boxes	-	-	-	44	116	179	209	233	254	279	305	328	336	336	336	336	148
- Water	113	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	21	55	91	108	127	140	161	176	197	208	208	208	208	117
7) Miscellaneous	251	26	16	24	35	45	50	55	60	66	70	75	78	78	78	78	44
8) O&M Cost	-	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
C. Loan Repayment	-	-	366	366	366	366	366	366	0	0	0	0	0	0	0	0	0
Total	1,691	598	751	923	1,140	1,347	1,457	1,576	1,307	1,437	1,508	1,625	1,681	1,681	1,681	1,681	976
III. NET INCOME	0	184	31	913	2,146	3,418	3,203	3,744	4,508	5,094	5,582	6,247	6,537	6,537	6,537	6,537	2,738

* Subsidy

Table G.3.10 (3/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	7.7 ha (Site: D2)														(Unit: JD)		
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20
I. GROSS INCOME																	
1) Fruits							508	685	1,432	1,871	2,687	2,864	3,966	4,582	4,582	4,582	4,582
Olives						9,946	11,229	11,871	12,192	12,833	13,796	14,758	15,079	15,079	15,079	15,079	15,079
Grapes				3,529	6,738	1,643	2,880	3,686	4,507	5,403	6,345	7,074	7,631	7,851	7,851	7,851	7,851
Apricots																	
2) Field Crops				2,616	2,616	2,616											
3) Loan	5,664																
Total	5,664	2,616	2,616	6,145	10,997	15,950	15,600	17,810	19,466	21,865	23,734	26,355	27,512	27,512	27,512	27,512	12,433
II. GROSS OUTGOING																	
A. Construction Cost																	
B. Production Cost	(43,600)*																
1) Seedlings	3,942	398															
2) Fertilizers																	
- N	74	131	164	246	329	357	382	398	424	449	449	449	449	449	449	449	203
- P205	62	92	121	182	223	252	280	305	334	362	362	362	362	362	362	362	146
- K20	95	128	159	195	226	252	282	311	341	367	367	367	367	367	367	367	367
3) Plowing	77																
4) Labour																	
- Harvesting				146	321	557	652	803	898	1,063	1,145	1,350	1,453	1,453	1,453	1,453	826
- Hoeing	177	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	411
5) Materials																	
- Fence	(12,012)*																
- Chemicals	15	18	21	28	33	33	41	44	46	51	51	51	51	51	51	51	26
- Bags (40kg)							10	15	31	39	56	59	82	95	95	95	95
- Boxes							598	701	780	850	934	1,022	1,099	1,124	1,124	1,124	495
- Water	380	380															
6) Transportation																	
7) Miscellaneous	842	88	54	82	116	149	167	186	201	222	233	252	261	261	261	261	148
8) O&M Cost		154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154
- Loan Repayment				1,225	1,225	1,225	1,225	1,225	1,225	1,225	1,225	1,225	1,225	1,225	1,225	1,225	0
Total	5,664	2,005	2,514	3,092	3,816	4,508	4,877	5,277	4,373	4,813	5,046	5,442	5,628	5,628	5,628	5,628	3,264
III. NET INCOME																	
Total	0	611	102	3,053	7,181	11,442	10,723	12,533	15,093	17,052	18,688	20,913	21,884	21,884	21,884	21,884	9,169

* Subsidy

Table G.3.10 (4/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	20.5 ha (Site: Abyad)												(Unit: JD)				
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	1,353	1,825	3,813	4,982	7,155	7,626	10,558	12,198	12,198	12,198	12,198	12,198
Olives	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grapes	-	-	-	9,396	17,938	26,479	29,896	31,604	32,458	34,167	36,729	39,292	40,146	40,146	40,146	40,146	0
Apricots	-	-	-	-	4,373	7,667	9,813	11,999	14,384	16,892	18,833	20,316	20,903	20,903	20,903	20,903	20,903
2) Field Crops	-	6,966	6,966	6,966	6,966	6,966	-	-	-	-	-	-	-	-	-	-	-
3) Loan	15,081	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	15,081	6,966	6,966	16,362	29,277	42,465	41,534	47,416	51,824	58,214	63,188	70,166	73,247	73,247	73,247	73,247	33,101
II. GROSS OUTGOING																	
A. Construction Cost	(88,200)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	10,496	1,059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	198	349	437	656	875	950	1,018	1,059	1,128	1,196	1,196	1,196	1,196	1,196	1,196	1,196	540
2) Fertilizers	164	246	321	485	595	670	745	813	888	964	964	964	964	964	964	964	390
- N	253	342	424	519	601	670	752	827	909	977	977	977	977	977	977	977	977
- K2O	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	390	854	1,483	1,736	2,139	2,392	2,829	3,048	3,594	3,868	3,868	3,868	3,868	2,200
- Harvesting	472	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,093
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	(31,980)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Fence	41	48	55	75	89	89	109	116	123	137	137	137	137	137	137	137	68
- Chemicals	-	-	-	-	-	27	41	82	103	150	157	219	253	253	253	253	253
- Bags (40kg)	-	-	-	390	1,032	1,592	1,866	2,077	2,262	2,487	2,720	2,925	2,993	2,993	2,993	2,993	1,319
- Boxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water	1,011	1,011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	191	492	813	964	1,128	1,251	1,435	1,565	1,756	1,852	1,852	1,852	1,852	1,046
7) Miscellaneous	2,241	235	144	217	309	397	444	494	535	591	620	670	694	694	694	694	394
8) O&M Cost	-	410	410	410	410	410	410	410	410	410	410	410	410	410	410	410	410
C. Loan Repayment	-	-	3,262	3,262	3,262	3,262	3,262	3,262	0	0	0	0	0	0	0	0	0
Total	15,081	5,340	6,693	8,235	10,159	12,003	12,987	14,047	11,641	12,816	13,434	14,488	14,984	14,984	14,984	14,984	8,690
III. NET INCOME																	
	0	1,626	273	8,127	19,118	30,462	28,547	33,369	40,183	45,398	49,754	55,678	58,263	58,263	58,263	58,263	24,411

* Subsidy

Table G.3.10 (5/5) CASH FLOW STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA: 33.9 ha (Whole Area)	(Unit: JD)																	
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20	
I. GROSS INCOME																		
1) Fruits																		
Olives	-	-	-	-	-	2,237	3,017	6,305	8,238	11,831	12,611	17,459	20,171	20,171	20,171	20,171	20,171	
Grapes	-	-	-	15,538	29,663	43,788	49,438	52,263	53,675	56,500	60,738	64,975	66,388	66,388	66,388	66,388	66,388	0
Apricots	-	-	-	-	7,232	12,679	16,227	19,843	23,787	27,934	31,143	33,595	34,567	34,567	34,567	34,567	34,567	0
2) Field Crops	-	11,519	11,519	11,519	11,519	11,519	-	-	-	-	-	-	-	-	-	-	-	
3) Loan	24,939	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	24,939	11,519	11,519	27,057	48,414	70,223	68,682	78,411	85,700	96,265	104,492	116,029	121,126	121,126	121,126	121,126	54,738	
II. GROSS OUTGOING																		
A. Construction Cost																		
B. Production Cost	(199,400)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1) Seedlings	17,357	1,752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) Fertilizers																		
- N	328	576	723	1,085	1,446	1,571	1,684	1,752	1,865	1,978	1,978	1,978	1,978	1,978	1,978	1,978	893	
- P205	271	407	531	802	983	1,107	1,232	1,345	1,469	1,593	1,593	1,593	1,593	1,593	1,593	1,593	644	
- K20	418	565	701	859	994	1,107	1,243	1,367	1,503	1,616	1,616	1,616	1,616	1,616	1,616	1,616	1,616	
3) Plowing	339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) Labour																		
- Harvesting	-	-	-	644	1,413	2,452	2,870	3,537	3,955	4,678	5,040	5,944	6,396	6,396	6,396	6,396	3,639	
- Hoeing	780	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	1,808	
5) Materials	(52,884)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Fence	68	79	90	124	147	147	181	192	203	226	226	226	226	226	226	226	113	
- Chemicals	-	-	-	-	-	45	68	136	170	249	260	362	418	418	418	418	418	
- Bags (40kg)	-	-	-	644	1,706	2,633	3,085	3,435	3,740	4,113	4,497	4,836	4,949	4,949	4,949	4,949	2,181	
- Boxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Water	1,672	1,672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6) Transportation	-	-	-	316	814	1,345	1,593	1,865	2,068	2,373	2,588	2,904	3,062	3,062	3,062	3,062	1,729	
7) Miscellaneous	3706	388	238	359	511	656	733	817	884	977	1026	1109	1148	1148	1148	1148	652	
8) O&M Cost	-	-	-	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	
C. Loan Repayment	-	-	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	5,395	
Total	24,939	8,151	10,390	12,940	16,121	19,170	20,796	22,553	18,569	20,515	21,536	23,280	24,098	24,098	24,098	24,098	13,693	
III. NET INCOME	0	3,368	1,129	14,117	32,293	51,053	47,886	55,858	67,131	75,750	82,956	92,749	97,028	97,028	97,028	97,028	41,045	

* Subsidy

Table G.3.11 (1/3) PROFIT AND LOSS STATEMENT FOR WATER HARVESTING MEASURES (WITHOUT SUBSIDY)

AREA:	10.0 ha (Micro-catchment)															
	Construction Cost (JD/ha): 56															
Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-70
I. GROSS INCOME																
1) Fruits	-	-	-	-	-	12	16	33	43	61	65	90	104	104	104	104
Olives	-	-	-	80	153	227	257	272	278	293	315	337	345	345	345	345
Grapes	-	-	-	-	22	39	50	61	74	86	96	104	107	107	107	107
Apricots	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0	0	80	175	278	323	366	395	440	476	531	556	556	556	211
II. GROSS OUTGOING																
A. Depreciation Cost*	-	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
B. Production Cost	86.7	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	1.3	2.7	3.0	5.0	6.7	7.7	8.0	8.3	8.7	9.3	9.3	9.3	9.3	9.3	9.3	3.7
2) Fertilizers	1.3	1.7	2.3	3.7	4.7	5.3	6.0	6.3	7.3	7.7	7.7	7.7	7.7	7.7	7.7	2.7
- N	2.0	2.3	3.0	3.7	4.3	4.7	5.3	5.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0
- P205	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- K20	293.3	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	3.3	7.0	12.0	14.3	17.3	19.3	23.0	24.3	29.3	31.3	31.3	31.3	17.0
- Harvesting	-	-	-	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	5.3
- Hoewing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
- Fence**	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	0.3
- Chemicals	-	-	-	-	0.3	0.3	0.3	0.7	1.0	1.3	1.3	2.0	2.3	2.3	2.3	2.3
- Bags (40kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Boxes	-	-	-	3.3	7.7	11.7	14.0	15.3	16.3	17.7	19.0	20.7	21.0	21.0	21.0	6.7
- Water	8.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Transportation	-	-	-	1.7	3.7	6.3	7.3	8.3	9.3	10.7	11.7	12.7	13.7	13.7	13.7	6.7
- Miscellaneous	127.3	3.0	2.2	2.8	3.5	4.2	4.6	4.9	5.2	5.7	5.8	6.3	6.4	6.4	6.4	2.6
C. Repayment of Interest	-	-	259	228	249	255	255	247	234	270	251	248	228	193	149	99
Total	593	278	521	503	538	559	567	566	560	605	590	387	371	336	292	161
III. NET INCOME																
- Annual Income	(593)	(278)	(521)	(423)	(363)	(281)	(244)	(200)	(165)	(165)	(114)	144	185	220	264	50
- Reserve carried forward	(593)	(871)	(1,392)	(1,815)	(2,178)	(2,459)	(2,703)	(2,903)	(3,068)	(3,233)	(3,347)	(3,203)	(3,018)	(2,798)	(2,534)	(2,484)

* Useful Life: 70 years

** Depreciation Cost (10 years)

Table 6.3.11 (2/3) PROFIT AND LOSS STATEMENT FOR WATER HARVESTING MEASURES (WITHOUT SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow)										Construction Cost (JD/ha):						(Unit: JD)
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-70	
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	12	16	33	43	61	65	90	104	104	104	104	
Olives	-	-	-	80	153	227	257	272	278	293	315	337	345	345	345	0	
Grapes	-	-	-	-	22	39	50	61	74	86	96	104	107	107	107	107	
Apricots	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	0	0	0	80	175	278	323	366	395	440	476	531	556	556	556	211	
II. GROSS OUTGOING																	
A. Depreciation Cost*	-	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	
B. Production Cost	86.7	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1) Seedlings	1.3	2.7	3.0	5.0	6.7	7.7	8.0	8.3	8.7	9.3	9.3	9.3	9.3	9.3	9.3	3.7	
2) Fertilizers	1.3	1.7	2.3	3.7	4.7	5.3	6.0	6.3	7.3	7.7	7.7	7.7	7.7	7.7	7.7	2.7	
- N	2.0	2.3	3.0	3.7	4.3	4.7	5.3	5.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
- P205	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- K20	293.3	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	5.3	
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) Labour	-	-	-	3.3	7.0	12.0	14.3	17.3	19.3	23.0	24.3	29.3	31.3	31.3	31.3	17.0	
- Harvesting	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	
- Hoeing	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	0.3	
5) Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Fence**	-	-	-	3.3	7.7	11.7	14.0	15.3	16.3	17.7	19.0	20.7	21.0	21.0	21.0	6.7	
- Chemicals	8.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- Bags (40kg)	127.3	3.0	2.2	2.8	3.5	4.2	4.6	4.9	5.2	5.7	5.8	6.3	6.4	6.4	6.4	2.6	
- Boxes	-	-	-	310	273	297	304	306	299	287	335	317	297	259	208	150	
- Water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6) Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7) Miscellaneous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C. Repayment of Interest	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	593	287	581	557	595	617	627	627	622	679	663	466	449	411	360	221	
III. NET INCOME																	
- Annual Income	(593)	(287)	(581)	(477)	(420)	(339)	(304)	(261)	(227)	(239)	(187)	65	107	145	196	(10)	
- Reserve carried forward	(593)	(880)	(1,461)	(1,938)	(2,358)	(2,697)	(3,001)	(3,262)	(3,489)	(3,728)	(3,915)	(3,850)	(3,743)	(3,598)	(3,402)	(3,412)	

* Useful Life: 70 years
 ** Depreciation Cost (10 years)

Table G.3.11 (3/3) PROFIT AND LOSS STATEMENT FOR WATER HARVESTING MEASURES (WITHOUT SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow) Construction Cost (JD/ha): 120												(Unit: JD)			
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15
I. GROSS INCOME																
1) Field Crops/Mixtur	-	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Total	-	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
II. GROSS OUTGOING																
A. Depreciation Cost*	-	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
B. Production Cost	-	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
1) Seedlings	-	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
2) Fertilizers	-	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
3) Agro-chemicals	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
- Compound, DAP	-	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
- Herbicides	-	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
4) Farm Machinery	-	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
- Plowing	-	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
- Drilling	-	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Spraying	-	43.0	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
- Harvesting	-	-	96	83	69	53	37	19	0	0	0	0	0	0	0	0
5) Materials	-	914	1,010	997	983	967	951	933	914	914	914	914	914	914	914	914
- Bags	-	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
- Transportation	-	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
6) Miscellaneous	-	43.0	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
7) Miscellaneous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C. Repayment of Interest	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	914	1,010	997	983	967	951	933	914	914	914	914	914	914	914	914
III. NET INCOME																
- Annual Income	-	1,606	1,510	1,523	1,537	1,553	1,569	1,587	1,606	1,606	1,606	1,606	1,606	1,606	1,606	1,606
- Reserve carried forward	0	1,606	3,116	4,639	6,176	7,729	9,298	10,885	12,491	14,097	15,703	17,309	18,915	20,521	22,127	23,733

* Useful Life: 70 years

Table G.3.12 PROFIT AND LOSS STATEMENT FOR CHECK DAM (WITHOUT SUBSIDY)

AREA:	0.3 ha (One Site)															(Unit: JD)	
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
I. GROSS INCOME																	
1) Fruits																	
Olives	-	-	-	-	-	20	27	56	73	105	112	155	179	179	179	179	179
Grapes	-	-	-	138	263	388	438	463	475	500	538	575	588	588	588	588	588
Apricots	-	-	-	-	64	112	144	176	211	247	276	297	306	306	306	306	306
Total	0	0	0	138	327	520	609	695	759	852	926	1,027	1,073	1,073	1,073	1,073	485
II. GROSS OUTGOING																	
A. Depreciation Cost*	-	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
B. Production Cost	154	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	3	5	6	10	13	14	15	16	17	18	18	18	18	18	18	18	8
- N	2	4	5	7	9	10	11	12	13	14	14	14	14	14	14	14	6
- P205	4	5	6	8	9	10	11	12	13	14	14	14	14	14	14	14	14
- K20	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
- Harvesting	-	-	-	6	13	22	25	31	35	41	45	53	57	57	57	57	32
- Hoeing	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	-	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
- Fence**	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1
- Chemicals	-	-	-	-	-	-	1	1	2	2	2	3	4	4	4	4	4
- Bags (40kg)	-	-	-	-	-	-	0	1	2	2	2	3	4	4	4	4	4
- Boxes	-	-	-	6	15	23	27	30	33	36	40	43	44	44	44	44	19
- Water	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	3	7	12	14	17	18	21	23	26	27	27	27	27	15
7) Miscellaneous	33	4	2	3	5	6	7	7	8	9	9	10	10	10	10	10	6
C. Repayment of Interest	-	-	305	269	293	296	288	265	235	260	218	191	148	97	56	27	27
Total	222	166	441	429	481	510	517	509	492	533	501	443	407	356	315	193	193
III. NET INCOME																	
- Annual Income	(222)	(166)	(441)	(291)	(154)	10	92	186	267	319	425	584	666	717	758	292	292
- Reserve carried forward	(222)	(388)	(829)	(1,120)	(1,274)	(1,264)	(1,172)	(986)	(719)	(400)	25	609	1,275	1,992	2,750	3,042	3,042

* Useful Life: 70 years

** Depreciation Cost (10 years)

Table 6.3.13 (1/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	3.4 ha (Site: J1)										(Unit: JD)						
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	224	303	632	826	1,187	1,265	1,751	2,023	2,023	2,023	2,023	2,023
Olives	-	-	-	1,558	2,975	4,392	4,958	5,242	5,383	5,667	6,092	6,517	6,658	6,658	6,658	6,658	6,658
Grapes	-	-	-	-	725	1,272	1,627	1,990	2,386	2,802	3,123	3,369	3,467	3,467	3,467	3,467	3,467
Apricots	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Field Crops	-	1,155	1,155	1,155	1,155	1,155	-	-	-	-	-	-	-	-	-	-	-
Total	0	1,155	1,155	2,713	4,855	7,043	6,888	7,864	8,595	9,656	10,480	11,637	12,148	12,148	12,148	12,148	5,490
II. GROSS OUTGOING																	
A. Depreciation Cost*	-	2,235	2,235	2,235	2,235	2,235	2,235	2,235	2,235	2,235	2,235	2,235	2,235	2,235	2,235	2,235	2,235
B. Production Cost	1,741	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	33	58	73	109	145	158	169	176	187	198	198	198	198	198	198	198	90
2) Fertilizers	27	41	53	80	99	111	124	135	147	160	160	160	160	160	160	160	65
- N	42	57	70	86	100	111	125	137	151	162	162	162	162	162	162	162	162
- P2O5	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- K2O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	65	142	246	288	355	397	469	505	596	641	641	641	641	365
- Harvesting	78	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	181
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	-	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530
- Fence**	7	8	9	12	15	15	18	19	20	23	23	23	23	23	23	23	11
- Chemicals	-	-	-	-	-	5	7	14	17	25	26	36	42	42	42	42	42
- Bags (40kg)	-	-	-	65	171	264	309	345	375	413	451	485	496	496	496	496	219
- Boxes	168	168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water	-	-	-	32	82	135	160	187	207	238	260	291	307	307	307	307	173
6) Transportation	-	-	-	36	51	66	74	82	89	98	103	111	115	115	115	115	65
7) Miscellaneous	372	39	24	68	68	68	68	68	68	68	68	68	68	68	68	68	68
8) O&M Cost	-	-	4,200	3,628	3,850	3,825	3,670	3,345	3,016	3,463	2,965	2,701	2,221	1,565	952	506	506
C. Repayment of Interest	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2,502	3,652	7,534	7,218	7,760	8,041	8,049	7,900	7,711	8,354	7,958	7,338	6,940	6,284	5,671	4,182	4,182
III. NET INCOME																	
- Annual Income	(2,502)	(2,497)	(6,379)	(4,505)	(2,905)	(998)	(1,161)	(36)	884	1,302	2,522	4,299	5,208	5,864	6,477	1,308	1,308
- Reserve carried forward	(2,502)	(4,999)	(11,378)	(15,883)	(18,788)	(19,786)	(20,947)	(20,983)	(20,099)	(18,797)	(16,275)	(11,976)	(6,768)	(904)	5,573	6,881	6,881

* Useful Life: 20 years
 ** Depreciation cost (10 years)

Table G.3.13 (2/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	2.3 ha (Site: E1)		(Unit: JD)															
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20	
I. GROSS INCOME																		
1) Fruits	-	-	-	-	-	-	152	205	428	559	803	856	1,185	1,369	1,369	1,369	1,369	
Olives	-	-	-	-	1,054	2,013	2,971	3,354	3,546	3,642	3,833	4,121	4,408	4,504	4,504	4,504	4,504	
Grapes	-	-	-	-	-	491	860	1,101	1,346	1,614	1,895	2,113	2,279	2,345	2,345	2,345	2,345	
Apricots	-	-	-	-	-	-	782	-	-	-	-	-	-	-	-	-	-	
2) Field Crops	-	782	782	782	782	782	-	-	-	-	-	-	-	-	-	-	-	
Total	0	782	782	782	1,836	3,286	4,765	4,660	5,320	5,815	6,531	7,090	7,872	8,218	8,218	8,218	8,218	3,714
II. GROSS OUTGOING																		
A. Depreciation Cost*	-	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145
B. Production Cost	1,178	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	22	39	49	74	98	107	114	119	127	134	134	134	134	134	134	134	134	61
2) Fertilizers	18	28	36	54	67	75	84	91	100	108	108	108	108	108	108	108	108	44
- P205	28	38	48	58	67	75	84	93	102	110	110	110	110	110	110	110	110	110
- K20	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	44	96	166	195	240	268	317	342	342	403	434	434	434	434	247
- Harvesting	53	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	123
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	-	359	359	359	359	359	359	359	359	359	359	359	359	359	359	359	359	359
- Fence**	5	5	6	8	10	10	12	13	14	15	15	15	15	15	15	15	15	8
- Chemicals	-	-	-	-	-	-	3	5	9	12	17	18	25	28	28	28	28	28
- Bags (40kg)	-	-	-	-	-	-	179	209	233	254	279	305	328	336	336	336	336	148
- Boxes	113	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water	-	-	-	21	55	91	108	127	140	161	176	176	197	208	208	208	208	117
6) Transportation	251	26	16	24	35	45	50	55	60	66	70	70	75	78	78	78	78	44
7) Miscellaneous	-	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
8) O&M Cost	-	-	-	2,254	1,947	2,056	2,023	1,901	1,667	1,437	1,610	1,270	1,043	715	436	214	74	74
C. Repayment of Interest	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1,691	2,102	4,143	4,008	4,334	4,508	4,496	4,381	4,248	4,551	4,282	3,813	3,541	3,262	3,040	2,195	2,195	2,195
III. NET INCOME																		
- Annual Income	(1,691)	(1,320)	(3,361)	(2,172)	(1,048)	257	164	939	1,567	1,980	2,808	4,059	4,677	4,956	5,178	5,178	5,178	5,178
- Reserve carried forward	(1,691)	(3,011)	(6,372)	(8,544)	(9,592)	(9,335)	(9,171)	(8,232)	(6,665)	(4,685)	(1,877)	2,182	6,859	11,815	16,993	18,512	18,512	18,512

* Useful Life: 20 years
 ** Depreciation cost (10 years)

Table 6.3.13 (3/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	7.7 ha (Site: D2)																(Unit: JD)
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I. GROSS INCOME																	
1) Fruits																	
- Olives	-	-	-	-	-	508	685	1,432	1,871	2,687	2,864	3,966	4,582	4,582	4,582	4,582	4,582
- Grapes	-	-	-	3,529	6,738	9,946	11,229	11,871	12,192	12,833	13,796	14,758	15,079	15,079	15,079	15,079	0
- Apricots	-	-	-	-	1,643	2,880	3,686	4,507	5,403	6,345	7,074	7,631	7,851	7,851	7,851	7,851	7,851
2) Field Crops	-	2,616	2,616	2,616	2,616	2,616	-	-	-	-	-	-	-	-	-	-	-
Total	0	2,616	2,616	2,616	6,145	10,997	15,600	17,810	19,466	21,865	23,734	26,355	27,512	27,512	27,512	27,512	12,433
II. GROSS OUTGOING																	
A. Depreciation Cost*	-	2,180	2,180	2,180	2,180	2,180	2,180	2,180	2,180	2,180	2,180	2,180	2,180	2,180	2,180	2,180	2,180
B. Production Cost	3,942	398	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	74	131	164	164	329	357	382	398	424	449	449	449	449	449	449	449	203
2) Fertilizers	62	92	121	182	223	252	280	305	334	362	362	362	362	362	362	362	146
- N	95	128	159	195	226	252	282	311	341	367	367	367	367	367	367	367	367
- P205	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- K20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	-	321	557	652	803	898	1,063	1,145	1,350	1,453	1,453	1,453	1,453	826
- Harvesting	177	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	411
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	-	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201
- Fence**	15	18	21	28	33	33	41	44	46	51	51	51	51	51	51	51	26
- Chemicals	-	-	-	-	-	10	15	31	39	56	59	82	95	95	95	95	95
- Bags (40kg)	-	-	-	-	388	598	701	780	850	934	1,022	1,099	1,124	1,124	1,124	1,124	495
- Boxes	380	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Water	-	-	-	-	185	305	362	424	470	539	588	660	696	696	696	696	393
6) Transportation	842	88	54	82	116	149	167	186	201	222	233	252	261	261	261	261	148
7) Miscellaneous	-	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154
8) O&M Cost	-	-	4,902	4,234	4,418	4,233	3,744	2,904	2,094	2,095	1,460	970	596	318	105	0	0
C. Repayment of Interest	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	5,664	5,386	9,572	9,482	10,390	10,897	10,777	10,337	9,848	10,289	9,887	8,592	8,404	8,126	7,913	5,444	5,444
III. NET INCOME																	
- Annual Income	(5,664)	(2,770)	(6,956)	(3,337)	607	5,053	4,823	7,473	9,618	11,576	13,847	17,763	19,108	19,386	19,599	19,599	6,989
- Reserve carried forward	(5,664)	(8,434)	(15,390)	(18,727)	(18,120)	(13,067)	(8,244)	(771)	8,847	20,423	34,270	52,033	71,141	90,527	110,126	117,115	117,115

* Useful Life: 20 years

** Depreciation cost (10 years)

Table 6.3.13 (4/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	20.5 ha (Site: Abyad)																				(Unit: JD)
Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20					
I. GROSS INCOME																					
1) Fruits	-	-	-	-	-	1,353	1,825	3,813	4,982	7,155	7,526	10,558	12,198	12,198	12,198	12,198					
Olives	-	-	-	9,396	17,938	26,479	29,896	31,604	32,458	34,167	36,729	39,292	40,146	40,146	40,146	40,146					
Grapes	-	-	-	-	4,373	7,667	9,813	11,999	14,384	16,892	18,833	20,316	20,903	20,903	20,903	20,903					
Apricots	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2) Field Crops	-	6,966	6,966	6,966	6,966	6,966	-	-	-	-	-	-	-	-	-	-					
Total	0	6,966	6,966	16,362	29,277	42,465	41,534	47,416	51,824	58,214	63,188	70,166	73,247	73,247	73,247	73,247					
II. GROSS OUTGOING																					
A. Depreciation Cost*	-	4,410	4,410	4,410	4,410	4,410	4,410	4,410	4,410	4,410	4,410	4,410	4,410	4,410	4,410	4,410					
B. Production Cost	10,496	1,059	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
1) Seedlings	198	349	437	656	875	950	1,018	1,059	1,128	1,196	1,196	1,196	1,196	1,196	1,196	540					
2) Fertilizers	164	246	321	485	595	670	745	813	888	964	964	964	964	964	964	390					
- N	253	342	424	519	601	670	752	827	909	977	977	977	977	977	977	977					
- P205	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
- K20	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
3) Plowing	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
4) Labour	472	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	2,200					
- Harvesting	-	-	-	390	854	1,483	1,736	2,139	2,392	2,829	3,048	3,594	3,868	3,868	3,868	2,200					
- Hoeing	-	-	-	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,093					
5) Materials	-	3,198	3,198	3,198	3,198	3,198	3,198	3,198	3,198	3,198	3,198	-	-	-	-	-					
- Fence**	41	48	55	75	89	89	109	116	123	137	137	137	137	137	137	68					
- Chemicals	-	-	-	-	-	27	41	82	103	150	157	219	253	253	253	253					
- Bags (40kg)	-	-	-	390	-	1,592	1,866	2,077	2,262	2,487	2,720	2,925	2,993	2,993	2,993	1,319					
- Boxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
- Water	1,011	1,011	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
6) Transportation	-	-	-	191	492	813	964	1,128	1,251	1,435	1,565	1,756	1,852	1,852	1,852	1,046					
7) Miscellaneous	2,241	235	144	217	309	397	444	494	535	591	620	670	694	694	694	394					
8) O&M Cost	-	410	410	410	410	410	410	410	410	410	410	410	410	410	410	410					
C. Repayment of Interest	-	-	10,821	9,346	9,681	9,127	7,757	5,471	3,284	2,799	1,757	1,049	594	311	85	0					
Total	15,081	12,948	21,860	21,927	24,186	25,476	25,090	23,864	22,533	23,223	22,799	19,947	19,988	19,705	19,479	13,100					
III. NET INCOME																					
- Annual Income	(15,081)	(5,982)	(14,894)	(5,565)	5,091	16,989	16,444	23,552	29,291	34,991	40,389	50,219	53,259	53,542	53,768	20,001					
- Reserve carried forward	(15,081)	(21,063)	(35,957)	(41,522)	(36,431)	(19,442)	(2,998)	20,554	49,845	84,836	125,225	175,444	228,703	282,245	336,013	356,014					

* Useful Life: 20 years
 ** Depreciation cost (10 years)

Table G.3.13 (5/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	33.9 ha (Whole Area)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20
Year																	(Unit: JD)
I. GROSS INCOME																	
1) Fruits																	
Olives	-	-	-	-	-	2,237	3,017	6,305	8,238	11,831	12,611	17,459	20,171	20,171	20,171	20,171	20,171
Grapes	-	-	-	15,538	29,663	43,788	49,438	52,263	53,675	56,500	60,738	64,975	66,388	66,388	66,388	66,388	66,388
Apricots	-	-	-	-	7,232	12,679	16,227	19,843	23,787	27,934	31,143	33,595	34,567	34,567	34,567	34,567	34,567
2) Field Crops	-	11,519	11,519	11,519	11,519	11,519	-	-	-	-	-	-	-	-	-	-	-
Total	0	11,519	11,519	27,057	48,414	70,223	68,682	78,411	85,700	96,265	104,492	116,029	121,126	121,126	121,126	121,126	54,738
II. GROSS OUTGOING																	
A. Depreciation Cost*	-	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970	9,970
B. Production Cost																	
1) Seedlings	17,357	1,752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers																	
- N	328	576	723	1,085	1,446	1,571	1,684	1,752	1,865	1,978	1,978	1,978	1,978	1,978	1,978	1,978	893
- P205	271	407	531	802	983	1,107	1,232	1,345	1,469	1,593	1,593	1,593	1,593	1,593	1,593	1,593	644
- K20	418	565	701	859	994	1,107	1,243	1,367	1,503	1,616	1,616	1,616	1,616	1,616	1,616	1,616	1,616
3) Plowing	339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour																	
- Harvesting	-	-	-	644	1,413	2,452	2,870	3,537	3,955	4,678	5,040	5,944	6,396	6,396	6,396	6,396	3,639
- Hoeing	780	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	1,808
5) Materials																	
- Fence**	-	5,288	5,288	5,288	5,288	5,288	5,288	5,288	5,288	5,288	5,288	5,288	5,288	5,288	5,288	5,288	-
- Chemicals	68	79	90	124	147	147	181	192	203	226	226	226	226	226	226	226	113
- Bags (40kg)	-	-	-	-	-	45	68	136	170	249	260	362	418	418	418	418	418
- Boxes	-	-	-	644	1,706	2,633	3,085	3,435	3,740	4,113	4,497	4,836	4,949	4,949	4,949	4,949	2,181
- Water	1,672	1,672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	316	814	1,345	1,593	1,865	2,068	2,373	2,588	2,904	3,062	3,062	3,062	3,062	1,729
7) Miscellaneours	3706	388	238	359	511	656	733	817	884	977	1026	1109	1148	1148	1148	1148	652
8) O&M Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C. Repayment of Interest	-	-	22,178	19,155	19,896	19,060	16,869	13,130	9,518	9,599	6,721	4,480	2,760	1,476	488	0	0
Total	24,939	23,409	42,431	41,958	45,880	48,093	47,528	45,546	43,345	45,372	43,515	37,730	36,828	35,544	34,556	34,556	23,663
III. NET INCOME																	
- Annual Income	(24,939)	(11,890)	(30,912)	(14,901)	2,534	22,130	21,154	32,865	42,355	50,893	60,977	78,299	84,298	85,582	86,570	86,570	31,075
- Reserve carried forward	(24,939)	(36,829)	(67,741)	(82,642)	(80,108)	(57,978)	(36,824)	(3,959)	38,396	89,289	150,266	228,565	312,863	398,445	485,015	516,090	516,090

* Useful Life: 20 years
 ** Depreciation cost (10 years)

Table G.3.14 (1/2) PROFIT AND LOSS FOR FODDER SHRUB PRODUCTION SCHEME (WITH SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow)		Construction Cost (JD/ha):										(Unit: JD)			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-30
I. GROSS INCOME																
1) Fodder Shrubs	-	-	143	143	143	143	143	143	143	143	143	143	143	143	143	143
2) Government Budget*	3,780	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	3,780	268	143	143	143	143	143	143	143	143	143	143	143	143	143	143
II. GROSS OUTGOING																
A. Construction Cost	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	1,565	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- P205	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
- K20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Labour	628	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Pitting	252	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Planting	123	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7) Miscellaneous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	3,780	268	13	13	13	13	13	13	13	13	13	13	13	13	13	13
III. NET INCOME																
- Annual income	0	0	130	130	130	130	130	130	130	130	130	130	130	130	130	130
- Reserve carried forward	0	0	130	260	390	520	650	780	910	1,040	1,170	1,300	1,430	1,560	1,690	1,820

* Initial investment costs including construction, seedling, hired labour, etc. are invested from the government budget under the condition of no interest and no repayment.

Table G.3.14 (2/2) PROFIT AND LOSS FOR FODDER SHRUB
PRODUCTION SCHEME (WITH SUBSIDY)

Stone Walls/Earth Bank/Contour Furrow: 4,480 ha

(Unit: JD 1,000)

Year*	Gross Income			Gross Outgoing			Annual Income	Reserve Carried Forward
	Fodder Shrubs	Government Budget	Total	Construc- tion Cost	Production Cost	Total		
1	-	170.10	170.10	54.00	116.10	170.10	-	-
2	-	182.16	182.16	54.00	128.16	182.16	-	-
3	6.44	182.16	188.60	54.00	128.75	182.75	5.85	5.85
4	12.87	182.16	195.03	54.00	129.33	183.33	11.70	17.55
5	19.31	178.38	197.69	52.80	127.34	180.14	17.55	35.10
6	25.74	181.89	207.63	54.00	130.23	184.23	23.40	58.50
7	32.03	182.16	214.19	54.00	131.07	185.07	29.12	87.62
8	38.47	182.16	220.63	54.00	131.66	185.66	34.97	122.59
9	44.90	182.16	227.06	54.00	132.24	186.24	40.82	163.41
10	51.34	178.38	229.72	52.80	130.25	183.05	46.67	210.08
11	57.77	11.79	69.56	-	17.04	17.04	52.52	262.60
12	64.06	-	64.06	-	5.82	5.82	58.24	320.84
13	64.06	-	64.06	-	5.82	5.82	58.24	379.08
14	64.06	-	64.06	-	5.82	5.82	58.24	437.32
15	64.06	-	64.06	-	5.82	5.82	58.24	495.56
16	64.06	-	64.06	-	5.82	5.82	58.24	553.80
17	64.06	-	64.06	-	5.82	5.82	58.24	612.04
18	64.06	-	64.06	-	5.82	5.82	58.24	670.28
19	64.06	-	64.06	-	5.82	5.82	58.24	728.52
20	64.06	-	64.06	-	5.82	5.82	58.24	786.76
21	64.06	-	64.06	-	5.82	5.82	58.24	845.00
22	64.06	-	64.06	-	5.82	5.82	58.24	903.24
23	64.06	-	64.06	-	5.82	5.82	58.24	961.48
24	64.06	-	64.06	-	5.82	5.82	58.24	1,019.72
25	64.06	-	64.06	-	5.82	5.82	58.24	1,077.96
26	64.06	-	64.06	-	5.82	5.82	58.24	1,136.20
27	64.06	-	64.06	-	5.82	5.82	58.24	1,194.44
28	64.06	-	64.06	-	5.82	5.82	58.24	1,252.68
29	64.06	-	64.06	-	5.82	5.82	58.24	1,310.92
30	64.06	-	64.06	-	5.82	5.82	58.24	1,369.16
31	57.63	-	57.63	-	5.24	5.24	52.39	1,421.55
32	51.19	-	51.19	-	4.65	4.65	46.54	1,468.09
33	44.76	-	44.76	-	4.07	4.07	40.69	1,508.78
34	38.32	-	38.32	-	3.48	3.48	34.84	1,543.62
35	32.03	-	32.03	-	2.91	2.91	29.12	1,572.74
36	25.60	-	25.60	-	2.33	2.33	23.27	1,596.01
37	19.16	-	19.16	-	1.74	1.74	17.42	1,613.43
38	12.73	-	12.73	-	1.16	1.16	11.57	1,625.00
39	6.29	-	6.29	-	0.57	0.57	5.72	1,630.72
40	-	-	-	-	-	-	-	-

* Year after planting

Table G.3.15 (1/3) PROFIT AND LOSS STATEMENT FOR WATER HARVESTING MEASURES (WITH SUBSIDY)

AREA: 10.0 ha (Micro-catchment)	Construction Cost (JD/ha): 56															(Unit: JD)	
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	12	16	33	43	61	65	90	104	104	104	104	104
Olives	-	-	-	-	-	227	257	272	278	293	315	337	345	345	345	345	0
Grapes	-	-	-	-	22	39	50	61	74	86	96	104	107	107	107	107	107
Apricots	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0	0	80	175	278	323	366	395	440	476	531	556	556	556	556	211
II. GROSS OUTGOING																	
A. Depreciation Cost*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	86.7	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	1.3	2.7	3.0	5.0	6.7	7.7	8.0	8.3	8.7	9.3	9.3	9.3	9.3	9.3	9.3	9.3	3.7
2) Fertilizers	1.3	1.7	2.3	3.7	4.7	5.3	6.0	6.3	7.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7	2.7
- N	2.0	2.3	3.0	3.7	4.3	4.7	5.3	5.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
- P205	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- K20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Plowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	3.3	7.0	12.0	14.3	17.3	19.3	23.0	24.3	29.3	31.3	31.3	31.3	31.3	17.0
- Harvesting	293.3	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	5.3
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	-	-	-	1.0	1.0	1.0	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.3
- Fence*	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	0.3
- Chemicals	-	-	-	-	-	0.3	0.3	0.7	1.0	1.3	1.3	2.0	2.3	2.3	2.3	2.3	2.3
- Bags (40kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Boxes	-	-	-	3.3	7.7	11.7	14.0	15.3	16.3	17.7	19.0	20.7	21.0	21.0	21.0	21.0	6.7
- Water	8.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	1.7	3.7	6.3	7.3	8.3	9.3	10.7	11.7	12.7	13.7	13.7	13.7	13.7	6.7
7) Miscellaneous	127.3	3.0	2.2	2.8	3.5	4.2	4.6	4.9	5.2	5.7	5.8	6.3	6.4	6.4	6.4	6.4	2.6
C. Repayment of Interest	-	-	47	46	52	52	46	33	17	11	5	2	-	-	-	-	-
Total	593	62	93	105	125	140	142	136	127	130	128	133	135	135	135	135	54
III. NET INCOME																	
- Annual Income	(593)	(62)	(93)	(25)	50	138	181	230	268	310	348	398	421	421	421	421	157
- Reserve carried forward	(593)	(655)	(748)	(773)	(723)	(585)	(404)	(174)	94	404	752	1,150	1,571	1,992	2,413	2,570	2,570

* Subsidy

Table G.3.15 (2/3) PROFIT AND LOSS STATEMENT FOR WATER HARVESTING MEASURES (WITH SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow)												Construction Cost (JD/ha):			(Unit: JD)
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I. GROSS INCOME																
1) Fruits																
- Olives	-	-	-	-	-	12	16	33	43	61	65	90	104	104	104	104
- Grapes	-	-	-	80	153	227	257	272	278	293	315	337	345	345	345	0
- Apricots	-	-	-	-	22	39	50	61	74	86	96	104	107	107	107	107
Total	0	0	0	80	175	278	323	366	395	440	476	531	556	556	556	211
II. GROSS OUTGOING																
A. Depreciation Cost*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost																
1) Seedlings	86.7	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers																
- N	1.3	2.7	3.0	5.0	6.7	7.7	8.0	8.3	8.7	9.3	9.3	9.3	9.3	9.3	9.3	3.7
- P205	1.3	1.7	2.3	3.7	4.7	5.3	6.0	6.3	7.3	7.7	7.7	7.7	7.7	7.7	7.7	2.7
- K20	2.0	2.3	3.0	3.7	4.3	4.7	5.3	5.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0
3) Plowing	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Harvesting	-	-	-	3.3	7.0	12.0	14.3	17.3	19.3	23.0	24.3	29.3	31.3	31.3	31.3	17.0
- Hoeing	293.3	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	5.3
5) Materials																
- Fence*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	0.3
- Bags (40kg)	-	-	-	-	-	0.3	0.3	0.7	1.0	1.3	1.3	2.0	2.3	2.3	2.3	2.3
- Boxes	-	-	-	3.3	7.7	11.7	14.0	15.3	16.3	17.7	19.0	20.7	21.0	21.0	21.0	6.7
- Water	8.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	1.7	3.7	6.3	7.3	8.3	9.3	10.7	11.7	12.7	13.7	13.7	13.7	6.7
7) Miscellaneous	127.3	3.0	2.2	2.8	3.5	4.2	4.6	4.9	5.2	5.7	5.8	6.3	6.4	6.4	6.4	2.6
C. Repayment of Interest	-	-	47	46	52	52	46	33	17	11	5	2	-	-	-	-
Total	593	62	93	105	125	140	142	136	127	130	128	133	135	135	135	54
III. NET INCOME																
- Annual Income	(593)	(62)	(93)	(25)	50	138	181	230	268	310	348	398	421	421	421	157
- Reserve carried forward	(593)	(655)	(748)	(773)	(723)	(585)	(404)	(174)	94	404	752	1,150	1,571	1,992	2,413	2,570

* Subsidy

Table G.3.15 (3/3) PROFIT AND LOSS STATEMENT FOR WATER HARVESTING MEASURES (WITH SUBSIDY)

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Furrow)															(Unit: JD)
	Construction Cost (JD/ha): 120															
Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-70
I. GROSS INCOME																
1) Field Crops/Mixture	-	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Total	-	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
II. GROSS OUTGOING																
A. Depreciation Cost*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	-	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
1) Seedlings	-	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
2) Fertilizers	-	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
3) Agro-chemicals	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4) Farm Machinery	-	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
5) Materials	-	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
6) Bags	-	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
7) Miscellaneous	-	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
C. Repayment of Interest	-	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
Total	-	897	897	897	897	897	897	897	897	897	897	897	897	897	897	897
III. NET INCOME																
- Annual Income	-	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623
- Reserve carried forward	0	1,623	3,246	4,869	6,492	8,115	9,738	11,361	12,984	14,607	16,230	17,853	19,476	21,099	22,722	24,345

* Useful Life: 70 years

Table G.3.16 PROFIT AND LOSS STATEMENT FOR CHECK DAM (WITH SUBSIDY)

AREA:	0.3 ha (One Site)																(Unit: JD)
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I. GROSS INCOME																	
1) Fruits																	
Olives	-	-	-	-	-	20	27	56	73	105	112	155	179	179	179	179	179
Grapes	-	-	-	138	263	388	438	463	475	500	538	575	588	588	588	588	588
Apricots	-	-	-	-	64	112	144	176	211	247	276	297	306	306	306	306	306
Total	0	0	0	138	327	520	609	695	759	852	926	1,027	1,073	1,073	1,073	1,073	485
II. GROSS OUTGOING																	
A. Depreciation Cost*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost																	
1) Seedlings	154	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers																	
- N	3	5	6	10	13	14	15	16	17	18	18	18	18	18	18	18	8
- P205	2	4	5	7	9	10	11	12	13	14	14	14	14	14	14	14	6
- K20	4	5	6	8	9	10	11	12	13	14	14	14	14	14	14	14	14
3) Plowing	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour																	
- Harvesting	-	24	24	24	24	24	25	31	35	41	45	53	57	57	57	57	32
- Hoeing	7	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	16
5) Materials																	
- Fence*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1
- Bags (40kg)	-	-	-	-	-	0	1	1	2	2	2	3	4	4	4	4	4
- Boxes	-	-	-	6	15	23	27	30	33	36	40	43	44	44	44	44	19
- Water	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	3	7	12	14	17	18	21	23	26	27	27	27	27	15
7) Miscellaneous	33	4	2	3	5	6	7	7	8	9	9	10	10	10	10	10	6
C. Repayment of Interest	-	-	18	21	25	20	15	10	4	1	-	-	-	-	-	-	-
Total	222	74	62	89	121	142	152	162	169	182	191	207	214	214	214	214	121
III. NET INCOME																	
- Annual Income	(222)	(74)	(62)	49	206	378	457	533	590	670	735	820	859	859	859	859	364
- Reserve carried forward	(222)	(296)	(358)	(309)	(103)	275	732	1,265	1,855	2,525	3,260	4,080	4,939	5,798	6,657	7,021	

* Subsidy

Table G.3.17 (1/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	3.4 ha (Site: J1)																(Unit: JD)
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	224	303	632	826	1,187	1,265	1,751	2,023	2,023	2,023	2,023	2,023
Olives	-	-	-	-	2,975	4,392	4,958	5,242	5,383	5,667	6,092	6,517	6,658	6,658	6,658	6,658	6,658
Grapes	-	-	-	1,558	725	1,272	1,627	1,990	2,386	2,802	3,123	3,369	3,467	3,467	3,467	3,467	3,467
Apricots	-	-	-	-	1,155	1,155	-	-	-	-	-	-	-	-	-	-	-
2) Field Crops	-	1,155	1,155	1,155	1,155	1,155	-	-	-	-	-	-	-	-	-	-	-
Total	0	1,155	1,155	2,713	4,855	7,043	6,888	7,864	8,595	9,656	10,480	11,637	12,148	12,148	12,148	12,148	5,490
II. GROSS OUTGOING																	
A. Depreciation Cost*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1) Seedlings	1,741	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- N	33	58	73	109	145	158	169	176	187	198	198	198	198	198	198	198	90
- P2O5	27	41	53	80	99	111	124	135	147	160	160	160	160	160	160	160	65
- K2O	42	57	70	86	100	111	125	137	151	162	162	162	162	162	162	162	162
3) Plowing	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	65	142	246	288	355	397	469	505	596	641	641	641	641	365
- Harvesting	78	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	181
- Hoeing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Fence*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	7	8	9	12	15	15	18	19	20	23	23	23	23	23	23	23	11
- Bags (40kg)	-	-	-	-	-	5	7	14	17	25	26	36	42	42	42	42	42
- Boxes	-	-	-	65	171	264	309	345	375	413	451	485	496	496	496	496	219
- Water	168	168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	32	82	135	160	187	207	238	260	291	307	307	307	307	173
7) Miscellaneous	372	39	24	36	51	66	74	82	89	98	103	111	115	115	115	115	65
8) O&M Cost	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
C. Repayment of Interest	-	-	200	173	143	112	77	40	-	-	-	-	-	-	-	-	-
Total	2,502	887	769	998	1,288	1,563	1,691	1,830	1,930	2,126	2,228	2,402	2,484	2,484	2,484	2,484	1,441
III. NET INCOME																	
- Annual Income	(2,502)	268	386	1,715	3,567	5,480	5,197	6,034	6,665	7,530	8,252	9,235	9,564	9,564	9,564	9,564	4,049
- Reserve carried forward	(2,502)	(2,234)	(1,848)	(133)	3,434	8,914	14,111	20,145	26,810	34,340	42,592	51,827	61,491	71,155	80,819	84,868	84,868

* Subsidy

Table G.3.17 (2/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	2.3 ha (Site: E1)																(Unit: JD)
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I. GROSS INCOME																	
1) Fruits	-	-	-	-	-	152	205	428	559	803	856	1,185	1,369	1,369	1,369	1,369	1,369
Olives	-	-	-	-	-	2,971	3,354	3,546	3,642	3,833	4,121	4,408	4,504	4,504	4,504	4,504	4,504
Grapes	-	-	-	-	491	860	1,101	1,346	1,614	1,895	2,113	2,279	2,345	2,345	2,345	2,345	2,345
Apricots	-	-	-	-	782	782	-	-	-	-	-	-	-	-	-	-	-
2) Field Crops	782	782	782	782	782	782	-	-	-	-	-	-	-	-	-	-	-
Total	0	782	782	782	1,836	4,765	4,660	5,320	5,815	6,531	7,090	7,872	8,218	8,218	8,218	8,218	3,714
II. GROSS OUTGOING																	
A. Depreciation Cost*																	
B. Production Cost																	
1) Seedlings	1,178	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- N	22	39	49	98	107	114	114	119	127	134	134	134	134	134	134	134	61
- P205	18	28	36	67	75	84	84	91	100	108	108	108	108	108	108	108	44
- K20	28	38	48	67	75	84	84	93	102	110	110	110	110	110	110	110	110
3) Plowing	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Harvesting	-	-	-	96	166	195	195	240	268	317	342	403	434	434	434	434	247
- Hoeing	53	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	123
5) Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Fence*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	5	5	6	10	10	12	12	13	14	15	15	15	15	15	15	15	8
- Bags (40kg)	-	-	-	-	3	5	5	9	12	17	18	25	28	28	28	28	28
- Boxes	-	-	-	44	116	179	209	233	254	279	305	328	336	336	336	336	148
- Water	113	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	55	91	108	108	127	140	161	176	197	208	208	208	208	117
7) Miscellaneous	251	26	16	35	45	50	50	55	60	66	70	75	78	78	78	78	44
8) O&M Cost	-	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
C. Repayment of Interest	-	-	135	97	75	52	52	27	-	-	-	-	-	-	-	-	-
Total	1,691	598	520	871	1,056	1,143	1,143	1,237	1,307	1,437	1,508	1,625	1,681	1,681	1,681	1,681	976
III. NET INCOME																	
- Annual Income	(1,691)	184	262	2,415	3,709	3,517	3,517	4,083	4,508	5,094	5,582	6,247	6,537	6,537	6,537	6,537	2,738
- Reserve carried forward	(1,691)	(1,507)	(1,245)	(83)	2,332	6,041	9,558	13,641	18,149	23,243	28,825	35,072	41,609	48,146	54,683	57,421	57,421

* Subsidy

Table G.3.17 (3/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	7.7 ha (Site: D2)																(Unit: JD)
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I. GROSS INCOME																	
1) Fruits																	
Olives	-	-	-	-	-	508	685	1,432	1,871	2,687	2,864	3,966	4,582	4,582	4,582	4,582	4,582
Grapes	-	-	-	3,529	6,738	9,946	11,229	11,871	12,192	12,833	13,796	14,758	15,079	15,079	15,079	15,079	15,079
Apricots	-	-	-	-	1,643	2,880	3,686	4,507	5,403	6,345	7,074	7,631	7,851	7,851	7,851	7,851	7,851
2) Field Crops	-	2,616	2,616	2,616	2,616	2,616	-	-	-	-	-	-	-	-	-	-	-
Total	0	2,616	2,616	6,145	10,997	15,950	15,600	17,810	19,466	21,865	23,734	26,355	27,512	27,512	27,512	27,512	12,433
II. GROSS OUTGOING																	
A. Depreciation Cost*																	
B. Production Cost																	
1) Seedlings	3,942	398	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers																	
- N	74	131	164	246	329	357	382	398	424	449	449	449	449	449	449	449	203
- P205	62	92	121	182	223	252	280	305	334	362	362	362	362	362	362	362	146
- K20	95	128	159	195	226	252	282	311	341	367	367	367	367	367	367	367	367
3) Plowing	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour																	
- Harvesting	-	-	-	146	321	557	652	803	898	1,063	1,145	1,350	1,453	1,453	1,453	1,453	826
- Hoeing	177	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	411
5) Materials																	
- Fence*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	15	18	21	28	33	33	41	44	46	51	51	51	51	51	51	51	26
- Bags (40kg)	-	-	-	-	-	10	15	31	39	56	59	82	95	95	95	95	95
- Boxes	-	-	-	146	388	598	701	780	850	934	1,022	1,099	1,124	1,124	1,124	1,124	495
- Water	380	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	72	185	305	362	424	470	539	588	660	696	696	696	696	393
7) Miscellaneous	842	88	54	82	116	149	167	186	201	222	233	252	261	261	261	261	148
8) O&M Cost	-	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154
C. Repayment of Interest	-	-	453	391	325	253	175	91	-	-	-	-	-	-	-	-	-
Total	5,664	2,005	1,742	2,258	2,916	3,536	3,827	4,143	4,373	4,813	5,046	5,442	5,628	5,628	5,628	5,628	3,264
III. NET INCOME																	
- Annual Income	(5,664)	611	874	3,887	8,081	12,414	11,773	13,667	15,093	17,052	18,688	20,913	21,884	21,884	21,884	21,884	9,169
- Reserve carried forward	(5,664)	(5,053)	(4,179)	(292)	7,789	20,203	31,976	45,643	60,736	77,788	96,476	117,389	139,273	161,157	183,041	192,210	

* Subsidy

Table G.3.17 (4/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA: 20.5 ha (Site: Abyad)	(Unit: JD)															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20
I. GROSS INCOME																
1) Fruits																
- Olives	-	-	-	-	-	1,353	1,825	3,813	4,982	7,155	7,626	10,558	12,198	12,198	12,198	12,198
- Grapes	-	-	-	9,396	17,938	26,479	29,896	31,604	32,458	34,167	36,729	39,292	40,146	40,146	40,146	0
- Apricots	-	-	-	-	4,373	7,667	9,813	11,999	14,384	16,892	18,833	20,316	20,903	20,903	20,903	20,903
2) Field Crops	-	6,966	6,966	6,966	6,966	6,966	-	-	-	-	-	-	-	-	-	-
Total	0	6,966	6,966	16,362	29,277	42,465	41,534	47,416	51,824	58,214	63,188	70,166	73,247	73,247	73,247	33,101
II. GROSS OUTGOING																
A. Depreciation Cost*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Production Cost																
1) Seedlings	10,496	1,059	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers																
- N	198	349	437	656	875	950	1,018	1,059	1,128	1,196	1,196	1,196	1,196	1,196	1,196	540
- P205	164	246	321	485	595	670	745	813	888	964	964	964	964	964	964	390
- K20	253	342	424	519	601	670	752	827	909	977	977	977	977	977	977	977
3) Plowing	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Harvesting	-	-	-	390	854	1,483	1,736	2,139	2,392	2,829	3,048	3,594	3,868	3,868	3,868	2,200
- Hoeing	472	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,640	1,093
5) Materials																
- Fence*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	41	48	55	75	89	89	109	116	123	137	137	137	137	137	137	68
- Bags (40kg)	-	-	-	-	-	27	41	82	103	150	157	219	253	253	253	253
- Boxes	-	-	-	390	1,032	1,592	1,866	2,077	2,262	2,487	2,720	2,925	2,993	2,993	2,993	1,319
- Water	1,011	1,011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	191	492	813	964	1,128	1,251	1,435	1,565	1,756	1,852	1,852	1,852	1,046
7) Miscellaneous	2,241	235	144	217	309	397	444	494	535	591	620	670	694	694	694	394
8) O&M Cost	-	410	410	410	410	410	410	410	410	410	410	410	410	410	410	410
C. Repayment of Interest	-	-	1,206	1,042	864	673	465	242	-	-	-	-	-	-	-	-
Total	15,081	5,340	4,637	6,015	7,761	9,414	10,190	11,027	11,641	12,816	13,434	14,488	14,984	14,984	14,984	8,690
III. NET INCOME																
- Annual Income	(15,081)	1,626	2,329	10,347	21,516	33,051	31,344	36,389	40,183	45,398	49,754	55,678	58,263	58,263	58,263	24,411
- Reserve carried forward	(15,081)	(13,455)	(11,126)	(779)	20,737	53,788	85,132	121,521	161,704	207,102	256,856	312,534	370,797	429,060	487,323	511,734

* Subsidy

Table 6.3.17 (5/5) PROFIT AND LOSS STATEMENT FOR WINTER IRRIGATION (WITH SUBSIDY)

AREA:	33.9 ha (Whole Area)		(Unit: JD)															
	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-20	
I. GROSS INCOME																		
1) Fruits	-	-	-	-	-	-	2,237	3,017	6,305	8,238	11,831	12,611	17,459	20,171	20,171	20,171	20,171	
Olives	-	-	-	-	-	-	2,237	3,017	6,305	8,238	11,831	12,611	17,459	20,171	20,171	20,171	20,171	
Grapes	-	-	-	15,537	29,664	43,788	49,438	52,263	53,675	56,500	60,738	60,738	64,975	66,388	66,388	66,388	66,388	0
Apricots	-	-	-	7,232	12,679	16,227	19,843	23,787	27,934	31,143	33,595	33,595	34,567	34,567	34,567	34,567	34,567	34,567
2) Field Crops	-	11,519	11,519	11,519	11,519	11,519	-	-	-	-	-	-	-	-	-	-	-	
Total	0	11,519	11,519	11,519	27,056	48,415	70,223	68,682	78,411	85,700	96,265	104,492	116,029	121,126	121,126	121,126	121,126	54,738
II. GROSS OUTGOING																		
A. Depreciation Cost*																		
B. Production Cost																		
1) Seedlings	17,357	1,752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) Fertilizers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- N	327	577	723	1,085	1,447	1,572	1,683	1,752	1,866	1,977	1,977	1,977	1,977	1,977	1,977	1,977	1,977	894
- P205	271	407	531	801	984	1,108	1,233	1,344	1,469	1,594	1,594	1,594	1,594	1,594	1,594	1,594	1,594	645
- K20	418	565	701	858	994	1,108	1,243	1,368	1,503	1,616	1,616	1,616	1,616	1,616	1,616	1,616	1,616	1,616
3) Plowing	339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Harvesting	-	-	-	645	1,413	2,452	2,871	3,537	3,955	4,678	5,040	5,040	5,943	6,396	6,396	6,396	6,396	3,638
- Hoeing	780	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	2,712	1,808
5) Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Fence*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Chemicals	68	79	91	123	147	147	180	192	203	226	226	226	226	226	226	226	226	113
- Bags (40kg)	-	-	-	-	45	68	68	136	170	249	260	260	362	418	418	418	418	418
- Boxes	-	-	-	644	1,706	2,633	3,085	3,435	3,740	4,113	4,497	4,497	4,836	4,949	4,949	4,949	4,949	2,181
- Water	1,672	1,672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) Transportation	-	-	-	316	814	1,345	1,593	1,865	2,068	2,373	2,588	2,588	2,904	3,062	3,062	3,062	3,062	1,729
7) Miscellaneous	3,706	388	238	359	511	657	735	817	885	977	1,026	1,026	1,108	1,148	1,148	1,148	1,148	651
8) O&M Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C. Repayment of Interest	-	-	1,994	1,723	1,429	1,113	769	400	-	-	-	-	-	-	-	-	-	-
Total	24,938	8,152	6,990	9,266	12,157	14,892	16,172	17,558	18,571	20,515	21,536	23,278	24,098	24,098	24,098	24,098	24,098	13,693
III. NET INCOME																		
- Annual Income	(24,938)	3,367	4,529	17,790	36,258	55,331	52,510	60,853	67,129	75,750	82,956	92,751	97,028	97,028	97,028	97,028	97,028	41,045
- Reserve carried forward	(24,938)	(21,571)	(17,042)	748	37,006	92,337	144,847	205,700	272,829	348,579	431,535	524,286	621,314	718,342	815,370	856,415	856,415	856,415

* Subsidy

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