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THE ACADEMY FOR EDUCATIONAL DEVELOPMENT

THE WATER EFFICIENCY AND PUBLIC INFORMATION FOR ACTION (WEPIA)

**In cooperation with
THE JORDANIAN UNIVERSITY FOR SCIENCE AND
TECHNOLOGY**

CAPACITY BUILDING PROJECT IN IRBID

REPORT

April, 2001

1. Water Supply and Conservation

- ? The frequency of water supply appears to be more or less consistent, reported frequencies showing that the great majority of households receive water supply between 1-2 times per week.

Frequency of water supply

Base: all respondents

Base:	(244)
	%
1-2 times per week	85
3-4 times per week	6
5 times per week	1
6 times or more per week	3
Less often	1
Don't know	4
Total	100

- ? About two out of three feel that the supply of water they receive is sufficient.

Sufficiency of supply

Base: all respondents

Base:	(244)
	%
Is sufficient	66
Is not sufficient	34
Total	100

- ? The results show that almost one third of households interviewed do not have enough supply of mains water and subsequently require outer supply from tankers.
- ? To that effect, the great majority (84%) of the residents had taken substantial steps to conserve water in their homes. Reported frequencies show that almost half of households interviewed are rationing by using water only when necessary. However, they are also employing more specific steps such as using a bucket (rather than hose) to clean the car, checking for leakage and reposing them, sweeping rather than washing floors and reducing the frequency of laundry.

Action to conserve water

Base: all respondents

Base:	(244)
	%
Using only when necessary	47
Reposing of leaks	35
Sweeping rather than washing floors	30
Using bucket to clean car	30
Checking for leakage	29
Reduced frequency of laundry	28
Re-use of water	13
Bottles in toilet tanks	10
Install water saving device faucets	5
Other actions	8
Nothing done	16

2. Laundry Habits

- ? Virtually all householders interviewed own washing machines. Non-automatic washing machines are the most common; the non-automatic twin tub being the most widely owned type.

Type of washing machine

Base: all respondents

Base:	(244)
	%
Non- automatic twin tub	51
Non- automatic single tub	21
Any non- automatic	72
Automatic front loading	15
Automatic top loading	10
Any automatic	25
No machine	3
Total	100

- ? Laundry frequency varies considerably from once per week to daily but the majority report washing only once or twice per week.

Frequency of laundry

Base: all washing machine owners

Base:	(237)
	%
1-2 times per week	78
3-4 times per week	18
5 times or more per week	1
Less than once a week	3
Total	100
Average frequency	1.7 (times per week)

- ? The number of loads per wash ranges from 1 to 5 or more. The average is slightly over 4.

Number of loads per week

Base: all washing machine owners

Base:	(237)
	%
1 load	5
2 loads	15
3 loads	22
4 loads	19
5+ loads	39
Total	100
Average	4.1 loads

- ? Simple multiplication of the total number of washing occasions by the average number of loads gives a total of 1652 loads per week among 237 households, an average of 7 loads per household per week.

3. Cars and gardens

- ? Two-thirds of the households covered by the survey own a car, the average number of cars owned among the sample being about one car.

Car ownership

Base: all respondents

Base:	(244)
	%
No car owned	38
One car	51
Two cars	9
Three or more cars	2
Total	100
Average per household	0.7
Average among car owners	1.2

- ? Frequency of car washing ranges widely from less than once per week to daily but the majority do so only once per week.

Frequency of car washing

Base: all car owners

Base:	(151)
	%
Once per week	56
2-3 times per week	15
4+ times per week	1
Less than once per week	28
Total	100

- ? A good majority of car owners wash their vehicles themselves. Although the main method used is a bucket for this purpose, the percentage of those who use a hose to wash their cars is still relatively high, and almost equals those who get their cars washed outside.

How cars washed

Base: all car owners

Base:	(151)
	%
Use a hose	22
Use a bucket	60
Go to car wash	18
Total	100

- ? The majority of respondents had a garden, among whom the average watering frequency is 1.1 times per week.

Frequency of watering the garden

Base: all respondents

Base:	(244)
	%
No garden	31
Have garden	69
Average	1.1 (times per week)

4. Water storage and rain water collection

- ? By far the predominant means of water storage is in tanks, however, almost half of the respondents collect water in reservoirs.

Means of water storage

Base: all respondents

Base:	(244)
	%
Water tanks	100
Reservoirs	55
Other means	2

- ? It is however worth noting that (40%) of respondents reported collecting rain water.

5. Plumbing fixtures, leakage and repairs

- ? Among the households covered by the survey, the average number of faucets inside the house was (5.6) and the average number of outside faucets was (1.3).
- ? Nearly one fourth (23%) of households reported having a leaking faucet, a lack of time, a lack of knowledge of how to effect a repair and cost being the barriers to fixing the leaks.
- ? 81% of households had Turkish bathrooms and almost 3 out of 4 (71%) had Western bathrooms.
- ? 57% of households had toilet tanks in their bathrooms of which only 10 % had a dual flush system
- ? 31% of those having a tank reported that it was of 6 liter capacity and 24% reported that it was of 12 liter capacity, but a further 35% did not know its volume
- ? Almost one fourth (22%) of those with toilet tanks reported a leakage; lack of time, lack of know-how and cost being the main barriers to fixing.
- ? 93% of households have a shower, most having one unit only. Only 4% of these reported a leakage.
- ? 68% of households claimed that it took only 1-2 days to have any leaks repaired. Half (54%) rely on a plumber for such work.

6. Water billing

- ? The majority (92%) of households report receiving their water bill every 3 months.
- ? The reported amount of bills ranged widely from over JD 200 per cycle to JD 1.30 per cycle, the average among all households being JD 33.60.
- ? Although the majority of households believe that they pay as much as they have consumed, a fourth feel that they pay far more than they consume.

Bill compared to consumption

Base: all respondents

Base:	(244)
	%
Pay as much as consumed	61
Pay more than consumed	23
Pay less than consumed	4
Don't know	12
Total	100

7. Water saving devices

- ? 65% of respondents claimed to have heard of water savings devices.
- ? 51% of respondents had seen or heard of the three specific devices described to them

Awareness of specific devices

Base: all respondents

Base:	(244)
	%
Aerators on faucets	44
Aerators on showers	23
Toilet tank with 6 liter capacity	20
None of these	49

- ? 82% of respondents claimed that they would be willing to install such devices in their homes, aerators on faucets being the most widely favoured.