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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**

**Weekly Report # 3  
(18– 30 September 2003)**

**In Cooperation with:  
Palestinian Environmental NGOs Network (PENGON)**



*Through the following members/organizations:*

**Applied Research Institute/ Jerusalem (ARIJ); Arab Studies Society- Land Research Center / Hebron (LRC); Green Peace Association/ Gaza Strip (GPA); Palestinian Agricultural Relief Committees/ Tulkarm (PARC); Palestinian Environmental Protection Society/ Jenin (PEPS)**



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# 1. Introduction

Since the beginning of the Water, Sanitation, and Hygiene Monitoring Project (WaSH MP) in June 2002, 643 of the 708 communities defined by the Palestinian Central Bureau of Statistics (PCBS) have been surveyed in the West Bank and Gaza Strip. For the purposes of the WaSH MP, the total number of communities that will be monitored is 643, due to the fact that many of the PCBS-defined communities are considered part of a city, like Jerusalem, or are deemed seasonal living places (summer or winter).

The importance of the WaSH MP stems from the fact that it is nearly the only source of updated information on the impact of the current crisis on water, sanitation and hygiene in the West Bank and Gaza Strip, for all local and international agencies working in the sector. During the first phase of the project, detailed information was gathered from different localities in the West Bank and Gaza Strip. Such information has been analyzed and stored in a locally designed database. Seven monthly reports were published using this data, and the database can be accessed through the project website at the following address [www.phg.org/campaign](http://www.phg.org/campaign)

The nature of the second phase of the WaSH MP has dictated certain modifications in the management of the project. As this phase will focus on updating the information, and as it will not require intensive fieldwork, the data collection teams were reduced from 12 to 5, in order to reflect this expected reduction in workload. Furthermore, there was a need to modify the reporting frequency and format to respond to the needs of some organizations accessing the reports. Accordingly, a new form for information update has been designed (APPENDIX 1) and weekly or biweekly updates will be published going forward.

The current report is the third weekly update, which covers the period from 18<sup>th</sup> to 30<sup>th</sup> September 2003. The goal is for each weekly / biweekly update to be disseminated at the beginning of the following week (Monday of the following week). All the updates can also be accessed through the project website. <http://www.phg.org/campaign>

Weekly reports will include information extracted from the newly designed questionnaire, as well as information on the related communities. In this second weekly report, detailed information related to 44 communities in the West Bank and Gaza Strip is included. Data related to these communities was updated during the past two weeks and presented in four main tables that reflect major problems in these communities.

**Table 1: Monthly water supplies from all sources to the community, and average price per cubic meter for tanker water during and before current crisis.**

No.	Community ID	Community name	District	Water tanker price (NIS / m <sup>3</sup> ) *		Total monthly supply for the community (m <sup>3</sup> / month)	Per capita supply (l/c/d) **
				During the current crisis	Before the current crisis		
1	301745	Al Midya	Ramallah	33.0	20.0	1400	42
2	301715	Ni'lin	Ramallah	32.0	20.0	14000	117
3	301515	Rantis	Ramallah	30.0	20.0	1500	21
4	100915	Kafr 'Abbush	Tulkarem	22.0	22.0	3500	88
5	452175	Battir	Betlehem	20.0	15.0	4000	36
6	452170	Al Walaja	Betlehem	20.0	10.0	1700	38
7	502835	Beit 'Awwa	Hebron	20.0	15.0	6500	30
8	502750	Taffuh	Hebron	20.0	15.0	8000	32
9	452180	Al 'Ubeidiya	Betlehem	20.0	15.0	7500	33
10	151025	Kafr Qalil	Nablus	15.0	12.0	4200	63
11	502685	Idhna	Hebron	15.0	10.0	15000	31
12	151050	Madama	Nablus	15.0	10.0	3000	68
13	150835	Zawata	Nablus	15.0	10.0	2200	43
14	502905	Al Fawwar Camp	Hebron	15.0	10.0	7000	40
15	151095	'Asira al Qibliya	Nablus	13.0	13.0	4500	74
16	200965	Baqat al Hatab	Qalqiliya	12.0	10.0	1500	34
17	10025	'Arabbuna	Jenin	12.0	10.0	1200	53
18	502435	Khirbet ad Deir	Hebron	15.0	10.0	300	39
19	452525	Beit Fajjar	Betlehem	15.0	10.0	11000	39
20	452325	Nahhalin	Betlehem	15.0	10.0	7000	42
21	10195	'Aba	Jenin	10.0	7.0	900	203
22	201225	'Izbat al Ashqar	Qalqiliya	8.0	8.0	1500	141
23	151380	As Sawiya	Nablus			4000	65
24	301800	'Ein 'Arik	Ramallah			3500	81
25	201125	Habla	Qalqiliya			7000	45
26	100895	Kafr Zibad	Tulkarem			4000	115
27	100685	'Izbat al Khilal	Tulkarem			200	81
28	100330	Nazlat 'Isa	Tulkarem			7000	105
29	201155	Ras 'Atiya	Qalqiliya			3000	74
30	301495	Al Lubban al Gharbi	Ramallah			2500	66
31	301540	An Nabi Salih	Ramallah			900	68
32	301780	Deir Ibzi'	Ramallah			3500	67
33	753495	Rafah Camp	Rafah			72000	48
34	401935	Jaba'	Jerusalem			6000	70
35	452225	Dar Salah	Betlehem			1000	38
36	552745	'Izbat Beit Hanun	North Gaza			18000	106
37	552755	Jabalya Camp	North Gaza			105000	49
38	653065	An Nuseirat Camp	Deir Al-Balah			110000	69
39	653140	Al Bureij Camp	Deir Al-Balah			60000	67

No.	Community ID	Community name	District	Water tanker price (NIS / m <sup>3</sup> ) *		Total monthly supply for the community (m <sup>3</sup> / month)	Per capita supply (l/c/d) **
				During the current crisis	Before the current crisis		
40	653200	Deir al Balah Camp	Deir Al-Balah			28000	94
41	653275	Wadi as Salqa	Deir Al-Balah			5000	43
42	703420	Khan Yunis	Khan Yunis			510000	161
43	703470	Khuza'a	Khan Yunis			27000	111
44	301760	Bil'in	Ramallah			4000	90

\* Communities with no prices do not use water tankers

\*\* Supply includes all domestic uses, including domestic agriculture and domestic livestock, in addition to all losses in the water network for communities that have one.

**Table 2: Destruction of water infrastructure between 18<sup>th</sup> and 30<sup>th</sup> September 2003.**

No.	Community ID	Community Name	District	Water network damages		Percentage of affected population	# of damaged wells		# of damaged springs		# of damaged tankers		# of damaged roof tanks	# of damaged cisterns	# of damaged reservoir	
				Main line	Secondary lines		Complete	Partial	Complete	Partial	Complete	Partial			Complete	Partial
1	151050	Madama	Nablus	Yes	Yes	100			1				85			
2	301515	Rantis	Ramallah	No	Yes	40					1		10	3		
3	301540	An Nabi Salih	Ramallah	No	Yes	30										
4	201125	Habla	Qalqiliya	Yes	Yes	30		1								
5	150835	Zawata	Nablus	Yes	Yes	30			1				10		1	
6	151025	Kafr Qalil	Nablus	No	Yes	10			1				5			
7	452175	Battir	Betlehem	No	Yes	7										
8	653275	Wadi as Salqa	Deir Al-Balah	Yes	Yes	5							30			
9	552745	'Izbat Beit Hanun	North Gaza	No	Yes	5										
10	653140	Al Bureij Camp	Deir Al-Balah	No	Yes	5							35			
11	753495	Rafah Camp	Rafah	No	Yes	2							20			
12	703420	Khan Yunis	Khan Yunis	No	Yes	1							30			
13	301495	Al Lubban al Gharbi	Ramallah	No	No								15			
14	151095	'Asira al Qibliya	Nablus	No	No					1			10	5		
15	151380	As Sawiya	Nablus	No	No					1			4			
16	100330	Nazlat 'Isa	Tulkarem	No	No								80			
17	200965	Baqat al Hatab	Qalqiliya	No	No								5	5		

18	301745	Al Midya	Ramallah	No	No							1	5	2		
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**Table 3: Checkpoint and Closure Effects on the WaSH Situation in the Palestinian Communities**

(0: No Effect    1: Intermediate Effect    2: High Effect    NA: Not Applicable—For example, a fixed checkpoint does not exist within this community, or water tankers are not used there, etc. )

No.	Comm. ID	Comm. Name	District	Fixed Checkpoint Effect On						Mobile Checkpoint Effect On			Earth Mounds Effect On			Curfew Effect On		
				Water Supply by Tankers		Maintenance Teams		PHC Access		Water Supply by Tankers	Maintenance Teams	PHC Access	Water Supply by Tankers	Maintenance Teams	PHC Access	Water Supply by Tankers	Maintenance Teams	PHC Access
				Effect	Name of checkpoint	Effect	Name of checkpoint	Effect	Name of checkpoint									
1	10025	'Arabbuna	Jenin	0		0		0		1	0	0	1	0	0	1	0	0
2	10195	'Aba	Jenin	NA		NA		NA		0	0	1	0	0	1	0	0	1
3	100330	Nazlat 'Isa	Tulkarem	0		0		2		0	0	2	0	0	2	0	0	2
4	100915	Kafr 'Abbush	Tulkarem	0		0		2	Kafriyat checkpoint	1	0	1	0	0	0	0	0	0
5	150835	Zawata	Nablus	0		0		0		1	1	1	0	0	0	1	1	1
6	151025	Kafr Qalil	Nablus	0		0		0		2	0	2	0	0	0	2	1	2
7	151050	Madama	Nablus	1	Howwara checkpoint	NA		2	Howwara checkpoint	1	NA	2	1	NA	2	2	NA	2
8	151095	'Asira al Qibliya	Nablus	2	Howwara checkpoint	NA		2	Howwara checkpoint	1	NA	1	1	NA	1	2	NA	2
9	151380	As Sawiya	Nablus	NA		0		1	Atarah and Za'tara checkpoints	NA	1	2	NA	1	1	2	2	2
10	200965	Baqat al Hatab	Qalqiliya	0		NA		1	Qalqiliya checkpoint	1	NA	1	1	NA	0	1	NA	0
11	201125	Habla	Qalqiliya	NA		0		2	Qalqiliya and Beit Eba / Nablus checkpoints	NA	2	2	NA	2	2	NA	2	2
12	201155	Ras 'Atiya	Qalqiliya	NA		0		2	Habla	NA	0	1	NA	0	1	NA	0	1

No.	Comm. ID	Comm. Name	District	Fixed Checkpoint Effect On						Mobile Checkpoint Effect On			Earth Mounds Effect On			Curfew Effect On		
				Water Supply by Tankers		Maintenance Teams		PHC Access		Water Supply by Tankers	Maintenance Teams	PHC Access	Water Supply by Tankers	Maintenance Teams	PHC Access	Water Supply by Tankers	Maintenance Teams	PHC Access
				Effect	Name of checkpoint	Effect	Name of checkpoint	Effect	Name of checkpoint									
13	201225	'Izbat al Ashqar	Qalqiliya	0		NA		2	checkpoint Qalqiliya and Beit Eba checkpoints	2	NA	2	0	NA	1	0	NA	1
14	301495	Al Lubban al Gharbi	Ramallah	NA		2	Ni'lin and Atara checkpoints	2	Ni'lin checkpoint	NA	2	2	NA	1	1	NA	1	1
15	301515	Rantis	Ramallah	0		0		2	Ni'lin checkpoint	2	2	2	1	1	1	2	2	2
16	301540	An Nabi Salih	Ramallah	NA		2	An Nabi Saleh checkpoint	2	An Nabi Saleh checkpoint	NA	2	2	NA	1	1	NA	2	2
17	301715	Ni'lin	Ramallah	2	Ni'lin checkpoit	2	Ni'lin checkpoit	0		2	2	0	1	1	0	2	2	2
18	301745	Al Midya	Ramallah	2	Ni'lin checkpoit	2	Ni'lin checkpoit	0		2	2	0	1	1	0	2	2	2
19	301760	Bil'in	Ramallah	NA		1	Ein Areek checkpoint	1	Ein Areek checkpoint	NA	2	2	NA	1	1	NA	2	2
20	301780	Deir Ibzi'	Ramallah	NA		1	'Ein 'Arik	1	'Ein 'Arik checkpoint	NA	2	2	NA	1	1	NA	1	1
21	301800	'Ein 'Arik	Ramallah	NA		1	'Ein 'Arik	1	'Ein 'Arik checkpoint	NA	2	2	NA	1	1	NA	1	1
22	401935	Jaba'	Jerusalem	NA		2	Qalandia checkpoint	0		NA	2	2	NA	2	2	NA	1	1
23	452170	Al Walaja	Betlehem	2	Al Walaja and Beit Jala checkpoints	0		2	Al Walaja and Beit Jala checkpoints	1	0	1	1	1	1	NA	NA	NA

No.	Comm. ID	Comm. Name	District	Fixed Checkpoint Effect On						Mobile Checkpoint Effect On			Earth Mounds Effect On			Curfew Effect On		
				Water Supply by Tankers		Maintenance Teams		PHC Access		Water Supply by Tankers	Maintenance Teams	PHC Access	Water Supply by Tankers	Maintenance Teams	PHC Access	Water Supply by Tankers	Maintenance Teams	PHC Access
				Effect	Name of checkpoint	Effect	Name of checkpoint	Effect	Name of checkpoint									
24	452175	Battir	Betlehem	NA		NA		NA		1	0	1	1	1	1	NA	NA	NA
25	452180	Al 'Ubeidiya	Betlehem	NA		NA		NA		1	0	1	1	0	1	NA	NA	NA
26	452225	Dar Salah	Betlehem	NA		NA		NA		NA	1	1	NA	1	1	NA	NA	NA
27	452325	Nahhalin	Betlehem	1	Beit Jala checkpoint	0		1	Beit Jala checkpoint	1	1	1	2	2	2	NA	NA	NA
28	452525	Beit Fajjar	Betlehem	1	Gush Etzion checkpoint	0		1	Gush Etzion checkpoint	1	1	1	NA	NA	NA	NA	NA	NA
29	502685	Idhna	Hebron	NA		NA		NA		1	0	1	1	0	1	NA	NA	NA
30	502835	Beit 'Awwa	Hebron	2	Beit 'Awwa checkpoint	0		2	Beit 'Awwa checkpoint	NA	NA	NA	NA	NA	NA	NA	NA	NA
31	552745	'Izbat Beit Hanun	North Gaza	NA		2	Erez and Dogit checkpoints	0		NA	2	2	NA	0	0	NA	0	0
32	653065	An Nuseirat Camp	Deir Al-Balah	NA		2	Nitsarim checkpoint	0		NA	1	0	NA	NA	NA	NA	NA	NA
33	653140	Al Bureij Camp	Deir Al-Balah	NA		0		0		NA	2	0	NA	0	0	NA	0	0
34	653200	Deir al Balah Camp	Deir Al-Balah	NA		2	Kfar Daroom settlement	0		NA	2	0	NA	NA	NA	NA	NA	NA
35	653275	Wadi as Salqa	Deir Al-Balah	NA		2	Kfar Daroom and Kisofoem settlements	NA		NA	2	2	NA	0	0	NA	2	2
36	703420	Khan Yunis	Khan Yunis	NA		2	Gosh Qatif settlement	0		NA	2	0	NA	2	0	NA	2	0
37	703470	Khuza'a	Khan Yunis	NA		2	Meraj settlement and east area border	0		NA	2	0	NA	2	0	NA	0	0

No.	Comm. ID	Comm. Name	District	Fixed Checkpoint Effect On						Mobile Checkpoint Effect On			Earth Mounds Effect On			Curfew Effect On		
				Water Supply by Tankers		Maintenance Teams		PHC Access		Water Supply by Tankers	Maintenance Teams	PHC Access	Water Supply by Tankers	Maintenance Teams	PHC Access	Water Supply by Tankers	Maintenance Teams	PHC Access
				Effect	Name of checkpoint	Effect	Name of checkpoint	Effect	Name of checkpoint									
38	753495	Rafah Camp	Rafah	NA		2	Palestinian Egyptian border	0		NA	2	0	NA	2	0	NA	2	0

**Table 4: Changes in supply from Mekorot Company and in water supplied by tankers in Palestinian communities.**

No.	Community ID	Community Name	District	Mekorot Company Supply (m <sup>3</sup> / month)			Tanker Supply (m <sup>3</sup> / month)		
				During current crisis	Before current crisis	Percentage Change	During current crisis	Before current crisis	Percentage Change
1	10025	'Arabbuna	Jenin				1200	1200	0
2	10195	'Aba	Jenin				900	900	0
3	100915	Kafr 'Abbush	Tulkarem				400	400	0
4	150835	Zawata	Nablus				200	200	0
5	151025	Kafr Qalil	Nablus				2800	2800	0
6	151050	Madama	Nablus				2500	3000	-17
7	151095	'Asira al Qibliya	Nablus				3000	4500	-34
8	151380	As Sawiya	Nablus	3000	3800	-22			
9	200965	Baqat al Hatab	Qalqiliya	1500	2500	-40			
10	201225	'Izbat al Ashqar	Qalqiliya				1500	1500	0
11	301495	Al Lubban al Gharbi	Ramallah	3000	3000	0			
12	301515	Rantis	Ramallah	2000	3000	-34	400	900	-56
13	301540	An Nabi Salih	Ramallah	1000	1350	-26			
14	301715	Ni'lin	Ramallah	14000	18000	-23	350	350	0
15	301745	Al Midya	Ramallah	2400	3400	-30	300	300	0
16	301760	Bil'in	Ramallah	3000	4500	-34			
17	301780	Deir Ibzi'	Ramallah	3000	3000	0			
18	301800	'Ein 'Arik	Ramallah	2800	3000	-7			
19	401935	Jaba'	Jerusalem	6000	7000	-15			
20	452170	Al Walaja	Betlehem	1000	2000	-50	200	400	-50
21	452175	Battir	Betlehem	2500	4000	-38	1000	500	100
22	452180	Al 'Ubeidiya	Betlehem	5000	10000	-50	1500	500	200
23	452225	Dar Salah	Betlehem	700	1000	-30			

No.	Community ID	Community Name	District	Mekorot Company Supply (m <sup>3</sup> / month)			Tanker Supply (m <sup>3</sup> / month)		
				During current crisis	Before current crisis	Percentage Change	During current crisis	Before current crisis	Percentage Change
24	452325	Nahhalin	Betlehem	4500	7000	-36	1500	500	200
25	452525	Beit Fajjar	Betlehem	6000	10000	-40	4000	2000	100
26	502435	Khirbet ad Deir	Hebron	200	300	-34	50	30	66
27	502685	Idhna	Hebron	8000	15000	-47	5000	2000	150
28	502750	Taffuh	Hebron	2000	7000	-72	3000	1000	200
29	502835	Beit 'Awwa	Hebron	2000	8000	-75	4000	1500	166
30	502905	Al Fawwar Camp	Hebron	3000	7000	-58	3000	500	500
31	653065	An Nuseirat Camp	Deir Al-Balah	5000	20000	-75			
32	653140	Al Bureij Camp	Deir Al-Balah	6000	18000	-67			
33	653200	Deir al Balah Camp	Deir Al-Balah	0	15000	-100			
34	703470	Khuza'a	Khan Yunis	3000	12000	-75			

Although Mekorot is reducing its supply by, in some cases, 100% of its pre-crisis amount, this shortfall is in some cases being filled by tankers. Water from tankers is of course more expensive than piped water—partly due to the requirement of having to pass through checkpoints. Where this is not possible (due to lack of access, tankers, etc.) then the communities suffer an artificial drought.