

PALESTINIAN HYDROLOGY GROUP

Water & Environmental Resources Development



مجموعة الهيدرولوجيين الفلسطينيين
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**In Coordination With:
Palestinian Water Authority (PWA)**

**Water and Sanitation, Hygiene (WaSH)
Monitoring Project:
Impact of the Current Crisis in the West Bank and Gaza Strip
Survey Report # 15
16 – 30 September / 2004**

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Introduction

The **first section** of this report presents a summary of urgent needs in some of the Palestinian communities in the West Bank and Gaza Strip. A Newsflash concerning Gaza Strip was distributed on Thursday, September 30th, 2004.

The **second section** includes summary of results of the information and update for communities surveyed during the previous two weeks. The section includes four major tables with brief comments on the data presented in these tables.

Section one: Urgent needs in Palestinian communities

1. Damages of water infrastructure and shortage of water quantities in the Gaza Strip (Thursday, 30-9-2004).

Gaza Strip

Since the incursion of the northern part of the Gaza Strip (Jabalya, Beit Hanun, Beit Lahya) on September 27th 2004 and until preparation of this flash news today, the following are preliminary information regarding WaSH related damages:

1. The main line supplying water to Al Qarya Al Badawiya community was damaged on the first day of the incursion. Water supply to this community is cut off until now.
2. Access to Balsam clinic (in the northern part near Zayed City) is prohibited due to Israeli tanks.
3. Electricity was cut off from all the northern area of the Strip and some areas in Gaza city after Israeli Army caused damages to the electrical network.
4. Support and relief work to these affected areas is completely prohibited by order of the Israeli Army.

Al Bayouk and Al Fukhary areas have been suffering from shortage of water since September 23rd 2004, when the Israeli Army closed the ground water well serving the communities but which is adjacent to Morag settlement. Population affected by this action is estimated to be about 12,000 capita.

Section two: Summary of information and update for the surveyed communities during the past two weeks.

The WaSH MP has been updating the data collected during the past two years. The new survey will specifically focus upon rapidly or significantly changed or changing data. In addition, the scope of the MP has widened and more specific information regarding Mekorot Company supply during year 2003 and 2004 will be collected, analyzed and distributed during the coming period.

30 communities of the WB and GS have been surveyed during the past two weeks. A new questionnaire has been prepared to illustrate significant changes and elements of interest to key stakeholders.

Collected data is presented in the following tables at the end of this section.

General comments:

Table 1: Water Supply by Tankers for Communities Surveyed during the past two weeks (September / 2004).

Comparisons of prices of tankers water before and after the current Intifada are presented. Most of the communities suffered from the noticeable increase in the price of water, reflecting the effect of closures and curfews on water transport. Effect of checkpoints, fixed and mobile, earth mounds and curfew is estimated in this table, 2 indicates a “severe” effect on water transport and the location is completely blocked, 1 indicates an “intermediate” effect i.e. delays between 1 and 6 hours, and 0 indicates no effect on the water transport.

A comparison of supplied quantities now and before the Intifada is presented.

- The price of tanker water is highest in Ni’lin / Ramallah Governorate (about 32 NIS per cubic meter). In the Gaza Strip, water tankers are used on urgent cases, this is basically when supply through the water network is not possible after Israeli incursions and damage of the water infrastructure. Average cost of tanker water is about 35 NIS per cubic
- The effects of fixed and mobile checkpoints, earth mounds and curfews on water transport are presented in the table, with the numbers indicating the extent of closures as above.
- Supplies of tanker water before and after Intifada are also presented in the same table. Communities that do not have defined quantities in the table do not rely on tankers as a source of water supply for the community.

Table 2: Water supply by Mekorot Company for communities surveyed during the past two weeks (September / 2004).

In Table 2, total water quantities supplied to the communities are collected, and more specifically, quantities supplied by Mekorot Company now and before the

Intifada are collected from local councils of these communities. In this table, “water supplies from all sources” include all water supplied from all sources in that community including supply from Mekorot Company. 17 out of the 30 surveyed communities get all or a considerable part of their supplied quantities from Mekorot Company as a main source of domestic water.

Supplies are reduced in 15 of the communities that get water from Mekorot Company, and 2 communities are not affected by reduction.

Table 3: Effect of checkpoints, earth mounds, and curfews on access to services in the West Bank and Gaza Strip.

In this table, summary of effects of fixed and/or mobile checkpoints, earth mounds, and curfews on access to services including access of water tankers, access of maintenance teams, and access to Public Health Centers (PHC).

Table 4: Damages in water infrastructure during the past two weeks.

This table summarizes damages in water infrastructure in the surveyed communities during the past two weeks. Roof tanks and cisterns remain a major target for Israeli soldiers in many Palestinian Governorates. Details are available in the table below.

Table 1: Water Supply by Tankers for Communities Surveyed during the past two weeks (Sept / 2004).

No.	Comm. ID	Comm. Name	District	Date	Tanker W. price (NIS / m ³)		Check Points (CP) effect on tankers					W.Tankers Supply (m3/month)		Damaged tankers (No.)		
					During Intifada	Before Intifada	Fixed CP	Fixed CP name	Mobile CP	Earth mounds effect	Curfew effect	Current	Regular	Comp.	Partial	
1	50610	Tubas	Tubas	30/08/2004	8.0	6.0			1				2800	2800		
2	100475	'Illar	Tulkarem	06/09/2004	8.0	10.0	1	'Illar / Baqa Al Sharqiya checkpoint	2	0	2		7000	7000		
3	100530	Deir al Ghusun	Tulkarem	30/08/2009												
4	151010	Rujeib	Nablus	29/08/2009									3000	3000		
5	151135	'Awarta	Nablus	08/09/2004	12.0	6.5			1	1	1		200	300		
6	200985	Jayyus	Qalqiliya	08/09/2004	20.0	20.0	0		1	0	0		1000	1000		
7	201175	Kafr Thulth	Qalqiliya	08/09/2004			1	Al Azabeh	1	0	0		12000	12000		
8	251275	Qarawat Bani Hassan	Salfit	06/09/2004			0		0	1	0					
9	251425	Kafr ad Dik	Salfit	06/09/2004	7.5		0		1	1	1		3200	3200		
10	301715	Ni'lin	Ramallah	22/09/2004	32.0	20.0	1	Ni'lin	0	NA	1		360	350		
11	301760	Bil'in	Ramallah	22/09/2004			NA		NA	NA	NA					
12	301780	Deir Ibzi'	Ramallah	22/09/2004												
13	301805	Saffa	Ramallah	18/09/2004			NA		NA	NA	NA					
14	301860	Beit 'Ur al Fauqa	Ramallah	18/09/2004			NA		NA	NA	NA					
15	452425	Abu Nujeim	Betlehem	15/09/2004	15.0	8.0							300	100		
16	452495	Tuqu'	Betlehem	20/09/2004	15.0	10.0	1	Efrat	1	1			2000	500		
17	452520	Khirbet Tuqu'	Betlehem	20/09/2004	15.0	10.0	1	Efrat	1	1			50	20		
18	452525	Beit Fajjar	Betlehem	16/09/2004	15.0	8.0	1	Gush Etzion					2000	1000		
19	452535	Al Maniya	Betlehem	21/09/2004	15.0	10.0	1	Efrat	1	1			200	100		

No.	Comm. ID	Comm. Name	District	Date	Tanker W. price (NIS / m ³)		Check Points (CP) effect on tankers					W.Tankers Supply (m3/month)		Damaged tankers (No.)	
					During Intifada	Before Intifada	Fixed CP	Fixed CP name	Mobile CP	Earth mounds effect	Curfew effect	Current	Regular	Comp.	Partial
20	452565	Kisan	Betlehem	22/09/2004	15.0	10.0	1	Efrat	1	1		150	50		
21	452660	'Arab ar Rashayida	Betlehem	18/09/2004	15.0	10.0			1			200	50		
22	452670	Al 'Azazima	Betlehem	18/09/2004	15.0	10.0			1			80	120		
23	502515	Khirbet Mushrif	Hebron	19/09/2004	20.0	10.0			1			30	20		
24	502555	Shuyukh al 'Arrub	Hebron	23/09/2004	10.0	5.0	1	Gush Etzion	1			200	100		
25	502640	Tarqumiya	Hebron	25/09/2004	10.0	5.0						3000	1000		
26	552695	Beit Lahiya	North Gaza	25/09/2004	35.0	35.0	0		0	0	0				
27	552740	Beit Hanun	North Gaza	25/09/2004	35.0	35.0	0		0	0	0				
28	653140	Al Bureij Camp	Deir Al-Balah	25/09/2004			0								
29	703455	Qa' al Kharaba	Khan Yunis	25/09/2004	35.0	35.0	NA		0	0	0				
30	753500	Al Bayuk	Rafah	25/09/2004	35.0	35.0	0		0	0	0				

Table 2: Water supply by Mekorot Company for communities surveyed during the past two weeks (Sept/ 2004).

No.	Comm. ID	Comm. Name	District	Date	Water supply (m3/month)		
					From all sources	Mekorot Supply (current)	Mekorot Supply (regular)
1	50610	Tubas	Tubas	30/08/2004	35800		
2	100475	'Illar	Tulkarem	06/09/2004	7000		
3	100530	Deir al Ghusun	Tulkarem	30/08/2009	21500		
4	151010	Rujeib	Nablus	29/08/2009	14000	8000	8000
5	151135	'Awarta	Nablus	08/09/2004	9000		
6	200985	Jayyus	Qalqiliya	08/09/2004	9845		
7	201175	Kafr Thulth	Qalqiliya	08/09/2004	12000		
8	251275	Qarawat Bani Hassan	Salfit	06/09/2004	7500	6000	
9	251425	Kafr ad Dik	Salfit	06/09/2004	3200		
10	301715	Ni'lin	Ramallah	22/09/2004		14000	18000
11	301760	Bil'in	Ramallah	22/09/2004	4000	3200	4500
12	301780	Deir lbzi'	Ramallah	22/09/2004		2700	3000
13	301805	Saffa	Ramallah	18/09/2004	3500	3500	5000
14	301860	Beit 'Ur al Fauqa	Ramallah	18/09/2004	2600	2500	2800
15	452425	Abu Nujeim	Betlehem	15/09/2004	800	500	1000
16	452495	Tuqu'	Betlehem	20/09/2004	7000	5000	8000
17	452520	Khirbet Tuqu'	Betlehem	20/09/2004	100	50	100
18	452525	Beit Fajjar	Betlehem	16/09/2004	12000	10000	15000
19	452535	Al Maniya	Betlehem	21/09/2004	800	500	700
20	452565	Kisan	Betlehem	22/09/2004	300	150	300
21	452660	'Arab ar Rashayida	Betlehem	18/09/2004	1000	800	1200
22	452670	Al 'Azazima	Betlehem	18/09/2004	80		
23	502515	Khirbet Mushrif	Hebron	19/09/2004	50	20	50
24	502555	Shuyukh al 'Arrub	Hebron	23/09/2004	1200	800	1200
25	502640	Tarqumiya	Hebron	25/09/2004	14000	8000	12000
26	552695	Beit Lahiya	North Gaza	25/09/2004	400000		
27	552740	Beit Hanun	North Gaza	25/09/2004	30000		
28	653140	Al Bureij Camp	Deir Al-Balah	25/09/2004	80000		
29	703455	Qa' al Kharaba	Khan Yunis	25/09/2004	3000		
30	753500	Al Bayuk	Rafah	25/09/2004	12000		

No.	Comm. ID	Comm. Name	District	Date	Fixed check point effect on						Mobile check point effect on			Earth mounds effect on			Curfew effect on		
					Tankers	Ch. Point name	Maintenance teams	Ch. Point name	PHC access	Ch. Point name	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access
13	301805	Saffa	Ramallah	18/09/2004	NA		NA		NA		NA	0	0	NA	NA	NA	NA	0	0
14	301860	Beit 'Ur al Fauqa	Ramallah	18/09/2004	NA		NA		NA		NA	0	0	NA	NA	NA	NA	1	1
15	452425	Abu Nujeim	Betlehem	15/09/2004															
16	452495	Tuqu'	Betlehem	20/09/2004	1	Efrat	0		1	Za'tara	1	1	1	1	1	1			
17	452520	Khirbet Tuqu'	Betlehem	20/09/2004	1	Efrat	0		1	Za'tara	1	1	1	1	1	1			
18	452525	Beit Fajar	Betlehem	16/09/2004	1	Gush Etzion	0	Gush Etzion	1	Gush Etzion									
19	452535	Al Maniya	Betlehem	21/09/2004	1	Efrat	0		1	Za'tara	1	1	1	1	1	1			
20	452565	Kisan	Betlehem	22/09/2004	1	Efrat	0		1	Za'tara	1	1	1	1	1	1			
21	452660	'Arab ar Rashayida	Betlehem	18/09/2004							1		1						
22	452670	Al 'Azazima	Betlehem	18/09/2004							1		1						
23	502515	Khirbet Mushrif	Hebron	19/09/2004							1	0	1						
24	502555	Shuyukh al 'Arrub	Hebron	23/09/2004	1	Gush Etzion	0		1	Gush Etzion	1	1	1						
25	502640	Tarqumiya	Hebron	25/09/2004															
26	552695	Beit Lahiya	North Gaza	25/09/2004	0		NA		NA		0	1	1	0	1	1	0	1	2
27	552740	Beit Hanun	North	25/09/2004	0		1	Netsaneet	1	Netsaneet	0	1	1	0	1	1	0	2	2

No.	Comm. ID	Comm. Name	District	Date	Fixed check point effect on						Mobile check point effect on			Earth mounds effect on			Curfew effect on		
					Tankers	Ch. Point name	Maintenance teams	Ch. Point name	PHC access	Ch. Point name	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access
28	653140	Al Bureij Camp	Gaza Deir Al-Balah	25/09/2004	0		1	Netsareem	1	Netsareem		1	1		1	1		1	1
29	703455	Qa' al Kharaba	Khan Yunis	25/09/2004	NA		1	Morag settlement	0		0	1	1	0	1	1	0	1	1
30	753500	Al Bayuk	Rafah	25/09/2004	0		1	Morag settlement	1	Morag settlement	0	2	2	0	1	1	0	2	2

Table 4: Damages in water infrastructure during the past two weeks

No.	Community ID	Community Name	District	Date	Wells		Springs		Tankers		Roof Tanks	Cisterns	Reservoirs		Water Network Destruction		
					Comp.	Part.	Comp.	Part.	Comp.	Part.			Comp.	Part.	Main Lines	Secondary Lines	% of affected population
1	100475	'Illar	Tulkarem	06/09/2004		3					40	50					
2	151135	'Awarta	Nablus	08/09/2004							50	10					
3	201175	Kafr Thulth	Qalqiliya	08/09/2004				1									
4	552695	Beit Lahiya	North Gaza	25/09/2004											No	Yes	10
5	703455	Qa' al Kharaba	Khan Yunis	25/09/2004											No	Yes	5
6	753500	Al Bayuk	Rafah	25/09/2004		1					50				Yes	No	90