TABLES

Table 2.1 NATIONAL SOCIO-ECONOMY

		1982	1983	1984	1985	1986	1987	1988
1. Area *1	(1,000 km2)	89.2	89.2	89.2	89.2	89.2	89.2	89.2
2. Poulation 1) Population *1 2) Growth rate 3) Population density	(Million) (%) (Persons/km2)		2.5 4 28	2.6 4 29		2.8 4 31	2.9 4 33	3.0 4 34
3. Labour Force 1) Jordanian active labour force 2) Distribution by major econom - Agriculture - Mining & manufacturing - Blectricity & water - Construction - Trade - Transport & communication - Finance and insurance serv - Social and public administ 4. Gross Domestic Product (GDP)	e (1,000) ic activity (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	* * * * * * * * * * * * * * * * * * * *	445 100.0 7.4 10.0 0.9 11.9 10.2 8.6 2.9	459 100,06 10.3 11.5 11.5 10.1 9.0 247.3	9.4 3.4	9.4 3.4	509 100.0 7.4 10.5 1.7 10.5 9.8 9.8 9.2 3.3	522 100.0 7.6 10.3 1.8 10.0 10.0 9.0 3.4 48.1
2) GDP at 1985 constant prices 3) Annual change 4) Per capita GDP - Warket pric	(Million \$) (Million JD)	1,749 1,490 1,560	3,910 1.520	3,900 1,540 1.3	1,610 4,080 1,610 4.5 596 1,510	1,640 4,680 1,640 1.9 586 1,670	1,690 1,690 1,690 580 1,7283	* * * * * *
5) GDP by industry (1985 constated of the constant of the construction of the constant of	on usiness services (onal services (x x hold	* * * * * * * * * * * * * * * * * * *	11.5 9.5 11.3 16.3 16.3 93.5	63.46.95 34.69.5 34.69.5 34.69.5 34.69.5 37.95.5 30.64.7 97.384 97.384	2.7	2.7	7.3 3.8 14.6 6.0 16.0 11.2 10.3 3.1 -2.4 1.5 0.3 7.0 99.7 0.340 0.338	* * * * * * * * * * * * * * * * * * *
I) Current account - Merchandise : Exp : Imp (Trade balance) - Services : Exp : Inp - Unrequited transfers : Cre (Current account balance 2) Allocation of SDRs	orts (Million JD) (Million JD) orts (Million JD) orts (Million JD) dit (Million JD) it (Million JD)	* * * * * * * *	211 1,102 -891 893 438 297 -141	291 1,069 -778 967 572 283 -104	311 1,073 -762 911 564 318 31-100	256 848 -592 825 487 241 3 -16	316 913 -597 775 496 206 7	*
3) Capital account - Government investment: Cre : Det - Private investment : Cre : Deb (Capital account balance 1) Overall balance 5) Change in reserves 6) Net errors and omissions	it (Million JD) dit (Million JD) it (Million JD)	* * * * * * * * * * * * * * * * * * *	316 170 14 3 157 16 50 34	286 251 30 65 -39 -69	341 213 10 - 138 38 18 -20	269 225 10 3 51 35 18 -17	270 208 14 -76 -43 -37	* * * * *

Sources: (1) International Financial Statistics, 1989, IMF.
(2) Statistical Yearbook, 1987, Department of Statistics.
(3) Statistical Yearbook, 1988, Department of Statistics.
Remarks: *1 Bast bank area.

(g dunum)	1988	2,116.14	1, 653 653 653 653 653 653 653 653 653 653	660.87	20000000000000000000000000000000000000
(Unit: 1,000	1984	2,106.37	1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	618.10	24 - 24 - 24 - 24 - 24 - 24 - 24 - 24 -
	1988	840.00	181 4 4 8 1 1 8 4 8 8 9 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9	583.50	22 22 22 23 24 24 24 26 26 26 26 26 26 26 26 26 26 26 26 26
	1985	1,574.30	84 811042 821048 8321 8381 8381 8381 8381 8381 8381 838	504.40	128 81 81 100000000000000000000000000000
	1984	805.80	######################################	453.06	123 123 123 123 123 123 123 123 123 123
STED AREA	1983	1,860.50	1,1 4519 4519 4519 3178 8 716 8 716 8 716 9 716	442.63	40 840 880 880 890 890 890 890 890 89
AN - HARVESTED	1982	1,310.10	2232525 2232525 232525 2325 2325 235 23	431.94	40000000000000000000000000000000000000
ON IN JORDAN	1981	1,820.30	1,088.70 162.60 104.30 45.60 20.60 9.50 67.60 19.70	406.00	28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
L PRODUCTION	1980	2,567.91	1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	426.87	81 81 81 84 84 81 84 84 84 84 84 84 84 84 84 84 84 84 84
AGRICULTURAL	1979	1,477,00	841 8011414 6149614 646664 646664 66664 66664	397,19	0 10 10 10 10 10 10 10 10 10 10 10 10 10
/2/	1978	2,278.11	1.0202 	372.37	00000000000000000000000000000000000000
Table 2.2 (1,	1977	2,046.91	1. 1.4.1. 2.0.1.1.2.0.2. 0.1.1.1.2.2.3.4. 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	349.24	80 80 80 80 80 80 80 80 80 80 80 80 80 8
	1976	2,451.26	1, 41, 41, 41, 41, 41, 41, 41, 41, 41, 4	336.24	
	1975	2,172,48	1. 4.2. 0.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1	315.48	00000000000000000000000000000000000000
	1974	2,970.68	1,995 2085 2085 2085 2086 561 1120 1130 1130 1130	290.31	1350 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		FIRLD CROPS	I wheat 2 Barley 3 Lentils 4 Vetch 5 Chick-peas 6 Maize 7 Tobacco 8 Dry Beans 9 Sesame	TREE CROPS	11 Olive 12 Grape 13 Fig 14 Almond 15 Peache 16 Plum and Prune 18 Pomegranate 19 Apple 20 Pear 21 Banana 22 Citrus 23 Guava 24 Quince 25 Cheries 26 Others

Remark: * Hegligible small. Source: Annual Agricultural Statistics, Department of Statistics.

6														
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1 987	8886
YEGETABLES 344.8	370.5	365.4	330.1	381.9	330.3	401.8	429.1	481.3	511.5	511.6	493.0	362.0	338,30	313,70
7	133.70	110.20	110.90	137.30	132.10	136.60	142.60	156.50	53.00	155.70	137.10	11.80	78.20	74.10
29 Establisher 38.40	35.10	28.30	29.10	26.70		34.20	, ee e	25.00	56.10	28.10 28.10	27.79	23.5	16.10	10,10
		- Kr 4		9	000	900	200	200	200	12.60	200.	15.60	21.40	25,10
3 Caulillower		200	200	5.60	6.40	5.60	18,70	21,10	26,10	19.70	16.70	13.80	13,90	14.50
34 Pepper 35 Broad Bean		& & & &	6 6 6 6	7.20	18.50	3,10	r.	~ .	25.6	2. 		— ∞ ~ ~	17.3	3,60
String Beans			00			11.50		200		10.		20°.	200	200.5
A Peas		- C	09,69	7.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	. O	11.00	11.00	9,00	12.10	10.90	13,70	200	1 6 2 4 0	13,00
9 Lettuce		**	**	**	**	**	5.10	5.30	7 70	10.10	10.00	11.50	90.90	5,50
40 Sweet Melon 15,10	12.20	11.80	11.50	12.70	10.10	9 10	18.2	15.2	23.7	26.3	35.2	15,6	28.10	53.30
Spinach	> ** * *	2 ** * - -) **) ;	0 ++	> ** •))) - -		1.3	2.2	2,2	2.7	0.50	
43 Onions 11.20	10.90	9 50	50.3	13.00	7.10	2.5	11.10	15.10	1.50	11.30	22.00	17.70	12.50	32.80
Radish cocumber		07·11	> *	0 *** 0 * 0 *	≥ *) ** 	A **) ** * * * * * * * * * * * * * * * * * *	3 ## 3 ##	0.1	1,8	> ** 	> ** •	> +4 > > 1
46 Carrots 0.58	0.50	0.30	0,31	0.15	0.36	17.0	0.40	0.50	0.10	0.50	0,0	0.30	0,40	0,30
Garlic		0.61	0.26	0.48	0.26	0,17	0.50	0.40	00	1.60	1.10	1.90	2.20	3.90
Kulukhiyeh		2	* ;	2.56	80 T	5.94	7.90	11.00	0 8 8	8.00	7.20	300	11.00	06.0
		0 6	16.50	32.00	15,30	32.10	3.00	4,19	12,10	13.30	16.20	٠. تا	1.50	11,00
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ;	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1	1	1	1 1 1 1

TOTAL 3,605.83 2,858.42 3,132.92 2,726.28 3,032.40 2,204.50 3,396.55 2,655.40 2,223.34 2,874.63 1,770.46 2,571.70 1,785.50 3,062.77 3,150.71 Remark: * Negligible small. Source: Annual Agricultural Statistics, Department of Statistics.

Unit: 1,000t)	1988	10000000000000000000000000000000000000	60 80 80 80 80 80 80 80 80 80 80 80 80 80
(Onit:	1987	11. 4.4. 4.4. 6	4.0 4.0 4.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6
	1986	11-21-00-00-00-00-00-00-00-00-00-00-00-00-00	24.2 22.4 24.4 24.4 26.6 26.6 26.6 26.6
	1985	884 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	208 208 208 208 208 208 208 208 208 208
	1984	84	8.14 8.14 8.14 8.14 8.14 8.14 8.14 8.14
CTION	1983	356 356 356 356 356 366 366 366 366 366	226 87-21-4-2004-000 100-100-1000 100-1000-100 100-1000-100
IAN - PRODUCTION	1982	000000400 000000400 000000400**	2.2002.400.000.000.0000.0000.0000.0000.
ON IN JORDAN	1981	202 202 202 202 202 202 202 202 203 203	00000000000000000000000000000000000000
il producti	1980		2440440404040 0 0 0 0 0 0 0 0 0 0 0 0 0
AGRICULTURAL PRODUCTION	1979	81 84.00.00 84.00.00 84.00.00 84.00.00	00000000000000000000000000000000000000
(1/2)	1978	& & & & & & & & & & & & & & & & & & &	ua
Table 2.3	1977	811 485 696 696 696 696 696 696 696 69	66666666666666666666666666666666666666
	1976	800000000 800000000 400000004 4000000000	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	1975	1100 1100 1100 1100 1100 1100 1100 110	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	1974	2501 2501 2501 2501 1201 1201 1801 1801 1801 1801	114540001440004 0 1 01454800014614 0 0 01454800016614 0 0
		PIBLD CROPS 1 Wheat 2 Barley 3 Lentils 4 Vetch 5 Chick Peas 6 Maize 7 Tobacco 8 Dry Beans 9 Sesame 10 Others	11 Olive 13 Fig 14 Almond 15 Peache 15 Peache 16 Plua and Prune 17 Apricot 18 Pomegranate 19 Apple 22 Cirus 23 Guava 24 Guince 25 Cheries 26 Others

Source: Annual Agricultural Statistics, Department of Statistics. Remark: # Negligible small.

		:			:	:		;	:	:						*****
		1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	00.00													 	t t t t t	
	VKGKTABLKS															
	27 Tomatoes	184,90	151.80	145.30	155.70		195.40	206.20	~	375.40	408.20	354.60	192,10	305.90	258.40	290
	28 Squash	رت.		00	18.07		27.53	24.96	9	73.80	83.10	78.70	69.50	51.90	47.50	دى س
	29 Eggplant	متء	∞	ټ و			ص. ح.ز		ء تب	110.00	93.90	73.70	76.30	80,00		~~ c
* %	30 Cucumber 31 Dotatos), 2, 2, 2, 2, 2, 2, 2, 2, 4,	0	×, ×,	2. 5. 5.		4. 4. c.	<u>-</u> -∝	~ <u>-</u>	×	168.20 95.30	98. 98. 98.	07.12	32,70	0.011	25
,	37 Cabbaga	-	3 LC	200	13.50		35.	25.35		20.60	31.50	2.50 2.50 3.00 3.00	070	200	20.00	ئ ئ
	33 Cauliflower		400	. 0	15.60		15.30	15.50	٠	44.60	57,30	1.30	35.	36.50	31.10	- 673
	34 Pepper	ς.	2	 90	800.5		10.82	12.32	€~3	15.50	32.50	27.80	27.50	26.80	30.80	83
	35 Broad Bean	ď.	æ,		න න		13.93	7.31	0	6.80	11.30	7.70	5.40	9.30	11.50	ر
	36 String Beans			- ت	 0		~3 =	చార చార	~3 <	11.70	12.10	15.90	17.50	19.90	10.50	~
	30 Feas	~ 6°	70	9.18 0.08	35	5.0		2 2 2 3	V.	200) - - -	0.40 0.40	2°.	04.	36.7	- - -
-A	39 Lettuce	3 34 3 -	-	2	> +4 > -		- 44 -	* ** > *	. C	000	20:10	26.20		28.5	19.70	- 67
	40 Sweet Melon	14.7	6,50	5.08	8	5.15	12.38	□	۵.	13.10	34.10	34.70	51.60	27.10	47.70	
<u>,</u>	fl Water Melon		20.2		36.23	-	ლ. ლ.	54°23	~ − <	25, 20	73.70	46.50	65.00	60,70	0.5	100.70
_	43 Onions	& 	7.25	5.29	7.70	•	4.30	-3	> =	30.20	24.60	30.	13.70	21.40	8.10	
	44 Snake Cucumber	5.95	5.61	4.40	.53.	دى وي	1,03	 8.	ယ္မ	2,40	6.20	6.9	000	2.80	1.20	<u></u>
	45 Kadish 46 Carrots	* e-	1.02	* 6-5-5 	* 9°°°	1.26	.5.	, <u>, , , , , , , , , , , , , , , , , , </u>	0.4.0	0.00		0.0	200			G
	4 Beans	+4	1 24	**	***) 14 1		***		0.30	0.30	06.0	0,40	0.20	0:30	<u>.</u>
	48 Garlic	1.28	1,13	ထ	0.21	-	0.19	0.12	~1	-	٠.	1.20	0.10	1.00	-	~
	49 Kulukhiyeh	•	5.98	9.13	1	5.28	13.44	9.04	က	-	-	20.00	18.00	15.20	Φ.	23
	50 Others	20.68	18.46	œ.	18.56	-	6.23	100	حت	-	o.	12.90	15.60	12.20	<u>. </u>	14.6
		1	1	1		:	1			1			:		:	
	Remark * Megligible	le small.	So	ource: Ann	Annual Agricultura		Statistics, D	Department	of Sta	tistics.				1 1 1 1 1 1 1		
	_		•				_									

Table 2.4 (1/2) AGRICULTURAL PRODUCTION BY GOVERNORATE (1988)

	Total	100.0	100.00 100.00 100.00 100.00 100.00	100.0		100.0		100 A
, , , , ,	l-Ghouar	دى 	40 00 404 00 10 10 10 10 10 10 10 10 10 10 10 10 1	13.3	0 40 0 0 44 0 0 44 0 0 0 44 0 0 0 0 0 0	68.7	<pre></pre>	1 1
} } } 4 4 8	Ka'an Al	7.1	00000 000 0000000000000000000000000000	3.0		1,9	20010 0 0 1040 	K &
	afila	4.0	405-10111 440-4	1.5		0.3	-	0 6
ribution (%	Karak T	11.8	20000000000000000000000000000000000000	3,5	98000000000000000000000000000000000000	0.1	H400 00 H 0000	2 2
Distrib	Balqa	 8.	21.02.12	7.6	802-180780-60 608-100866	3,4		
# # # # # # # # # # # # # # # # # # #	Kafraq	22.4	000 600044-0 600000000000000000000000000	8,1		6.9	941-0444600000000000000000000000000000000	18 0
! ! ! !	Irbit	14.8	— 6664 6 2000000000000000000000000000000000000	ران در	00000000000000000000000000000000000000	**		91 n
1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Zarqa	2'2	~*ooce. druide did	7.5	25	2.5	110416400 00044 000004406661 1 1000000	2
# 	Amean	31.9	ವಿಷದ್ವಗಣದ ಬ ಕವಗುವಹಣ ಣ ಬಹುಬಗಲಟ್ಟು	12.2	362 282 117 0 860 580 117 0 6 8 7 4 7 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	& 	<u> </u>	0 76
1 1 1 1 1 1 1 1	r Total	1,371.02		540.90	266229535 25629535 25629535 2563375 2563375 2	279.56	00000000000000000000000000000000000000	87 101 6
; ; ; ; ; ;	Al-Ghouar	50.66	20 62000418 7.0000411 7.00000111	71.83	54 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	192,05	#	311 54
 	Ka an	97.01	25.000 80 25.000 80 488888 1150	15.98		5,31	1000- 0 0 00-0 400-4 0 0 0 00-0 8004-8 1 1 1 4 1 0 0 0 4	118.30
num)	Tafila	55,16	000 0	8.21	**************************************	0.47	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	f3.90
(1,000 dun	Karak	161.86	an anaud	18.88		1.94	0000 00 0000 00 00 00 00	182.68
Årea	Balqa	24.35	400000 0 400000 0 6000000000000000000000	41.33		6,66	00040 000000 0 0 000000 0 0 00400 400000 0 0	72.34
Harvested	Kafraq	306.91	163 170 1 24 0 0 0 0 0 0 0 0 0 0 0 0 0	44.00	0-0000000 0-0000000 0-0000000000000000	19,15	00000000000000000000000000000000000000	370.06
1	Irbit	202.77	3, 250 3, 250 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3	234.14	200 200 200 200 200 200 200 200 200 200	23.58		460.49
; ; ;	Zarqa	34.76	28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40.63	84000000000000000000000000000000000000	7.12	9999994999 99949 8444444499 99949	82.57
, , , ,	- US	437.54	2000	65.78	61140-180008 61140-180008 610000-1868 6800-688	23.28		526.60
• * * * * * * * * * * * * * * * * * * *		FIRLD CROPS *	1 Wheat 2 Barley 3 Lentils 4 Vetch 5 Chick-peas 6 Maize 7 Clover, Alfalfa	TREE CROPS	9 Olives 10 Grapes 11 Figs 12 Apples 13 Almonds 14 Peaches 15 Apricats 16 Citrus 16 Citrus 17 Pomegranates	VEGETABLES	19 Towatoes 20 Squash 21 Eagplants 22 Cucumber 23 Potatoes 24 Cabbages 25 Cauliflowers 26 Hot Pepper 27 String Beans 28 Okra 30 Okra 31 Sweet Welons 33 Water Welons 34 Others	TOTAL

Table 2.4 (2/2) AGRICULTURAL PRODUCTION BY GOVERNORATE (1988)

\$ \$ 1 # 1	Amman Zarga Irbit Mafraq	CROPS 38.88 2.31 26.08 22.2	Mbeat Barley 17.46 0.45 16.44 12.00 Barley 16.78 1.49 2.33 9.99 Lentils 1.67 - 4.53 0.10 Vetch 0.16 0.05 1.30 0.01 Chick-peas 0.66 0.12 0.53 0.06 Maize 0.28 0.01 0.29 0.03 0.02 Others 1.87 0.01 0.66 0.02	CROPS 14.30 5.56 63.63 6.3	Olives Grapes Grapes Grapes Figs Figs Figs O.12 Figs O.14 Figs O.15 Figs O.1	EGETABLES 49.38 13.02 30.63 53.5	Tonatoes 2.65 0.93 1.84 23.28 Squash 5.98 0.42 0.42 0.31 0.93 0.42 0.42 0.31 0.93 0.42 0.42 0.43 0.42 0.43 0.42 0.43 0.42 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43	
Crop Production	g Balga	3 2.86	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 7.56	22 22 22 24 31 31 31 31 31 31 31 31 31 31 31 31 31	50 25.08	######################################	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(1,000	Karak Ta	19.76	0.0000000000000000000000000000000000000	3.06	83.48865266 0000000000000000000000000000000000	4.11	0.000 0 0.000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	fila	3.95 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,45	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.06 1	0.05 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	a'an Al-Chou	2.59 13.9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.55 138.3	34000000000000000000000000000000000000	2.02 475.5	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
, , , , , , , , , , , , , , , , , , ,	ar Total	9 152,65	10411164	1 244.73	0 - 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 664.38		111111111111
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: : : : : : : : : : : : : : : : : : : :	Zarqa	1.5	an 44040	2.3	**************************************	2.0	01000000 400000000000000000000000000000	1 1 1 1 1
;	Irbit K	17.1	1 2000 N	26.0	5.000 - 10.00	9	011411000000001001	1 1 1
0	afraq	14.6	20000000000000000000000000000000000000	2.6	ಹಚಾದರ್ಭಗಳು ಇರ ಎರ್.ಸಹಹಗಳು (ಹಸ	8.1	00000044110000000000000000000000000000	1 1 1 1
stribut	Balqa K	1.9	0 1.00	3.1		3.8	04000 401041 H 0 040101 100000 1010	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
bution (x)	arak Taf	12.9	277.04.05 00 0 8.4.6.4.6.4.4.4.	1.3		9.0	0000 00 0 0 0 00000 00 0 0 0	1 1 1 1 1 1 1
; ; ; ;	ils Ka	2.6 14	1.7.1.1	9.0		2.0	m	1 1 1 1 1 1 1
; ; ; ;	an Al-Gh	.8 9.	00 0 00 00 00 00 00 00 00 00 00 00 00 0	. 9 56.	0000140 0000140 001000140 00100140	1.8 71.	8-909-421118 1-86-1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Ghouar Tota	.2 100	100000000000000000000000000000000000000	. 1	42 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	5 100	2388662483482224	1 4 4

Table 2.5 LIVESTOCK PRODUCTION IN JORDAN (1977-1988)

1988	21 - 60 - 10 - 10 - 10 - 10 - 10 - 10 - 1	5,050 11.64 282,3	8,339 231 1,001 1,914 5,193	56,423 33,026 12,678 20,719	380
1987	22 4601155 121010	3,635.0 1,56 12,56 88.5 281.1	7,964 1,0653 5,028	61,535 30,703 11,024 19,808	84.3 425
1986	0.000.000.000.000.000.000.000.000.000.	25. 1.50 1.50 2.9.0 2.9.0	6, 55 1, 000 3, 500 3, 500 1,	51,720 25,880 10,960 14,880	78.0
1985	22000000000000000000000000000000000000	3,856.0 1,00 253,3 251,5	10,907 1,278 2,778 6,356	25,630 12,915 17,920	69.0
1984	34 120.0 100.0 100.0 100.0	3,000.0 112.3 295.4	9, 1225 1122 9 1125 9 1125 9	49,956 26,526 9,870 13,560	63.0 390
1983	30 *** *****************************	3,058,0 1,00 6,4 51,0	10,190 2,078 2,300 5,557	45,550 18,785 11,085 15,680	49.0
1982	27 27 4 4 4 6 5 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,322.0 1.00 19.5 190.7 314.0	8 11 2 11 11 11 11 11 11 11 11 11 11 11 1	47,178 18,090 13,608 15,480	40.0
1981	28 (20.0) (515.0) (515.0) 1,073.3	1,721.0 2,00 111.6 173.5	8,545 2,025 4,025 6,025	41,970 16,112 11,458 14,400	32.0
1980	(22 28 45 45 45 45 45 45 45 45 45 45 45 45 45	365.3 2.10 2.40 84.0	8,114 1,555 1,988 3,825	45,968 21,256 11,112 13,600	33.0
1979	22 22 22 24 24 30 30 30 30 30 30 30 30 30 30 30 30 30	465.1 11.90 195.2 195.3	1,106 1,550 3,550 3,550	38,708 17,407 12,159	32,0 280
1978	(38681.00 (38681	16.50 2179.55	2, 111 3, 55 3, 8 8, 65 5, 8 8, 65 5, 8 8, 65 5, 8	21,179 21,179 9,176 13,704	23.7
6661	(1) Number of Livestock - Poultry (1,000 heads) # - Camels	(2) Slaughtered Livestock - Poultry (1,000 heads) - Camels 1.20 - Cows 21.5 - Goats 220.2 - Sheep 188.4	(3) Livestock Production 1) Red Heat Production # - Camels (tons) # - Cows	2) Wilk Production # - Cows (tons) # - Goats # - Sheep	<pre>3) Broiler (1,000 tons) * 4) Eggs (million eggs) *</pre>

Source: Statistical Tearbook 1988, Department of Statistics.

Table 2.6 AGRICULTURAL TRADE (1983-1988)

(Unit: JD 1.000)

						(Unit:	JD 1,000)
	1983	1984	1985	1986	1987	1988	Aveage
BXPORTS		~~~					
Agricultural Commodity *1	37,459	15,960	19,678	21,594	14,263	14,355	20,552
1) Live Animals	6,855	3,727	3,663	3,493	2,750	560	3,508
2) Daily Products & Bggs	2,580	1,455	3,314	1,841	4,475	5,862	3,255
3) Wheat and Flour of Wheat	79	1,622	5,100	1,564	3,213	832	2,068
4) Vegetables - Tomatoes - Bggplant - Squash - Cucumber - Cauliflower - Others	17,614 (6,002) (1,229) (1,557) (2,9617) (5,038)	18,565 (6,214) (1,672) (1,254) (3,081) (798) (5,546)	16,628 (5,332 11,509 (1,227 (3,017 (4,895)	13,377 (4,422) (1,220) (930) (2,062) (501) (4,242)	14,765 (4,767) (1,089) (2,600) (5,071)	15,168 (5,614) (1,119) (624) (2,051) (468) (5,292)	16,020 (5,392) (1,306) (1,055) (2,629) (624) (5,014)
5) Fruits and Nuts Orange Kandarin Lemons Water Melon Sweet Melon Others	7,604 (3,749) (2865) (139) (1,835)	8,359 (4,099) (957) (306) (798) (1,282)	7,458 (3,405) (1,213) (1,204) (337) (708) (591)	8,475 (5,290) (1,157) (873) (336) (441) (378)	5,246 (2,539) (7777) (764) (624) (142)	4,400 * (586) (533)	6,924
6) Fodder	101	6,962	6,58?	12,407	1,721	1,408	4,864
7) Others	1,444	1,071	838	775	1,667	1,780	1,263
8) Animal & Vegetable Oil - Olive Oil - Others	(1,182 (1,002) (180)	1 123 (913) (210)	176 (94) (82)	(1,514 (1,373) (141)	437 (196) (241)	632 (365) (267)	844 (657) (187)
Total Export of Jordan % of Agricultural Commodity	160,085 23.4	261,055 6.1	255,346 7.7	225,615 9.8	248,773 5.1	324,788 4.4	245,944 8.4
IMPORTS							
Agricultural Commodity #1	184,471	194,796	185,936	174,985	163,737	183,772	181,283
1) Live Animals	21,557	5,892	8,599	2,923	3,627	4,334	7,822
2) Heat	24,576	23,032	33,225	24,324	27,020	28,654	26,805
3) Daily Products & Bggs	15,458	16,756	17,866	17,012	15,798	16,728	16,603
4) Wheat and Flour of Wheat	32,840	39,165	28,185	15,822	28,710	25,417	28,357
5) Rice	4,419	8,247	7,301	9,772	7,256	10,570	7,928
6 Sugar	6,509	5,151	3,640	8,696	9,307	8,251	6,926
7) Fruits, Vegetables and Nuts - Apples - Potatoes - Onion - Apricot	(8,452) (2,020) (1,600) (436)	27,786 (5,284) (2,048) (1,450) {161}	25,361 (7,177) (1,543) (456)	25,367 (4,940) (1,646) (1,592) (328)	16,506 * (606) (445)	17,410 (1,461) (546)	24,117
- Almonds - Chick-pea - Others	(399) (1,762) (17,605)	(618) (1,597) (16,628)	$\begin{pmatrix} 301 \\ 2,123 \\ 12,869 \end{pmatrix}$	(283) (1,696) (14,882)	(2,444) *	(987) *	. •
8) Coffee, Tea, Cocoa & Spices	5639	6785	6033	6240	6100	7700	6,416
9) Animal & Vegetable Oil	4,105	10,479	10,152	9,417	8,018	10,863	8,839
10) Others	37,094	51,503	45,574	55,412	41,395	53,845	47,471
Total Import of Jordan % of Agricultural Commodity	1,103,310 16.7	1,071,340	1,074,445	850,199 20.6	915,545 17.9	1,022,469	1,006,218 18.0

Remarks: *1 Excluding tobacco.
Source: Statistical Yearbook 1987 & 1988, Department of Statistics.

Table 2.7 EXPORTS AND IMPORTS BY AGRICULTURAL COMMODITY (1982-1988)

(Unit: 1,000 tons) 1982 1983 1984 1985 1986 1987 1988 EXPORTS IMPORTS

Source: (1) Annual Agricultural Statistics 1988, Department of Statistics.
(2) Agricultural Statistics Indicators 1981-1988, Ministry of Agriculture.

Table 2.8 PER CAPITA CONSUMPTION OF AGRICULTURAL PRODUCTS

(Unit: kg/year)

													(nute: KB	/year;
		1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	Average*1	Trend
1	Wheat (grain)	164	153	202	212	171	184	176	145	108	216	190	156	<u>+</u>
2	Barley (grain)	20	24	35	13	32	21	72	36	58	55	51	50	+
3	Lentils	4.3	1.0	5.3	1.8	1.3	4.1	0.7	1.7	1.3	3.2	3.4	2.1	•
4	Vetch	1.9	0.6	1.6	1.4	1.0	2.0	0.5	0.9	0.6	1.3	2.2	0.9	-
5	Chick-pea	1.8	4.0	3.4	3.4	3.3	4.5	3.5	4.3	3.9	6.6	3.2	4.9	ŧ
6	Maise	47	59	50	59	63	68	51	77	84	63	‡	75	÷
7	Rice (husked)	12	16	21	16	19	14	21	19	26	25	*	23	+
8	Grape	22.4	17.2	19.6	19.7	19.3	20.9	16.7	20.9	22.2	21.1	25.7	21.4	<u>+</u>
9	Fig	1.4	1.0	0.9	0.9	0.9	0.8	0.8	0.9	1.0	1.0	1.1	1.0	-
10	Almonds	1.4	1.5	1.3	1.2	1.1	1.1	1.2	0.9	0.8	0.9	*	0.9	<u>+</u>
11	Peache	0.2	0.6	0.5	0.7	2.3	1.7	1.1	1.1	1.5	0.3	1.4	1.0	<u>†</u>
12	Plum and Prune	1.7	0.9	1.3	2.0	2.6	1.1	1.4	1.5	1.6	0.5	1.4	1.2	•
13	Apricot	0.7	0.7	0.6	0.7	1.0	1.0	0.4	0.9	0.3	0.2	0.4	0.5	<u> </u>
14	Pomegranate	1.5	0.9	0.9	0.4	0.5	0.5	0.3	0.5	0.5	0.4	1.4	0.4	-
15	Apple	7.6	11.5	10.1	13.1	18.5	20.3	13.1	20.7	12.3	6.8	4.5	13.3	<u>+</u>
16	Pear	0.4	0.9	0.7	0.4	1.1	1.3	1.0	1.5	0.9	0.1	0.4	0.8	<u>+</u>
17	Banana	8.7	7.6	8.0	6.7	7.2	9.1	9.8	14.2	12.7	17.0	12.3	14.6	ŧ
18	Citrus	38.5	59.1	34.?	39.5	35.6	46.5	37.0	40.7	36.0	43.7	45.4	40.1	-
19	Quince	0.03	0.03	0.02	0.01	0.02	0.02	0.03	0.02	0.01	0.04	0.03	0.02	<u>+</u>
20	Tomatoes	61.0	51.1	47.0	95.5	99.3	117.8	95.3	113.7	81.4	61.8	58.5	85.5	<u>†</u>
21	Squash	3.3	4.4	2.0	2.3	14.0	20.3	21.3	17.0	12.2	11.5	6.2	13.8	ŧ
22	Bggplant	16.2	20.8	25.6	30.5	33.1	27.6	15.5	17.8	19.7	9.1	3.0	15.5	<u>+</u>
23	Cucumber	6.2	17.1	18.9	28.5	14.6	19.9	16.0	24.7	19.0	23.3	11.9	22.3	ŧ
24	Potatoes	11.8	8.5	12.3	21.2	15.5	21.7	19.4	15.4	19.4	16.3	16.3	17.0	<u> †</u>
25	Cabbage	2.5	6.9	5.2	3.4	5.2	9.0	17.4	7.6	7.6	4.7	2.2	6.6	<u>+</u>
26	Cauliflower	3.8	4.9	2.3	10.1	12.9	16.3	10.2	8.6	9.6	7.6	8.4	8.6	+ + + + + +
27	Sweet Pepper	0.9	1.3	2.6	1.2	1.3	6.2	3.2	3.2	2.8	3.6	1.9	3.2	<u>+</u>
28	Okra	0.8	0.4	1.2	1.0	0.5	0.9	0.5	0.6	1.3	1.1	1.0	1.0	<u>†</u>
29	Lettuce	4.6	3.0	1.7	4.2	3.9	8.1	10.1	6.9	9.5	6.8	4.2	7.7	<u> </u>
30	Water Kelon	15.0	4.6	15.7	17.2	19.7	42.1	31.5	37.3	28.1	35.4	32.3	33.6	±
31	Onion	7.1	7.0	5.6	10.4	15.9	16.5	9.7	8.5	14.0	9.0	16.8	10.5	+
32	Snake Cucumber	1.6	0.5	3.5	2.9	2.3	2.5	2.3	1.4	1.0	1.5	2.5	1.3	<u>+</u>
33	Carrot	0.2	1.0	1.1	0.9	1.7	1.3	1.6	1.8	2.3	0.8	0.4	1.6	<u>+</u> <u>+</u>
34	Sweet Helon	2.0	6.3	3.6	5.7	4.8	10.8	10.9	17.0	6.8	13.1	15.4	12.3	<u> †</u>
35		0.3	0.2	0.7	2.0	1.6	3.2	3.2	2.9	1.9	1.1	0.4	2.0	ŧ
36	Kulukhiyeh	2.6	6.3	4.5	10.2	12.0	9.4	7.7	6.7	5.4	10.0	9.0	7.4	ŧ
37	Garlic	0.6	0.5	0.7	0.6	0.7	1.2	1.2	0.9	0.9	0.6	0.8	0.8	<u>+</u>
	Olive	*	*	*	11.0	35.0	11.5	22.4	13.4	32.9	12.4	‡	19.6	<u>+</u>
39	Red Heat	10.8	10.6	9.6	16.7	16.1	13.4	13.0	25.1	16.5	16.7	‡	19.4	÷
40	Broiler	13.3	15.8	17.1	14.3	15.7	19.6	22.1	21.4	23.9	22.5	*	22.6	+
41	Rggs (No.)	130	177	141	122	130	133	137	144	153	114	‡	137	ŧ

Remark: #1 Average between 1985 and 1987

Table 3.1 ADMINISTRATION CONDERNED AND POPULATION IN THE STUDY AREA

C.J.		Ac	tual	Proj	ected
Sub- Region Region Unit	No. of Village	1979	1980	1985	1990
1. AMMAN	46	11,569	12,177	13,745	15,001
1.1 Madaba	46	11,569	12,177	13,745	15,001
(1) Aljeezeh (2) Ummleih	115	$\frac{1}{3},046$	$\frac{1,434}{3.531}$	$\frac{1,584}{3.899}$	$\frac{1}{4},750$
(1) Aljeezeh (2) Ummleih (3) Jmail (4) Dhiban	14 16	3,462 2,372 4,689	1,434 3,531 2,419 4,793	1,584 3,899 2,912 5,350	4,035 3,244 5,972
(1) Dillouit	10	1,000	1,100	0,000	0,012
2. KARAK	112	81,030	83,162	96,310	109,280
2.1 Karak	39	30,853	31,706	37,838	43,218
(1) Karak (2) Abdalia	19 10 10	22,793	23,451 5,158	27,046 6,306	31,102
(3) Zahoum	10	5,035 3,025	3,097	4,486	7,073 5,043
2.2 Al-qaser	22	15,909	16,291	18,439	20,652
(1) Al-qaser (2) Faqu'a	9 7	7,268 5,587	7,442 5,721	8,378 6,542	9,378 7,331
(3) Jad'a	6	3,054	3,128	3,519	3,943
2.3 Mazal Janobi	42	22,729	23,350	26,729	30,503
(1) M. Janobi (2) Taybeh	7 12	9,140 3,488	9,435	11,062 4,021	12,950 4,504
(3) Hosaynia	$\begin{array}{c} 1\dot{2}\\ 23 \end{array}$	10,101	10,345	11,646	13,049
2.4 (Ayy (1) Ayy	6	9,159	9,378	10,560	11,832
2.5 Qatraneh					
(1) Qatraneh	3	2,380	2,437	2,744	3,075
3. TAFILA	36	31,921	32,770	37,371	42,508
3.1Tafila		,	,,,,	,	,
(1) Tafila				28,955	
3.2Bosarah (1) Bosarah	10	7,299	7,475	8,416	9,430
Total Study Area	194	124,520	128,109	147,426	166,789

Source: National Village Survey 1984.

Table 3.2 REGION'S PRESENT POSITION IN JORDAN

			Figur	e	Chara of
	Aspects	Unit	Whole Country	Study Area	Share of Study Area (%)
	Land Area and Population 1) Land area 2) Population 3) Population density 4) Annual growth rate 5) Urban pop. ratio *2	(km2) (1,000) (P/km2) (%)	89,200 *1 2,700 30 4.0 70	8,100 143 18 2.8 24	9.1
3.	Employment 1) Agriculture sector 2) Mining & manuf'g sect 3) Other productive sect 4) Services sector 5) Public services sector (Total)	(1,000) tor tor	39.2 53.1 60.8 114.6 234.7 (502.4)	4.8 3.4 2.9 3.3 14.4 (28.8)	12.2 6.4 4.8 2.9 6.1 (5.7)
4.	GDP/GRDP 1) GDP/GRDP by industry - Agriculture sector - Mining & manuf'g se - Other productive se - Services sector - Public services sec (Total) 2) Per capita GDP/GRDP (Excluding mining sector) 3) Per capita household (1980)	(Million ector ector ctor (JD) sector cor	JD) 114.5 291.2 151.8 622.0 426.4 (1,605.9) 595 atribution)	9.3 47.2 5.6 15.0 21.1 (98.2) 687 381	8.1 16.2 3.7 2.4 4.9 (6.1)
5.	Total Planned Investment	t 1986-199	90 2 706	227	Я Л
6.	1) School enrollment rat 2) Hospital beds	tio (%)	30 n.a.	30 190	
	3) Number of physician per 10,000 4) Electrification ratio 5) Electric power consumption	0 (%)	$\begin{smallmatrix}11.3\\90.8\end{smallmatrix}$	$\begin{smallmatrix}5.6\\87.1\end{smallmatrix}$	-
				175 *	4 8.1
7.	Water 1) Munincipal water supp 2) Industrial water supp 3) Irrigation water supp	(MCM/yr) ply ply ply ply	68 41 409	3.5 10.1 11.0	$\begin{smallmatrix}5&1\\2&4&6\\2&7\end{smallmatrix}$
8.	Agriculture 1) Arable land 2) Irrigated land 3) Farm household 4) Wheat production 5) Yield of cereal 6) Number of sheep 7) Number of goats	(1,000ha) (1,000ha) (1,000t) (1,000t) (t/ha) (1,000)	684 *5 57 58 163 *6 1.1 *6 283 *6 56.7 *6	125 3.2 11.7 * 10.9 * 19.7 * 13.7 *	7 7.0

Note: Basic data year 1985 *1 Land area of the East Bank.

*2 Population ratio who live in urban with more than
5,000 persons.

*3 Old Karak governorate.

*4 Karak, Tafila and Shaubak areas.

*5 Normally used for agriculture.

*6 1988 *7 Karak and Tafila (1988)

Source: (1) The Study on Integrated Regional Development Master
Plan for the Karak-Tafila Development
Region, 1988, JICA.

(2) Statistical Yearbook 1988, Department of Statistics.

Table 3.3 Potential Area Distribution of Dhiban

otal		2,575 1,637 938 667	2,850 2,476 375 216	5,500 1,890 3,613 1,384	5,350 2,621 2,733 2,230	6,275 8,624 7,659 4,497
Unit: ha	>001	25 6 19		255 261 191 171		50 12 12 38 1
30 < (U	50-100			200 200 200 180		200 200 200 180
	0-50 5	175 6 169 42	175 31 144 36	1,175	375 25 350 185	1,900 106 1,794 611
	100<	375 119 256 231	225 131 94 84	4 5 0 1 6 3 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	275 50 225 203	1,325 463 863 777
2 - 30	50-100			975 75 900 810		975 75 900 810
	0-50	125 19 106 27	051 33 98	1,300 188 1,112	875 238 638 492	2,350 458 1,894 1,363
	100<	550 325 225 203	325 269 56 51	2,125 919 1,206 1,086	625 375 250 225	3,625 1,888 1,737 1,565
8 - 12	50-100			325 219 106 96		325 219 106 96
	0-50	100 75 25 23	0.5 4 4 4 6 4	2,025 581 1,444 1,267	225 138 88 79	2,400 838 1,563 1,371
	100<	925 806 119 107	1,575 1,544 31 28	5,750 3,294 2,456 2,211	1,625 1,094 531 478	9,875 6,738 3,137 2,824
4 - 8	50-100			50 31 19		50 31 19
***************************************	0-50	25 6 19 17		2,625 1,188 1,438 1,294	100 63 38 17	2,750 1,257 1,495 1,328
	100<	275 275 0	44 63 44 60	7,525 4,613 2,913 2,621	1,250 638 613 551	9,500 5,970 3,532 3,178
0 - 4)-1(25 25 0		25 25 0
	0-50			925 344 343		925 544 381 343
(%)	۲	Rainfall - 250 mm	- 200 mm	- 150 mm	- 100 mm	Total
Slope		Annual 300	250	200	150	

Four (4) figures in each class indicate (i) Total Area, (ii) Extent of Farmland, (iii) Extent of Non-Farmland and (iv) Expansible Area from top to bottom in order. Remark:

Non-Farmland O.F Extent (111) Farmland, 4 Extent (;;) Area, Total (i) Total in order. s indicate to bottom in each class (4) figures in each class Expansible Area from top Four (iv) Remark:

and

Total	14,025 4,695 9,334 4,474	25,525 8,647 16,885 11,003	6,800 2,338 4,465 3,414	1,725 68 1,657 1,211	48,075 15,748 32,341 20,102
100<		The state of the s			0000
30 < 50-100	1,0	625 76 551 358	125 25 100 90	100 100 100	1,875 451 1,426
0-20		4,100 138 3,963 1,291	650 87 563 317	425 6 419 234	10,100 787 9,314 3,197
100<		25 19 6		50 6 44 39	75 25 50 45
2 - 30 50-100		5,325 2,244 3,082 2,448	1,175 481 694 624	275 250 250 225	10,775 5,025 5,752 4,494
0-50	2000	10,225 2,444 7,782 5,656	2,775 513 2,263 1,684	850 25 825 606	16,950 3,876 13,077 9,285
100<		175 144 31 28			175 144 31 28
8 - 12 50-100	0 4.64 [2,600 1,881 719 637	800 481 319 287	25	4,075 2,806 1,270
050	125 31 94 58	1,025 456 569 421	600 225 375 281		1,750
100<		225 181 44 39	175 113 63 56		400 294 107 95
4 ~ 8 50-100	175 132 44 37	650 538 112 99	150 106 44 39		975 776 200 175
0-50	22 19 6 5	138 938	100 75 25 19		175 132 44 33
100<		325 313 13 11	225 213 13		550 526 26 22
0 - 4 50-100		175 175 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2		200 194 6
0-50 5					0000
s) oth (cm)	40	. 200 mm	. 150 mm	. 100 mm	Total
Slope (%	Annual Rair 300 - 25	250 -	200 -	150 -	The second secon

Four (4) figures in each class indicate (i) Total Area, (ii) Extent of Farmland, (iii) Extent of Non-Farmland and (iv) Expansible Area from top to bottom in order. Remark:

Table 3.6 LAND HOLDING SIZE IN KARAK GOVERNORATE (1983)

Size of Group	Land Ho	lders	Are	a	Average Size
(dunum)	(No.)	(%)	(dunum)	(%)	(dunum)
5 - 10 10 - 20 20 - 30 30 - 40 40 - 50 50 - 100 100 - 200 200 - 500 500 - 1,000 1,000 - 2,000 2,000 - 5,000 5,000 - 10,000 10,000 - 25,000	1,085 920 7597 51691 1,4638 585 111 1	14.4 7.1 12.2 10.0 9.3 6.9 19.5 12.5 6.7 1.1 0.0 0.0	2,650 3,558 12,183 17,246 22,421 21,901 21,013 121,013 1239,362 25,182 2,000 20,596	0.57 2.32 4.19 4.19 2.60 7.77 4.8 3.8	2.4 6.7 13.2 22.9 32.3 42.3 629.0 276.0 633.7 1,325.4 2,000.0
Total/Mean	7,519	100.0	536,090	100.0	71.3

Source: National Village Survey 1983, Department of Statistics.

Table 3.7 MODE OF LAND HOLDING IN KARAK GOVERNORATE (1983)

Size of Group		Holders		Holders (dunum)		
5 - 10 10 - 20 20 - 30 30 - 40 40 - 50 50 - 100 100 - 200 200 - 500 1,000 - 2,000 1,000 - 2,000 2,000 - 5,000 10,000 - 25,000 25,000 - 25,000	1,085 925 75978 5463 1,493 581 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2,650 3,558 12,1246 127,2421 221,002 21,002 21,005 22,000 20,596 20,596	1,070 9314 7481 74917 1,4529 4779 111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	2,615 15,5996 127,122616 127,128616 121,28616 121,28616 121,28616 1350,1800 20,596	15 65 61 11 192 3	35 315 820 1990 797 1,7915 1,915
Total/Mean	7,519	536,090	7,446	527,940	73	8,151

Source: National Village Survey 1983, Department of Statistics.

Table 3.8 (1/3) AREA OF CROPS CULTIVATED (ANHAN GOVERNORATE)

(Unit: Dunum)

							au)	it: Dunum)
	1981	1982	1983	1984	1985	1986	1987	Average 1981-1987
Field Crops	459,304	458,305	564,000	256,716	372,367	165,951	600,192	410,976
Wheat (grain) Barley (grain) Lentlis Vetch Chick pea	256,944 114,380 30,870 12,310 4,201	236,152 135,950 25,100 15,800 5,223	319,160 152,470 21,450 18,950 5,320	128,826 65,000 10,500 11,715 5,760	200,550 101,825 17,450 13,107 7,788	96,600 28,070 12,705 5,720 5,984	330,060 204,750 32,615 10,860 4,375	224,042 114,635 21,527 12,637 5,522
Rice Others	40,599	40,080	46,650	34,915	31,647	16,872	17,532	32,614
Tree Crops	54,531	57,503	59,263	60,051	65,926	78,160	88,152	66,227
Olive (green) Grape Pig Almond Peach Plum and Prune Apricot Pomegranate Apple Pear	25,030 21,030 1,150 1,525 1,128 1,131	25,450 23,975 1,300 1,711 27,314 1,314	26,4975 23,,0090 1,,3575 1,,3575 1,33211	26,606 24,273 1,022 1,020 2,380 1,908 198 320 1,530	314,7880 24,7880 1,7	40,134 26,886 1,735 2,000 2,515 2,048 219 446 1,947	48,389 27,861 2,025 2,043 2,535 2,148 230 586 2,041	31,954 24,734 1,251 1,2710 2,377 1,876 198 361 1,567
Banana Citrus	20	70	7 -	86	93	94	94	76
Quince Others	57	40	53	60	71	88	2 113	69
Vegetables	37,622	43,074	77,479	78,477	67,276	46,364	48,068	56,909
Tomatoes Squash Bggplant Cucumber Potatoes Cabbages Cauliflower Sweet Pepper Okra Lettuce Water Melon Onion Snake Cucumber Carrot Sweet Melon Peas Mulukhiye Garlic Others	10,260 2,630 1,360 1,150 225 810 1,197 2,739 3,445 4,707 3,170 4,707 3,170 2,823	9,670 2,0317 1,190 1,033 1,490 1,033 1,490 2,440 2,540 4,740 2,540 4,858	17,265 4,753 2,981 5,655 4,265 4,445 6,440 3,630 8,532 8,532 4,690 5,110 1,472 3,849	15,058 6,455 3,184 4,785 6,410 3,640 7,385 4,075 1,630 4,710 1,630 6,235	12,423 3,3248 12,328 4,3670 14,6720 7,2611 4,6720 7,225 3,379 2,1630 5,622 6,632	-	5,340 2,386 1,058 1,058 2,481 1,961 2,325 2,323 1,766 1,876 1,876 1,876 1,876 2,547 2,192 8,346	10,753 3,731 2,754 2,921 3,026 2,736 3,275 788 5,957 2,970 3,467 1,690
Total	551,457	558,882	700,742	395,244	505,569	290,475	736,412	534,112

Table 3.8 (2/3) AREA OF CROPS CULTIVATED (KARAK GOVERNORATE)

(Unit: Dunum) Average 1981 1982 1983 1984 1985 1986 1987 1981-1987 236,537 200,894 240,646 87,763 171,402 76,528 198,876 152,940 134,900 53,600 43,100 18,895 10,330 1,420 4,520 2,737 3,215 62,200 122,200 23,031 35,600 1,260 1,820 52,540 15,190 2,115 1,760 160,240 51,410 138,770 51,470 Wheat (grain) Barley (grain) 117,684 39,057 1,820 560 7,376 2,269 2,724 4,170 Lentils 13,040 5,190 4,740 410 790 Vetch 4,875 1,432 1,282 Chick pea Rice 6,945 4,829 72 6,026 6,347 3,491 1,164 Others 4,125 23,971 21,202 17,778 19,272 20,768 Tree Crops 20,182 27,878 21,579 6,160 11,009 104 7,088 11,460 127 8,249 11,977 157 8,097 11,817 148 10,478 13,996 12,384 12,549 175 270 7,757 11,657 8,832 Olive (green) Grape 11,836 138 160 Fig 127 185 Almond 118 160 104 141 176 144 32 75 46 84 32 67 51 24 25 Peach 20 57 63 117 Plum and Prune 41 55 98 183 Apricot 95 168 111 141 160 131 180 149 171 191 208 266 190 Ponegranate 12 --8 Apple 3 Pear Banana 118 102 40 139 156 81 96 163 99 96 100 125 Citrus -30 62 Quince Others Vegetables 6,882 2,950 3,770 3,199 4,697 4,869 3,201 4,224 2,297 5,601 2,187 2,227 2.040 1,687 2,655 Tomatoes 38 20 328 81 148 96 430 305 204 Squash 20 590 92 10 60 60 69 22 Eggplant 48 226 270 255 328 194 151 288 Cucumber Potatoes οĥ 10 Cabbages Cauliflower 6 12 15 25 14 22 23 Sweet Pepper 15 10 6 6 11 17 83 -88 609 51 0kra 124 38 68 83 Lettuce _ -188 343 Water Melon 170 483 211 211 89 68 43 114 507 Onion 113 197 162 Snake Cucumber 224 182 130 181 124 Carrot 10 --497 63 106 Sweet Helon i 1 Peas Mulukhiye Garlic 409 Others

Total 261,197 223,116 264,598 111,730 197,301 105,368 229,955 199,03

Table 3.8 (3/3) ARBA OF CROPS CULTIVATED (TAFILA GOVERNORATE)

(Unit: Dunum) Average 1981 1982 1983 1984 1985 1986 1987 1981-1987 Average 63,615 129,575 16,550 59,321 20,636 65,115 10,550 52,195 Wheat (grain) Barley (grain) Lentils 6,000 3,500 500 36,000 20,000 1,500 88,000 32,000 7,400 40,000 13,700 4,550 10,000 4,300 1,800 14,500 700 32,786 13,457 35,000 5,000 3,007 300 Vetch 6,000 2,100 1,000 2,881 1,050 4,500 5,000 520 Chick pea Rice 21 36 115 30 115 50 Others 8,285 11,382 7,405 7,608 6,628 7,008 9,642 8,280 Tree Crops 4,910 6,895 1,970 218 285 4,412 4,445 1,563 137 3,989 1,425 5,640 4,120 Olive (green) 1,526 120 205 1,835 1,595 1,632 146 1,510 Grape 150 Fig 105 117 166 195 226 241 259 225 Almond 210 254 328 264 333 143 190 233 198 167 176 Peach 291 359 227 207 232 Plum and Prune 128 318 275 250 299 421 294 Apricot 182 Pomegranate 138 145 162 171 188 289 182 149 183 195 212 261 386 239 Apple 34 ŜΪ 84 53 46 48 65 44 Pear Banana 25 62 47 59 26 47 96 167 Citrus 36 81 Quince 35 99 64 48 Others (935 850 2,638 2,170 2,013 1,621 1,319 1,649 Vegetables 605 984 800 769 620 Tomatoes 80 25 75 169 14 153 100 245 130 58 186 138 Squash 104 64 130 70 56 Eggplant 215 430 233 330 181 Cucumber 10 115 15 10 Potatoes Cabbages Cauliflower 16 2 14 15 20 16 38 2 23 12 20 Sweet Pepper 50 ---55 --25 7 5 Okra Lettuce 324 110 285 50 27 Water Welon 3 240 171 162 94 175 136 55 145 114 Onion 300 16 Snake Cucumber 450 160 Carrot 158 140 Sweet Helon 5 --Peas Kulukhiye Garlic 47 10 17 21 40 Others 66,884 28,494 75,158 20,328 73,913 140,838 29,251

Table 3.9 (1/3) CROP PRODUCTION (ANNAN GOVERNORATE)

(Unit: ton) Average 1984 1985 1986 1987 1981-1987 1981 1982 1983 Rield Crops
 12,252
 11,086
 8,105
 30,007
 17,356

 1,035
 3,707
 1,854
 13,214
 5,464

 418
 1,286
 667
 2,434
 1,292

 341
 823
 250
 721
 694

 175
 313
 271
 367
 231
 15,696 8,967 4,574 1,947 1,630 1,092 772 617 274 106 Wheat (grain) Barley (grain) Lentils 35,377 11,918 1,514 1,337 Vetch Chick pea 110 Rice Tree Crops Olive (green) Grape Fig Almond Peach Plum and Prune Apricot Pomegranate Apple Pear Banana Citrus Quince Vegetables
 6,692
 5,921
 14,452
 29,905

 1,732
 1,866
 3,982
 8,909

 1,260
 992
 3,436
 7,341

 1,445
 1,415
 5,527
 12,377

 1,500
 1,415
 1,416
 1,416
 11,634 10,994 14,240 6,403 3,826 4,708 1,267 4,023 2,970 10,657 7,994 6,296 20,079 Tomatoes 6,241 2,468 4,657 Squash Eggplant Cucumber 150 272 325 322 2,435 1,275 954 1,134 669 845 2,400 15,460 11,230 8,974 1,015 1,520 7,705 13,809 5,033 3,063 5,243 1,411 5,912 7,135 6,377 Potatoes 503 1,275 6,377 6,045 1,134 5,152 669 845 1,172 295 2,593 1,702 12,353 1,293 10,915 1,710 2,786 2,866 3,047 2,183 8,134 Cabbages Cauliflower Sweet Pepper 9,909 2,049 2,308 1,881 3,207 10,843 4,762 2,436 22,381 26,589 15,159 1,149 1,730 2,913 709 646 837 0kra 10,843 22,381 1,149 Lettuce 600 490 16,285 2,707 4,072 Water Melon 24,213 890 Onion Snake Cucumber 1,505 316 423 6,149 6,466 636 1,187 2,183 84 774 178 104 264 4,981 11,050 8,101 6 637 1,185 791 Carrot 184 5,841 Sweet Melon Peas reas Kulukhiye 756 36 160 132 335 Garlic

Table 3.9 (2/3) CROP PRODUCTION (KARAK GOVERNORATE)

							(U	nit: ton)
· · · · · · · · · · · · · · · · · · ·	1981	1982	1983	1984	1985	1986	1987	Average 1981-1987
Field Crops								
Wheat (grain) Barley (grain) Lentils Vetch Chick pea Rice	9,594 2,827 1,197 92 139	7,728 1,768 479 275 168	14,464 3,950 925 417 45	1,694 123 14 -	9,825 2,451 151 37 294	3,091 782 117 119 51	8,995 3,292 214 83 64	7,913 2,170 442 146 109
Tree Crops								
Olive (green) Grape Fig Almond Peach Plum and Prune Apricot Pomegranate Apple Pear	313 3,943 12 5 18 40 71	745 3,226 41 28 22 22 76	1,150 4,080 40 32 87 38	554 3,409 499 387 199 411 32	5,682 682 488 222 488 222 488 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1,339 4,448 57 45 14 26 47	353 4,389 54 30 8 13 29 51 2	3,740 3,740 48 33 11 18 38 56 1
Banana Citrus Quince	112	97	90	100	105	139	153	114
Vegetables								
Tomatoes Squash Bggplant Cucumber Potatoes Cabbages Cauliflower	4,895 199 185 485 2	2,993 75 89 96 4	2,905 76 8 274 - 3	2,274 92 56 255	3,863 280 51 346 30	5,091 322 85 522 15	4,098 289 176 134	3,731 165 51 308 19
Sweet Pepper Okra	- 9	- 5 9	3 32	16	3 36	2 158	5 17	5 37
Lettuce Water Helon Onion Snake Cucumber	38 40 99	17 103 29	165 120 133	65 43 -	693 119 112	90 212 44	154 200 79	175 120 71
Carrot Sweet Helon Peas Hulukhiye Garlic	1 3 -	- 6 - -	30 - - -	10	85 - - -	-	171	43

Table 3.9 (3/3) CROP PRODUCTION (TAFILA GOVERNORATE)

Table 3.10 (1/3) AVERAGE UNIT YIELD (AMMAN GOVERNORATE)

Table 3.10 (2/3) AVERAGE UNIT YIBLD (KARAK GOVERNORATE)

							(Unit:	kg/dunum)
	1981	1982	1983	1984	1985	1986	1987	Average 1981-1987
Field Crops								
Wheat (grain) Barley (grain) Lentils Vetch Chick pea Rice	63 53 65 51	57 41 46 61 52	90 77 71 80 10	27 5 11	809 863 60	59 51 55 68 36	65 64 51 41 50	67 56 60 64 40
ree Crops								
Olive (green) Grape Rig Almond Peach Plum and Prune Apricot Pomegranate Apple	148 358 327 115 250 439 421 477	105 282 323 237 1,182 431 481 452	148 350 290 252 333 342 444	68 288 331 270 280 302 350 178	72 224 395 300 250 298 199	128 359 326 256 304 167 163 226 1,000	25 350 200 162 140 133 158 192 167	916 301 230 2336 2693 2930 50
Banana Citrus Quince	1,167	970	882	847	755	891 21	939 20	911 10
egetables								
Tomatoes Squash Eggplant Cucumber Potatoes Cabbages	874 500 600 822 500	1,344 928 967 425 667	1,265 514 800 1,015 500	1,115 958 933 1,000 -	1,518 854 850 1,055 2,000	600	2,429 948 2,455 1,166 2,030 2,857	1,405 809 1,066 1,070 2,000 1,268
Cauliflower Sweet Pepper Okra	409	625 529	200 386	1,000	300 409	87 259	833 333	436 300
Lettuce Water Melon Onion Snake Cucumber	1,000 588 1,193	378 1,157 439	878 1,062 594	382 1,000	1,435 1,044 615	262	730 1,015 608	827 740 573
Carrot Sweet Melon Peas Mulukhiye Garlic	500 429	1,000	476	1,000	802	- - -	731	535 - -

Table 3.10 (3/3) AVERAGE UNIT YIELD (TAFILA GOVERNORATE)

(Unit: kg/dunum) Average 1987 1981-1987 1985 1986 1981 1982 1983 1984 Field Crops 64 109 75 95 110 125 60 80 30 25 30 Wheat (grain) Barley (grain) Lentils 30 60 Vetch 51 46 Chick pea Rice Tree Crops 567 2 1,153 1,000 115 702 108 21 34 462 69 757 36 765 271 806 76 503 77 417 3,591 242 302 290 432 212 163 Olive (green) 103 282 282 323 329 2,105 267 1,280 161 1,420 297 940 Grape 120 332 286 Pig 203 257 Almond 108 314 14 295 300 Peach Plum and Prune 332 445 264 268 407 359 296 284 284 222 392 305 367 Apricot 231 396 312 Pomegranate 333 311 318 472 325 Apple 118 68 43 176 188 180 rear Banana 1,091 1,667 333 600 306 1,500 286 830 146 600 288 672 288 1,242 Citrus 284 474 Quince 300 Vegetables 401 327 740 800 - 80 529 1,040 - - -- - -500 -1,631 1,000 1,000 2,791 1,100 1,500 1,009 2,000 2,617 1,142 1,929 1,013 2,000 1,585 2,163 2,222 1,502 2,277 1,603 1,906 1,160 1,711 1,325 1,491 1,135 2,000 Tomatoes Squash **Eggplant** Cucumber 2,000 2,000 Potatoes 750 2,018 750 1,643 Cabbages ,000 1,643 579 667 Cauliflower 1,000 Sweet Pepper 636 286 688 Okra Lettuce 2,996 2,848 620 1,750 370 -2,884 888 Water Melon Onion 1,201 Snake Cucumber - 2,892 Carrot Sweet Melon 1,993 Peas Mulukhiye Garlic

Table 3.11 NUMBER OF ANIMALS IN HTE STUDY AREA

		Cow		:	-		Goat		•
	Local	Dutch	Total			Syrian	Cal	Total	dealla
Madaba Area									
98	58	9	74	0	S	, 00	9,00	1,00	5,00
1987 1988	1,733	738 388	2,4711,994	450 490	150 110	2,000	60,000 50,000	62,000 52,200	95,000 75,000
Average	1,307	430	1,737	480	137	2,067	46,333	48,400	75,000
Karak Area									
1986	1,500	150	1,650	100	2,000	1,500	23,000	24,500	115,000
8 8	111	105	128	0	56	30	0,00	0,30	0,00
Average	1,272	142	1,414	115	1,520	1,100	54,000	55,100	165,000
Tafila Area									
98	17	က	20	0	, 50		5,0	6,02	2,00
1987 1988	1 1	9	15	840 120	1,500		24,000 30,000	24,020 30,020	36,000
Average	9	6	15	353	1,500	353	29,667	30,020	42,667

Source: Department of Statistics

Table 3.12 ORGANIZATION OF KARAK AGRICULTURAL GOVERNORATE (1989)

	- Qastre - Mazar - Ghweir - Safi	- -	1 1 2 2	1 1 2 2	1 1 -	 		
•	VEHICLES - Karak - Rabba	Sedan 5 1	Pick-up 3 2	Tractor 2 2	Sprayer 1	Tanker 2		
		+	·		- Field ass			4
	- Engineer/Ag - Assistant e - Veterinaria - Assistant v - Ranger	ngineer n	2 2 1 2 6	5.	WorkerGhor Safi (vBngineer/		ruit)	5 11 6
2.	Qasre		13	11	- Engineer/ - Field ass	Agronomist	Clopi	2 2 5
	- Bngineer/Ag - Veterinaria - Assistant v - Ranger	n	2 7 2 6	ı	- Bukuginee - PiField a - WoWorker Chwair (rese			10 1 6
1.	Mazar	;_	11	3.	Rabba (resea		ł.	17
•	Iranch Office)							
	- Bngineer/Ag - Surveyor - Assistant	Lauoufer	1		- Engineer/ - Assistant			1
3.	Project Section		3	7.	Cropping Pat	tern Sectio	n	2
	- Sub-enginee (agricult	ural school)	ą	6.	NurseryLaboratorStatistic Se	•	rk	ž 3
2.	- Bngineer/Ag	g extension) ronomist	9 5		- Typist - Animal pr	veterinaria oduction en		3663332
_	- Cashier - Car arrange - Typist		13	V.	Health Sec - Veterinar	tion ian		23
	 Section chi Store keepe Clerk Personal ad 	Ī	berd berd bred berd be	r	- Guards (r	anger) ub-engineer orker		15 2 13
1,	Administrative - Director	Section	11	4.	Forest and R - Engineer/	-	1	32 2

Table 3.13 ORGANIZATION OF TAFILA ACRICULTURAL GOVERNORATE (1989)

A. STRUCTURE	No. of Staff:	Head	Office 4	13	Branch	Office	92	Total	135
(Head Office)									
1. Administrative Se	ection	8		3,	Statistic	Section	- Cler	ķ	2
- Deputy directory - Section chief - Personal admin - Clerk - Store keeper - Typist - Workers/Driver	nistrator	1 2 1 2 1 2 1 2		4.	Livestock Health S - Veterin - Bnginee - Nursers - Garde	Section Marian er	18.		8 2 1 3 2
- Car arranger	•	i		£	Forest and	Panda	Saction		17
2. Agricultural Sect - Engineer/Agror - Clerk - Worker		8 6 1 1		Ų.	- Bnginee - Ranger - Clerk - Nursery - Garde - Tempora	er v vorker			1 3 9 2 1
(Branch Office)									
1. Al-Hassa Station		81		2.	Aima Stati	on			3
- Engineer - Clerk - Worker - Garde		- 3 75 3			- Sub-eng - Hesseng	ineer Ger			1 2
2. Busaira		3		4.	Tawwaneh S	Station			5
- Engineer - Sub-engineer - Messenger		1 2			- Engine - Garde	er			1 4
B. VEHICLES	Sedan	Pick-up	Trac	tor	Sprayer	Ta	.nker	***	
- Tafila - Bl-Hassan - Busaira	3	5 1 -		2 1	2 1		2 1		
- Aima - Tawwaneh	-	1		1	-		-		
Total	4	?		4	3		3		
C. BUDGETS 114,	,000 JD/year								

Table 3.14 (1/2) FARMGATE PRICES OF FARM INPUTS AND OUTPUTS (AS OF DECEMBER 1989)

	(Unit)	Prices (JD)		(Unit)	Prices (JD)
Crops and Livestock	Products				
- Wheat	(ton)	140	- Water melon	(ton)	70
- Barley	(ton)	90	- Sweet melon	(ton)	100
- Lentils	(ton)	150	- Cabbages	(ton)	70
- Chick peas	(ton)	250	- Cauliflower	(ton)	80
- Vetch	(ton)	300	- Sheep *1	(head)	35
- Olive (green)	(ton)	250	- 3-4 months # 2		30
- Olive oil	(ton)	2,060	- Goats *1	(head)	35
- Grape	(ton)	150	- 3-4 months * 2	(head)	30
- Fig	(ton)	250	- Chicken	(head)	2.50
- Apple	(ton)	280	- Hilk of sheep		
- Apricot	(ton)	325	and goats	(kg)	0.30
- Peach	(ton)	400	- Dry yogurt	(kg)	2.00
- Pear	(ton)	600	- Milk oil	(kg)	5.00
- Tomatoes	(ton)	80	- Wool	(No.)	0.70
- Eggplant	(ton)	60	- Eggs	(No.)	0.04
- Cucumber	(ton)	100			
Seed and Seedling					
- Wheat	(ton)	140	- Tomatoes *4	(tray)	2.50
- Barley	(ton)	90	- Eggplant *4	(tray)	2.50
- Lentils	(ton)	270	- Cucumber	(kg)	28.00
- Chick peas	(ton)	400	- Water melon	(kg)	11.50
- Vetch	(ton)	300	- Sweet melon	(kg)	34.00
- Seedling of tree	; * 3		- Cabbages	(kg)	16.00
l year	(No.)	0.50	- Cauliflower	(kg)	60.00
2 years	(No.)	1.00			
Animal Feeds					
- Barley	(ton)	60	- Bran	(ton)	40
- Sorghum	(ton)	55	- Hey	(ton)	110
Pertilizer					
- Diammonium phosp	hate (DAP)		- Urea (46%)	(kg)	110
(21:18:0)	(ton)	115	- T.S.P. (45%)	(kg)	160
 Compound 			- Organic		
fertilizer #5	(ton)	160	fertilizer *6	(ton)	15
Agro-chemicals					
- Pesticides and			- Harbicides	(litre)	3.50
insecticides	(litre)	10.00		,	
*1 Average liveweig	ht: 50kg	*~~~~~	*4 Seedling		
*2 Average liveweig	_		1 tray (200 seed	lings) = J	D 2.5
#3 Olive, grape, ap	_		\$5 Content 15:15:15		

^{*3} Olive, grape, apple, etc.

Source: Farm interview survey

^{*5} Content 15:15:15

^{*6} For chicken, sheep and goats

Table 3.14 (2/2) FARHGATE PRICES OF FARM INPUTS AND OUTPUTS (AS OF DECEMBER 1989)

	(Unit)	Prices (JD)			(Unit)	Price: (JD)
Hired Cost of Farm mac	hiners *	· · · · · · · · · · · · · · · · · · ·				
- Plow #2	(dunum)	1.00	-	Harvester *3	(dunum)	1.2
- Seed drill	(dunum)	0.80	_	Hore	(dunum)	1.31
- Seed drill - Sprayer *4	(dunum)	1 00	-	Rake	(dunum) (dunum)	n 31
Hired Cost of Animal (yaa)	8.00	1.a ho		(day)	5.01
Purchasing Price of Pa			паро	,	(003)	0.01
- Tractor (75 PS cla		ucr)				9,000
- Disc plow (3 disks		haol				1,500
- Chisel plow (12 le						75(
- Disc harrow (2.5m			diakal			1,000
- Seed driller (with				1		4,50
- Sprayer (tactor mo			, lum Alde	1		1,200
- Knapsack type spra	-	-	_ 1			5(
- Combine harvester	(10078,	.om wide	e j			42,000
- Wagon (3 tons)						1,000
- Rake (2m wide)	1					500
- More (rotary, 1.6m						2,40
- Pump (2 inch, with		2 HP}				301
- Pump (3 inch, with						60
- Suction hose (2 in					(n)	
- Common hose (2 inc					(<u>a</u>)	
- Common hose (3 inc					(R)	
- Water tanker (2	m3)					60
- Bulldozer (D8)						187,00
- Bulldozer (D6)						116,00
Others						
 Killing cost 				Vinyl for mult		
Olive *6				Vactination (t		
Wheat *7	(kg)	0.015	-	Bag		
- Transportation *8	(ton)	10.00	-	Box	(No.)	0.2
- Construction cost	of build:	ing	**	Grazing fee		
Water tank	(m2)	12		MOA/JCO *9	(head)	0.00
Office	(m2)	370		Private *10	(dunum)	0.5
- Drip irrigation sy	sten		-	Construction c	ost of fence	•
	(dunum)	80			(g)	1.5
- Water (from Water	Authorit	y }				
0- 20 m3	(JD/ton)	0.10	(minimum	1.2 JD)		
21-40 m3	(JD/ton)	0.19	(ainimum	2.0 JD)		
			(minimum	•		
			minimum 2			
			**			
	e of ope	rator	* 8	By truck: Ave	rage cost fi	COM
*1 Including allowance				the project ar	-	
*1 Including allowand *2 Disc plow	_					
	8			market of Amma	n.	
*2 Disc plow						(JCO)
*2 Disc plow *3 Cutting wide: 3.8 *4 Capacity: 600 lite	r		‡ 9	Podder Shrub P	roject (MOA)	
*2 Disc plow *3 Cutting wide: 3.8 *4 Capacity: 600 lite *5 Including two meal	r .s		*9 *10	Podder Shrub P Grazing in the	roject (MOA)	
*2 Disc plow *3 Cutting wide: 3.8 *4 Capacity: 600 lite	r .s		*9 *10	Podder Shrub P	roject (MOA)	

Table 3.15 (1/3) CROP BUDGET - PRESENT CONDITION

		Wheat		Barley		Lentils		Chick pea		Tomatoes	
I. Gross Income - Unit yield - Unit price - Gross income	(t/du) (JD/t) (JD/du)		0.06 140.0 8.40		0.06 90.0 5.40		0.06 150 9.00		0.04 250 10.00		1.47 100 147.0
Unit	Unit Price (JD)	Q'ty	Amount (JD/du)	Q'ty	Amount (JD/du)	Q'ty	Amount [JD/du]	Q'ty	Amount JD/du)	Q'ty	Amount JD/du)
II. Production Cost 1) Seeds and Seedlings - Seeds (kg) - Seedlings Fruit tree *1 Vegetables *2	0.50	7 -	0.98	7	0.63	8	2.16	8 -	3.20	1,000	12.50
- T.S.P. (kg) 0.16 - Compound (kg) 0.16 - Organic fertilizer (kg) 0.016 3) Agro-chemicals - Herbicides (lit.) 3.56 - Pesticides &	0.11 0.16 0.16	-	- - -	-	-	-	-	-	-	15 15 -	1.65
	3.50	-	-	-	-	-	-	-	-	1.05	10.50
4) Laborers (man-day - Seeding - Planting - Application of	5.00 5.00	0.1	0.50	0.1	0.50	0.1	0.50	0.1	0.50	1.0	5.00
runglottes (lit.) Aborers (man-day) Seeding Planting Application of fertilizer Weeding Spraying \$3 Harvesting \$4	5.00 5.00 5.00 5.00	0.6	-	-	3.00 5.50	-	2.50	_	2.50 6.00	0.9 1.0 0.4 12.0	4.50 5.00 2.00 60.00
Plowing (dunum) - Plowing (dunum) - Covering (dunum) - Spraying (dunum) - Harvesting (dunum)	1.00 1.00 1.00 1.25	1.0		1.0	1.00		1.00		1.00	3	3.00
6) Animals *5 (day) 7) Materials - Bags *6 - Boxes *7	8.00	0.5	-	0.5	0.23		0.23	0.4	0.18	123	30.75
8) Transportation *8 9) Miscellaneous *9 Total			0.18 0.62 13.01		0.18 0.60 12.64		0.18 0.63 13.20		0.12 0.73 15.23		14.70 7.60 159.60
III. Net Income (JD/du.) - Excluding family 1 - Including family 1	abor cost abor cost	* 10	(4.61) 3.11		(7.24) 0.48		(4.20) 2.63		(5.23) 2.33		(12.60) 48.82

^{*1} One year seedling
*2 One tray = 200 seedlings = 2.5 JD
*3 Spraying by knapsack type sprayer.
*4 Including works for threshing, packing, etc.
*5 Plowing by horses.
*6 Weight of one bag: 110kg
*7 Weight of one box: 12 kg
*8 Average transportation cost from project area to Amman. 10 JD/ton
*9 Including minor farm tools and equipment, etc. (5% of total cost)
*10 Assuming that about 30 % of harvesting are done by hired laborers.
Source: Farm interview survey by the study team (December 1983).

Table 3.15 (2/3) CROP BUDGET - PRESENT CONDITION

		Caulif	Cauliflower		Water Melon		Cabbages		Olive (Green)		Grape	
I. Gross Income - Unit yield - Unit price - Gross income	(t/du) (JD/t) (JD/du)		2.02 80 161.6		1.72 60 103.2		1.18 70 82.60		0.17 300 51.00		0.45 150 67.50	
Unit	Unit Price (JD)	Q'ty	Amount (JD/du)	Q'ty	Amount (JD/du)	Q'ty	Amount (JD/du)	Q'ty	Amount (JD/du)	Q'ty	Amount (JD/du)	
II. Production Cost 1) Seeds and Seedling - Seeds (kg) - Seedlings	5 -		-		2.30	-	-	-	-	-	-	
Fruit tree *1 Vegetables *2				-	-	1,000	12.50	-	-	-	-	
- Urea (kg) - T.S.P. (kg) - Compound (kg)	0.11 0.16 0.16	20	3.20	40	6.40	20	3.20	-	-	-	-	
- Organic fertilizer (kg) 3) Agro-chemicals - Herbicides(lit.)	0.015	500	7.50 0.88	-		500 0.25	7.50	60	0.90	60	0.90	
- Pesticides & Rungicid(lit.)	10.00	1.2	12.00	0.4kg		1.2	12.00	1.0	10.00	1.7	17.00	
4) Laborers (man-d - Seeding - Planting - Application of	5.00			1.2		1.0	5.00	-	-	-	-	
- Application of fertilizer - Weeding - Spraying *3 - Harvesting *4	5.00 5.00 5.00 5.00	1.1 1.0 0.4 12.0	5.50 5.00 2.00 60.00	0.4 0.4 8.6	2.00	1.1 1.0 0.4 2.0	5.50 5.00 2.00 10.00	1.2	2.00 6.00 13.50	0.8	2.00 4.00 13.50	
 5) Farm machinery Plowing (dunum Covering (dunum 	1.00			3	3.00	3.0	3.00	-		-	-	
o; Farm machinery - Plowing (dunum - Covering (dunum - Spraying (dunum - Harvesting(dunum 6) Animals *5 (day) 71 Katerials	1.25	-	-	-	-	-		-	-	-	-	
7 Materials - Bags *6 - Boxes *7 8 Transportation *8 9 Miscellaneous *9	0.45 0.25	168	42.00 20.20 8.94		17.20 4.60	98	24.50 11.80 5.14	3 -	1.35 1.70 1.87	38	9.50 4.50 2.70	
Total			187.72		96.50		108.02					
III. Net Income (JD/du - Excluding family - Including family	labor co	st*10 st	(26.12) 36.36		6.70 48.81		(25.42) 0.31		11.68 30.00		10.80	

^{*1} One year seedling
*2 One tray = 200 seedlings = 2.5 JD
*3 Spraying by knapsack type sprayer.
*4 Including works for threshing, packing, etc.
*5 Plowing by horses.
*6 Weight of one bag: 110kg
*7 Weight of one box: 12 kg
*8 Average transportation cost from project area to Amman. 10 JD/ton
*9 Including minor farm tools and equipment, etc. (5% of total cost)
*10 Assuming that about 30 % of harvesting are done by hired laborers.
Source: Farm interview survey by the study team (December 1983).

Table 3.15 (3/3) CROP BUDGET - PRESENT CONDITION

	Apr	ricot		Apple		Peach		Fig	
I. Gross Income - Unit yield (t/du) - Unit price (JD/t) - Gross income (JD/du)		0.30 330 99.00		0.31 280 86.80		0.27 400 108.00		0.29 250 72.50	
Unit Unit Price (JD)	Q'ty	Amount (JD/du)	Q'ty	Amount (JD/du)	Q'ty	Amount (JD/du)	Q'ty	Amount (JD/du)	
II. Production Cost 1) Seeds and Seedlings - Seeds (kg) Seedlings - Fruit tree *1 0.50 - Vegetables *2 2.50	-	- - -	-	-	-	- -	-	-	
2) Fertilizers - Urea (kg) 0.11 - T.S.P. (kg) 0.16 - Compound (kg) 0.16 - Organic	-	-	-	- -	-	- *-	-	- - -	
fertiliger (kg) 0.015 3) Agro-chemicals - Herbicides (lit.) 3.50 - Pesticides &	47 - 1.0	0.71 - 10.00	20 - 0.5	0.30 - 5.00	20 - 0.5	0.30 - 5.00	72 -	1.08 - 4.00	
Fungicid (lit.) 10.00 4) Laborers (man-day) - Seeding 5.00 - Planting 5.00 - Application of	-	*	-	. -	-	-	-	-	
fertilizer 5.00 - Weeding 5.00 - Spraying *3 5.00 - Harvesting *4 5.00 5) Farm machinery	0.2 1.4 3.3		0.1 0.5 0.5 2.0	0.50 2.50 2.50 10.00	0.1 0.5 0.5 2.0	0.50 2.50 2.50 10.00	0.1 1.2 0.2 1.2	0.50 6.00 1.00 6.00	
- Plowing (dunum) 1.00 - Covering (dunum) 1.00 - Spraying (dunum) 1.00 - Harvesting(dunum) 1.25 6) Animals *5 (day) 8.00	2.7	-	- - -	-	- - - -	-	- - -	-	
7) Waterials - Bags *6 0.45 - Boxes *7 0.25 8) Transportation *8 9) Miscellaneous *9	25	6.25 3.00 2.36	26	6.50 3.10 1.52	23	5.75 2.70 1.46	24	6.00 2.90 1.37	
Total		49.52		31.92		30.71		28.85	
III. Net Income (JD/du.) - Excluding family labor cos - Including family labor cos	st*10 st	49.49 70.01		54.88 68.00		77.29 90.41		43.65 55.93	

^{*1} One year seedling
*2 One tray = 200 seedlings = 2.5 JD
*3 Spraying by knapsack type sprayer.
*4 Including works for threshing, packing, etc.
*5 Plowing by horses.
*6 Weight of one bag: 110kg
*7 Weight of one box: 12 kg
*8 Average transportation cost from project area to Amman. 10 JD/ton
*9 Including minor farm tools and equipment, etc. (5% of total cost)
*10 Assuming that about 30 % of harvesting are done by hired laborers.
Source: Farm interview survey by the study team (December 1983).

Table 3.16 NET INCOME OF LIVESTOCK RAISING - PRESENT CONDITION

,				
1 flock: 100 heads		Products	Unit Price (JD)	
I. Gross IncomeSelling of sheep and	goats	*1		
100 heads x 13%	(head)	13	35	455
- Lamb and kid *2	(head)	47	30	1,410
- Milk	(kg)	85 1,848		
Dry yorgult *3	(kg)	277	2	554
Milk oil *3			5	555
Total				3,034
			Unit	
		Q'ty	Price	Amount
			(JD)	(JD)
II. Production Cost				
1) Labor 2) Feeds	person)	1.3	960	1,248
- Sorghum	(ton)	3.9	5.5	215
- Barley		5.7		342
- Bran		4.3		172
3) Vaccines: 3 times/year			0.27	27
4) Others *4	(neau)	100	0.21	200
2,				
Total				2,204
III. Net Income				830

^{*1} Farmers sale about 13% of total raising head.

100 heads x 56% - (100 heads x 9%) = 47 heads

Dry yorgult: 15% of milk Milk oil: 6% of milk

^{*2} Delivering rate: 56% of total raising head Mortality: 9%

^{*3} Conversion factors:

^{*4} Including grazing fee, water charge, etc.

Table 3.17 TYPICAL FARM BUDGET - PRESENT CONDITION

	Dhiban (JD)		Abyad (JD)		Tafila (JD)
Family size (persons) 8.7 Farm size (dunum/household) 82 Raising head of sheep and goats (head/household) 79		10.1 250 74		9.3 156 80	
I. Gross Income	5,424		5,762		5,035
1) Farm Income	4,484		4,642		4,405
(Crops) - Wheat (dunum) 60 - Barley (dunum) 2 - Other field crops *1	504 11	173 66	1,453 356	63 75	529 405
- Other field clops 11 (dunum) 3 - Olive (dunum) 6 - Other tree crops *2	29 306	3 2	29 19	3 8	29 408
(dunum) 3 - Vegetables *3 (dunum) 8	260 989	6 -	521	4 3	$\begin{array}{c} 347 \\ 260 \end{array}$
(Livestock) - Sheep and goats(head) 10 - Lambs and kids (head) 37 - Yorgoult (kg) 219 - Milk oil (kg) 88 - Wool (kg) 67	1,110 438 440 47	205	1,050 410 410 44	10 38 222 89 68	350 1,140 444 445 48
2) Non Farm Income	940		1,120		630
II. Gross Outgoings	5,376		5,712		5,043
1) Production Cost (Crops)	2,466		2,572		2,473
- Seed & seedlings - Fertilizers - Agro-chemicals - Labor cost - Farm machinery - Animals - Materials - Transportation cost - Miscellaneous (Livestock)	148 71 177 245 169 238 159		219 69 428 494 99 668		147 34 147 317 311 0 143 100 60
- Labor cost - Feeds - Vaccines - Miscellaneous	493 576 21 109		462 539 20 102		499 583 22 110
2) Living Expenses - Foods - Others	2,910 1,370 1,540		3,140 1,670 1,470		2,570 1,120 1,450
III. Net Reserve	48		50		-8

^{*1} Lentils and chick peas *3 Tomatoes, water melon, *2 Grape, apricot, peach, apple, etc. cauliflower, etc.

Table 4.1 Proposed Guideline for Land Use Planning

П			
	100<	Forest	
30 <	50-100	ē. O	
	0-20		
	100<	Fruit Trees by Stone Walls or Earth Banks	Natural Pasture
12 - 30	50-100	Barley Forage Legume (Fodder Shrub) by Stone Walls or Contour	
	0~20	Pasture	
	100<	Fruit Trees by Stone Walls or Earth Banks	
8 - 12	50-100	Field Crops by Stone Walls or Contour Furrow	Fodder Shrubs by Contour Furrow or Stone Walls
	0-20	Pasture	Natural Pasture
	100<	ops 12 ed 19)	Fruit Trees by Micro- Catch- ment
0 - 8	50-100	Field Crops (Mechanized Farming)	Fodder Shrubs by Micro- Catch- ment
	0-20	Pasture	Natural Pasture
	(cm)	al Rainfall 300 - 200 mm	200 - 100 mm
(%) adc	Soil Depth (cm)	Annual Rainfall 300 - 200	200 -
S1	So	An	

Land Development Potential of Dhiban According to Land Use Guideline Table 4.2

						Total (ha) 36,275	18,659 17,659 14,497	
(Unit: ha)	0-50 50-100 100<	5 3 3 3 8) K)					of Farmland, (iii)
000	Ĭ	0 600	378	5,975	3,390	And department of the control of the		, (ii) Extent
0-1		5 175 4 32 1 44	(4.			0	000	Total Area
2 - 12	50-100 100<	0 0 0 59 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25.5	3,075	1,407			indicate (i)
	0-50	150	2.5		1,30			each class
8 - 0	-1(3,225 3,069 156	141	75 16,150) r,	an fels relevant mental		figures in e
	0-20		17	3,650	1, 65			Four (4)
Slone (8)	ΙĞ	Annual Rainfall 300 - 200 mm		200 - 100 mm		100 - 50 mm		Remark:

Land Development Potential of Abyad According to Land Use Guideline Table 4.3

¥

									Total (ha)	יט ע	30,135	1	
Unit: ha)		>001 100<	00	00									1, (iii)
(Unit		0-50 50-100										тууду (Маймандар түүлүй түүтү	of Farmland,
		100<	00	00	4,500	206	3,442					**************************************	Extent
		1001-05		00								ARTYTY THE PROPERTY OF THE PRO	Area, (ii
	-	05-0		0 563 0 506						100	6,100 5,483	70.	i) Total
	12	50-100 100<	7.5	51	 2,225	233 1,995	1,795			6,	9	, 0	indicate (
	ł	0~-20	175	55 51	4,350	356	3,595	· · · · · · · · · · · · · · · · · · ·					ch class
		700<			 .5	1,901	`m`						es in eacl
	8 - 0	50-100		157	6,00	1,675	3,89						(4) figures
		0-20		13	δ,	5,082	4,573						Four (4
	Slope (%)	Soil Depth (cm)	Annual Raintall 300 - 200 mm		200 - 100 mm				100 ~ 50 mm				Remark:

Land Development Potential of Tafila According to Land Use Guideline Table 4.4

						Total (ha)	- 1 00	0,10	
Unit: ha)	50-100 100<	1,650	Vα						Farmland, (iii)
	05-0			 i					of
	100<	19	00	15,450	ഗഹ) Extent
12 - 30	50-100	9,325	, 64						Area, (ii)
	050	13,325	, ω ω ω ω						Total A
	100<	175	31 28				000	0	(£
8 - 12	50-100	3,250	ຠთ	825 487	ကဝ				sindicate
	0-20	1,150	₽ [~	600 225	~ ω				ch class
	100<			400 326	79				s in each
8 - 0	50-100	1,550	186	175	4 5 -				figures
	0-20	75	1 L	100	13				Four (4)
Slope (%)	Soil Depth (cm)	Annual kainiall 300 - 200 mm		200 - 100 mm		100 - 50 mm			Remark:

Four (4) rigures in each class indicate (1) Total Area, (11) Extent of Farmi Extent of Non-Farmland and (1v) Expansible Area from top to bottom in order.

Table 4.5 Proposed Land Use Plan

Area	Rainfall	Land Development Programme
Dhiban		
Phase-I	300-200 mm	 Field crop expansion to 140 ha on 0-8% slope Tree crops expansion to 250 ha on 8-12% slope and 320 ha on 12-30% slope by introducing earth banks
Phase-II	200-100-mm	 Expansion of tree crops to 5,900 ha of deep soils on 0-8% slope
		 Expansion of fodder crops to 1,400 ha of deep to moderately deep soils on 8-12% slopes
Abyad		
Phase-I	300-200 mm	1. Expansion of field crops to 190 ha on 0-12% slope
Phase-II	200-100 mm	 Expansion of tree crops to 3,200 ha of deep soils on 0-8% slopes
		2. Expansion of fodder shrubs to 3,900 ha on 0-8% and 1,800 ha on 8-12%
Tafila		
Phase-I	300-200 mm	1. Expansion of field crops with 990 ha on 0-12%
		2. Expansion of tree crops with 30 ha
		3. Expansion of barley and forage with 3,600 ha on 12-
Phase-II	200-100 mm	1. Expansion of tree crops with 70 ha
		2. Expansion of fodder shrubs with 350 ha on 0-120%

Table 4.6 DEMAND AND SUPPLY FORECASTS OF AGRICULTURAL PRODUCTS

(Unit: 1,000 t)

									(Unit	: 1,000 t)
		Demand			Supply	******	1995	Balanc	e	Warketa-
•	1995		2005	1995	2000	2005	1995	2000	2005	bility
FIELD CROPS										
PIELD CROPS 1 Wheat (grain) 2 Lentils 3 Vetch 4 Chick pea 5 Rice	456 4.9 3.0 17 90	552 5.5 3.0 22 110	648 5.9 3.0 27	3.1 1.3 1	81 3.1 1.2	81 3.1 1.1	-375 -1.8 -1.7 -16 -90	-471 -2.4 -1.8 -21 -110	-567 -2.8 -1.9 -26 -140	Å Å Å Å
TREE CROPS										
6 Olive (green) 7 Grape 8 Fig 9 Almond 10 Peach 11 Plum and Prune 12 Apricot 13 Pomegranate 14 Apple 15 Pear 16 Banana 17 Citrus 18 Quince	76 80 2.6 4.9 3.0 2.1 2.7 1.3 2.9 46 103 0.10	92 97 2.8 6.0 4.7 0.8 3.2 1.4 51 3.5 58 92 0.12	4.3 0.0 3.8 1.5	742 742 723 1.986 4.02 0.555 2.07	88 81 2.3 6.3 4.8 5 2.5 5 3.0 74 5 0.0 74 70 74 70 70 71	100 2.29 7.67 0.59 0.88 0.07	-2 -8 -0.3 -3.9 1.9 2.7 -2.1 1.1 -37 -2.6 9 182 -0.03	-4 -16 -0.5 -5.0 1.6 4.0 -2.7 0.6 -46 -3.2 16 223 -0.05	-8 -26 -0.8 -6.1 3.3 4.7 -3.3 0.4 -53 -3.8 276 -0.07	A B A C C C A B A A C C B
VEGETABLES										
19 Tomato 20 Squash 21 Eggplant 22 Cucumber 23 Potato 24 Cabbage 25 Cauliflower 26 Sweet Pepper 27 Okra 28 Lettuce 29 Water Melon 30 Onion (green & dry) 31 Snake Cuc. 32 Carrot 33 Sweet Melon 34 Peas 35 Mulukhiye 36 Garlic LIVESTOCK PRODUCTS	3-4956-495	336 74 97 110 74 29 40 111 120 92 10 12 47 4.0	4 23564623904290580 99138941.1421.715.	4 5 8 3 7 6 4 0 0 0 0 8 8 8 8 2 5 7 7 5 5 6 3 . 1 5 . 1 5 . 6 3 . 1 5 . 6 3 . 1 5 . 6 3 . 1 5 . 6 3 . 1 5 . 6 3 . 1 5 . 6 3 . 1 5 . 6 3 . 1 5 . 6 3 . 1 5 . 6 3 . 1 5 . 6 3 . 1 5 . 1 5 . 6 3 . 1 5 . 1 5 . 1 5 . 1 5 . 1 5 . 1 5 . 1 5 . 1 5 . 1 5 .	054422740708119570525 14129336.119570525 1.084.119570525	516670006061868575597 11868575597 11868575597	47 89	102 23	34	C C C C C A C B A C A A A C A A A
37 Red Meat 38 Broiler 39 Eggs (Million eggs)	74 87 650	95 110 830	117 135 1,030	8 87 550	8 105 580	8 122 610	-66 0 -100	-87 -5 -250	-109 -13 -420	Å Å
as offer furring effer	UJV	000	1,000	334	40V	010	-100	710	767	Λ

Remarks: A: High B: Moderate C: Low

Table 4.7 PLANTING DENSITY AND IRRIGABLE AREA

(Planting Density)

	01ives	***************************************	; ; ; ; ;	 	Grapes	1 5 5 5 6 7 6 7			Apples	6 1 1 1 1 1 1	
Crop water requirement(mm) Common planting density(plants/ha) Crop water requirement(ton/plant)	948 100 95		F & 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 6 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 7 7	1055 1100 10	F 1 1 1 1 1 1	t f i i i i	, 4 4 5 6 1 1	1320 100 132	1 1 1 1 1 1 1 1 1	• 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Annual rainfall(mm) average rainfall(mm) Runoff coefficient(%) Available water(ton/ha) Optimum planting density(plants/ha)	100-150 150-200 2 125 175 175 35 437.5 612.5 5 6	200-250 250 225 35 787.5	250-300 100-1 275 35 362.5 4:	125 125 35 37.5 44	150-200 175 175 35 612.5 61	200-250 225 35 787.5 79	250-300 275 35 962.5 96	100-150 35 437.5	150-200 175 35 612.5	200-250 250- 225 35 35 787.5 9	250-300 275 35 962.5
(Irrigable Area by Winter Irrigation)											
Site	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		JI	t t t t t	E1	: : : :	02		Abiad		t t t t t
Water Supply(return period of 2 year of Crop Water Requirement,tons Effective Rainfall,mm Irrigation Water Requirement,ton/ha Irrigable Area with 5 % Allowance,ha	year of low water*0.3),tons/ha	t 1	45000 780 204*0.85 12130	6 6 6 6 6 7 7	30000 227*0.85 11740	T T T T T T T T	102000 219*0.85 11880 8	 	370000 172*0.85 12680 20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ; ;

Table 4.8 crop Budget - FUTURE CONDITION (OLIVES BY WATER HARVESTING)

										Olives	ves														
		•	1	† 1 1 1	2	 	e e	1	4	Year	5.	9	1 1 1 1 1 1	7	1 1 1 1 1	80	1	6	10	1 1 1 1	11	12	: : : :	13-70	1 1 1
	Unit Price (JD)	Unit Price (JD)	0'ty (J	Q'ty Amt. (JD/ha)	0'ty Amt. (JD/ha)		Q'ty Amt. (JD/ha)		Q'ty Amt. (JD/ha)	i	Q'ty Amt. (JD/ha)	q'ty (.	Q'ty Amt. (JD/ha)	Q'ty Amt. (JD/ha)	wmt. (Q'ty Amt. (JD/ha)	(t)	Q'ty Amt. (JD/ha)	0'ty Amt. (JD/ha)	mt. Q //ha)	Q'ty Amt. (JD/ha)	. Q'ty a) (Q'ty Amt. (JD/ha)) _	('ty Amt.
I. Income/plant	(kg) 0.3	0.3	0	0.0	! ! ! !	0.0	: : :	0.0)	0.0	0.0	2.30	3,4	3.1	4.7	6.5 9.8	į	8.5 12.8	12.2 18.3	8.3	13 19.5	2 18	27.0	20,8	31.2
 Seedlings (pi Fertilizers/plant 	(piece) 0.50 plant	0.50	ż	2.5																					
× .	kg)	0.24	0.18	0.2	0.23	0.3	0.27	0.3		.4 0.35	35 0.4	0.39	0.5	0.42		0.46 0.6	6 0.49	9.0 6	0.53	0.6 0	0.53 0.6	6 0.53	0.6	0.53	9.0
- P205			0.09	0.1	0.12	0.1				0.2 0			0.3	0.3	0.4									0.45	
- K20			0.19	0.4	0.24	0.5		9.0	0.34 0		38 0.8		0.9	0.53										0.75	
3) Plowing	s)	2.4	-	2.4																					
4) Labour (man-day)	-day)																								
- Harvesting		S	0	0.0	0	0.0	0		0	0 0.0			0.6	.161	0.8 0		.7 0.442	2.2	0.635	3.2 0.	0.677 3.	4 0.937		1.083	5.4
- Hoeing&planting	nting	2.00	2	10.0	0.25	1.3	0.25	1.3	0.25 1	1.3 0.	25 1.3	0.25	1.3	0.25	1.3	0.25 1.	1.3 0.2	1.3		1.3 0	.25 1.3	3 0.25	1.3	0.25	
5) Materials				0.0		0.0			J	0.0	0.0		0.0		0.0	Ö	o,	0.0		0.0	Ö	0	0.0		O
- Fence	(E)	1.5	40	0.09																					
- Bags (40kg)		0.25	0	0.0	0	0.0	0	0.0	0	0.0	0.0	0.10	0.0	0.1	0.0	0.2 0	.1 0.2		0.3	0.1	0.3 0.	1 0.5		0.5	
- Boxes		0.25		0.0		0.0		0.0	_	0.1	0.0		0.0		0.0	0	0.	0.0		0.0	0	0	0.0		0
- Water	(tou)	0.1	2.4	0.2	2.4	0.2		0.0	_	0.0	0.0		0.0		0.0	o	0.	0.0		0.0	0.	0	0.0		Ö
fransportation(kg)	on(kg)	0.01	0	0.0		0.0		0.0	J	0.0	0.0	11.50	0.1	15.5		32.5 0	.3 42.5		61	9.0	65 0.	7 90		104	
Sub-total				75.9		2.4		2.3	- *	.5	2.7		3.7		4.2	τ.	ະເ	6.4		7.8	ထ်	0	9.6		10
7) Misc. cost, 5% of the above	5% of the	above		3.8		0.1		0.1	_).1	0.1		0.2		0.2	0	۳.	0.3		0.4	o.	4	0.5		Ö
Total				79.6		2.5		2.4	.7	5.5	2.8		3.8		4.4	5	5.8	6.7		8.2	8.4	4	10.1		11.0
III Net Income	(.1D/ha.)			-80 D		-3.0		-2.0	''	0	-3.0		0		0.0	4	0	6.0	,	0.0	ij	0	17.0		8

Table 4.9 crop budget - future condition (grapes by water harvesting)

										Grapes												
		3 2		# # # 	2	i i i i	; ; ; ;	1 1 1 1 1 1 1	t t t	Year	• • • • • • • • • • • • • • • • • • •	9	7	; ; ; ; ; ; ;	80	6	1 —— 1 b b b b b b b b b b b b b b b b b	10	11	12	13	13-15
* . V	Unit P	Unit Price Q'ty Amt. (JD) (JD/ha)	:'ty (30		q'ty (JD)	ty Amt. (JD/ha)	Q'ty Amt. Q'ty Amt. (JD/ha) (JD/ha)	:	0'ty Amt. (JD/ha)	Q'ty Amt. (JO/ha)	: _	ty Amt. (JD/ha)	0'ty A (30	mt. Q /ha)	ty Amt. (JD/h	0'ty A	nt. Q't /ha)	y Amt. (JD/ha)	Q'ty Amt. Q'ty Amt. Q'ty Amt. Q'ty Amt. Q'ty Amt. Q'ty Amt. (JD/ha) (JD/ha) (JD/ha) (JD/ha) (JD/ha)	0'ty Amt.) (JD/ha)	Amt. Q D/ha)	0'ty Amt. (JO/ha)
I. Income/plant II. Production Cost	(kg)	0.5	0	0.0	! ! ! !	0.0	[]] ! !	0.0	1.1 24.2	2.1 46.2	•	3.1 68.2	3.5 77.0	į	3.7 81.4	3.8 83.6		4 88.0	4 88.0 4.3 94.6	4.6 101.2	:	4.7 103.4
	(piece) 0.50 ant	0.50	44	22.0																		
**	(g)	3.24	0.01	0.1	0.03	0.3 (0.04	0.4 0.08	.08 0.8		1.3 0.1	13 1.4	0.14	1.5 0	.14 1.	5 0.15	1.6 0.1	6 1.7	0.16 1.7	0.16	1.7 0	0.16 1
- P205	(kg)	3.24	0.02	0.2	0.03	0.3		0.4 0	0.07 0.7		1.0 0.	0.09 1.0 0.1 1.1	0.11	1.2 0	.12 1.3	3 0.13	1.4 0.1	4 1.5	0.11 1.2 0.12 1.3 0.13 1.4 0.14 1.5 0.14 1.5	0.14	1.5 0	.14 I.5
Plowing	(hrs)	2.4	7	16.8																		
4) Labor(man-day/ha)	ha)																					
- Hoeing&planting		5.00	18	0.06	2.2		2.2	1.0	2.2 11.0	2.2 11	1.0 2.	.2 11.0	2.2 1	1.0	2.2 11.0	2.2 1	1.0 2.	2 11.0	2.2 11.0		11.0	
- Harvesting				0.0 0 0.0	0		0	0.00	0 0.0 0.252 1.3 (0.481 2	7.4 0.7	10 3.6	0.802	4.0 0.	347 4.7	0.870	1.4 0.91	6 4.60	0.481 2.4 0.710 3.6 0.802 4.0 0.847 4.2 0.870 4.4 0.916 4.6 0.985 4.9 1.054		5.3 1.077	5.4
5) Materials				0.0			-	0.0	0.0	J	0.0	0.0		0.0	0.0	_	0.0	0.0	0.0		0.0	
- Chemicals ((litre)	10			0.01	0.1	0.01	0.10	0.1 0.02 0.2	0.02).2 O.C	2.0 20	0.03	0.3 0	.03 0.3	3 0.03	0.3 0.0	4 0.4	0.2 0.02 0.2 0.03 0.3 0.03 0.3 0.03 0.3 0.04 0.4 0.04 0.4 0.04	0.04	0.4 0	0.04 0.4
- Fence	Œ.	1.5	~,	528.0																		
- Box(12kg) ((no.)	0.25	0	0.0		0.0	0	0.0 4.	0.0 4.033 1.0		1.9 11.3	36 2.8	12.83	3.2 13	.56 3.4	13.93	3.5 14.6	6 3.7 1	7.7 1.9 11.36 2.8 12.83 3.2 13.56 3.4 13.93 3.5 14.66 3.7 15.76 3.9 16.86	16.86	4.2 17.23	.23 4.3
	(tou)	0.1 21.12		2.1 2.		2.1																
6) Transportation(kg)		0.01	0	0.0		0.0	0	0.0	3.4 0.5	92.4 6	1.9 136.	4 1.4	154	1.5 16	2.8 1.6	167.2	1.7 17	5 1.8 1	39.2 1.9	202.4	2.0 206	.8 2
Sub-total			Φ	659.3		13.9	_	1.9	15.5	18	3.7	21.4	2	2.7	23.3	2	8.8	24.6	25.3		26.1	56
7) Misc. cost,5% of the above	of the a	bove		33.0		0.7	_	9.0	0.8	J	9.0	1.1		1.1	1.5		2.1	1.2	1.3		1.3	7
Total			69	692.29	ï	4.54	12	12,53	12.53 16.3	19.6	9.6	22.4	2	3.8	24.7	23.8 24.4 24.9	6.1	25.8	25.8 26.5 2	2	27.38	27.65
III. Net Income ((JD/ha.)		φ	-692.0	ì	-15.0	Ţ	-13.0	8.0	27	0.	46.0	r.	3.0	57.(<u> </u>	0.0	62.0	68.0		74.0	76

Table 4.10 CROP BUDGET - FUTURE CONDITION (APRICOTS BY WATER HARVESTING)

										Ą	Apricots															
		•	-	1 1 1 1	2	1	3		4	Υέ	Year 5	-	9	7	! ! ! !	80		6	1 5 1 1 1	10	11	i ! !	12	1	13-20	; ; ;
	Unit	Unit Price (JD)	4,t	Q'ty Amt. (JD/ha)	í	Q'ty Amt. (JD/ha)	10	Q'ty Amt. (JD/ha)	0	. ~	Q'ty Amt. (JD/ha)	t. Q't.	Q'ty Amt. (JD/ha)		Amt. JD/ha)	Q'ty Amt. Q'ty Amt. (JD/ha) (JD/ha)	Amt. D/ha)	Q'ty Amt. (JD/ha)	t. 0'	0'ty Amt. (JD/ha)	0'ty (,	Q'ty Amt. (JD/ha)	Q'ty Amt. (JD/ha)		0'ty Amt. (JD/ha)	Amt. JD/he
I. Income/plant	(kg)	(kg) 0.33	0	0.0	: : : :	0.0	: : : : : :	0.0	† † * *	0.0	6.8 6.7	ì	9 11.8	11.9 11.8 15.2 15.0		18.6 18.4	1	22.3 22.1	i	26.2 25.9	!	29.2 28.9	31.5	31.2	32.4	32.1
. —	(piece) 0.50 ant	0.50	m	1.5																						
2 +	(kg)	0.24	0.16	0.1	0.24			0.2		0.3						0.57							0.63		0.63	0.5
- P205	(kg)	0.24	0.09	0.1	0.14	0.1	0.19	0.1			0.28 0.2	.2 0.3	3 0.2	0.32	0.2	0.34	0.2	0.36 0.	0.3 0.	0.38 0.3	3 0,38	0.3	0.38	0.3	0.38	0.3
- K20	(kg)	0.40	0.13	0.2	0.19			0.3	0.32	0.4						0.45							0.5		0.5	0.6
3) Plowing	(hrs)	2.4		2.4																						
4) Labour (man-day/ha)	ay/ha)																									
- Harvesting		2	0	0.0	0		0	0.0	0	0.0		2 0.07	1 0.4	0.091	0.5	0.111	0.60	,133 0.	.7 0.1	57 0.8	1 0.175	0.9	0.189	0.9).194	7
- Hoeing&planting	ing	5.00	2	10.0	0.15	0.8	0.15	0.8	0.8 0.15	8.0	0.15 0.	.8 0.15	5 0.8	0.15	0.8	0.15	0.8	0.15 0.	.8 0.15	15 0.8	1 0.15	8.0	0.15	9.0	0.15	3.0
5) Materials				0.0				0.0		0.0		0	0.0		0.0		0.0	Ö	0,	0.0	_	0.0		0.0		0
- Chemicals	(litre)	10 0.005	300.	0.1	0.1 0.005		0.1 0.005	0.1	0.1 0.005	0.10.	0.005 0.	0.1 0.005	5 0.1	0.1 0.005	0.1	0.1 0.005	5 0.1 0.005	.005 0.	0.1 0.005	05 0.1	0.1 0.005	0.1 0.005	0.005	0.10	0.005	0.1
- Fence	(E)	1.5	24	36.0																						
- Boxes(12kg) (no)	(no)	0.25	0	0.0	0	0.0	0	0.0	0	0.0	1.7 0.	4 2.975		3.8		4.65	1.2 5	5.575 1.		6.55 1.6	7.3	1.8		2.0	8.1	2.(
- Water	(ton)	0.1	1.44	0.1	1.44			0.0				0					0.0					0.0		0.0		0
f) Transportation(kg)	(kg)	0.01	0	0.0	0	0.0	0	0.0	0		20.4 0.	.2 35.7		45.6		55.8		6.99		78.6 0.8	87.6	6.0		6.0	97.2	1.(
Sub-total				50.4				1.5		1.6	2.6	9	3.3		3.8		4.3	4.8	ထ္	5.3		5.6		6.0		9
7) Misc. cost, 5% of the above	of the	above		2.5		0.1		0.1		0.1	o.		0.2		0.2		0.2	0	.2	0		0.3		0.3		0
Total				52.951		1.512		1.543	-	.72	2.7	9,	3.47		3.98		4.47	5.6	03	5.59		5.91	9	5.279	~	5.398
III. Net Income	(JD/ha.)	_		-53.0		-2.0		-2.0	•	2.0	4.	0	8.0		11.0		14.0	17.	0.	20.0		23.0		25.0		26.0

Table 4.11 CROP BUDGET - FUTURE CONDITION (ATRIPLEX BY MATER HARVESTING)

									Atripiex									
			 	• • • • •	2	! ! ! !	i co	1 1 1 1 1 1 1 1 1	Year 5	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			6	10		12		13-30
į	#	Unit Unit Price (1'ty Amt. (1'ty Amt. (1'ty Amt. (10)) (10)/ha) (10)/ha) (10)/ha)	0'ty (J	Amt. D/ha)	0'ty Amt (JD/ha	0.4		0'ty Amt. (JD/ha)	1	Q'ty Amt. (JD/ha)	Q'ty Amt. (JD/ha) (JD/ha) (JD/ha) (JD/ha) (JD/ha) (JD/ha)	Q'ty Amt. (JD/ha)	0'ty Amt. (JD/ha)	Q'ty Amt. (JD/ha)	Q'ty Amt. (JD/ha)	0'ty (J	Amt. (D/ha)	(JD/ha)
# h-	I. Income/ha	(kg) 0.022	0	0.0 0	0 0.	0 65	0 0.0 650 14.3	650 14.3	650 14.3	650 14.3	650 14.3	650 14.3	650 14.3 650 14.3	650 14.3	650 14.3 650 14.3	650 14.3	;	650 14.3
	. rroduction cost 1) Seedlings (pie 2) Fertilizers/plant	(piece) 0.50 plant	313	156.5														
A47	2	(kg) 0.24															,	
, _	- P205 - K20	(kg) 0.24 (kg) 0.40	ഹ	1.2	5 1.2	ب.	5 1.2	5 1.2	5 1.2	5 1.2	5 1.2	5 1.2	5 1.2	5 1.2	5 1.2	ស	1.2	5 1.2
	3) Labour (man-day)	-day)																
	- Pitting	5.00	5.00 15.7	78.5														
	- Planting	5	6.3	31.5														
	Sub-total		-	267.7	-;	2	1.2	1.2		1.2		1.2	1.2	1.2	1.2		1.2	
	4) Misc. cost,5% of the above	% of the above		13.4	0.		0.1	0.1		0.1		0.1	0.1	0.1	0.1		0.1	
	Total		Ö	281.08	1.26	9	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26		1.26	1.26
111	III. Net Income	(JD/ha.)	Ī	-281.0	-	0	13.0	13.0		13.0		13.0	13.0	13.0	13.0		13.0	-

Table 4.12 WHEAT BUDGET

		Irr	igated	Rainf	ed
I. Gross Income - Unit yield - Unit price - Gross income	(JD/t)				1.8 140 252
Unit			Amount JD/ha)	Q'ty 2	Amount JD/ha)
II. Production Cost					
, , , , , , , , , , , , , , , , , , , ,	0.14	80	11.2	80	11.2
2) Fertilizers		4.00			
- Compound, DAP (kg) 3) Agro-chemicals	0.11	420	46.2	90	9.9
- Herbicides (lit.)	2.75	1	2.75	1	2.75
5) Farm machinery	2473	_	2.75	20.	2.,,
- Plowing (ha)	10.00	1.0	10	1	10
- Drilling (ha) - Spraying (ha)	9.00	1.0	9		9
- Spraying (ha)	7.50	1.0	7.5	1	7.5
- Harvesting (ha)	12.50	1.0	12.5	1	12.5
7) Materials			0		0
- Bags (100kg,piece)	0.25	35	8.75	18	
8) Transportation (kg)	0.01	3500	35	T800	18
Sub-total			142.9		85.35
9) Misc. 5% of the above			7.145	•	4.2675
Total			150.05		89.62
III. Net Income (JD/ha)			339.96		162.38

Table 4.13 CROP BUDGET - FUTURE CONDITION (OLIVES BY CHECK DAM)

										01 ives															
		i			2	i 1 1 1	m	1	4	Year 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9	1 1 1 1	7	† 1	8	; ; ;	6	1 +	10	11	4 1 1 3 5	12		13-20
	Unit Price (JD)	Unit Price Q (JD)	0'ty (J	Amt. (JD/ha)	0'ty Amt. (JD/ha)	i	Q'ty Amt. Q'ty Amt. (JD/ha) (JD/ha)	t. 0't	Q'ty Amt. (JD/ha)	Q'ty Amt. (JD/ha)	i	Q'ty Amt. (JD/ha)	<u> </u>	Q'ty Amt. (JD/ha)	_	Q'ty Amt. (JD/ha)	Q't	Q'ty Amt. (JD/ha)	0 (Q'ty Amt. (JD/ha)	-	ty Amt. (JD/ha)	Q'ty Amt. (JD/ha)		0'ty Amt. (JD/ha)
I. Income/plant	(kg) (0.3	0	0	1 1 1 1 1 1	0	! ! ! ! !	0	0	: 	0	2.3	197	3.1 2	266 6	6.5 558		8.5 729	į	12.2 1047	13	13 1115	18 1	1544 2	20.8 1785
 1) Seedlings (pi 2) Fertilizers/plant 	(piece) 0.50 lant		286	143																					
	kg)	0.24 0	0.18	12	0.23	16 0	0.27	19 0.31	1 21	0.35	24	0.39						19 34			0.53	36	0.53		.53
- P205			0.09	9	0.12	8		10 0.18	8 12	0.2	14	0.25	17	0.3	21 0.	0.35 2	24 0.4		7 0.45	5 31	0.45		0.45		0.45
- K20	(kg) 0		0.19	22	0.24	27 0		33 0.34	4 39		43	0.45					69 0.6				0.75	98	0.75		.75
3) Plowing	(ha)	01		10																					
4) Labour (man-day)	fay)			0																					
- Harvesting		22	0	0	0	0	0	0	0 0	0	0		34 9.235		46 19.36		25		7 36.34		38.72	194 5		268 61	96.
- Hoeing&planting		5.00 5	5.72	62	20	100	20 10	100 20	0 100	2	100	20	100		8	20 100		20 100) 20	0 100	20	100	20	100 20	20
5) Materials				0		0		0	0		0		0		0		0	J	_	0		0		0	
- Fence	Œ	1,5 1	1040	1560																					
- Bags(40kg)	0	0.25	0	0	0	0	0	0	0 0	0	0	16.4	4	22.2	9 46	46.5 1	12 60.8		5 87.2	2 22	93	23 1	128.7	32 14	8.7
- Boxes	0	.75		0		0		0	0		0		0		0		0	0	_	0		0		0	
- Water	(ton)	0.1 137.2	37.2	14 1	137.28	14		0	0		0		0		0		0	J	_	٥		0		0	
f) Transportation(kg)		0.01	0	0	0	0	0	0	0 0	0	0	0 657.8	7 88	986.6		1859 1	9 2431		3489	. 35	3718		5148	51 59	
Sub-total				1796		165	7	162	173		181		241	2	17.	35	2,	405	.~	492		207		604	
7) Misc. cost,5% of the above	of the ab	ove		80		œ		∞	6		6		12		14	Proof	80	35	_	25		52		39	
Total				1886		173	H	170	181		130		253	2	284	369	6	425	, -	516		532		635	692
III. Net Income	(.10/ha.)			1886	ı	-173	-170	0,0	-181		-190	•	-55	1	18	18	œ	304		531		583		910	-

Table 4.14 CROP BUDGET - FUTURE CONDITION (GRAPES BY CHECK DAM)

									G	Grapes														
		1	-	‡ † † 6 6 6	2			4	χ,	Year 5	† !	9	7	1 † 1 †	80	i t !	6	10			12	• • • • •	13-15	1
1	Unit Unit Price (JD)	•	0'ty	Amt. (JD/ha)	Q'ty Amt. (JD/ha)	unt. q 'ha)	Q'ty Amt. Q'ty Amt. Q'ty Amt. (JD/ha) (JD/ha) (JD/ha)	. Q'ty) (JD	1	0'ty Amt. (30/ha)	ď	Q'ty Amt. (JD/ha)	0'ty Amt. (JD/ha)	1	Q'ty Amt. (JD/ha)		Q'ty Amt. (JD/ha)	0	Q'ty Amt. (JD/ha)	0'ty Amt. (JD/ha)	· ~	0'ty Amt. (3D/ha)	Q'ty Amt. (JD/ha)	y Amt. (JD/ha)
I. Income/plant	(kg)	0.5	0	0	: 6 6 6 8 8	0		0 1.1 1375	1375	2.1 2625	1	3.1 3875	3.5 4375	4375	3.7 4625	1	3.8 4750	1 1 1	4 5000	4.3 5375	75 4.6	5750	4.7	5875
 Production Lost Seedlings (piet) Fertilizers/plant 	t (piece) 0.50 2500 plant	0.50	2500	1250																				
2		0.24	0.01	9	0.03	18		24 0.08	48		72 0.13	3 78	0.14	84	0.14	84 0	.15 90		96		96 0.16	96	0.16	96
- P205	(kg)	0.24	0.02	12	0.03	18 0	0.04 24	24 0.07	42 (0.09	54 0.1	1 60	0.11	99	0.12	72 0	0.13 78	0.14	84	0.14	84 0.14	84	0.14	84
3) Plowing	(hrs)	01		10																				
4) Labor (man-day)	-day)																							
- Hoeing&planting		5.00 5.72	5.72	53	20	100	20 100	0 20	100	20 10	100 20	0 100	20	100	50	88	20 100	20	100	20 1	100 20		20	100
- Harvesting		5	0	0	0	0	0	0 14.3	72 27	27.34 137	37 40.36	202	45.57	228 48.17		241 49	49.47 247	52.08	260	55.98 2	280 59.89		299 61.19	306
5) Materials				0		0		0	0		0	0		0		0	0		0		0	0		
- Chemicals	(litre)	20	0.3	ĸ	0.3	3	0.3	3 0.5	'n	0.5	5 0.5	5 5	0.8	∞	8.0	ω	0.8 8		2		10 1	10	••	2
- Fence	(E)		1040	1560																				
- Box(12kg)		0.25	0	0	0	0	0	0 229.	57 43	437.5 10	109 645.8		161 729.1	182 770.8		193 791.6		198 833.3	208 895.8		224 958.3		240 979.1	245
- Water	(ton)	0.1	1200	120	1200	120																		
f) Transportation(kg)		0.01	0	0	0	0	0	0 2750	82	5250 5	3 7750	0 78	8750	88	9250	93 9	9500 95	95 10000		100 10750 1	108 11500	115	11750	118
Sub-total				2990		259	151	,	351	ភ	530	684		756		770	816				901	944		958
7) Misc. cost,5% of the above	s of the a	bove		149		13		8	18	.~	9	34		33		39	41		43		45	47		48
Total				3139		272	159	6	369	ਨੇ	99	718		793	w	809	857		902	6	946	991		1006
III. Net Income	(JD/ha.)			-3139	1	-272	-159		1006	2069	6	3157		3582	*	3816	3893		4098	44	4429	4759		4869

CROP BUDGET - FUTURE CONDITION (APRICOTS BY CHECK DAM) Table 4.15

										Aprí	Apricots															
			1	!	2	1	3	; ; ; ;	4	Year	ນດ	9		7	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	8	1	6		10	11		12		13-20	!
5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Unit	Unit Price (JD)	0'ty (Amt. (JD/ha)	0'ty Amt. (JD/ha)	1	Q'ty Amt. Q'ty Amt. (JD/ha) (JD/ha)	mt. Q' ha))'ty Amt. (JD/ha)	,0	0'ty Amt. (JD/ha)	0	_	Q'ty Amt. (JD/ha)	1	0'ty Amt. (JD/ha)	٥ (0'ty Amt. (JD/ha)	,0 (Q'ty Amt. (JD/ha)	0,	ty Amt. (JD/ha)	Q'ty Amt. (JD/ha)]	Q'ty (JD	ty Amt. (JD/ha)
I. Income/plant	(kg)	0.33	0	0	; ; ; ;	0		0	 	0 6.8	8 642	1	11.9 1123	15.2 1435	:	18.6 1755	i	22.3 2105	1	26.2 2473	t t	29.2 2756	31.5	2973	32.4	3058
1) Seedlings (pi	(piece) 0.50	0.50	286	143																						
× -	(kg)	0.24	0.16	11	0.24	16	0.32	22 0	0.4	27 0.4	7 32		34	0.53		0.57	39 (3 43		36	0.63		0.63	ਵਾ
- P205	(kg)	0.24	0.0	9	0.14		0.19			16 0.28			21	0.32		0.34	23 0.	0.36 25	5 0.38		0.38	92	0.38		0.38	56
- K20	(kg)	0.40	0.13	15	0.19	22	0.25	29 0.32		37 0.3	8 43		46	0.43	49	0.45		48 55		5 57		57	0.5		0.5	ίci
3) Plowing	(hrs)	10	-	얶																						
4) Labour (man-day)	-day)																									
- Harvesting		5	0	0	0	0	0	0	0	0 3.889		908-9	34	8.694	43 1	10.63	53 12.	12.75 6	4 14.9		16.70		84 18.01	90 18.53	8.53	93
- Hoe ing&planting	nt ing	5.00	5.75	53	20	100	50	100	20 10	100 2	20 100	20	100	20	100	20 1		20 100	100 20		100 20	100	50	100	20	100
5) Materials				0		0		0		0	0		0		0		0	0	0	0		0		0		0
- Chemicals	(litre)	10	0.25	m	0.38	4	0.5	5 0.	0.63	6 0.75	5	0.79	ထ	0.84	æ	6.0	9	0.95 10	0	1 10		10	-	10	~	2
- Fence	Œ	1.5	1040	1560																						
- Boxes(12kg) (no)	(ou) (0.25	0	0	0	0	0	0	0	0.162.0	0 41	283.6	71	362.2	91 4	443.3 1	111 531.4		133 624.4		156 695.9	174 750.7	7:05	188 772.2	72.2	193
- Water	(ton)	0.1	0.1 137.2	14	14 137.28	14		0		0	0		0		0		0		0			0		0		0
f) Transportation(kg)	on(kg)	0.01	0	0	0	0	0	0	0	0 1944.		3403.	34 4		43 5.	5319.	53 6377.		4 7493		8351.	84	6006	6 06	266.	66
Sub-total				1790		165		169	≅	187	282		348		393	4	440	49.	491		542	571		604		615
7) Misc. cost, 5% of the above	5% of the	above:		83		ထ		ထ		6	14		17		22		22	3	Z.			29		8		į,
Total				1879		174		177	===	196	296		365		413	4	29	51	ĸ			599		635		64
III. Net Income	(JD/ha.)	•		-1879	•	-174	ı î	-177	-196	90	346		758	-	1021	12	93	1589	6			2157		2338		2412

Table 4.16 CONSTRUCTION COST

No.Work			Q'ty	Unit Price	Amount
(1) D-2	Weir	(0)	000	3	070
II.	1. Excavation 2. Masonry Apron	$\begin{pmatrix} m3 \\ m3 \end{pmatrix}$	290 190	$\overset{3}{60}$	11,400
	1. Excavation 2. Concrete	$\begin{pmatrix} m3 \\ m3 \end{pmatrix}$	240 75	$\begin{smallmatrix} & 3\\70\end{smallmatrix}$	$\begin{smallmatrix}720\\5,250\end{smallmatrix}$
III.	Intake 1. Excavation 2. Concrete	(m3) (m3)	300 70	3 70	900 4,900
IV.	Miscellaneous	L.S.			4,810
	Total	offs 1000 tons were unit 00% that the M	other database below drough secure which become use		28,850
(2) _I E-1	Weir Weir				
	1. Excavation 2. Masonry	(m3) (m3)	180 115	3 60	6,900
II.	Apron 1. Excavation 2. Concrete	(m3) (m3)	130 72	$7\overset{3}{0}$	390 5,040
III.	Intake 1. Excavation 2. Concrete	(m3) (m3)	260 50	$\frac{3}{70}$	780 3,500
IV.	Miscellaneous	L.S.			3,430
	Total				20,580
(3) _J -1	Weir Weir				
	 Excavation Masonry Embankment 	(m3) (m3) (m3)	300 155 170	3 60 5	900 9,300 850
II.	Apron 1. Excavation 2. Concrete	(m3) (m3)	180 70	$7\overset{3}{0}$	540 4,900
III.	Intake 1. Excavation 2. Concrete	(m3) (m3)	180 50	70	540 3,500
IV.	Miscellaneous	L.S.			4,110
	Total				24,640
(4) Aby:	ad Weir Weir				
II.	1. Excavation 2. Masonry Apron	(m3) (m3)	480 250	3 60	$1,440 \\ 15,000$
	1. Excavation 2. Concrete	${m3 \atop m3}$	450 256	$7\overset{3}{0}$	$\begin{array}{c} 1,350 \\ 17,920 \end{array}$
III.	Intake 1. Excavation 2. Concrete	(m3) m3)	730 126	3 70	2,190 8,820
IV.	Miscellaneous	L.S.			9,340
	Total				56,060

Table 4.17 ANNUAL DEVELOPMENT AREA

			First Phase	hase		౫	Second Phase					Annuë	Annual Development Area	pment A	rea			
	Field	Fruit	fixture	Fodder	1 1 1		odder	Ground	1 1 1 1 1 1		First Phase	1Se	1	1	Sec	Second Phase	. 0	; ; ;
	(ha)	(ha)	(ha)	(ha) (ha) (ha)	lota 1	(ha)	(ha)	1		2				9	7	0	6	10
Development by Individual Farmers 780 465.9 2,190	780	465.9	2,190	٠,	- 3,435.9 5,450	5, 450	- 5,450	8,886	708.3	674.4	674.4	684.4	694.4	1,090	1,090	1,090	1,090	1,090
1) Water Harvesting Measures - Micro-catchment - Stone Walls/Earth Bank - Stone Walls/C. Furrow 2) Mechanized Farming 3) Check Dam 4) Winter Irrigation	510 270 (33.9)*	150 210 - - 72 33.9	2,190	1 1 1 1 1	150 210 2,700 72 33.9	5,450	5,450	5,600 2,700 2,700 72 33.9	30 40 540 50 14.4 33.9	30 40 540 50 14.4	30 40 540 50 14.4	30 40 540 60 14.4	30 50 540 60 14.4	1,090	1,090	1,090	1,090	1,090
Development by the Government	ı	•	F	2,240	2,240	1	2,240 2,240	4,480	450	450	450	450	440	450	450	450	450	440
 Mater Harvesting Measures Micro-catchment Stone Walls/C. Furrow 	1 1	1 1	1 1	1,190	1,190) ;	1,190 1,190 1,050 1,050	2,380	240 210	240 210	240 210	240 210	230	240 210	240 210	240 210	240 210	230
Whole Area	780	780 465.9		2,190 2,240 4,625.9 5,450	,625.9	_	2,240 7,690	13,365.9	1,158.3 1,124.4 1,124.4	,124.4		1,134.4 1	1,134.4	1,540	1,540	1,540	1,540	1,530
 Mater Harvesting Measures Micro-catchment Stone Walls/Earth Bank Stone Walls/C. Furrow Mechanized Farming Check Dam Hinter Irrigation 	510 270 (33.9)*	150 210 - - 72 33.9	2,190	2,190 1,050	1,340 2,700 2,700 72 33.9	5,450 1 - 1 - 1	1,190 6,640	7,980 210 4,800 270 72 33.9	270 40 750 50 14.4 33.9	270 40 750 50 14.4	270 · 40 · 750 · 50 · 14.4	270 40 750 60 14.4	260 50 750 60 14.4	1,330	1,330	1,330	1,330	1,320

Table 5.1 INTERNAL RATE OF RETURN FOR CROP PRODUCTION SCHEME (DEVELOPMENT BY INDIVIDUAL FARMERS)

(Unit: JD 1,000)

			esting				Winte	r Irr	igation	Farm M	lechan	ization*3	Wh	ole A	rea
Year*1	Cost	0&M		Cost	0&M	Benefit	Cost	0&M	Benefit	Cost	0&M	Benefit	Cost	M&0	Benefit
4			_				199.4						199.4		
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	-	٠ _	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	_	_			-		_	_	-	_	-	(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	2		3.98			0.70			1.41						2.45

^{*1 1}st 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 5.2 INTERNAL RATE OF RETURN FOR FODDER SHRUBS -DEVELOPMENT BY THE GOVERNMENT

(Unit: JD 1,000)

	Mic	ro-cat	chment	Stone	Walls/C	. Furrow	 T	otal A	rea
Year*1	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 *:									-2.50
510 ".									-2.20

^{*1} lst year = initial year in Phase-I stage *2 Discount Rate: 10%

Table 5.3 INTERNAL RATE OF RETURN FOR WHOLE PROJECT

(Unit: JD 1,000)

1	Food Cro by Indi	op Deve vidual	lopment Farmers	Fodder Si	nrub De Governm	velopment ent		dhole /	Area
Year*1	Cost	0&M	Benefit	Cost	0&M	Benefit	Cost	M&0	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 13	61.0 61.0	0.7 0.7	398.5 435.6	38.6 38.6	-	-115.5 -110.3	99.6 99.6	0.7 0.7	283.0 325.3
13 14	61.0	0.7	474.8	38.6	-	-110.3	99.6	0.7	369.6
15	61.0	0.7	518.4	38.6	_	-100.1	99.6	0.7	418.3
16	01.0	0.7	859.5	30.0	_	32.3	JJ.U	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	<u></u>	-	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 43	-	-	632.4		-	15.4	-	-	647.8
	-	-	632.4	_		10.3	-	-	642.7
44 45	-	-	632.4 632.4	_	_	5.1	-	-	637.5
	-		032.4	-	_	-	-	_	632.4
:	:	:		:	:	:	:	:	:
75	.	-	632.4	-	-	-		-	632.4
IRR			20.24			-1.40			15.58
B/C *2			2.45			-2.50			1.92

^{*1 1}st year = initial year in Phase-I stage *2 Discount Rate: 10%

Table 5.4 (1/3) CASH FLOW STATEMENTT - NATER HARVESTING MEASURES

10.0 ha (Micro-catchment)
1 2 3 4 5
3,233 62 745 691 771
3,233 62 745 771 946
2.7 3.0 5.0
1.3 1.7 2.3 3.7 4.7 2.0 2.0 2.3 3.0 3.7 4.3
f t
293.3 34.7 34.7 34.7 34.7
1 1
1.7
712
3,233 62 745 771 946
0 0 0 0 0

* Year after planting

Table 5.4 (2/3) CASH FLOW STATEMENTT - WATER HARVESTING MEASURES

AREA: 10.0 ha (Sto	10.0 ha (Stone Walls/Earth Bank/Contour	th Bank,		Furrow)	క	Construction Cost (JD/ha):	on Cost	(JD/ha):	120						(Unit	(Unit: JD)
Year*		2	က	4	က	9	7	60	6	10	11	12	13	14	15	16-70
I. GROSS INCOME 1) Fruits 01ives Grapes Apricots 2) Loan	3,873	29	884	80	153 22 940	12 227 39 1,032	16 257 50 1,198	33 272 61 1,385	43 278 74 784	61 293 86 1,035	65 315 96 812	90 337 104 585	104 345 107 361	104 345 107 138	104 345 107	104
Total II. GROSS OUTGOING	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
A. Construction Cost	1,200.0	ı	\$	1	1	1	1	i	1	ŧ	į	t	\$	ŧ	t	i
ĔΩċ	86.7	0.6	ı	i	1	1	•	t	1	ŧ	3	i	ŧ	ı	1	ŝ
2) rertiizers - N - P205 - K20	1.3	2.7	3.0	3.7	6.7	5.3	9.0	6.3	7.3	9.3	9.3	9.3	9.3	9.3	9.3	3.7
3) Plowing	72.0		1	1	1	: ') }		. 1				. 1	'	1	
	293.3	34.7	34.7	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 5.3
	2,080.0	0.7	0.7	1.0	1.0	0.3	1.3	1.3	1.3	1.7	1.3	1.7	2.3	2.3	2.3	2.3
- Mater 6) Transportation 7) Miscellaneous C. Loan Repayment	8.0	3.0	2.2 838	1.7 2.8 851	3.5 3.5 1,042	6.3 4.2 1,222	7.3 4.6 1,425	8.3 4.9 1.648	9.3 5.2 1,069	10.7 5.7 1,356	11.7 5.8 1,165	12.7 6.3 985	13.7 6.4 782	13.7 6.4 559	13.7 6.4 300	6.7
Total	3,873	9	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

* Year after planting

Table 5.4 (3/3) CASH FLOW STATEMENTT - WATER HARVESTING MEASURES

AREA: 10.0 ha	10.0 ha (Stone Walls/Earth Bank/Contour	la]]s/Ear	th Bank/	/Contour	Furrow)	క	Construction Cost (JD/ha):	on Cost	(JD/ha):	120						(uni	(Unit: JD)
Year			2	m	4	S.	9	7	ထ	6	10	11	12	13	14	15	16-70
I. GROSS INCOME 1) Field Crops/Mixtur 2) Loan	os/Mixtur	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
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	ca																
A. Construction Cost	یہ	1,200.0	t	1	1	ı	1	t	ŧ	à	;	1	1	ŧ	ı	1	•
1) Seedlings	180	ì	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
Compound, OAP	d, OAP	i	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
	des	i	28	28	82	28	28	58	28	28	28	28	28	58	28	28	28
4) rafin nach mery - Plowing - Drilling	<u> </u>	\$ 1	001 09.	100 90 14	100 260 34	90	98 %	98 2	99 4	100 90 75	100 90	95 198 198	901 902 x	100 90 35	100 90 75	100 90 37	100 90 75
- Spraying - Harvesting	g ing	1 1	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
by naterials Bags		ı	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
6) Transportation7) MiscellaneousC. Loan Repayment	ation eous nt	1 1 1	180 43.0	180 42.7 260	180 42.7 260	180 42.7 260	180 42.7 260	180 42.7 260	180 42. 7 260	180 42.7 0	180						
Total		1,200	897	1,157	1,157	1,157	1,157	1,157	1,157	897	897	897	897	897	897	897	897
III. NET INCOME		0	1,623	1,363	1,363	1,363	1,363	1,363	1,363	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623

* Year after planting

Table 5.5 CASH FLOW STATEMENT - CHECK DAM

AREA: 0.3 ha (Area of one site)	of one site	<u> </u>													(Em	Unit: JD)
Year*	T	2	m	4	Ϋ́	9	7	8	6	10	11	12	13	14	15	16-70
I. GROSS INCOME 1) Fruits 0) ives Grapes Apricots	1 1 1 C	1115	ι ι ι α α	138	263 64	20 388 112	27 438 144 805	56 463 176	73 475 211	105 500 247	112 538 276 186	155 575 297	179 588 306	179 588 306	179 588 306	179 0 306
r) com	3,810	74	898	808	1,124	1,317	1,504	1,691	1,074	1,289	1,111	1,027	1,073	1,073	1,073	485
II. GROSS OUTGOING																
A. Construction Cost	3,120	ŧ	i	1	1	ş	1	ı	ı	i	i	ŧ	1	ŧ	ı	t
	154	16	1	1	t	ı	ı	1	ı	à	1	1	1	t	1	1
	m	5	9	10	13	14	15	16	17	18	18	18	18	18	18	8
- P205	2*	egr L	ro c	~ 0	о	23	Ξ:	12	13	7.	14	14	7,4	14	7:	9
	et (S.	٥	œ	מכ	<u></u>	-	7.5	73	14	14	14	<u>14</u>	1	14	14
3) Piowing 4) Labour	173	ŧ		1	i	ŧ	1	1	1	ŧ	1	ŧ	1	t	1	1
		ŧ	1	9	13	22	25	31	35	41	45	53	57	27	27	32
	7	24	24	24	24	24	24	24	24	24	24	24	54	24	24	16
5) Materials	460															
	9,+	1 -	1 +		i +	٠.	s (ı C	1 5	1 6		10		ı c		
Bace (ANVa)	-4		-	⊣	- -;	⊣ ⊂	7 -	7 -	76	70	76	~ ~	7 =	7 W	~	⊣
	1	•	1	1 42	י ט	2 5	, C	7 C	2 6	7 2	4 5	, ,	7	r 💎	† «	t ç
1 UOACS	i ř	i ř.	. 1)	3 '	3 '	7	3 1	J ,	2	⊋ †	<u>}</u> '	F '	F •	; '	CT 1
<u>,</u>	} '	1		CC.	7	12	14	17	<u>~</u>	. "	23	36	77	27	77	Ť.
7) Miscellaneous	33	4	2	. W	. ic	9	_		္ထ	; 0	g con	10	2	2	2	9
Ō	ı		824	840		1,195	1,367	1,539	606	1,108	920	753	581	409	215	í
Total	3,810	74	898	806	1,124	1,317	1,504	1,691	1,074	1,289	1,111	096	795	623	429	121
III. NET INCOME	0	0	0	0		0	0	0	0	0	0	29	278	450	644	364
	; ; ; ; ;	1	; ; ; ; ;	1	i 1 1 1 1	 	1 1 1 1 1	! ! ! !	! ! ! !	: : : : :	! ! !	! ! ! !	1	1 1 1 1	1	1

* Year after planting

Table 5.6 CASH FLOW STATEMENT - WINTER IRRIGATION

AREA:	33.9 ha (Whole Area)	e Area)														(Unit: JD)	
	Year*		2	33	4	5	9	7	8	6	10	11	12	13	14	15	
I. GROSS INCOME 1) Fruits Olivee Grape: Apric 2) Field Cl 3) Loan	Fruits of Olives Grapes Apricots Field Crops	277,223	11,519	11,519	15,538 11,519 40,456	29,663 7,232 11,519 33,112	2,237 43,788 12,679 11,519 23,103	3,017 49,438 16,227 33,433	6,305 52,263 19,843 30,459	8,238 53,675 23,787	11,831 56,500 27,934	12,611 60,738 31,143	17,459 64,975 33,595	20,171 66,388 34,567	20,171 66,388 34,567	20,171 66,388 34,567	
T. II. GROSS	Total II. GROSS OUTGOING	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	54,738
A. Cons	Construction Cost	199,400	' 1	ı	1	ı	t	ı	t	ı	i	ŀ	1	ŀ	ı	t	
	Seedlings	17,357	1,752	•	i	ŧ	ı	ı	ı	1	1	1	ŧ	ı	ı	1	
17	- N	328 271 418	576 407 565	723 531 701	1,085 802 859	1,446 983 994	1,571 1,107 1,107	1,684 1,232 1,243	1,752 1,345 1,367	1,865 1,469 1,503	1,978 1,593 1,616	1,978 1,593 1,616	1,978 1,593 1,616	1,978 1,593 1,616	1,978 1,593 1,616	1,978 1,593 1,616	-
33	Plowing	339	1	1	ı	ı			•	ı	1	;	į.				
	cabbui - Harvesting - Hoeing Materials	780	2,712	2,712	644 2,712	1,413 2,712	2,452 2,712	2,870 2,712	3,537	3,955 2,712	4,678 2,712	5,040 2,712	5,944 2,712	6,396	6,396	6,396 2,712	3,639 1,808
	Fence Chemicals	52,884 68	79	06	124	147	147	181 68	192	203	226	226	226	226	226 418	225 418	
		. 1673	1 673		644	1,706	2,633	3,085	3,435	3,740	4,113	4,497	4,836	4,949	4,949	4,949	2,181
(9) (2)	Transportation Miscellaneous	3706	388	238	316 359	814 511	1,345 656	1,593	1,865	2,068 884	2,373	2,588 1026	2,904 1109	3,062 1148	3,062 1148	3,062 1148	
C. Loan	8) O&M Cost Loan Repayment	1 1	1 1	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	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
											:						

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* Year after planting

Table 5.7 CASH FLOW STATEMENTT - FODDER SHRUB PRODUCTION SCHEME

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Fu	Walls/Ean	rth Bank/	Contour	Furrow)	Cor	Construction Cost		(JD/ha):	120						(Unit: JD)	(ar :
	Year		2	6	4		9	7	8	6	10	11	12	13	14	15	16-30
1. GROSS 1 1) Fc 2) Gc	I. GROSS INCOME 1) Fodder Shrubs 2) Government Budget* 3,780	* 3,780	268	143	143	143	143	143	143	143	143	143	143	143	143	143	143
ĭ	Total	3,780	897	143	143	143	143	143	143	143	143	143	143	143	143	143	143
II. GROSS OUTGOING	OUTGOING																
A. Const	truction Cost	1,200.0	1	ŧ	ı	1	ı	t	ı	ı	1	;	ì	ŧ	ı	i	4
1) Se	1) Seedlings 2) Fertilizers	1,565	155	ŧ	t	1	ı	1	í	ı	1	;	•	F	1	1	i
•	" N " D205	, <u>C</u>	1.5	: 61	. 61	, 5	1 6	٠ 5	15	1 5	1 0	٠ ئ	, 5	; 6	1 6	15	١ 5
1 1	- K20	77	17	7 :	71	71	7 +	71	7 -	77	7 1	77	77	J 1	77	7 1	71
3) [f	3) Labour - Pitting	628	64	ŧ	1	•		1	•	,	1	1			ı	,	ı
7) M	 Planting Miscellaneous 	252 123	24 13	1 ~	; , - 4	ı ~	1	1	: 4	3 4-4	j pro-1	j swi	l =4	1 🗝	1	ı ==	l est
	Total	3,780	268	13	13	13	13	13	13	13	13	13	13	13	13	13	13
III. NET INCOME	INCOME	0	0	130	130	130	130	130	130	130	130	130	130	130	130	130	130

* 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 5.8 (1/3) PROFIT AND LOSS STATEMENTT - WATER HARVESTING MEASURES

Grabes	AREA:	10.0 ha (Micro-catchment)	atchment		Co	nstructi	struction Cost (JD/ha):	(JD/ha):	. 56						:		m)	(Unit: JD)
Cost*2 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0		Year*1		2		4	ç	9	7	æ	6	10	11	12	13	14	15	16-70
Cost*2	I. GROSS	INCOME ruits Olives Grapes Apricots	1 1 1	1 1 4	1 1 1	80	153 22	12 227 39	16 257 50	33 272 61	43 278 74	61 293 86	65 315 96	90 337 104	104 345 107	104 345 107	104 345 107	104 0 107
Cost*2		[ota]	0	0	0	80	175	278	323	366	395	440	476	531	556	556	556	211
on Cost*2	11. GROSS	5 OUTGOING																
gs		reciation Cost*2	3	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
sting 1.3 2.7 3.0 5.0 2.0 2.3 3.7 2.3 3.7 2.3 3.7 2.0 3.7 2.0 3.7 2.0 3.7 2.0 3.7 2.0 3.7 2.0 3.7 2.0 3.7 2.0 3.7 2.0 3.7 2.0 3.7 2.0 2.0 2.0 3.7 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		Seedlings	86.7	0.6	•	1	ŧ	1	ŀ	ı	1	í	ż	ŧ	1	ŧ	ŧ	t
sting 293.3 34.7 34.7 34.7 34.7 18.3 18.3 18.3 208.0 208.0 208.0 208.0 208.0 208.0 208.0 208.0 208.0 208.0 208.0 208.0 208.0 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20	7 (6)	. N	1.3 1.3 2.0 72.0	2.7	3.0	5.0 3.7 3.7	6.7 4.7 4.3	7.7 5.3 4.7	8 0.0 8.3 8.3	5.7.3	8.7 7.3 6.7	9.3	9.3	9.3	9.3	9.3 7.7 7.0	9.3	3.7 2.7 7.0
*3 *3 *3 *3 *3 *4 *48 *40kg) *208.0		- Harvesting - Hoeing	293.3	34.7	34.7	3.3	7.0	12.0	14.3	17.3	19.3	23.0	24.3	29.3 34.7	31.3	31.3	31.3	17.0
8.0 8.0 1.7 aneous 127.3 3.0 2.2 2.8 of Interest - 259 228 593 278 521 503	<u>, , , , , , , , , , , , , , , , , , , </u>	Agerials - Fence*3 - Chemicals - Bags (40kg) - Boxes	0.7	208.0	208.0	208.0 1.0 3.3	208.0	208.0 1.0 0.3	208.0 1.3 0.3	208.0 1.3 0.7 15.3	208.0 1.3 1.0 16.3	208.0 1.7 1.3 17.7	208.0 1.7 1.3 19.0	1.7	1.7 2.3 21.0	1.7 2.3 21.0	1.7 2.3 21.0	0.3 2.3 6.7
593 278 521 503	6) 1 7) M C. Repa	<pre>- Water ransportation discellaneous yment of Interest</pre>	8.0	3.0	2.2 259	1.7 2.8 228	3.7 3.5 249	6.3 4.2 255	7.3 4.6 255	8.3 4.9 247	9.3 5.2 234	10.7 5.7 270	11.7 5.8 251	12.7 6.3 248	13.7 6.4 228	13.7 6.4 193	13.7 6.4 149	6.7 2.6 99
1 Income -593 -278 -521 -423		Total	593	278	521	503	538	559	292	566	260	605	280	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	20
forward -593 -871 -1,392 -1,815 -2,178 -	•		-593		-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

*1 Year after planting *2 Useful Life: 70 years *3 Depreciation Cost (10 years)

Table 5.8 (2/3) PROFIT AND LOSS STATEMENTT - WATER HARVESTING MEASURES

Vean																
T 1001	1	2	6	4	45	9	7	80	6	10	11	12	13	14	15	16-70
1. GROSS INCOME 1) Fruits 01ives Grapes Apricots	1 1 1	1 6 6	l t t	- 08	153 22	12 227 39	16 257 50	33 272 61	43 278 74	61 293 86	65 315 96	90 337 104	104 345 107	104 345 107	104 345 107	104 0 107
Total	0	0	0	80	175	278	323	366	395	440	476	531	556	556	929	211
II. GROSS OUTGOING																
A. Depreciation Cost*2	i Ci	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
1) Seedlings	86.7	9.0	ŧ	ŧ	t	3	1	ŧ	i	t	ŧ	1	ŧ	ı	1	•
N - N -		2.7	3.0	5.0	6.7	7.7	8.0	8,4	8.7	و. د.	ου : συ :		9,3	9.3	9	ا
	2.0	2.3	3.0	 	4.4	5.7	5.3 .3.0	5.7	6.7	7.0	7.0	7.7	7.0	7.7	7.0	7.7
3) Plowing	72.0	1	ŧ	ŧ	į	1	1	ı	i	ŀ	ì	İ	i	•	1	•
	293.3	34.7	34.7	3.3	7.0	12.0 34.7	14.3	17.3	19.3	23.0	24.3	29.3 34.7	31.3	31.3	31.3	17.0
5) Materials - Fence*3	ı	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	1	1	t	1	
- Chemicals	0.7	0.7	0.7	1.0	1.0	1.0	1,3				1.7	1.7	1.7	1.7	1.7	0
- bags (40kg) - Boxes	1	1 1	1 1	ب ب	7.7	11.7	14.0	15.3	1.0 16.3	17.7	19.0	20.7	21.0	21.0	21.0	6.7
- Water	8.0	8.0	ŧ	t :	1		4	*	ř		t	1		1	1	
b) Iransportation7) MiscellaneousC. Repayment of Interest	127.3 est -	3.0	2.2	1.7 2.8 273	3.7 3.5 297	6.3 4.2 304	7.3 306 306	8.3 4.9 299	9.3 287 287	10.7 5.7 335	11.7 5.8 315	12.7 6.3 317	13.7 6.4 297	13.7 6.4 259	13.7 6.4 208	6.7 2.6 150
Total	593	287	581	557	595	617	627	627	622	629	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
- Keserve carried forward	ed -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

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Table 5.8 (3/3) PROFIT AND LOSS STATEMENTT - WATER HARVESTING MEASURES

AREA: 10.0 ha (Stone Walls/Earth Bank/Contour	Ns/Ea	⁺th Bank	/Contour	Furrow)	ప	Construction Cost (JD/ha):	on Cost	(JD/ha):	120						un)	(Unit: JD)
Year*1		2	3	4	5	9	7	ω	6	10		12	13	14	15	16-70
 GROSS INCOME Field Crops/Mixtur 	ì	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	4	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*2	ł	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
	ι	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
Compound, DAP	ŧ	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
Agro-chemicals Herbicides Agro-chemicals	i	28	28	28	28	28	28	28	28	28	28	28	28	82	28	28
Ľ	‡ I	100 90 90	900	100 90	100 90	900	100	100	100 90	100 90	90	50 80 80	8 8	100	100 90	900
- Spraying - Harvesting	1 1	75 125	75 125	75 125	75 125	75 125	75 125	75 125	75 125	75 125	75 125	75 125	75 125	75 125	75 125	75 125
5) Materials Bags	t	45	45	45	45	45	45	180	45	45		45	45	45	45	45
7) Miscellaneous C Renawment of Interest	l t (43.0	42.7 96	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
	t t	914	1,010	266	983	296	951	933	914	914	914	914	914	914	914	914
III. NET INCOME - Annual Income	1	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

*1 Year after planting *2 Useful Life: 70 years

Table 5.9 PROFIT AND LOSS STATEMENT - CHECK DAM

Year*1 I. GROSS INCOME 1) Fruits Olives Grapes Apricots Total	•										•	ç		٤		
I. GROSS INCOME 1) Fruits 01ives Grapes Apricots Total	7	2	3	4	5	9	7	ထ	6	10	I	12	1	ដ [1	13 14 15
Total	1 1 1	i i i	1 1 1	138	263 64	20 388 112	27 438 144	56 463 176	73 475 211	105 500 247	112 538 276	155 575 297	ភាលី⊶	179 588 306	79 179 88 588 06 306	
	0	0	0	138	327	520	609	969	759	852	926	1,027	1,073	~~	3 1,073	
II. GROSS OUTGOING																
A. Depreciation Cost*2	1	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	
1) Seedlings 2) Fertilizers	154	16	t	ŧ	1	1	à	•	ı	1	ı	•	i		1	1
- P205 - P205 - K20	824	₹.	တေသထ	10 7 8	ស្នួ	100	11	16 12 17	13	817	18 14 14	18 14 14	18 14		18 14	18 18 14 14 14 14
3) Plowing	· ന			1	1 4	; t	+ 1	1 1) I	; 1	; 1	. 1	. 1		. 1	
	7	24	24	6 24	13	22 24	25 24	31	35 24	41 24	45 24	53 24	57 24		57 24	57 57 24 24
		47	47	47	47	4	47	47	47	47	47	100	1 67 4		104	
Boxes Water	.	1 5		1 (0)	155	23.	27	30,	33.	36	40 -	. 43	44		44	
tation uneous of Interest	۱ · ஐ ·	141	2 305	3 3 269	7 5 293	12 6 296	14 7 288	17 7 265	18 8 235	21 9 260	23 9 218	26 10 191	27 10 148		22 26	27 27 10 10 97 56
Total 22	222	166	441	429	481	510	517	509	492	533	501	443	407		356	356 315
		-166	-441	-291	-154	10	92	186	267	319	425	584	999		717	717 758
forward -222		-388	-829 -	1,120	-1,274	-1,264	-1,172	-986	-719	-400	52	609	1,275		1,992	1,992 2,750

*1 Year after planting *2 Useful Life: 70 years *3 Depreciation Cost (10 years)

Table 5.10 PROFIT AND LOSS STATEMENT - WINTER IRRIGATION

Graces Freer's 1 2 3 4 5 6 7 6 9 9 10 11 12 13 14 15 16 16 16 16 16 16 16	AREA: 33.9 ha (Whole Area)	e Area)														(Unit:	(Or ::
Series 17,557 1,757 1,757 1,757 1,758 1,558 1,558 1,558 1,558 1,558 1,559 1,75	Kedra 1		2	3	4	5	9	7	8	6	10	11	12	13	14	15	16-20
Cost**2 - 9,970 9	I. GROSS INCOME 1) Fruits 01ives Grapes Apricots 2) Field Crops	i t f I	- 11,519	11,519	15,538 11,519	29,663 7,232 11,519	2,237 43,788 12,679 11,519	3,017 49,438 16,227	6,305 52,263 19,843	8,238 53,675 23,787	11,831 56,500 27,934	12,611 60,738 31,143	17,459 64,975 33,595	20,171 66,388 34,567	20,171 66,388 34,567	20,171 66,388 34,567	20,171 0 34,567
Cost*2 - 9,970 9,9	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	54,738
The control of the co	II. GROSS OUTGOING		6	6	ć	6	0	0	ć	6	c c	0	6	9	6	ć	0
theres 328 576 723 1,085 1,471 1,684 1,737 1,184 1,187 1,184 1,187 1,184 1,187 1,184 1,187			0/6'6	0/6*6	0/6*6	0/6*6	0/6.6	0/6*6	0/6*6	0/6'6	0/6'6	0/8*8	0/6*6	0/6*6	0/6*6	0/6'6	0/6'6
1,000	 Seedlings Fortilizers 	17,35/	1,752	1	1	1	t	ŧ	1	1	ı	ı	•	•	E	1	•
sting	- N - P205 - K20 - K20 3) Plowing	328 271 418 339	576 407 565	723 531 701	1,085 802 859	1,446 983 994	1,571 1,107 1,107	1,684 1,232 1,243	1,752 1,345 1,367	1,865 1,469 1,503	1,978 1,593 1,616	1,978 1,593 1,616	1,978 1,593 1,616	1,978 1,593 1,616	1,978 1,593 1,616	1,978 1,593 1,616	893 644 1,616
1, 572	خنا دُ	780	2,712	2,712	644 2,712		2,452	2,870 2,712	3,537	3,955	4,678 2,712	5,040 2,712	5,944 2,712	6,396 2,712	6,396 2,712	6,396	3,639
tration 1,672 1,672	2 1 1 3	1891	5,288	5,288	5,288	5,288	5,288	5,288 181 68 3,085	5,288	5,288 203 170 3,740	5,288 226 249 4 113	5,288 226 260 4 407	226 362 4 836	226 418	226 418 418	226 418 4 949	113
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 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 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 we carried -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 5	- Water 6) Transportation 7) Miscellaneous	1,672 3706	1,672	238	316 359	814 511	1,345	1,593	1,865	2,068 884	2,373	2,588	2,904 1109	3,062	3,062	3,062	1,729
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 l 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 we carried -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 5		st :	1	22,178	19,155	19,896	19,060	16,869	13,130	9,518		6,721	4,480	2,760	1,476	488	0
l 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 ve carried ward -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 5	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	23,663
-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	III. NET INCOME - Annual Income		-11,890	-30,912	-14,901	2,534	22,130	21,154	32,865	42,355	50,893	276*09	78, 299	84,298	85,582	86,570	31,075
	- Keserve carried forward	-	-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

^{*1} Year after planting *2 Useful Life: 20 years *3 Depreciation cost (10 years)

Table 5.11 PROFIT AND LOSS - FODDER SHRUB PRODUCTION SCHEME

AREA:	10.0 ha (Stone Walls/Earth Bank/Contour Fu	la]]s/Eart	h Bank/C	ontour f	urrow)	Con	Construction Cost (JD/ha):	n Cost (,	JD/ha):	120						(Um.)	(Unit: JD)
	Year		2	6)	4	5	9	7	8	6	10	11	12	13	14	15	16-30
1. GROSS 1 1) Fo 2) Go	I. GROSS INCOME 1) Fodder Shrubs 2) Government Budget*	3,780	268	143	143	E 1	143	143	######################################	143	143	143	143	143	143	143	143
To	Total	3,780	268	143	143	143	143	143	143	143	143	143	143	143	143	143	143
II. GROSS OUTGOING	OUTGOING																
A. Const	ruction Cost	1,200	ŧ	ŀ	ı	í	4	t	i	1	1	ı	ŧ	\$	ŧ	i	1
5. Produ 1) Se 2) Fe	<pre>b. Production tost 1) Seedlings 2) Fertilizers</pre>	1,565	155	ŧ	1	1	\$	ŕ	t	ŧ	•	1	ŧ	ŧ	I	i	i
	z	1	ŧ	ŀ	•	1	1	ı	t	ı	ı	1	ı	t	ŀ	ı	,
ŧ	- P205	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
•	- K20	1	ı	ŀ	ı	1	•	ı	ŧ	ŀ	ı	1	t	•	ı	ŧ	1
3) La	3) Labour - Pitting	628	64	t	1	1	ŧ	ı	ŧ	ŧ	t	1	ı		ı		1
ŀ	Planting	252	24	1	ı	,	t			E	1	ı	i	•	į	1	+
7) Mi	scellaneous	123	13			,		П		H		, 1		-	,		
	Total	3,780	268	13	13	13	13	13	13	13	13	13	13	13	13	13	13
III. NET INCOME	T INCOME - Annual Income	0	0	130	130	130	130	130	130	130	130	130	130	130	130	130	130
1	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.

4 5 6 7 8 9 10 11 12 13	0 0.25 0.29 0.32 0.37 0.40 0.44 0.48 0.53 0.56 0.56 0.56 0.25 0.29 0.32 0.33 0.21 0.20 0.17 0.15 0.14 0.14 0.14 0.25 0.29 0.32 0.33 0.21 0.24 0.31 0.38 0.42 0.42 0.42 0.25 0.29 0.32 0.37 0.40 0.44 0.48 0.53 0.55 0.56 0.56 0.025 0.25 0.29 0.32 0.37 0.40 0.44 0.48 0.53 0.55 0.56 0.56 0.025 0.25 0.29 0.32 0.33 0.21 0.24 0.31 0.38 0.42 0.42 0.05 0.05 0.00 0.00 0.00 0.00 0.00 0.0	0.33 0.52 0.61 0.70 0.76 0.85 0.93 1.03 1.07 0.18 0.21 0.22 0.24 0.20 0.20 0.19 0.21 0.21 0.15 0.15 0.31 0.39 0.46 0.56 0.65 0.74 0.82 0.86
8 9	0.40 0.21 0.19 0.21 0.21 0.19	0.76 0.20 0.56
7		
9	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.90	0.52 0.21 0.31
20		
4	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	
3	0.17 0.17 0.17 0.17 0.17 0.17 0.08 (Fi	0.09
2	ha) 0.06 0.06 0.06 0.06 0.06 0.05 0.05 0.05	0.07
1	EASURES (Fruits: 10 of 0.59 ing 0.59 ing 0.59 ing 0.59 ing 0.59 ing 0.69 ing 0.69 ing 0.69	10ha) e 0.22 ing 0.22
Year*	MATER HARVESTING MEASURES Nicro-catchment (Fruits: 10 ha) 1) Gross income 0.59 0.06 2) Gross outgoing 0.59 0.06 3) Net income 0.59 0.06 1) Gross income 0.59 0.06 2) Gross outgoing 0.59 0.06 3) Net income 0.59 0.06 3) Gross outgoing 0.59 0.06 3) Gross outgoing 0.59 0.06 3) Stone Walls/Earth Bank/Contour Furity 0.59	CHECK DAM (Fruits: 10ha) 1) Gross income 2) Gross outgoing 3) Net income
	ATER H. Micro 1) 1 2 3 1 2 2 3 1 2 3 1 2 3 1 2 3 1 3 1 2 3 1 3 1	жеск од 1) (2) (3) г

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SUBS 1DY)
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STATEMENTT
1.055
AND
PROFIT
5.13
Table

(Unit: JD 1,000)	13 14 15 16	56 0.56 0.56 0.21 14 0.14 0.14 0.05 42 0.42 0.42 0.16 57 1.99 2.41 2.57	56 0.56 0.56 0.21 14 0.14 0.14 0.05 42 0.42 0.42 0.16 57 1.99 2.41 2.57	52 2.52 2.52 2.52 90 0.90 0.90 0.90 62 1.62 1.62 1.62 48 21.10 22.72 24.35	1.07 0.21 0.86 5.80	15 12.15 12.15 5.49 48 2.48 2.48 1.44 66 9.66 9.66 4.05 49 71.16 80.82 84.87	52 8.22 8.22 3.71 68 1.68 1.68 0.98 54 6.54 6.54 2.74 61 48.15 54.68 57.42	51 27.51 27.51 12.43 63 5.63 5.63 3.26 88 21.88 21.88 9.17 27 161.16 183.04 192.21	25 73.25 73.25 33.10 98 14.98 14.98 8.69 26 58.26 58.26 24.41 80 429.06 487.32 511.73	13 121.13 121.13 54.74 10 24.10 24.10 13.69 03 97.03 97.03 41.05 31 718.34 815.37 856.42
	11 12	0.48 0.53 0.56 0.13 0.13 0.14 0.35 0.40 0.42 0.75 1.15 1.57	0.48 0.53 0.56 0.13 0.13 0.14 0.35 0.40 0.42 0.75 1.15 1.57	2.52 2.52 2.52 0.90 0.90 0.90 1.62 1.62 1.62 16.23 17.85 19.48	0.93 1.03 1.07 0.19 0.21 0.21 0.74 0.82 0.86 3.26 4.08 4.94	48 11.64 12.15 23 2.40 2.48 25 9.24 9.66 59 51.83 61.49	7.09 7.87 8.22 1.51 1.63 1.68 5.58 6.25 6.54 28.83 35.07 41.61	73 26.36 27.51 05 5.44 5.63 69 20.91 21.88 48 117.39 139.27	19 70.17 73.25 43 14.49 14.98 75 55.68 58.26 86 312.53 370.80	49 116.03 121.13 54 23.28 24.10 96 92.75 97.03 54 524.29 621.31
	9 10	0.44 0.13 0.31 0.40	0.44 0.13 0.31 0.40	2.52 0.90 1.62 14.61	0.85 0.18 0.67 2.53	0 9.66 10.48 3 2.13 2.23 7 7.53 8.25 1 34.34 42.59	6.53 1.44 5.09 23.24	7 21.87 23.73 7 4.81 5.05 9 17.05 18.69 4 77.79 96.48	2 58.21 63.19 4 12.82 13.43 8 45.40 49.75 0 207.10 256.86	0 96.27 104.49 7 20.52 21.54 3 75.75 82.96 3 348.58 431.54
(WITH SUBSIDY)	8	0.37 0.40 0.14 0.13 0.23 0.27 (0.17) 0.09	0.37 0.40 0.14 0.13 0.23 0.27 (0.17) 0.09	2.52 2.52 0.90 0.90 1.62 1.62 11.36 12.98	0.70 0.76 0.16 0.17 0.53 0.59 1.27 1.86	7.86 8.60 1.83 1.93 6.03 6.67 20.15 26.81	5.32 5.82 1.24 1.31 4.08 4.51 13.64 18.15	17.81 19.47 4.14 4.37 13.67 15.09 45.64 60.74	47.42 51.82 11.03 11.64 36.39 40.18 121.52 161.70	78.41 85.70 17.56 18.57 60.85 67.13 205.70 272.83
LOSS STATEMENTT	2 9	0.28 0.32 0.14 0.14 0.14 0.18 (0.59) (0.40)	0.28 0.32 0.14 0.14 0.14 0.18 (0.59) (0.40)	2.52 2.52 0.90 0.90 1.62 1.62 8.12 9.74	0.52 0.61 0.14 0.15 0.38 0.46 0.28 0.73	7.04 6.89 1.56 1.69 5.48 5.20 8.91 14.11	4.77 4.66 1.06 1.14 3.71 3.52 6.04 9.56	15.95 15.60 3.54 3.83 12.41 11.77 20.20 31.98	42.47 41.53 9.41 10.19 33.05 31.34 53.79 85.13	70.22 68.68 14.89 16.17 55.33 52.51 92.34 144.85
3 PROFIT AND	5	0.08 0.18 0.11 0.13 (0.03) 0.05 (0.77) (0.72)	0.08 0.18 0.13 (0.03) 0.05 (0.77) (0.72)	2.52 2.52 0.90 0.90 1.62 1.62 4.87 6.49	0.14 0.33 0.09 0.12 0.05 0.21 (0.31) (0.10)	2.71 4.86 1.00 1.29 1.72 3.57 (0.13) 3.43	1.84 3.29 0.67 0.87 1.16 2.42 (0.08) 2.33	6.15 11.00 2.26 2.92 3.89 8.08 (0.29) 7.79	16.36 29.28 6.02 7.76 10.35 21.52 (0.78) 20.74	27.06 48.42 9.27 12.16 17.79 36.26 0.75 37.01
Table 5.13	2 3	0.09 0.09 (0.09) (0.75)	(Fruits: 10 0 0 0 0 (0.09) (0.75)	(Field Crop 2.52 0.90 1.62 3.25	0.06 (0.06) (0.36)	1.16 0.77 0.39 (1.85)	3 0.78 0.52 0.26 1) (1.25)		6.97 6.97 4.64 2.33 (11.13)	11.52 11.52 6.99 4.53
			^L	0 2.52 0 0.90 0 0.90 0 1.62	0.22 0.07 (0.22) (0.07) (0.22) (0.30)	Crops: 3.4 0 1. 2.50 0. (2.50) 0. (2.50) (2.	1.69 0 (1.69) 0 (1.69) (1	5.66 2.01 (5.65) (5.05)	15.08 (13.46)	24.94 8.15 (24.94 8.15 (24.94) 3.37 (24.94) (21.57)
	Year*	WATER HARVESTING Micro-catchment (Fruits: 1) Gross income 2) Gross outgoing 3) Net income - A.I.	1) Gross income 0.59 2) Gross outgoing 0.59 3) Net income - A.I. (0.59)	1) Gross income 0 2) Gross outgoing 0 3) Net income - A.I. 0	CHECK DAM (Fruits: 10ha) 1) Gross income 2) Gross outgoing 3) Net income - A.I.	Winter irrigation Site: J1 (Fruits + Field 1) Gross income 2) Gross outgoing 3) Net income - A.I.	1) Gross income 2) Gross outgoing 3) Net income - A.I.	1) Gross income 0 2.62 2) Gross outgoing 5.66 2.01 3) Net income - A.I. (5.66) 0.61	1) Gross income 2) Gross outgoing 3) Net income - A.I.	## India Area (rfults + Field Lipps: 1) Gross income 24.94 3) Net income - A.I. (24.94) - R.C.F (24.94)