

PALESTINIAN HYDROLOGY GROUP

Water & Environmental Resources Development



مجموعة الهيدرولوجيين الفلسطينيين

لتطوير مصادر المياه والبيئة

**Project funded by:**



EUROPEAN COMMISSION  
EUROPEAN COMMUNITY HUMANITARIAN OFFICE (ECHO)



OXFAM-GB

**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 # 16  
1 – 15 October / 2004**

*For more information, please call:*  
Eng. Basema Bashir/ PHG  
Tel. 02/6565887 or 02/6565890  
E-mail: [bashir@phg.org](mailto:bashir@phg.org)  
Website: <http://www.phg.org/campaign>

**Summary of information and update for the surveyed communities during the past two weeks** (October 1<sup>st</sup> through October 15<sup>th</sup>).

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.

37 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 (October / 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 Deir Dibwan and ‘Abwein communities / Ramallah Governorate (30 and 22 NIS per cubic meter respectively).
- 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.
- The Separation Wall and its gates show a considerable effect on movements of water tankers especially in Qalqiliya and Hebron Governorates as shown in the table.
- 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. In general, the table shows that quantities of water supplied by tankers to communities in Hebron and Bethlehem Governorates increased during the current Intifada.

**Table 2: Water supply by Mekorot Company for communities surveyed during the past two weeks (October / 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. 29 out of the 37 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 23 of the communities that get water from Mekorot Company, and 6 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.



No.	Comm. ID	Comm. Name	District	Date	Tanker W. price (NIS / m <sup>3</sup> )		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	
22	402145	As Sawahira ash Sharqiya	Jerusalem	02/10/2004												
23	452170	Al Walaja	Betlehem	05/10/2004	15.0	10.0	2	Al Walaja / Beit Jala				200	50			
24	452265	Ad Doha	Betlehem	30/09/2004	15.0	10.0						2000	500			
25	452270	Al Khadr	Betlehem	30/09/2004	15.0	10.0						1000	500			
26	452280	Hindaza	Betlehem	06/10/2004	15.0	10.0						300	100			
27	452345	Khallet al Louza	Betlehem	07/10/2011	15.0	10.0						100	50			
28	502450	Surif	Hebron	02/10/2004	20.0	10.0	2	Gush Etzion and Beit Ummar Gate	1	2		3000	1000			
29	502550	Hitta	Hebron	27/09/2004	15.0	10.0			1			300	100			
30	502570	Qila	Hebron	03/10/2004	15.0	10.0						300	100			
31	502585	Nuba	Hebron	04/10/2004	20.0	10.0	1	Beit Kahil Gate	1			1000	500			
32	502590	'Irqan Turad	Hebron	07/10/2004	20.0	10.0						200	100			
33	502595	Kuziba	Hebron	09/10/2004	15.0	10.0						100	50			
34	502650	Qafan al Khamis	Hebron	09/10/2004	15.0	10.0						300	100			
35	502665	Ras at Tawil	Hebron	10/10/2004	15.0	10.0						200	100			
36	502710	Al Khamajat	Hebron	28/09/2004	10.0	5.0						40	20			
37	502815	Bani Na'im	Hebron	27/09/2004	20.0	10.0			1			4000	2000			

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

No.	Comm. ID	Comm. Name	District	Date	Water supply (m3/month)		
					From all sources	Mekorot Supply (current)	Mekorot Supply (regular)
1	10340	Qabatiya	Jenin	21/09/2004	45000		
2	100595	Iktaba	Tulkarem	25/09/2004	7500	7500	7500
3	150765	Sabastiya	Nablus	20/09/2004	7500		
4	150950	Sarra	Nablus	22/09/2004	4000		
5	200965	Baqat al Hatab	Qalqiliya	23/09/2004	3000		
6	201015	Far'ata	Qalqiliya	10/10/2004	1400	300	300
7	201020	Immatin	Qalqiliya	10/10/2004	4500	1500	1500
8	201065	Kafr Laqif	Qalqiliya	10/10/2004	2000	2000	2000
9	201125	Habla	Qalqiliya	10/10/2004	30000	30000	38460
10	251250	Deir Istiya	Salfit	10/10/2004	5000	5000	5000
11	251430	Deir Ballut	Salfit	10/10/2004	8000	8000	8000
12	301485	'Abwein	Ramallah	02/10/2004	5000		
13	301500	Sinjil	Ramallah	30/09/2004	11000		
14	301520	Jilijliya	Ramallah	30/09/2004	1900		
15	301550	Umm Safa	Ramallah	02/10/2004	1500		
16	301785	Deir Dibwan	Ramallah	29/09/2004	9800	1000	2000
17	301800	'Ein 'Arik	Ramallah	02/10/2004	3800	3000	3200
18	301815	Burqa	Ramallah	10/10/2004	5000	3000	5000
19	401935	Jaba'	Jerusalem	30/09/2004	6500	6500	7000
20	402100	Al 'Eizariya	Jerusalem	02/10/2004	28000	16000	31000
21	402120	Abu Dis	Jerusalem	02/10/2004	19000	8000	19000
22	402145	As Sawahira ash Sharqiya	Jerusalem	02/10/2004	9000	5000	10000
23	452170	Al Walaja	Betlehem	05/10/2004	2000	1500	2000
24	452265	Ad Doha	Betlehem	30/09/2004	8000	5000	8000
25	452270	Al Khadr	Betlehem	30/09/2004	10000	8000	12000
26	452280	Hindaza	Betlehem	06/10/2004	2000	1500	2000
27	452345	Khallet al Louza	Betlehem	07/10/2011	400	300	400
28	502450	Surif	Hebron	02/10/2004	15000	10000	15000
29	502550	Hitta	Hebron	27/09/2004	1000	500	800
30	502570	Qila	Hebron	03/10/2004	1000	500	1000
31	502585	Nuba	Hebron	04/10/2004	5000	3000	6000
32	502590	'Irqan Turad	Hebron	07/10/2004	500	300	500
33	502595	Kuziba	Hebron	09/10/2004	500	300	500
34	502650	Qafan al Khamis	Hebron	09/10/2004	1500	1000	1500
35	502665	Ras at Tawil	Hebron	10/10/2004	700	500	800
36	502710	Al Khamajat	Hebron	28/09/2004	120	80	120
37	502815	Bani Na'im	Hebron	27/09/2004	20000	15000	25000

**Table 3: Effect of checkpoints, earth mounds, and curfews on access to services in the surveyed communities.**

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
1	10340	Qabatiya	Jenin	21/09/2004							1	1	1						
2	100595	Iktaba	Tulkarem	25/09/2004														1	1
3	150765	Sabastiya	Nablus	20/09/2004				2	Beit Iba / Shavy Shamron settlement		2	2	2	NA	NA	NA	1	1	1
4	150950	Sarra	Nablus	22/09/2004				1	Beit Iba								2	2	2
5	200965	Baqat al Hatab	Qalqiliya	23/09/2004	2	WAL Gate / Qalqiliya checkpoint	0	1	Nablus / Beit Iba		2	0	1	NA	NA	NA	NA	NA	NA
6	201015	Far'ata	Qalqiliya	10/10/2004	2	WAL Gate		2	Beit Iba		2	2	2	1	1	1	1	1	1
7	201020	Immatin	Qalqiliya	10/10/2004	2	WAL Gate		1	Beit Iba		2	2	2	1	1	1	2	2	2
8	201065	Kafr Laqif	Qalqiliya	10/10/2004				1	Beit Iba			2	1	2	2	2		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
				4															
9	201125	Habla	Qalqiliya	10/10/2004			2	Qalqiliya	2	Qalqiliya	2	2	2	2	2	2	2	2	2
10	251250	Deir Istiya	Salfit	10/10/2004					1	Beit Iba and Qalqiliya	2	2	2	2	2	2	1	1	1
11	251430	Deir Ballut	Salfit	10/10/2004			2	Howwara and Deir Ballout	2	Howwara and Deir Ballout		2	2		1	1		1	1
12	301485	'Abwein	Ramallah	02/10/2004	NA		1	'Atarah	1	'Atarah	0	1	0	NA	NA	NA	0	0	0
13	301500	Sinjil	Ramallah	30/09/2004			1	'Atarah	1	'Atarah	1	1	1	1	1				
14	301520	Jilijliya	Ramallah	30/09/2004	NA		1	'Atarah	1	'Atarah	NA	1	1	NA	NA	NA	NA	0	0
15	301550	Umm Safa	Ramallah	02/10/2004	NA		1	'Atarah	1	'Atarah	NA	1	1	NA	2	2	NA	0	1
16	301785	Deir Dibwan	Ramallah	29/09/2004	1	Taybeh	NA		NA		1	0	0	NA	NA	NA	0	0	0
17	301800	'Ein 'Arik	Ramallah	02/10/2004															
18	301815	Burqa	Ramallah	10/10/2004					1	Beit Iba	1		2	1			1		
19	401935	Jaba'	Jerusalem	30/09/2004			2	Qalandia				1			2			1	

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	
20	402100	Al 'Eizariya	Jerusalem	02/10/2004			1											1		
21	402120	Abu Dis	Jerusalem	02/10/2004								1								
22	402145	As Sawahira ash Sharqiya	Jerusalem	02/10/2004								1		2	2			1		
23	452170	Al Walaja	Betlehem	05/10/2004	2	Al Walaja / Beit Jala	1	Al Walaja / Beit Jala	2	Al Walaja / Beit Jala										
24	452265	Ad Doha	Betlehem	30/09/2004																
25	452270	Al Khadr	Betlehem	30/09/2004																
26	452280	Hindaza	Betlehem	06/10/2004																
27	452345	Khallet al Louza	Betlehem	07/10/2011																
28	502450	Surif	Hebron	02/10/2004	2	Gush Etzion and Beit Ummar Gate			1	Gush Etzion and Beit Ummar Gate	1		1	2	1	2				
29	502550	Hitta	Hebron	27/09/200							1	1	1							

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	
				4																
30	502570	Qila	Hebron	03/10/2004																
31	502585	Nuba	Hebron	04/10/2004	1	Beit Kahil Gate	0		1	Beit Kahil Gate	1		1							
32	502590	'Irqan Turad	Hebron	07/10/2004																
33	502595	Kuziba	Hebron	09/10/2004																
34	502650	Qafan al Khamis	Hebron	09/10/2004																
35	502665	Ras at Tawil	Hebron	10/10/2004																
36	502710	Al Khamajat	Hebron	28/09/2004																
37	502815	Bani Na'im	Hebron	27/09/2004							1	1	1							

**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	100595	Iktaba	Tulkarem	25/09/2004											Yes	Yes	30
2	150950	Sarra	Nablus	22/09/2004							20				No	No	
3	200965	Baqat al Hatab	Qalqiliya	23/09/2004							7	2			No	No	
4	201015	Far'ata	Qalqiliya	10/10/2004							3	3			No	No	
5	201065	Kafr Laqif	Qalqiliya	10/10/2004											Yes	No	10
6	201125	Habla	Qalqiliya	10/10/2004	3	9				1				1	Yes	Yes	10
7	251430	Deir Ballut	Salfit	10/10/2004								10			No	Yes	10
8	301550	Umm Safa	Ramallah	02/10/2004							7	1			No	No	
9	301800	'Ein 'Arik	Ramallah	02/10/2004							4				No	No	
10	401935	Jaba'	Jerusalem	30/09/2004							4				No	No	