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Ministry of Water Resources and Irrigation

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IWMD WATER BUDGET (2005/2006 - 2006/2007)

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April 2008

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1. Introduction

The purpose of calculating the water balance and water budget is to help the Directorate to answer two questions:

- How equally is water being allocated among districts?
- How efficiently is water being used within the district?

To answer these questions, data need to be collected for a certain period (seasonally and/or annually) and some indicators need to be determined.

2. IWMD Water Budget Elements

This approach looks for how much water has been delivered to each IWMD compared with its water needs. The process should answer the question, “How equally is water being allocated among the districts?” Table I shows the breakdown of the water delivery and diversion from different sources and types and the quantity of water needs. This table is being now made for the summer season (1 May–30 April), for the winter season (1 October–30 September), and annually in each IWMD as shown in this report. For more information on water budget analysis refer to guidelines 3.6.

3. Water Budget Indicators

After collecting data on water supply and demand for a certain season, it needs to be entered into table I. Then indicators need to be determined for each IWMD. These indicators include:

- **Water surplus or deficit (m³)** = total water supplied – total water demand: If the result of this indicator is positive it means there was a surplus of water and vice-versa.
- **Water use index** = water supply/water demand: For best water management, this index should equal 1.0. If it is higher than one, it means that the IWMD received water more than the demand and vice-versa.
- **Percentage of non-conventional water** = (Summation of drainage reuse and groundwater use)/total water supply: This indicator shows how much non-conventional water is used within each IWMD. The higher the non-conventional water, the less the canal water is allocated.
- **Per feddan water delivery (m³)** = total water supplied/irrigated area.
- **Percent of rice (official and unofficial)** = rice area/irrigated area.
- **Percent of sugar cane** = rice area/irrigated area.

These indicators will help the directorate to differentiate among IWMDs. For example, the Supply/Demand index can be used to check the equality of water allocation among IWMDs. The percentage of non-conventional water can also show which

IWMDs suffer from lack of canal water and then the directorate can decide on procedures for improving water allocation to such IWMDs.

Table I IWMD Water Budget, Summer Season

Water Demand (million m ³)		Water Supply (million m ³)	
1. Agriculture		1, Canal	230
I-1 Area Served (f)	40,000	2. Drainage Reuse	
I-2 Rice Area (f)	10,000	2-1 Official	2
I-3 Sugar Cane Area (f)	0	2-2 Unofficial	10
I-3 Water Req. (MISD data)	240	3. Groundwater	
2. Municipal	1.8	3-1 Governmental	1.5
3. Industry	1.8	3-2 Individual	0.5
4. Other			
		Total Non-conventional Water	14
Total Water Demand	243.6	Total Water Supply	244
Indicators			
1. Water surplus(+) or deficit (-) in million m ³		+ 0.4	
2. Water use index		1.01	
3. Percent of non-conventional water		6	
4. Per feddan water delivery, m ³		6,100	

4. IWMD Budget Analysis for year 2005/2006

Water Budget and allocation for North Zifta IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	43230
1-2 Rice Area (feddan)	14794
%	34%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	208
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	208
Water Supply	
1- Canal (m.m3)	152
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	9.5
3-1 Governmental (m.m3)	7.5
3-2 Individual (m.m3)	2
Total Non-conventional Water	9.5
Total Water Supply (m.m3)	161.5

Winter Season Oct 1, 05 - Apr 30, 06	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	43230
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	59.4
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	59.4
Water Supply	
1- Canal (m.m3)	100
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	10
3-1 Governmental (m.m3)	8
3-2 Individual (m.m3)	2
Total Non-conventional Water	10
Total Water Supply (m.m3)	110

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-46.5
	-22%
2- Water Use index =Suppy/Demand	0.78
3- % of non-Conventional Water	6%
4- Per feddan water delivery (m3/y)	3736

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	50.6
	85%
2- Water Use index =Suppy/Demand	1.85
3- % of non-Conventional Water	9%
4- Per feddan water delivery (m3/y)	2545

Annual Water Supply Index	1.02
Annual per feddan (m3/feddan)	6280

Water Budget and allocation for Santa IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	51175
1-2 Rice Area (feddan)	16290
%	32%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	204.9
2. Municipal (m.m3)	6.09
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	210.99
Water Supply	
1- Canal (m.m3)	239
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	5.1
3-1 Governmental (m.m3)	0.6
3-2 Individual (m.m3)	4.5
Total Non-conventional Water	5.1
Total Water Supply (m.m3)	244.1

Winter Season Oct 1, 05 - Apr 30, 06)	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	51175
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	156
2. Municipal (m.m3)	8.52
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	164.52
Water Supply	
1- Canal (m.m3)	212
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	7.14
3-1 Governmental (m.m3)	0.84
3-2 Individual (m.m3)	6.3
Total Non-conventional Water	7.14
Total Water Supply (m.m3)	219.14

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	33.11
	16%
2- Water Use index =Supply/Demand	1.16
3- % of non-Conventional Water	2%
4- Per feddan water delivery (m3/y)	4770

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	54.62
	33%
2- Water Use index =Supply/Demand	1.33
3- % of non-Conventional Water	3%
4- Per feddan water delivery (m3/y)	4282

Annual Water Supply Index	1.23
Annual per feddan (m3/feddan)	9052

Water Budget and allocation for Quesna IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	53250
1-2 Rice Area (feddan)*	12000
%	23%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	219.3
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	219.3

Water Supply	
1- Canal (m.m3)	177
2. Drainage Reuse	3
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	3
3. Groundwater	1.5
3-1 Governmental (m.m3)	1
3-2 Individual (m.m3)	0.5
Total Non-conventional Water	4.5
Total Water Supply (m.m3)	181.5

* Rice official area is 34000 feddans

Winter Season Oct 1, 05 - Apr 30, 06)	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	53250
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	175.33
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	175.33

Water Supply	
1- Canal (m.m3)	121
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1
3-1 Governmental (m.m3)	0.5
3-2 Individual (m.m3)	0.5
Total Non-conventional Water	1
Total Water Supply (m.m3)	122

Indicators	
1- Water Surplus/deficit (m.m3)	-37.8
	-17%
2- Water Use index =Suppy/Demand	0.83
3- % of non-Conventional Water	2%
4- Per feddan water delivery (m3/y)	3408

Indicators	
1- Water Surplus/deficit (m.m3)	-53.33
	-30%
2- Water Use index =Suppy/Demand	0.70
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	2291

Annual Water Supply Index	0.77
Annual per feddan (m3/feddan)	5700

Water Budget and allocation for Berket Elsabaa IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	39490
1-2 Rice Area (feddan)*	300
%	1%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	207.9
2. Municipal (m.m3)	0.3
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	208.2
Water Supply	
1- Canal (m.m3)	80
2. Drainage Reuse	9.225
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	9.225
3. Groundwater	11.375
3-1 Governmental (m.m3)	0.875
3-2 Individual (m.m3)	10.5
Total Non-conventional Water	20.6
Total Water Supply (m.m3)	100.6

* Legal rice area is 0 feddans

Winter Season Oct 1, 05 - Apr 30, 06)	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	39490
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	238.5
2. Municipal (m.m3)	0.42
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	238.92
Water Supply	
1- Canal (m.m3)	81
2. Drainage Reuse	9.744
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	9.744
3. Groundwater	15.923
3-1 Governmental (m.m3)	1.223
3-2 Individual (m.m3)	14.7
Total Non-conventional Water	25.667
Total Water Supply (m.m3)	106.67

Indicators	
1- Water Surplus/deficit (m.m3)	-107.6
	-52%
2- Water Use index =Suppy/Demand	0.48
3- % of non-Conventional Water	20%
4- Per feddan water delivery (m3/y)	2547

Indicators	
1- Water Surplus/deficit (m.m3)	-132.253
	-55%
2- Water Use index =Suppy/Demand	0.45
3- % of non-Conventional Water	24%
4- Per feddan water delivery (m3/y)	2701

Annual Water Supply Index	0.46
Annual per feddan (m3/feddan)	5249

Water Budget and allocation for Abou Kebir IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	58882
1-2 Rice Area (feddan)	26506
%	45%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	160
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	160
Water Supply	
1- Canal (m.m3)	229
2. Drainage Reuse	0.13
2-1 Official (m.m3)	0.13
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0.13
Total Water Supply (m.m3)	229.13

Winter Season Oct 1, 05 - Apr 30, 06	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	58882
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	289.34
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	289.34
Water Supply	
1- Canal (m.m3)	144
2. Drainage Reuse	0.95
2-1 Official (m.m3)	0.95
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0.95
Total Water Supply (m.m3)	144.95

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	69.13
	43%
2- Water Use index =Suppy/Demand	1.43
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	3891

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-144.39
	-50%
2- Water Use index =Suppy/Demand	0.50
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	2462

Annual Water Supply Index	0.83
Annual per feddan (m3/feddan)	6353

Water Budget and allocation for Kafr Sakr IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	52936
1-2 Rice Area (feddan)	27045
%	51%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	220
2. Municipal (m.m3)	
	0
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	220
Water Supply	
1- Canal (m.m3)	211
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Supply (m.m3)	
	211

Winter Season Oct 1, 05 - Apr 30, 06	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	52936
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	256.49
2. Municipal (m.m3)	
	21.8
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	278.29
Water Supply	
1- Canal (m.m3)	179
2. Drainage Reuse	100.82
2-1 Official (m.m3)	80.32
2-2 unofficial (m.m3)	20.5
3. Groundwater	4
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	4
Total Non-conventional Water	104.82
Total Water Supply (m.m3)	
	283.82

Indicators	
1- Water Surplus/deficit (m.m3)	-9
	-4%
2- Water Use index =Suppy/Demand	0.96
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	3986

Indicators	
1- Water Surplus/deficit (m.m3)	5.53
	2%
2- Water Use index =Suppy/Demand	1.02
3- % of non-Conventional Water	37%
4- Per feddan water delivery (m3/y)	5362

Annual Water Supply Index	0.99
Annual per feddan (m3/feddan)	9348

Water Budget and allocation for Awlad DSakr IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	68000
1-2 Rice Area (feddan)*	50000
%	74%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	288.6
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	288.6
Water Supply	
1- Canal (m.m3)	136
2. Drainage Reuse	179.4
2-1 Official (m.m3)	176.4
2-2 unofficial (m.m3)	3
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	179.4
Total Water Supply (m.m3)	315.4

* Rice official area is 34000 feddans

Winter Season Oct 1, 05 - Apr 30, 06	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	68000
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	209.65
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	209.65
Water Supply	
1- Canal (m.m3)	133.3
2. Drainage Reuse	71.61
2-1 Official (m.m3)	70.11
2-2 unofficial (m.m3)	1.5
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	71.61
Total Water Supply (m.m3)	204.91

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	26.8
	9%
2- Water Use index =Suppy/Demand	1.09
3- % of non-Conventional Water	57%
4- Per feddan water delivery (m3/y)	4638

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-4.74
	-2%
2- Water Use index =Suppy/Demand	0.98
3- % of non-Conventional Water	35%
4- Per feddan water delivery (m3/y)	3013

Annual Water Supply Index	1.04
Annual per feddan (m3/feddan)	7652

Water Budget and allocation for Ibrahimia IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	59214
1-2 Rice Area (feddan)	45000
%	0.76
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	310
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	310
Water Supply	
1- Canal (m.m3)	270
2. Drainage Reuse	5
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	5
3. Groundwater	10
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	10
Total Non-conventional Water	15
Total Water Supply (m.m3)	285

Winter Season Oct 1, 05 - Apr 30, 06	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	59214
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	217
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	217
Water Supply	
1- Canal (m.m3)	209
2. Drainage Reuse	2
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	2
3. Groundwater	5
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	5
Total Non-conventional Water	7
Total Water Supply (m.m3)	216

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	-25
	-8%
2- Water Use index =Suppy/Demand	0.92
3- % of non-Conventional Water	5%
4- Per feddan water delivery (m3/y)	4813

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	-1
	-0.5%
2- Water Use index =Suppy/Demand	1.00
3- % of non-Conventional Water	3%
4- Per feddan water delivery (m3/y)	3648

Annual Water Supply Index	0.95
Annual per feddan (m3/feddan)	8461

Water Budget and allocation for Zagazig IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	63685
1-2 Rice Area (feddan)*	38211
%	60%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	177.9
2. Municipal (m.m3)	1.416
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	179.32
Water Supply	
1- Canal (m.m3)	217
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1.8
3-1 Governmental (m.m3)	0.07
3-2 Individual (m.m3)	1.73
Total Non-conventional Water	1.8
Total Water Supply (m.m3)	218.8

* Legal rice area is 10616 feddans

Winter Season Oct 1, 05 - Apr 30, 06)	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	63685
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	182.21
2. Municipal (m.m3)	1.416
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	183.63
Water Supply	
1- Canal (m.m3)	176
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1.262
3-1 Governmental (m.m3)	0.049
3-2 Individual (m.m3)	1.213
Total Non-conventional Water	1.262
Total Water Supply (m.m3)	177.26

Indicators	
1- Water Surplus/deficit (m.m3)	39.484
	22.0%
2- Water Use index =Suppy/Demand	1.22
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	3436

Indicators	
1- Water Surplus/deficit (m.m3)	-6.364
	-3.5%
2- Water Use index =Suppy/Demand	0.97
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	2783

Annual Water Supply Index	1.09
Annual per feddan (m3/feddan)	6219

Water Budget and allocation for Qous IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	36010	1- Canal (m.m3)	174
1-2 Rice Area (feddan)		2. Drainage Reuse	2.9
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (feddan)	21700	2-2 unofficial (m.m3)	2.9
	%	3. Groundwater	2.4
	60%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	169.1	3-2 Individual (m.m3)	2.4
		Total Non-conventional Water	5.3
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	169.1	Total Water Supply (m.m3)	179.3

Winter Season Oct 1, 05 - Apr 30, 06)			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	36010	1- Canal (m.m3)	96
1-2 Rice Area (f)		2. Drainage Reuse	2.9
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (f)	21700	2-2 unofficial (m.m3)	2.9
	%	3. Groundwater	2.4
	60%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	140.1	3-2 Individual (m.m3)	2.4
		Total Non-conventional Water	5.3
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	140.1	Total Water Supply (m.m3)	101.3

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			10.2
			6%
2- Water Use index =Suppy/Demand			1.06
3- % of non-Conventional Water			3%
4- Per feddan water delivery (m3/y)			4979

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			-38.8
			-28%
2- Water Use index =Suppy/Demand			0.72
3- % of non-Conventional Water			5%
4- Per feddan water delivery (m3/y)			2813

Annual Water Supply Index	0.91
Annual per feddan (m3/feddan)	7792

Water Budget and allocation for Qena IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	49400
1-2 Rice Area (feddan)	
	%
1-3 Sugar Cane Area (feddan)	8000
	% 16%
1-4 Water Requirement (m.m3)	408.6
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	408.6
Water Supply	
1- Canal (m.m3)	229
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0.259
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.259
Total Non-conventional Water	0.259
Total Water Supply (m.m3)	229.26

Winter Season Oct 1, 05 - Apr 30, 06)	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	49400
1-2 Rice Area (f)	
	%
1-3 Sugar Cane Area (f)	8000
	% 16%
1-4 Water Requirement (m.m3)	342.6
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	342.6
Water Supply	
1- Canal (m.m3)	303
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0.362
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.362
Total Non-conventional Water	0.362
Total Water Supply (m.m3)	303.36

Indicators	
1- Water Surplus/deficit (m.m3)	-179.341
	-44%
2- Water Use index =Suppy/Demand	0.56
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	4641

Indicators	
1- Water Surplus/deficit (m.m3)	-39.238
	-11%
2- Water Use index =Suppy/Demand	0.89
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	6141

Annual Water Supply Index	0.71
Annual per feddan (m3/feddan)	10782

Water Budget and allocation for Luxor IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	42850
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	22552
%	53%
1-4 Water Requirement (m.m3)	192
Water Supply	
1- Canal (m.m3)	190
2. Drainage Reuse	0.12
2-1 Official (m.m3)	0.112
2-2 unofficial (m.m3)	0.008
3. Groundwater	0.28
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.28
Total Non-conventional Water	0.4
Total Water Supply (m.m3)	
	190.4
2. Municipal (m.m3)	
	0.486
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	192.49

Winter Season Oct 1, 05 - Apr 30, 06	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	42850
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	22552
%	53%
1-4 Water Requirement (m.m3)	175
Water Supply	
1- Canal (m.m3)	178
2. Drainage Reuse	0.26
2-1 Official (m.m3)	0.16
2-2 unofficial (m.m3)	0.1
3. Groundwater	0.28
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.28
Total Non-conventional Water	0.54
Total Water Supply (m.m3)	
	178.54
2. Municipal (m.m3)	
	0.486
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	175.49

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-2.086
	-1%
2- Water Use index =Suppy/Demand	0.99
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	4443

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	3.054
	2%
2- Water Use index =Suppy/Demand	1.02
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	4167

Annual Water Supply Index	1.00
Annual per feddan (m3/feddan)	8610

Water Budget and allocation for DEshna IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	50100	1- Canal (m.m3)	181
1-2 Rice Area (feddan)		2. Drainage Reuse	1.53
	%	2-1 Official (m.m3)	1.53
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (feddan)	24238	3. Groundwater	2
	%	3-1 Governmental (m.m3)	0
	48%	3-2 Individual (m.m3)	2
1-4 Water Requirement (m.m3)	182.2	Total Non-conventional Water	3.53
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	182.2	Total Water Supply (m.m3)	184.53

Winter Season Oct 1, 05 - Apr 30, 06)			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	50100	1- Canal (m.m3)	174
1-2 Rice Area (f)		2. Drainage Reuse	2.12
	%	2-1 Official (m.m3)	2.12
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (f)	24238	3. Groundwater	2.78
	%	3-1 Governmental (m.m3)	0
	48%	3-2 Individual (m.m3)	2.78
1-4 Water Requirement (m.m3)	179.7	Total Non-conventional Water	4.9
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	179.7	Total Water Supply (m.m3)	178.9

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			2.33
			1.28%
2- Water Use index =Suppy/Demand			1.01
3- % of non-Conventional Water			2%
4- Per feddan water delivery (m3/y)			3683

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			-0.8
			-0.4%
2- Water Use index =Suppy/Demand			1.00
3- % of non-Conventional Water			3%
4- Per feddan water delivery (m3/y)			3571

Annual Water Supply Index	1.00
Annual per feddan (m3/feddan)	7254

Water Budget and allocation for Abou Tesht IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	37000
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	19256
%	52%
1-4 Water Requirement (m.m3)	128.85
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	128.85

Water Supply	
1- Canal (m.m3)	227
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0.72
3-1 Governmental (m.m3)	0.36
3-2 Individual (m.m3)	0.36
Total Non-conventional Water	0.72
Total Water Supply (m.m3)	227.72

Winter Season Oct 1, 05 - Apr 30, 06)	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	37000
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	19256
%	52%
1-4 Water Requirement (m.m3)	127.05
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	127.05

Water Supply	
1- Canal (m.m3)	249
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0.4
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.4
Total Non-conventional Water	0.4
Total Water Supply (m.m3)	249.4

Indicators	
1- Water Surplus/deficit (m.m3)	98.87
	77%
2- Water Use index =Suppy/Demand	1.77
3- % of non-Conventional Water	0.32%
4- Per feddan water delivery (m3/y)	6155

Indicators	
1- Water Surplus/deficit (m.m3)	122.35
	96%
2- Water Use index =Suppy/Demand	1.96
3- % of non-Conventional Water	0.16%
4- Per feddan water delivery (m3/y)	6741

Annual Water Supply Index	1.86
Annual per feddan (m3/feddan)	12895

Water Budget and allocation for Esna IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	59970
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	22552
%	38%
1-4 Water Requirement (m.m3)	266.4
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	266.4

Water Supply	
1- Canal (m.m3)	388.84
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Supply (m.m3)	388.84

Winter Season Oct 1, 05 - Apr 30, 06)	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	59970
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	22552
%	38%
1-4 Water Requirement (m.m3)	296.86
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	296.86

Water Supply	
1- Canal (m.m3)	320.1
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Supply (m.m3)	320.1

Indicators	
1- Water Surplus/deficit (m.m3)	122.44
	46%
2- Water Use index =Suppy/Demand	1.46
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	6484

Indicators	
1- Water Surplus/deficit (m.m3)	23.24
	8%
2- Water Use index =Suppy/Demand	1.08
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	5338

Annual Water Supply Index	1.26
Annual per feddan (m3/feddan)	11822

Water Budget and allocation for Naqada IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	32210	1- Canal (m.m3)	107
1-2 Rice Area (feddan)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (feddan)	4210	3. Groundwater	0.1
	%	3-1 Governmental (m.m3)	0
	13%	3-2 Individual (m.m3)	0.1
1-4 Water Requirement (m.m3)	114.3	Total Non-conventional Water	0.1
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	114.3	Total Water Supply (m.m3)	107.1

Winter Season Oct 1, 05 - Apr 30, 06)			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	32210	1- Canal (m.m3)	132
1-2 Rice Area (f)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (f)	4210	3. Groundwater	0.1
	%	3-1 Governmental (m.m3)	0
	13%	3-2 Individual (m.m3)	0.1
1-4 Water Requirement (m.m3)	121.3	Total Non-conventional Water	0.1
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	121.3	Total Water Supply (m.m3)	132.1

Indicators			
1- Water Surplus/deficit (m.m3)			-7.2
			-6%
2- Water Use index =Suppy/Demand			0.94
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			3325

Indicators			
1- Water Surplus/deficit (m.m3)			10.8
			9%
2- Water Use index =Suppy/Demand			1.09
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			4101

Annual Water Supply Index	1.02
Annual per feddan (m3/feddan)	7426

Water Budget and allocation for Nagaa Hammadi IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	64000
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	30996
%	48%
1-4 Water Requirement (m.m3)	155.52
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	155.52
Water Supply	
1- Canal (m.m3)	311
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1.066
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	1.066
Total Non-conventional Water	1.066
Total Water Supply (m.m3)	312.07

Winter Season Oct 1, 05 - Apr 30, 06	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	64000
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	30996
%	48%
1-4 Water Requirement (m.m3)	157.71
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	157.71
Water Supply	
1- Canal (m.m3)	451
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1.066
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	1.066
Total Non-conventional Water	1.066
Total Water Supply (m.m3)	452.07

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	156.546
	101%
2- Water Use index =Supply/Demand	2.01
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	4876

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	294.356
	187%
2- Water Use index =Supply/Demand	2.87
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	7064

Annual Water Supply Index	2.44
Annual per feddan (m3/feddan)	11940

Water Budget and allocation for Arment IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	34200	1- Canal (m.m3)	142
1-2 Rice Area (feddan)		2. Drainage Reuse	4.12
	%	2-1 Official (m.m3)	0.12
1-3 Sugar Cane Area (feddan)	25500	2-2 unofficial (m.m3)	4
	% 75%	3. Groundwater	0
1-4 Water Requirement (m.m3)	182.96	3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	4.12
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	182.96	Total Water Supply (m.m3)	146.12

Winter Season Oct 1, 05 - Apr 30, 06)			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	34200	1- Canal (m.m3)	182
1-2 Rice Area (f)		2. Drainage Reuse	4.12
	%	2-1 Official (m.m3)	0.12
1-3 Sugar Cane Area (f)	25500	2-2 unofficial (m.m3)	4
	% 75%	3. Groundwater	0
1-4 Water Requirement (m.m3)	170.6	3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	4.12
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	170.6	Total Water Supply (m.m3)	186.12

Indicators			
1- Water Surplus/deficit (m.m3)			-36.842
			-20%
2- Water Use index =Suppy/Demand			0.80
3- % of non-Conventional Water			3%
4- Per feddan water delivery (m3/y)			4273

Indicators			
1- Water Surplus/deficit (m.m3)			15.52
			9%
2- Water Use index =Suppy/Demand			1.09
3- % of non-Conventional Water			2%
4- Per feddan water delivery (m3/y)			5442

Annual Water Supply Index	0.94
Annual per feddan (m3/feddan)	9715

Water Budget and allocation for Aswan IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	14354	1- Canal (m.m3)	76.65
1-2 Rice Area (feddan)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (feddan)	3030	2-2 unofficial (m.m3)	0
	%	21%	
1-4 Water Requirement (m.m3)	63.508	3. Groundwater	0
		3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	1.135		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	64.643	Total Water Supply (m.m3)	76.65

Winter Season Oct 1, 05 - Apr 30, 06)			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	14354	1- Canal (m.m3)	88.179
1-2 Rice Area (f)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (f)	3200	2-2 unofficial (m.m3)	0
	%	22%	
1-4 Water Requirement (m.m3)	83.046	3. Groundwater	0
		3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	1.135		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	84.181	Total Water Supply (m.m3)	88.179

Indicators			
1- Water Surplus/deficit (m.m3)			12.007
			19%
2- Water Use index =Supply/Demand			1.19
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			5340

Indicators			
1- Water Surplus/deficit (m.m3)			3.998
			5%
2- Water Use index =Supply/Demand			1.05
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			6143

Annual Water Supply Index	1.11
Annual per feddan (m3/feddan)	11483

Water Budget and allocation for Tweissa IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	30210	1- Canal (m.m3)	203
1-2 Rice Area (feddan)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (feddan)	25000	2-2 unofficial (m.m3)	0
	%	3. Groundwater	0
	83%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	210	3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	1.8		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	211.8	Total Water Supply (m.m3)	203

Winter Season Oct 1, 05 - Apr 30, 06)			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	30210	1- Canal (m.m3)	256
1-2 Rice Area (f)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (f)	25000	2-2 unofficial (m.m3)	0
	%	3. Groundwater	0
	83%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	190	3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	1.7		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	191.7	Total Water Supply (m.m3)	256

Indicators			
1- Water Surplus/deficit (m.m3)			-8.8
			-4%
2- Water Use index =Suppy/Demand			0.96
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			6720

Indicators			
1- Water Surplus/deficit (m.m3)			64.3
			34%
2- Water Use index =Suppy/Demand			1.34
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			8474

Annual Water Supply Index	1.14
Annual per feddan (m3/feddan)	15194

Water Budget and allocation for Kom Imbou IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	39768	1- Canal (m.m3)	296
1-2 Rice Area (feddan)		2. Drainage Reuse	17
	%	2-1 Official (m.m3)	17
1-3 Sugar Cane Area (feddan)	29312	2-2 unofficial (m.m3)	0
	%	3. Groundwater	0
	74%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	373.6	3-2 Individual (m.m3)	0
		Total Non-conventional Water	17
2. Municipal (m.m3)	3.88		
3. Industry (m.m3)	16.5		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	393.98	Total Water Supply (m.m3)	313

Winter Season Oct 1, 05 - Apr 30, 06)			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	39768	1- Canal (m.m3)	363
1-2 Rice Area (f)		2. Drainage Reuse	9.4
	%	2-1 Official (m.m3)	9.4
1-3 Sugar Cane Area (f)	29312	2-2 unofficial (m.m3)	0
	%	3. Groundwater	0
	74%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	426.3	3-2 Individual (m.m3)	0
		Total Non-conventional Water	9.4
2. Municipal (m.m3)	5.44		
3. Industry (m.m3)	16.5		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	448.24	Total Water Supply (m.m3)	372.4

Indicators			
1- Water Surplus/deficit (m.m3)			-80.98
			-21%
2- Water Use index =Suppy/Demand			0.79
3- % of non-Conventional Water			5%
4- Per feddan water delivery (m3/y)			7871

Indicators			
1- Water Surplus/deficit (m.m3)			-75.84
			-17%
2- Water Use index =Suppy/Demand			0.83
3- % of non-Conventional Water			3%
4- Per feddan water delivery (m3/y)			9364

Annual Water Supply Index	0.81
Annual per feddan (m3/feddan)	17235

Water Budget and allocation for Selsela IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	37390	1- Canal (m.m3)	173
1-2 Rice Area (feddan)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (feddan)	20609	2-2 unofficial (m.m3)	0
	%	3. Groundwater	0
	55%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	136.2	3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	136.2	Total Water Supply (m.m3)	173

Winter Season Oct 1, 05 - Apr 30, 06)			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	37390	1- Canal (m.m3)	211
1-2 Rice Area (f)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (f)	20609	2-2 unofficial (m.m3)	0
	%	3. Groundwater	0
	55%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	102.4	3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	102.4	Total Water Supply (m.m3)	211

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			36.8
			27%
2- Water Use index =Supply/Demand			1.27
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			4627

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			108.6
			106%
2- Water Use index =Supply/Demand			2.06
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			5643

Annual Water Supply Index	1.61
Annual per feddan (m3/feddan)	10270

Water Budget and allocation for Id fou East IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	30641
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	18984
%	62%
1-4 Water Requirement (m.m3)	165.65
2. Municipal (m.m3)	0.3
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	165.95
Water Supply	
1- Canal (m.m3)	202
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Supply (m.m3)	202

Winter Season Oct 1, 05 - Apr 30, 06	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	30641
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	18984
%	62%
1-4 Water Requirement (m.m3)	225.2
2. Municipal (m.m3)	0.42
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	225.62
Water Supply	
1- Canal (m.m3)	279
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Supply (m.m3)	279

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	36.05
	22%
2- Water Use index =Suppy/Demand	1.22
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	6592

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	53.38
	24%
2- Water Use index =Suppy/Demand	1.24
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	9105

Annual Water Supply Index	1.23
Annual per feddan (m3/feddan)	15698

Water Budget and allocation for Id fou West IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	31335
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	25000
%	80%
1-4 Water Requirement (m.m3)	187
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	187
Water Supply	
1- Canal (m.m3)	198
2. Drainage Reuse	6.61
2-1 Official (m.m3)	6.61
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	6.61
Total Water Supply (m.m3)	204.61

Winter Season Oct 1, 05 - Apr 30, 06)	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	31335
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	25000
%	80%
1-4 Water Requirement (m.m3)	109.06
2. Municipal (m.m3)	0.5
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	109.56
Water Supply	
1- Canal (m.m3)	188
2. Drainage Reuse	2.28
2-1 Official (m.m3)	2.28
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	2.28
Total Water Supply (m.m3)	190.28

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	17.61
	9%
2- Water Use index =Suppy/Demand	1.09
3- % of non-Conventional Water	3%
4- Per feddan water delivery (m3/y)	6530

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	80.72
	74%
2- Water Use index =Suppy/Demand	1.74
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	6072

Annual Water Supply Index	1.33
Annual per feddan (m3/feddan)	12602

Water Budget and allocation for Saayda IWMD 2005/2006

Summer Season (May 1, 05 - Sep 30, 05)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	30000	1- Canal (m.m3)	189
1-2 Rice Area (feddan)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (feddan)		2-2 unofficial (m.m3)	0
	%	0%	
1-4 Water Requirement (m.m3)		3. Groundwater	0
		3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	0	Total Water Supply (m.m3)	189

Winter Season Oct 1, 05 - Apr 30, 06)			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	30000	1- Canal (m.m3)	220
1-2 Rice Area (f)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (f)		2-2 unofficial (m.m3)	0
	%	0%	
1-4 Water Requirement (m.m3)		3. Groundwater	0
		3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	0	Total Water Supply (m.m3)	220

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			189 #####
2- Water Use index =Supply/Demand			#DIV/0!
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			6300

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			220 #####
2- Water Use index =Supply/Demand			#DIV/0!
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			7333

Annual Water Supply Index	#DIV/0!
Annual per feddan (m3/feddan)	13633

5- IWMD Budget Analysis for year 2006/2007

Water Budget and allocation for North Zifta IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	43230
1-2 Rice Area (feddan)	19197
%	44%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	156
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	156
Water Supply	
1- Canal (m.m3)	139
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	9
3-1 Governmental (m.m3)	7
3-2 Individual (m.m3)	2
Total Non-conventional Water	9
Total Water Supply (m.m3)	148

Winter Season Oct 1, 06- Apr 30, 07)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	43230
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	128
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	128
Water Supply	
1- Canal (m.m3)	108
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	5.5
3-1 Governmental (m.m3)	4.5
3-2 Individual (m.m3)	1
Total Non-conventional Water	5.5
Total Water Supply (m.m3)	113.5

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-8
	-5%
2- Water Use index =Suppy/Demand	0.95
3- % of non-Conventional Water	6%
4- Per feddan water delivery (m3/y)	3424

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-14.5
	-11%
2- Water Use index =Suppy/Demand	0.89
3- % of non-Conventional Water	5%
4- Per feddan water delivery (m3/y)	2625

Annual Water Supply Index	0.92
Annual per feddan (m3/feddan)	6049

Water Budget and allocation for Santa IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)		Water Supply	
Water Demand			
1. Agriculture req.			
1-1 Area Served (feddan)	51175	1- Canal (m.m3)	287
1-2 Rice Area (feddan)	16290	2. Drainage Reuse	0
%	32%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (feddan)		2-2 unofficial (m.m3)	0
%		3. Groundwater	5.1
1-4 Water Requirement (m.m3)	192	3-1 Governmental (m.m3)	0.6
		3-2 Individual (m.m3)	4.5
		Total Non-conventional Water	5.1
2. Municipal (m.m3)	6.08		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	198.08	Total Water Supply (m.m3)	292.1

Winter Season Oct 1, 06 - Apr 30, 07		Water Supply	
Water Demand			
1. Agriculture			
1-1 Area Served (f)	51175	1- Canal (m.m3)	172
1-2 Rice Area (f)		2. Drainage Reuse	0
%		2-1 Official (m.m3)	0
1-3 Sugar Cane Area (f)		2-2 unofficial (m.m3)	0
%		3. Groundwater	7.14
1-4 Water Requirement (m.m3)	131	3-1 Governmental (m.m3)	0.84
		3-2 Individual (m.m3)	6.3
		Total Non-conventional Water	7.14
2. Municipal (m.m3)	8.52		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	139.52	Total Water Supply (m.m3)	179.14

<u>Indicators</u>		
1- Water Surplus/deficit (m.m3)		94.02
		47%
2- Water Use index =Supply/Demand		1.47
3- % of non-Conventional Water		2%
4- Per feddan water delivery (m3/y)		5708

<u>Indicators</u>		
1- Water Surplus/deficit (m.m3)		39.62
		28%
2- Water Use index =Supply/Demand		1.28
3- % of non-Conventional Water		4%
4- Per feddan water delivery (m3/y)		3501

Annual Water Supply Index	1.40
Annual per feddan (m3/feddan)	9208

Water Budget and allocation for Quesna IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	53250
1-2 Rice Area (feddan)*	12000
%	23%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	213
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	213

Water Supply	
1- Canal (m.m3)	125
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1.5
3-1 Governmental (m.m3)	1
3-2 Individual (m.m3)	0.5
Total Non-conventional Water	1.5
Total Water Supply (m.m3)	126.5

* Rice official area is 34000 feddans

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	53250
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	143
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	143

Water Supply	
1- Canal (m.m3)	143
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1
3-1 Governmental (m.m3)	0.5
3-2 Individual (m.m3)	0.5
Total Non-conventional Water	1
Total Water Supply (m.m3)	144

Indicators	
1- Water Surplus/deficit (m.m3)	-86.5
	-41%
2- Water Use index =Suppy/Demand	0.59
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	2376

Indicators	
1- Water Surplus/deficit (m.m3)	1
	1%
2- Water Use index =Suppy/Demand	1.01
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	2704

Annual Water Supply Index	0.76
Annual per feddan (m3/feddan)	5080

Water Budget and allocation for South Zifta IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	39650
1-2 Rice Area (feddan)	11699
%	30%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	172
2. Municipal (m.m3)	0.43
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	172.43
Water Supply	
1- Canal (m.m3)	162
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0.424
3-1 Governmental (m.m3)	0.424
3-2 Individual (m.m3)	0
Total Non-conventional Water	0.424
Total Water Supply (m.m3)	162.42

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	39650
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	98
2. Municipal (m.m3)	0.43
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	98.43
Water Supply	
1- Canal (m.m3)	179
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0.424
3-1 Governmental (m.m3)	0.424
3-2 Individual (m.m3)	0
Total Non-conventional Water	0.424
Total Water Supply (m.m3)	179.42

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	-10.006
	-6%
2- Water Use index =Supply/Demand	0.94
3- % of non-Conventional Water	0.3%
4- Per feddan water delivery (m3/y)	4096

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	80.994
	82.3%
2- Water Use index =Supply/Demand	1.82
3- % of non-Conventional Water	0.2%
4- Per feddan water delivery (m3/y)	4525

Annual Water Supply Index	1.26
Annual per feddan (m3/feddan)	8622

Water Budget and allocation for Berket Elsabaa IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)		Water Supply	
Water Demand			
1. Agriculture req.			
1-1 Area Served (feddan)	39490	1- Canal (m.m3)	106
1-2 Rice Area (feddan)*	300	2. Drainage Reuse	9.225
%	1%	2-1 Official (m.m3)	0
1-3 Sugar Cane Area (feddan)		2-2 unofficial (m.m3)	9.225
%		3. Groundwater	11.375
1-4 Water Requirement (m.m3)	158	3-1 Governmental (m.m3)	0.875
		3-2 Individual (m.m3)	10.5
		Total Non-conventional Water	20.6
2. Municipal (m.m3)	0.3		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	158.3	Total Water Supply (m.m3)	126.6

* Legal rice area is 0 feddans

Winter Season Oct 1, 06 - Apr 30, 07		Water Supply	
Water Demand			
1. Agriculture			
1-1 Area Served (f)	39490	1- Canal (m.m3)	101
1-2 Rice Area (f)		2. Drainage Reuse	9.744
%		2-1 Official (m.m3)	0
1-3 Sugar Cane Area (f)		2-2 unofficial (m.m3)	9.744
%		3. Groundwater	15.923
1-4 Water Requirement (m.m3)	131	3-1 Governmental (m.m3)	1.223
		3-2 Individual (m.m3)	14.7
		Total Non-conventional Water	25.667
2. Municipal (m.m3)	0.42		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	131.42	Total Water Supply (m.m3)	126.67

Indicators	
1- Water Surplus/deficit (m.m3)	-31.7
	-20%
2- Water Use index =Supply/Demand	0.80
3- % of non-Conventional Water	16%
4- Per feddan water delivery (m3/y)	3206

Indicators	
1- Water Surplus/deficit (m.m3)	-4.753
	-4%
2- Water Use index =Supply/Demand	0.96
3- % of non-Conventional Water	20%
4- Per feddan water delivery (m3/y)	3208

Annual Water Supply Index	0.87
Annual per feddan (m3/feddan)	6413

Water Budget and allocation for Abou Kebir IWMD 2008/2007

Summer Season (May 1, 06 - Sep 30, 06)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	58882	1- Canal (m.m3)	211
1-2 Rice Area (feddan)	26506	2. Drainage Reuse	0.13
%	45%	2-1 Official (m.m3)	0.13
1-3 Sugar Cane Area (feddan)		2-2 unofficial (m.m3)	0
%		3. Groundwater	0
1-4 Water Requirement (m.m3)	215	3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	0.13
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	215	Total Water Supply (m.m3)	211.13

Winter Season Oct 1, 07 - Apr 30, 07)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	58882	1- Canal (m.m3)	165
1-2 Rice Area (feddan)		2. Drainage Reuse	0.95
%		2-1 Official (m.m3)	0.95
1-3 Sugar Cane Area (feddan)		2-2 unofficial (m.m3)	0
%		3. Groundwater	0
1-4 Water Requirement (m.m3)	218	3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	0.95
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	218	Total Water Supply (m.m3)	165.95

<u>Indicators</u>			
1- Water Surplus/deficit (m.m3)			-3.87
			-2%
2- Water Use index =Supply/Demand			0.98
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			3586

<u>Indicators</u>			
1- Water Surplus/deficit (m.m3)			-52.05
			-24%
2- Water Use index =Supply/Demand			0.76
3- % of non-Conventional Water			1%
4- Per feddan water delivery (m3/y)			2818

Annual Water Supply Index	0.87
Annual per feddan (m3/feddan)	6404

Water Budget and allocation for Awlad DSakr IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 07)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	68000
1-2 Rice Area (feddan)*	50000
%	74%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	297
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	297
Water Supply	
1- Canal (m.m3)	150
2. Drainage Reuse	115
2-1 Official (m.m3)	112
2-2 unofficial (m.m3)	3
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	115
Total Water Supply (m.m3)	265

* Rice official area is 34000 feddans

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	68000
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	144
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	144
Water Supply	
1- Canal (m.m3)	99
2. Drainage Reuse	71.61
2-1 Official (m.m3)	70.11
2-2 unofficial (m.m3)	1.5
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	71.61
Total Water Supply (m.m3)	170.61

Indicators	
1- Water Surplus/deficit (m.m3)	-32
	-11%
2- Water Use index =Suppy/Demand	0.89
3- % of non-Conventional Water	43%
4- Per feddan water delivery (m3/y)	3897

Indicators	
1- Water Surplus/deficit (m.m3)	26.61
	18%
2- Water Use index =Suppy/Demand	1.18
3- % of non-Conventional Water	42%
4- Per feddan water delivery (m3/y)	2509

Annual Water Supply Index	0.99
Annual per feddan (m3/feddan)	6406

Water Budget and allocation for Kafr Sakr IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 07)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	52936
1-2 Rice Area (feddan)	27045
%	51%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	187
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	187
Water Supply	
1- Canal (m.m3)	274
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Wate	0
Total Water Supply (m.m3)	274

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	52936
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	109
2. Municipal (m.m3)	21.8
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	130.8
Water Supply	
1- Canal (m.m3)	97
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	4
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	4
Total Non-conventional Water	4
Total Water Supply (m.m3)	101

Indicators	
1- Water Surplus/deficit (m.m3)	87
	47%
2- Water Use index =Supply/Demand	1.47
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	5176

Indicators	
1- Water Surplus/deficit (m.m3)	-29.8
	-23%
2- Water Use index =Supply/Demand	0.77
3- % of non-Conventional Water	4%
4- Per feddan water delivery (m3/y)	1908

Annual Water Supply Index	1.18
Annual per feddan (m3/feddan)	7084

Water Budget and allocation for Ibrahimia IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 07)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	59214
1-2 Rice Area (feddan)	45000
%	0.76
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	235
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	235

Water Supply	
1- Canal (m.m3)	247
2. Drainage Reuse	5
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	5
3. Groundwater	10
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	10
Total Non-conventional Water	15
Total Water Supply (m.m3)	262

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	59214
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	126
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	126

Water Supply	
1- Canal (m.m3)	109
2. Drainage Reuse	2
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	2
3. Groundwater	5
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	5
Total Non-conventional Water	7
Total Water Supply (m.m3)	116

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	27
	11%
2- Water Use index =Suppy/Demand	1.11
3- % of non-Conventional Water	6%
4- Per feddan water delivery (m3/y)	4425

<i>Indicators</i>	
1- Water Surplus/deficit (m.m3)	-10
	-7.9%
2- Water Use index =Suppy/Demand	0.92
3- % of non-Conventional Water	6%
4- Per feddan water delivery (m3/y)	1959

Annual Water Supply Index	1.05
Annual per feddan (m3/feddan)	6384

Water Budget and allocation for Zagazig IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	63685
1-2 Rice Area (feddan)*	38211
%	60%
1-3 Sugar Cane Area (feddan)	
%	
1-4 Water Requirement (m.m3)	237
Water Supply	
1- Canal (m.m3)	251
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1.8
3-1 Governmental (m.m3)	0.07
3-2 Individual (m.m3)	1.73
Total Non-conventional Water	1.8
Total Water Supply (m.m3)	252.8
2. Municipal (m.m3)	
	1.416
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	238.42

* Legal rice area is 10616 feddans

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	63685
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	
1-4 Water Requirement (m.m3)	150
Water Supply	
1- Canal (m.m3)	132
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1.262
3-1 Governmental (m.m3)	0.049
3-2 Individual (m.m3)	1.213
Total Non-conventional Water	1.262
Total Water Supply (m.m3)	133.262
2. Municipal (m.m3)	
	1.416
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	151.42

Indicators	
1- Water Surplus/deficit (m.m3)	14.384
	6.0%
2- Water Use index =Supply/Demand	1.06
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	3970

Indicators	
1- Water Surplus/deficit (m.m3)	-18.154
	-12.0%
2- Water Use index =Supply/Demand	0.88
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	2093

Annual Water Supply Index	0.99
Annual per feddan (m3/feddan)	6062

Water Budget and allocation for Luxor IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	42850
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	25000
%	58%
1-4 Water Requirement (m.m3)	137.53
Water Supply	
1- Canal (m.m3)	130.22
2. Drainage Reuse	2.94
2-1 Official (m.m3)	1.96
2-2 unofficial (m.m3)	0.98
3. Groundwater	7.03
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	7.03
Total Non-conventional Water	9.97
Total Water Supply (m.m3)	
	140.19
2. Municipal (m.m3)	
	0.324
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	137.85

winter Season (oct 1, 06 - apr 30, 07)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	42850
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	25000
%	58%
1-4 Water Requirement (m.m3)	104.62
Water Supply	
1- Canal (m.m3)	147.43
2. Drainage Reuse	0.17
2-1 Official (m.m3)	0.16
2-2 unofficial (m.m3)	0.01
3. Groundwater	0.35
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.35
Total Non-conventional Water	0.52
Total Water Supply (m.m3)	
	147.95
2. Municipal (m.m3)	
	0.486
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	105.11

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	2.335
	2%
2- Water Use index =Supply/Demand	1.02
3- % of non-Conventional Water	7%
4- Per feddan water delivery (m3/y)	3272

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	42.839
	41%
2- Water Use index =Supply/Demand	1.41
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	3453

Annual Water Supply Index	1.19
Annual per feddan (m3/feddan)	6724

Water Budget and allocation for Qous IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)		Water Supply	
Water Demand			
1. Agriculture req.		1- Canal (m.m3)	216
1-1 Area Served (feddan)	36010	2. Drainage Reuse	2.9
1-2 Rice Area (feddan)		2-1 Official (m.m3)	0
%		2-2 unofficial (m.m3)	2.9
1-3 Sugar Cane Area (feddan)	21700	3. Groundwater	2.4
%	60%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	160	3-2 Individual (m.m3)	2.4
		Total Non-conventional Water	5.3
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0	Total Water Supply	221.3
4. Others requireemnts (m.m3)	0		
Total Water Demand			
(m.m3)	160		

winter Season (oct 1, 06 - apr 30, 07)		Water Supply	
Water Demand			
1. Agriculture req.		1- Canal (m.m3)	135
1-1 Area Served (feddan)	36010	2. Drainage Reuse	2.9
1-2 Rice Area (feddan)		2-1 Official (m.m3)	0
%		2-2 unofficial (m.m3)	2.9
1-3 Sugar Cane Area (feddan)	21700	3. Groundwater	2.4
%	60%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	126	3-2 Individual (m.m3)	2.4
		Total Non-conventional Water	5.3
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0	Total Water Supply	140.3
4. Others requireemnts (m.m3)	0		
Total Water Demand			
(m.m3)	126		

<u>Indicators</u>		
1- Water Surplus/deficit (m.m3)		61.3
		38%
2- Water Use index =Suppy/Demand		1.38
3- % of non-Conventional Water		2%
4- Per feddan water delivery (m3/y)		6146

<u>Indicators</u>		
1- Water Surplus/deficit (m.m3)		14.3
		11%
2- Water Use index =Suppy/Demand		1.11
3- % of non-Conventional Water		4%
4- Per feddan water delivery (m3/y)		3896

Annual Water Supply Index	1.26
Annual per feddan (m3/feddan)	10042

Water Budget and allocation for Qena IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	49400
1-2 Rice Area (feddan)	
	%
1-3 Sugar Cane Area (feddan)	8000
	% 16%
1-4 Water Requirement (m.m3)	230
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	230
Water Supply	
1- Canal (m.m3)	214
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0.311
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.311
Total Non-conventional Water	0.311
Total Water Supply (m.m3)	214.5

winter Season (oct 1, 06 - apr 30, 07)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	49400
1-2 Rice Area (feddan)	
	%
1-3 Sugar Cane Area (feddan)	8000
	% 16%
1-4 Water Requirement (m.m3)	202
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	202
Water Supply	
1- Canal (m.m3)	272
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0.362
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.362
Total Non-conventional Water	0.362
Total Water Supply (m.m3)	272.36

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-15.499
	-7%
2- Water Use index =Suppy/Demand	0.93
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	4342

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	70.362
	35%
2- Water Use index =Suppy/Demand	1.35
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	5513

Annual Water Supply Index	1.13
Annual per feddan (m3/feddan)	9856

Water Budget and allocation for Deshna IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	50100
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	21875
%	44%
1-4 Water Requirement (m.m3)	206
Water Supply	
1- Canal (m.m3)	184
2. Drainage Reuse	1.53
2-1 Official (m.m3)	1.53
2-2 unofficial (m.m3)	0
3. Groundwater	2
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	2
Total Non-conventional Water	3.53
Total Water Supply (m.m3)	
	187.53
2. Municipal (m.m3)	
	0
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	205.56

winter Season (oct 1, 06 - apr 30, 07)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	50100
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	22787
%	45%
1-4 Water Requirement (m.m3)	189
Water Supply	
1- Canal (m.m3)	207
2. Drainage Reuse	2.12
2-1 Official (m.m3)	2.12
2-2 unofficial (m.m3)	0
3. Groundwater	2.78
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	2.78
Total Non-conventional Water	4.9
Total Water Supply (m.m3)	
	211.9
2. Municipal (m.m3)	
	0
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	189

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-18.03
	-8.77%
2- Water Use index =Supply/Demand	0.91
3- % of non-Conventional Water	2%
4- Per feddan water delivery (m3/y)	3743

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	22.9
	12%
2- Water Use index =Supply/Demand	1.12
3- % of non-Conventional Water	2%
4- Per feddan water delivery (m3/y)	4230

Annual Water Supply Index	1.01
Annual per feddan (m3/feddan)	7973

Water Budget and allocation for Esna IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	59970	1- Canal (m.m3)	322
1-2 Rice Area (feddan)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (feddan)	22552	3. Groundwater	0
	%	3-1 Governmental (m.m3)	0
	38%	3-2 Individual (m.m3)	0
1-4 Water Requirement (m.m3)	294	Total Non-conventional Water	0
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	294	Total Water Supply (m.m3)	322

Winter Season Oct 1, 06 - Apr 30, 07			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	65170	1- Canal (m.m3)	358.5
1-2 Rice Area (f)	0	2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (f)	22552	3. Groundwater	1
	%	3-1 Governmental (m.m3)	0
	35%	3-2 Individual (m.m3)	1
1-4 Water Requirement (m.m3)	264.9	Total Non-conventional Water	1
2. Municipal (m.m3)	0.3		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	265.2	Total Water Supply (m.m3)	359.5

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			28
			10%
2- Water Use index =Supply/Demand			1.10
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			5369

<i>Indicators</i>			
1- Water Surplus/deficit (m.m3)			94.3
			36%
2- Water Use index =Supply/Demand			1.36
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			5516

Annual Water Supply Index	1.22
Annual per feddan (m3/feddan)	10886

Water Budget and allocation for Arment IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)			
Water Demand		Water Supply	
1. Agriculture req.			
1-1 Area Served (feddan)	34200	1- Canal (m.m3)	189
1-2 Rice Area (feddan)		2. Drainage Reuse	4.12
	%	2-1 Official (m.m3)	0.12
1-3 Sugar Cane Area (feddan)	25500	2-2 unofficial (m.m3)	4
	%	3. Groundwater	0
	75%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	180	3-2 Individual (m.m3)	0
		Total Non-conventional Water	4.12
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	180	Total Water Supply (m.m3)	193.12

Winter Season Oct 1, 06 - Apr 30, 07			
Water Demand		Water Supply	
1. Agriculture			
1-1 Area Served (f)	34200	1- Canal (m.m3)	185
1-2 Rice Area (f)		2. Drainage Reuse	4.12
	%	2-1 Official (m.m3)	0.12
1-3 Sugar Cane Area (f)	25500	2-2 unofficial (m.m3)	4
	%	3. Groundwater	0
	75%	3-1 Governmental (m.m3)	0
1-4 Water Requirement (m.m3)	173	3-2 Individual (m.m3)	0
		Total Non-conventional Water	4.12
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	173	Total Water Supply (m.m3)	189.12

<u>Indicators</u>			
1- Water Surplus/deficit (m.m3)			13.12
			7%
2- Water Use index =Suppy/Demand			1.07
3- % of non-Conventional Water			2%
4- Per feddan water delivery (m3/y)			5647

<u>Indicators</u>			
1- Water Surplus/deficit (m.m3)			16.12
			9%
2- Water Use index =Suppy/Demand			1.09
3- % of non-Conventional Water			2%
4- Per feddan water delivery (m3/y)			5530

Annual Water Supply Index	1.08
Annual per feddan (m3/feddan)	11177

Water Budget and allocation for Naqada IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	32210
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	4210
%	13%
1-4 Water Requirement (m.m3)	148
2. Municipal (m.m3)	
	0
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	148
Water Supply	
1- Canal (m.m3)	141
2. Drainage Reuse	
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.1
Total Non-conventional Water	0.1
Total Water Supply (m.m3)	
	141.1

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	32210
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	4210
%	13%
1-4 Water Requirement (m.m3)	126
2. Municipal (m.m3)	
	0
3. Industry (m.m3)	
	0
4. Others requireemnts (m.m3)	
	0
Total Water Demand (m.m3)	
	126
Water Supply	
1- Canal (m.m3)	112
2. Drainage Reuse	
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0.1
Total Non-conventional Water	0.1
Total Water Supply (m.m3)	
	112.1

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-6.9
	-5%
2- Water Use index =Supply/Demand	0.95
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	4381

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	-13.9
	-11%
2- Water Use index =Supply/Demand	0.89
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	3480

Annual Water Supply Index	0.92
Annual per feddan (m3/feddan)	7861

Water Budget and allocation for Nagaa Hammadi IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	64000
1-2 Rice Area (feddan)	
	%
1-3 Sugar Cane Area (feddan)	30996
	% 48%
1-4 Water Requirement (m.m3)	171
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	171

Water Supply	
1- Canal (m.m3)	368
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1.066
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	1.066
Total Non-conventional Water	1.066
Total Water Supply (m.m3)	369.07

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	64000
1-2 Rice Area (f)	
	%
1-3 Sugar Cane Area (f)	30996
	% 48%
1-4 Water Requirement (m.m3)	160
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	160

Water Supply	
1- Canal (m.m3)	242
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	1.066
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	1.066
Total Non-conventional Water	1.066
Total Water Supply (m.m3)	243.07

Indicators	
1- Water Surplus/deficit (m.m3)	198.066
	116%
2- Water Use index =Suppy/Demand	2.16
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	5767

Indicators	
1- Water Surplus/deficit (m.m3)	83.066
	52%
2- Water Use index =Suppy/Demand	1.52
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	3798

Annual Water Supply Index	1.85
Annual per feddan (m3/feddan)	9565

Water Budget and allocation for Aswan IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)		Water Supply	
Water Demand			
1. Agriculture req.			
1-1 Area Served (feddan)	14354	1- Canal (m.m3)	79
1-2 Rice Area (feddan)		2. Drainage Reuse	0
		2-1 Official (m.m3)	0
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (feddan)	3030	3. Groundwater	0
		3-1 Governmental (m.m3)	0
	21%	3-2 Individual (m.m3)	0
1-4 Water Requirement (m.m3)	79	Total Non-conventional Water	0
2. Municipal (m.m3)		1.135	
3. Industry (m.m3)		0	
4. Others requireemnts (m.m3)		0	
Total Water Demand (m.m3)		80.135	

Winter Season Oct 1, 06 - Apr 30, 07		Water Supply	
Water Demand			
1. Agriculture			
1-1 Area Served (f)	14354	1- Canal (m.m3)	86
1-2 Rice Area (f)		2. Drainage Reuse	0
		2-1 Official (m.m3)	0
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (f)	3200	3. Groundwater	0
		3-1 Governmental (m.m3)	0
	22%	3-2 Individual (m.m3)	0
1-4 Water Requirement (m.m3)	61	Total Non-conventional Water	0
2. Municipal (m.m3)		1.135	
3. Industry (m.m3)		0	
4. Others requireemnts (m.m3)		0	
Total Water Demand (m.m3)		62.135	

<u>Indicators</u>		
1- Water Surplus/deficit (m.m3)		-1.135
		-1%
2- Water Use index =Supply/Demand		0.99
3- % of non-Conventional Water		0%
4- Per feddan water delivery (m3/y)		5504

<u>Indicators</u>		
1- Water Surplus/deficit (m.m3)		23.865
		38%
2- Water Use index =Supply/Demand		1.38
3- % of non-Conventional Water		0%
4- Per feddan water delivery (m3/y)		5991

Annual Water Supply Index	1.16
Annual per feddan (m3/feddan)	11495

Water Budget and allocation for Kom Imbou IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	39768
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	29312
%	74%
1-4 Water Requirement (m.m3)	152
2. Municipal (m.m3)	3.88
3. Industry (m.m3)	16.5
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	172.38

Water Supply	
1- Canal (m.m3)	280
2. Drainage Reuse	17
2-1 Official (m.m3)	17
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	17
Total Water Supply (m.m3)	297

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	39768
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	29312
%	74%
1-4 Water Requirement (m.m3)	151
2. Municipal (m.m3)	5.44
3. Industry (m.m3)	16.5
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	172.94

Water Supply	
1- Canal (m.m3)	203
2. Drainage Reuse	9.4
2-1 Official (m.m3)	9.4
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	9.4
Total Water Supply (m.m3)	212.4

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	124.62
	72%
2- Water Use index =Supply/Demand	1.72
3- % of non-Conventional Water	6%
4- Per feddan water delivery (m3/y)	7468

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	39.46
	23%
2- Water Use index =Supply/Demand	1.23
3- % of non-Conventional Water	4%
4- Per feddan water delivery (m3/y)	5341

Annual Water Supply Index	1.48
Annual per feddan (m3/feddan)	12809

Water Budget and allocation for Tweissa IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	30210
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	25000
%	83%
1-4 Water Requirement (m.m3)	158
2. Municipal (m.m3)	1.8
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	159.8

Water Supply	
1- Canal (m.m3)	215
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Supply (m.m3)	215

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	30210
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	25000
%	83%
1-4 Water Requirement (m.m3)	112
2. Municipal (m.m3)	1.7
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	113.7

Water Supply	
1- Canal (m.m3)	201
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Supply (m.m3)	201

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	55.2
	35%
2- Water Use index =Supply/Demand	1.35
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	7117

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	87.3
	77%
2- Water Use index =Supply/Demand	1.77
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	6653

Annual Water Supply Index	1.52
Annual per feddan (m3/feddan)	13770

Water Budget and allocation for Selsela IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)			
1. Agriculture req.			
1-1 Area Served (feddan)	37390	1- Canal (m.m3)	166
1-2 Rice Area (feddan)		2. Drainage Reuse	0
%		2-1 Official (m.m3)	0
1-3 Sugar Cane Area (feddan)	20609	2-2 unofficial (m.m3)	0
%	55%	3. Groundwater	0
1-4 Water Requirement (m.m3)	138	3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	138	Total Water Supply (m.m3)	166

Winter Season Oct 1, 06 - Apr 30, 07			
1. Agriculture			
1-1 Area Served (f)	37390	1- Canal (m.m3)	156
1-2 Rice Area (f)		2. Drainage Reuse	0
%		2-1 Official (m.m3)	0
1-3 Sugar Cane Area (f)	20609	2-2 unofficial (m.m3)	0
%	55%	3. Groundwater	0
1-4 Water Requirement (m.m3)	125	3-1 Governmental (m.m3)	0
		3-2 Individual (m.m3)	0
		Total Non-conventional Water	0
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	125	Total Water Supply (m.m3)	156

Indicators			
1- Water Surplus/deficit (m.m3)			28
			20%
2- Water Use index =Supply/Demand			1.20
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			4440

Indicators			
1- Water Surplus/deficit (m.m3)			31
			25%
2- Water Use index =Supply/Demand			1.25
3- % of non-Conventional Water			0%
4- Per feddan water delivery (m3/y)			4172

Annual Water Supply Index	1.22
Annual per feddan (m3/feddan)	8612

Water Budget and allocation for Id fou East IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	30641
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	18984
%	62%
1-4 Water Requirement (m.m3)	199
Water Supply	
1- Canal (m.m3)	204
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Demand (m.m3)	199.3
Total Water Supply (m.m3)	204

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	30641
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	18984
%	62%
1-4 Water Requirement (m.m3)	112
Water Supply	
1- Canal (m.m3)	226
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
2. Municipal (m.m3)	0.42
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	112.42
Total Water Supply (m.m3)	226

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	4.7
	2%
2- Water Use index =Supply/Demand	1.02
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	6658

<u>Indicators</u>	
1- Water Surplus/deficit (m.m3)	113.58
	101%
2- Water Use index =Supply/Demand	2.01
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	7376

Annual Water Supply Index	1.38
Annual per feddan (m3/feddan)	14033

Water Budget and allocation for Id fou West IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	31335
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	25000
%	80%
1-4 Water Requirement (m.m3)	122
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	122

Water Supply	
1- Canal (m.m3)	199
2. Drainage Reuse	6.61
2-1 Official (m.m3)	6.61
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	6.61
Total Water Supply (m.m3)	205.61

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	31335
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	25000
%	80%
1-4 Water Requirement (m.m3)	108
2. Municipal (m.m3)	0.5
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	108.5

Water Supply	
1- Canal (m.m3)	178
2. Drainage Reuse	2.28
2-1 Official (m.m3)	2.28
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	2.28
Total Water Supply (m.m3)	180.28

Indicators	
1- Water Surplus/deficit (m.m3)	83.61
	69%
2- Water Use index =Suppy/Demand	1.69
3- % of non-Conventional Water	3%
4- Per feddan water delivery (m3/y)	6562

Indicators	
1- Water Surplus/deficit (m.m3)	71.78
	66%
2- Water Use index =Suppy/Demand	1.66
3- % of non-Conventional Water	1%
4- Per feddan water delivery (m3/y)	5753

Annual Water Supply Index	1.67
Annual per feddan (m3/feddan)	12315

Water Budget and allocation for Saayda IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)	
Water Demand	
1. Agriculture req.	
1-1 Area Served (feddan)	30000
1-2 Rice Area (feddan)	
%	
1-3 Sugar Cane Area (feddan)	
%	0%
1-4 Water Requirement (m.m3)	90
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	90

Water Supply	
1- Canal (m.m3)	189
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Supply (m.m3)	189

Winter Season Oct 1, 06 - Apr 30, 07	
Water Demand	
1. Agriculture	
1-1 Area Served (f)	30000
1-2 Rice Area (f)	
%	
1-3 Sugar Cane Area (f)	
%	0%
1-4 Water Requirement (m.m3)	90
2. Municipal (m.m3)	0
3. Industry (m.m3)	0
4. Others requireemnts (m.m3)	0
Total Water Demand (m.m3)	90

Water Supply	
1- Canal (m.m3)	220
2. Drainage Reuse	0
2-1 Official (m.m3)	0
2-2 unofficial (m.m3)	0
3. Groundwater	0
3-1 Governmental (m.m3)	0
3-2 Individual (m.m3)	0
Total Non-conventional Water	0
Total Water Supply (m.m3)	220

Indicators	
1- Water Surplus/deficit (m.m3)	99
	110%
2- Water Use index =Suppy/Demand	2.10
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	6300

Indicators	
1- Water Surplus/deficit (m.m3)	130
	144%
2- Water Use index =Suppy/Demand	2.44
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	7333

Annual Water Supply Index	2.27
Annual per feddan (m3/feddan)	13633

Water Budget and allocation for Nokra IWMD 2006/2007

Summer Season (May 1, 06 - Sep 30, 06)		Water Supply	
Water Demand			
1. Agriculture req.			
1-1 Area Served (feddan)	14500	1- Canal (m.m3)	79
1-2 Rice Area (feddan)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (feddan)		3. Groundwater	0
	%	3-1 Governmental (m.m3)	0
	0%	3-2 Individual (m.m3)	0
1-4 Water Requirement (m.m3)	72	Total Non-conventional Water	0
2. Municipal (m.m3)	0		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	72	Total Water Supply (m.m3)	79

Winter Season Oct 1, 06 - Apr 30, 07		Water Supply	
Water Demand			
1. Agriculture			
1-1 Area Served (f)	14500	1- Canal (m.m3)	134
1-2 Rice Area (f)		2. Drainage Reuse	0
	%	2-1 Official (m.m3)	0
		2-2 unofficial (m.m3)	0
1-3 Sugar Cane Area (f)		3. Groundwater	0
	%	3-1 Governmental (m.m3)	0
	0%	3-2 Individual (m.m3)	0
1-4 Water Requirement (m.m3)	45.65	Total Non-conventional Water	0
2. Municipal (m.m3)	0.4		
3. Industry (m.m3)	0		
4. Others requireemnts (m.m3)	0		
Total Water Demand (m.m3)	46.05	Total Water Supply (m.m3)	134

* the current irrigated area is 14500 feddans out of 65000 feddan the reclamation area

Indicators	
1- Water Surplus/deficit (m.m3)	7
	10%
2- Water Use index =Suppy/Demand	1.10
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	5448

Indicators	
1- Water Surplus/deficit (m.m3)	87.95
	191%
2- Water Use index =Suppy/Demand	2.91
3- % of non-Conventional Water	0%
4- Per feddan water delivery (m3/y)	9241

Annual Water Supply Index	1.80
Annual per feddan (m3/feddan)	14690