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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 # 20
16 – 31 December / 2004**

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

Introduction

The report 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.

Summary of information and update for the surveyed communities during 16 - 31 December 2004.

The WaSH MP has been updating the data collected during the past two years. The new survey focuses upon rapidly or significantly changed or changing data and collects and analyzes Mekorot Company supply during year 2003 and 2004

24 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 16-31 December / 2004.

Comparisons of prices of tankers water before and during 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 also presented.

- It is noticed that price of tankers water in At Tayba / Ramallah Governorate is clearly higher than prices in other Governorates. In the Gaza Strip, tanker water is usually used on emergency situations and it costs about 35 NIS per cubic meter.
- 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 16-31 December / 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. 22 out of the 24 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 21 of the communities that get water from Mekorot Company, and 1 community is not affected by reduction.

Table 3: Effect of checkpoints, earth mounds, and curfews on access to services in the Wet 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) are presented. Most of the surveyed communities are affected by more than one of these effects, but those affected with fixed check points are those which are suffering the most (‘Ajjul and At Tayba / Ramallah, Al Fureidis / Betlehem, Kharsa, Al Majd, Zif / Hebron).

Table 4: Water supply for the surveyed communities and its major problems.

Table 4 summarizes major problems in selected surveyed communities.

Table 1: Water Supply by Tankers for Communities Surveyed during 16-31 December / 2004.

No.	Comm. ID	Community Name	District	Date	Tanker W. price (NIS / m ³)		Check Points (CP) effect on tankers					W.Tankers Supply (m3/month)	
					During Intifada	Before Intifada	Fixed CP	Fixed CP name	Mobile CP	Earth mounds effect	Curfew effect	Current	Regular
1	301525	'Ajjul	Ramallah	14/12/2004	12.0	9.0			1		1	800	3000
2	301685	At Tayba	Ramallah	13/12/2004	34.0	32.0			1		1	200	400
3	402015	Qatanna	Jerusalem	06/12/2004	8.0	6.0						1200	1000
4	502895	Kharsa	Hebron	14/12/2004	18.0	10.0	1	Al Fawwar Gate		1		1000	500
5	502905	Al Fawwar Camp	Hebron	15/12/2004	10.0	5.0						500	300
6	502910	Al Majd	Hebron	16/12/2004	18.0	10.0	1	Al Fawwar Gate		1		300	100
7	502925	Deir al 'Asal at Tahta	Hebron	18/12/2004	20.0	10.0			1	1		100	50
8	502940	Wadi ash Shajina	Hebron	19/12/2004	20.0	10.0			1	1		100	50
9	502960	Ar Rihya	Hebron	20/12/2004	12.0	6.0						200	100
10	502965	Zif	Hebron	21/12/2004	15.0	10.0	1	Zif Intersecti on Gate	1	1		300	100
11	502995	Biyar al 'Arus	Hebron	22/12/2004	18.0	10.0			1	1		300	200
12	653065	An Nuseirat Camp	Deir Al-Balah	27/12/2004	35.0	35.0							
13	653140	Al Bureij Camp	Deir Al-	27/12/2004	35.0	35.0							

No.	Comm. ID	Community Name	District	Date	Tanker W. price (NIS / m ³)		Check Points (CP) effect on tankers					W.Tankers Supply (m3/month)	
					During Intifada	Before Intifada	Fixed CP	Fixed CP name	Mobile CP	Earth mounds effect	Curfew effect	Current	Regular
			Balah										
14	653180	Az Zawayda	Deir Al-Balah	27/12/2004	35.0	35.0						42	
15	653210	Al Maghazi Camp	Deir Al-Balah	27/12/2004	35.0	35.0							

Table 2: Water supply by Mekorot Company for communities surveyed during 16 – 31 December /2004.

No.	Comm. ID	Community Name	District	Date	Water supply (m3/month)		
					From all sources	Mekorot Supply (current)	Mekorot Supply (regular)
1	301525	'Ajjul	Ramallah	14/12/2004	3000		
2	301685	At Tayba	Ramallah	13/12/2004	3000		
3	301725	Kharbatha Bani Harith	Ramallah	13/12/2004	4000	3500	3700
4	401985	Kharayib Umm al Lahim	Jerusalem	14/12/2004	1000	1000	1000
5	402015	Qatanna	Jerusalem	06/12/2004	12500	9000	10000
6	452220	Al Hujeila	Betlehem	11/12/2004	100	90	120
7	452375	Al Fureidis	Betlehem	12/12/2004	800	700	1000
8	452430	Khallet al Haddad	Betlehem	12/12/2004	500	300	400
9	452455	Khirbet ad Deir	Betlehem	13/12/2004	1500	1200	1500
10	452470	Marah Ma'alla	Betlehem	13/12/2004	700	500	700
11	452490	Al Manshiya	Betlehem	12/12/2004	450	350	500
12	502645	Bir Musallam	Hebron	12/12/2004	250	200	300
13	502895	Kharsa	Hebron	14/12/2004	3000	2000	4000
14	502905	Al Fawwar Camp	Hebron	15/12/2004	7000	6000	7500
15	502910	Al Majd	Hebron	16/12/2004	1500	1000	3000
16	502925	Deir al 'Asal at Tahta	Hebron	18/12/2004	600	300	500
17	502940	Wadi ash Shajina	Hebron	19/12/2004	600	300	500
18	502960	Ar Rihya	Hebron	20/12/2004	3500	3000	5000
19	502965	Zif	Hebron	21/12/2004	1000	500	1000
20	502995	Biyar al 'Arus	Hebron	22/12/2004	800	400	800
21	653065	An Nuseirat Camp	Deir Al-Balah	27/12/2004	132028	58246	89700
22	653140	Al Bureij Camp	Deir Al-Balah	27/12/2004	66600	10640	55367
23	653180	Az Zawayda	Deir Al-Balah	27/12/2004	33893	14325	33794
24	653210	Al Maghazi Camp	Deir Al-Balah	27/12/2004	76819	17554	33794

Table 3: Effect of checkpoints, earth mounds, and curfews on access to services in the surveyed communities (16 – 31 December 2004).

No.	Comm. ID	Community 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	301525	'Ajjul	Ramallah	14/12/2004			1	'Atara	1	'Atara	1	2	2				1	1	1
2	301685	At Tayba	Ramallah	13/12/2004			1	At Tayba	1	At Tayba	1	2	2				1	0	1
3	301725	Kharbatha Bani Harith	Ramallah	13/12/2004								1	1		1	1		1	1
4	452220	Al Hujeila	Betlehem	11/12/2004											1	1			
5	452375	Al Fureidis	Betlehem	12/12/2004			1	Za'tara	1	Za'tara					1	1			
6	452430	Khallet al Haddad	Betlehem	12/12/2004											1	1			
7	452455	Khirbet ad Deir	Betlehem	13/12/2004								1	1		1	1			
8	502895	Kharsa	Hebron	14/12/2004	1	Al Fawwar Gate			1	Al Fawwar Gate				1	1	1			
9	502910	Al Majd	Hebron	16/12/2004	1	Al Fawwar Gate								1	1	1			
10	502925	Deir al 'Asal at Tahta	Hebron	18/12/2004							1	1	1	1	1	1			
11	502940	Wadi ash Shajina	Hebron	19/12/2004							1	1	1	1	1	1			
12	502965	Zif	Hebron	21/12/2004	1	Zif Intersection Gate	1	Zif Intersection Gate	1	Zif Intersection Gate	1	1	1	1	1	1			
13	502995	Biyar al 'Arus	Hebron	22/12/2004							1	1	1	1	1	1			

Table 4: Water supply for selected surveyed communities and its major problems.

No.	Community ID	Community Name	District	Date	Supply from all sources (m ³ / month)	General Comments for the community
1	301525	'Ajjul	Ramallah	14/12/2004	3000	The community is connected recently to the main line from Ein Samia, but it is still dependent on tankers water since the quantity supplied through network is not enough for their livestock and agricultural uses. 85% of the community is connected to the water network, but about 10% of the community applied for connecting their households with the new network and source. About 2000 m3 per month are supplied to the community through the water network which is connected recently with a source of water; this quantity compensates for the quantity they used to get through tankers.
2	301725	Kharbatha Bani Harith	Ramallah	13/12/2004	4000	There are some black losses in the main line between Bil'in and Kharbatha Bani Harith.
3	401985	Kharayib Umm al Lahim	Jerusalem	14/12/2004	1000	High percentage of the population with "Skin Cancer" is registered in the community which needs further investigation in relation to pollution sources. Livestock is a major source of income for the community; therefore, large percentage of the supplied water is consumed by livestock.
4	402015	Qatanna	Jerusalem	06/12/2004	12500	Price of water is relatively high in a limited area of the community, where water is used basically for agriculture purposes (about 100 m3 per month), price of water is about 25 to 30 NIS per m3.
5	452220	Al Hujeila	Betlehem	11/12/2004	100	During this time of the year, cisterns are used to compensate for the shortages in the water quantity supplied by Mekorot Company.
6	452375	Al Fureidis	Betlehem	12/12/2004	800	Tankers water is not used during this time of the year since cisterns are used to compensate for shortage of water caused by reduction of supply by Mekorot Company.
7	452430	Khallet al Haddad	Betlehem	12/12/2004	500	Water tankers are not used during this time of the year since cisterns are used to compensate for the shortage in supply from Mekorot Company.
8	452455	Khirbet ad Deir	Betlehem	13/12/2004	1500	Tankers water are not used during this time of the year since cisterns are

No.	Community ID	Community Name	District	Date	Supply from all sources (m ³ / month)	General Comments for the community
						supporting in providing needed water to compensate for decrease in Mekorot supply.
9	452470	Marah Ma'alla	Betlehem	13/12/2004	700	Tankers water is not used during this time of the year since cisterns are used to provide the shortage of water caused by reduction in supply by Mekorot company.
10	452490	Al Manshiya	Betlehem	12/12/2004	450	During this time of the year, tankers water is not used since support for shortages of water is coming from the use of cisterns.
11	502645	Bir Musallam	Hebron	12/12/2004	250	Tankers water is not used in the community. Main sources of water are Mekorot connection in addition to supply from a local spring called Bir Musallam Spring which is within the community.
12	502905	Al Fawwar Camp	Hebron	15/12/2004	7000	Tankers water is relatively cheap compared to other communities in the West Bank since the water source is within the camp boundaries.
13	502960	Ar Rihya	Hebron	20/12/2004	3500	Tankers water price is relatively cheap since source of water (Al Fawwar Camp) is very close to the community.
14	502965	Zif	Hebron	21/12/2004	1000	The valve on the main line is broken since four months ago; Yatta Municipality is supposed to replace it, but it is not replaced yet and supply to the community is completely cut off.