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THE ACADEMY FOR EDUCATIONAL DEVELOPMENT

Cooperative Agreement No. 278-A-00-00-00201-00

THE WATER EFFICIENCY AND PUBLIC INFORMATION FOR ACTION (WEPIA)

**In cooperation with
BUSINESS AND PROFESSIONAL WOMEN AMMAN**

CAPACITY BUILDING PROJECT IN AMMAN

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:	(156)
	%
1-2 times per week	86
3-4 times per week	7
5 times per week	4
6 times or more per week	1
Less often	1
Don't know	1
Total	100

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

Sufficiency of supply

Base: all respondents

Base:	(156)
	%
Is sufficient	71
Is not sufficient	29
Total	100

- ? The results show that almost one third of householders 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 slightly over half of householders 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:	(156)
	%
Using only when necessary	51
Repairing of leaks	31
Sweeping rather than washing floors	33
Using bucket to clean car	33
Checking for leakage	29
Reduced frequency of laundry	39
Re-use of water	26
Bottles in toilet tanks	22
Install water saving device faucets	8
Other actions	6
Nothing done	16

2. Laundry Habits

- ? All households covered by the survey owned a washing machine. 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:	(156)
	%
Non- automatic twin tub	49
Non- automatic single tub	17
Any non- automatic	66
Automatic front loading	25
Automatic top loading	9
Any automatic	34
No machine	-
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:	(156)
	%
1-2 times per week	82
3-4 times per week	14
5 times or more per week	2
Less than once a week	2
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 3.6 loads per week.

Number of loads per week

Base: all washing machine owners

Base:	(156)
	%
1 load	16
2 loads	15
3 loads	22
4 loads	16
5+ loads	31
Total	100
Average	3.6 loads

- ? Simple multiplication of the total number of washing occasions by the average number of loads gives a total of 955 loads per week among 156 households, an average of 6 loads per household per week.

3. Cars and gardens

- ? Almost 70% of respondents covered by the survey own a car, the average number of cars owned among the sample being about one.

Car ownership

Base: all respondents

Base:	(156)
	%
No car owned	31
One car	54
Two cars	12
Three or more cars	3
Total	100
Average per household	0.9
Average among car owners	1.3

- ? Frequency of car washing ranges from less than once per week to daily but the majority do so once per week, with about one third doing it between 2 to 3 times per week.

Frequency of car washing

Base: all car owners

Base:	(107)
	%
Once per week	51
2-3 times per week	36
4+ times per week	1
Less than once per week	12
Total	100

- ? About 80% of car owners wash their vehicles themselves. Although about two-thirds use a bucket for this purpose, the percentage of those who use a hose to wash their cars is still relatively high.

How cars washed

Base: all car owners

Base:	(107)
	%
Use a hose	11
Use a bucket	68
Go to car wash	21
Total	100

- ? The majority of respondents had a garden, among whom the average watering frequency is 1.3 times per week.

Frequency of watering the garden

Base: all respondents

Base:	(156)
	%
No garden	33
Have garden	67
Average	
	1.3 (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 also collect water in reservoirs.

Means of water storage

Base: all respondents

Base:	(156)
	%
Water tanks	100
Reservoirs	31
Other means	3

- ? Only a minority (6%) 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 (5.5) and the average number of outside faucets was (1.0).
- ? Only (15%) of households reported having a leaking faucet, a lack of knowledge of how to effect a repair, a lack of time and cost being the barriers to fixing the leaks.
- ? 69% of households had Turkish bathrooms and 78% had Western bathrooms.
- ? A good majority (74%) of households had toilet tanks in their bathrooms of which only 14 % had a dual flush system
- ? 67% of those having a tank reported that it was of 6 liter capacity but a further 15% did not know its volume
- ? Only (9%) of those with toilet tanks reported a leakage; lack of know-how, lack of time, and cost being the main barriers to fixing.
- ? Virtually all (95%) of households have a shower, most having one unit only. Only 1% of these reported a leakage.
- ? The majority of householders (82%) claimed that it took only 1-2 days to have any leaks repaired. Most (71%) rely on a plumber for such work.

6. Water billing

- ? Virtually all (97%) of respondents reported receiving their water bill every 3 months.
- ? The reported amount of bills ranged widely from over JD 100 per cycle to JD 2.30 per cycle, the average among all households being JD 21.10.
- ? Although the majority of households believe that they pay as much as they have consumed, a third feel that they pay for more than they consume.

Bill compared to consumption

Base: all respondents

Base:	(156)
	%
Pay as much as consumed	58
Pay more than consumed	33
Pay less than consumed	3
Don't know	6
Total	100

7. Water saving devices

- ? 62% of respondents claimed to have heard of water savings devices.
- ? 58% of respondents had seen or heard of the three specific devices described to them

Awareness of specific devices

Base: all respondents

Base:	(156)
	%
Aerators on faucets	46
Aerators on showers	36
Toilet tank with 6 liter capacity	35
None of these	42

- ? 87% of respondents claimed that they would be willing to install such devices in their homes, aerators on faucets being the most widely favoured.

8. Thread types

Internal threads are the most common, specially in kitchens and bathrooms.

	Internal	External	No threads	Don't know	Not available
	%	%	%	%	%
Kitchen faucets	60	28	30	3	-
Bathroom faucets	55	29	22	3	1
Other faucets inside the house	19	5	12	5	60
Faucets outside the house	15	13	27	2	44