

The Pilot Study on *Improvement of Al-Bassa Disposal Site*

Weekly Report

Week 8 ...

July 28th – August 03rd, 2001

Week 8

July 28th – August 03rd, 2001

Introduction

Continuation from the last week, the following activities:

- ❖ Control of daily landfill operation.
- ❖ Control of incoming vehicles.
- ❖ Control of scavenging activities.
- ❖ Installation of control facilities.

1. Incoming Vehicles:

During this week, 362 vehicles have discharged the waste (198 vehicles for the day-shift and 164 for the night-shift) i.e. 31.16 % increase of week 7 (as 276 vehicles came in week 6). Most of the day & night-shifts are from Lattakia Municipality (the daily average is 19 vehicles for the day-shift, and 23 vehicles for the night-shift).

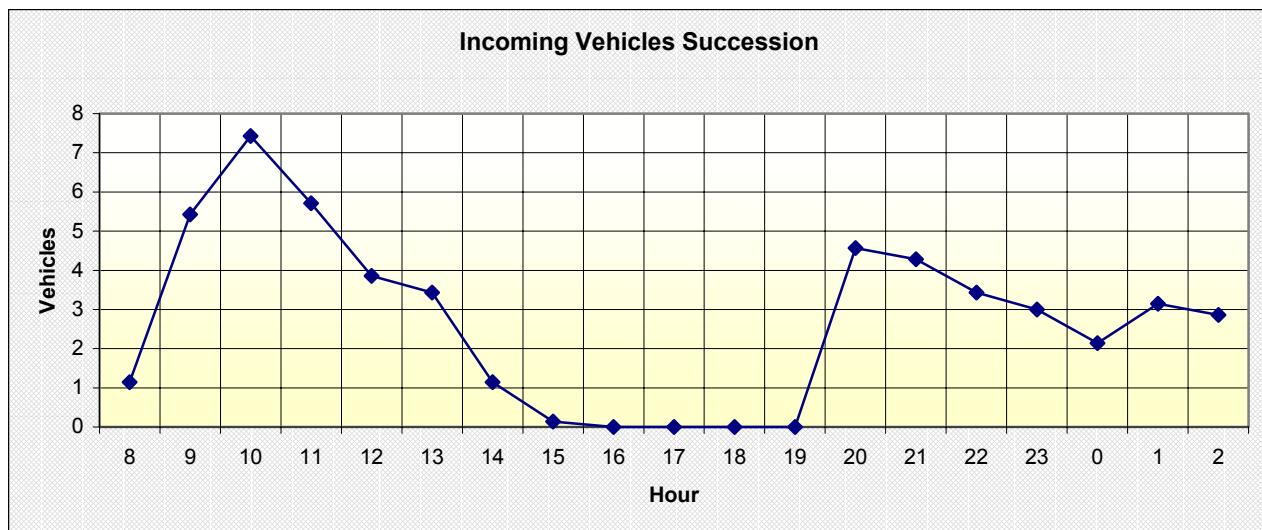
For more details refer to the attachment No. I: Daily Registration Sheets & Weekly Analysis

Total vehicles are: 266 compactor, 86 tractor and 10 dump truck.

The succession average of the daily incoming vehicles is shown in figure 8.1

Peak hour for the day-shift this week is 10:00 (same as week 7).

Peak hour for the night-shift is 20:00 (it was 21:00 in week 7).



(Figure 8.1) Average of the daily incoming vehicles during Week 8

Incoming vehicles are discharging the waste in the working-phase 1, and discharging area has moved near the leachate collection pipes (figure 8.2).

The operation road has become in a very bad condition, this is causing a delay in discharging the waste by the vehicles (figure 8.3); therefore, discharging area becomes jammed.

To solve this problem JICA Study Team has instructed to switch waste discharging area to working-phase 2 as from July 30th, 2001 (figure 8.4).

2. Landfill Operation:

The cell of the compacted waste of week 7 has been covered with about 15 cm layer of the sand taken from the neighboring hill (figure 8.5 & 8.6).

The waste being covered is exceeding 3 m height, and this is causing difficult operation and compaction for the bulldozer. Therefore, *JICA Study Team* has run a test to use an intermediate cover-soil (a layer of about 10 to 20 cm) as follows (figure 8.7):

<Cell Method Practice>

- Firstly pushing and compacting the waste by the bulldozer (figure 8.8), until the compacted waste cell is about 2 - 2.5 m high in a slope of 1:4 (as until this height, the bulldozer still can move on the waste slightly easy).
- Discharging some sand at the bottom of the slope (figure 8.9), then using the bulldozer to push this sand from bottom to up and forming an intermediate cover-soil (about 10 – 20 cm). While pushing the sand, the waste is being well compacted (figure 8.10).
- Then pushing the new waste in order to form a new layer of the waste on the intermediate cover-soil. The height of which will be about 2 – 2.5 m.
- Finally comes the final cover-soil which is a combination of sand and soil (order to let the plants grow later. The height of this final cover soil shall be about 30 – 50 cm.

Summary:

Intermediate cover-soil has the following affects.

Drastically reducing the offensive odor.

Reduction of the birth / growth of the flies and other insects.

Smooth operation for the bulldozer in pushing and compacting the waste.

This method of landfill operation should be adopted from now on (figure 8.11). For that purpose, the dump truck must work with cooperation with the bulldozer to discharge the sand (being taken from the hill inside of the Pilot Study area) in both working-phases 1 & 2, at the bottom of the compacted waste slopes.

Total incoming collection vehicles during this week: 362 vehicles.

According to that: about 1990 ton of waste is discharged in week 8.

Total volume of the discharged waste is 2210 m³, i.e. an area of about (27 X 27) m² & 3 m high.

3. Scavenging Activities:

The same situation of the scavenging activities of the last two weeks (6 & 7) which is clarified in the reports of week 6 & 7. Waste-pickers are working close to the discharging vehicles as well as landfill equipments.

This behavior starts to upset both drivers of the collection vehicles and operators of landfill equipments, because of the danger situation of their works.

Moreover, 3-wheel vehicles owned by waste-pickers are used to park either in the landfill area or on the neighboring access road. This is reducing the space for the collection vehicles to enter, i.e. increasing the jam of the vehicles.

For this issue, *JICA Study Team* has instructed the landfill observer to prevent any of the waste-pickers from parking their 3-wheel vehicles inside the landfill area, or even on the neighboring access road.

4. Control Facilities:

1. Control House:

July 30th 2001, was the delivery day of the control house (figure 8.12), Lattakia municipality has received the key from the contractor. But it still need the electricity and water supply.

2. Fence:

The upper steel wires are installed; therefore, the fence is also completed this week (figure 8.13).

3. Leachate Collection Pipes:

During this week, some smooth sand is put on the gravels and in some places directly on the pipes; this sand is falling inside the pipes and closing the holes of the pipes.

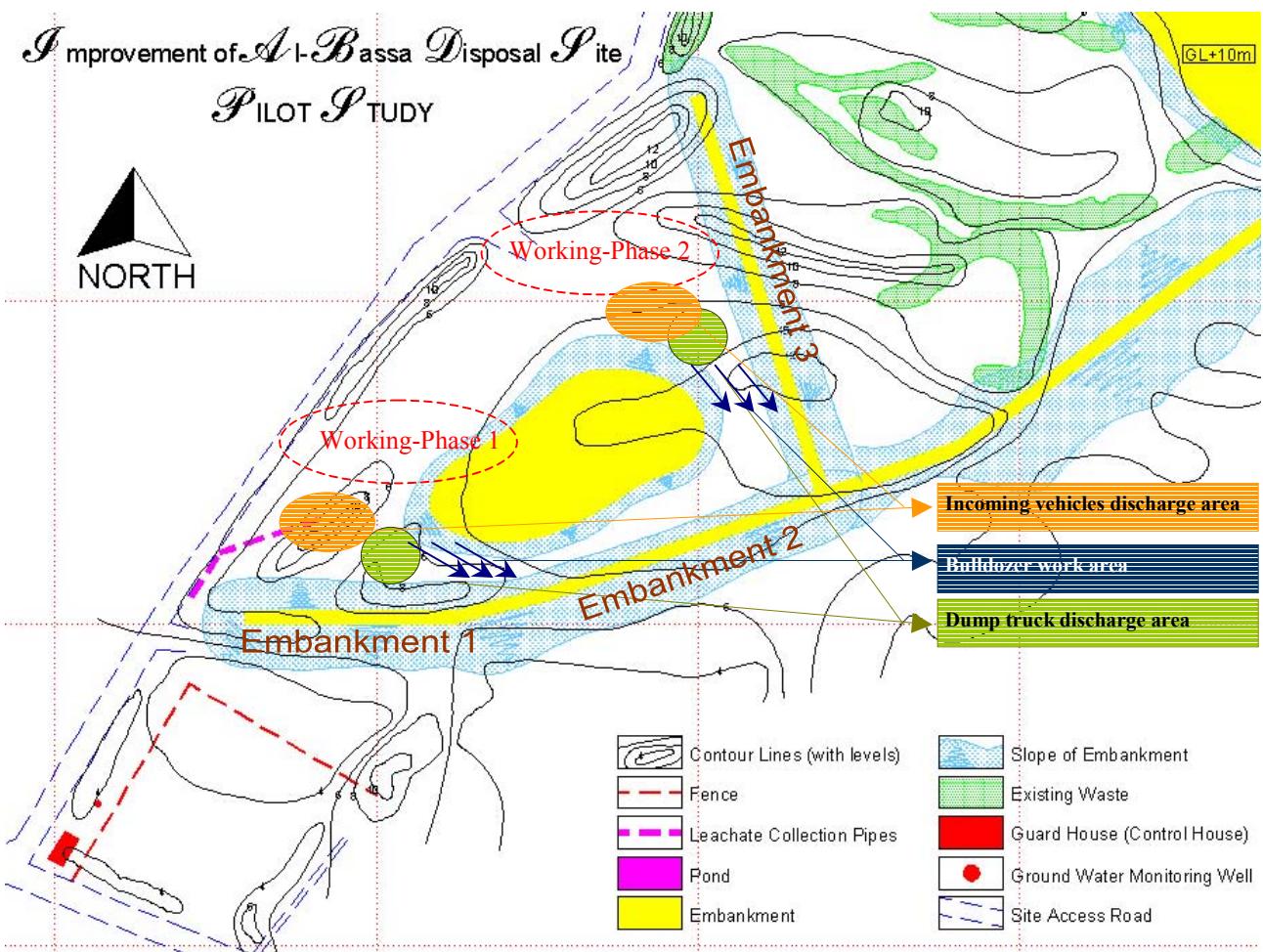
For this issue, *JICA Study Team* has instructed to remove the smooth sand and to cover the pipes with gravels until the level of +0.5 m from the ground level.

5. Some issues:

- Some vehicles are coming in the noon break time (15:00 – 20:00), and discharging the waste on the access road next to the Pilot Study area.
- Some others are discharging the waste outside the Pilot Study area (in zones II & III).
- Cattles of sheeps are coming at nights (02:00 – 06:00) and even at the noon-break times (02:00 – 08:00) and feeding on the waste.

JICA Study Team requested 24 hours inspection to the observers.

Drawing of the progress in week 8



(Figure 8.2) Map shows the Pilot Study progress in week 8: June 28th – August 03rd, 2001

Some photos of the operations in week 8: June 28th – August 03rd, 2001



(Figure 8.3) Bad condition of the operation road results in delay in discharging the waste



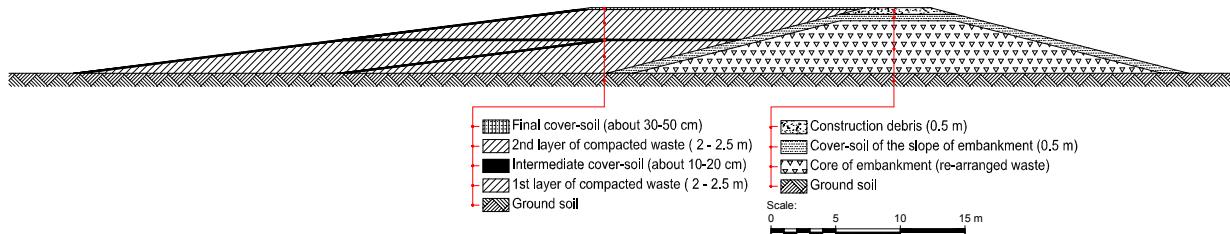
(Figure 8.4) Waste discharging operations is switched to working-phase 2



(Figure 8.5) Covering the cell of the compacted waste of week 7



(Figure 8.6) Compacting the cover-soil



(Figure 8.7) Procedures of the intermediate cover-soil test run by JICA Study Team

Some photos of the operations in week 8: June 28th – August 03rd, 2001



(Figure 8.8) Step 1: Compaction of the 1st layer of waste (forming a slope of 1:4)



(Figure 8.9) Step 2: Discharging some sand by the dump truck



(Figure 8.10) Bulldozer is pushing the sand in order to form a 10 cm layer of intermediate cover-soil as well as good compaction of the waste



(Figure 8.11) The bulldozer, in working-phase 2, is spreading the intermediate cover-soil

Some photos of the operations in week 8: June 28th – August 03rd, 2001



(Figure 8.12) Control House...



(Figure 8.13) Installation of the upper steel wires of the fence

The Pilot Study on Improvement of Al-Bassa Disposal Site

Weekly Analysis

Week No.8 July 28th - Aug. 3rd

Total Incoming:	362	51.7
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Shifts	TTL	AVG
Morning	198	28.3
Night	164	23.4

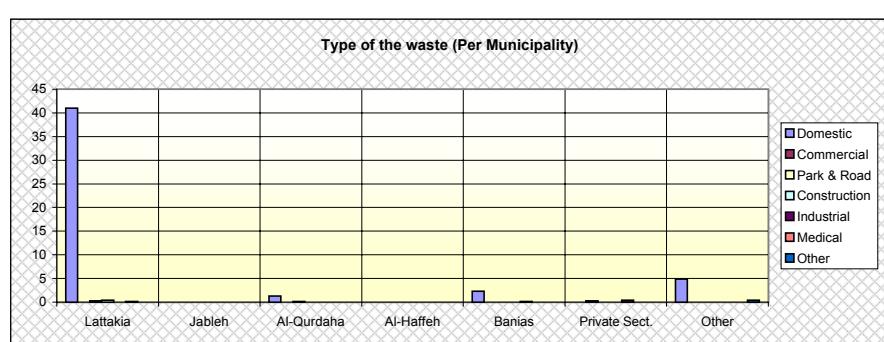
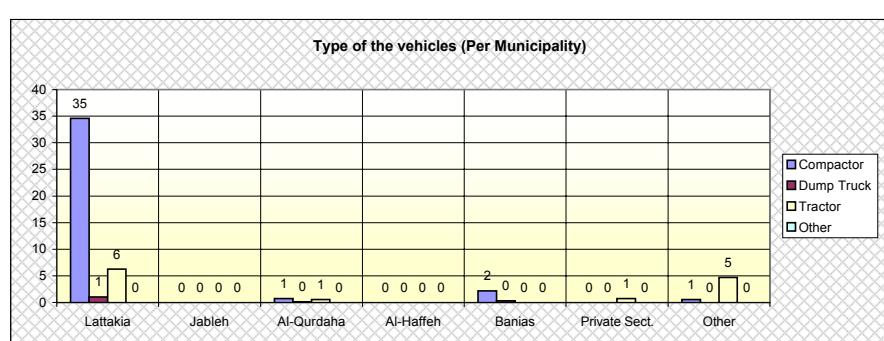
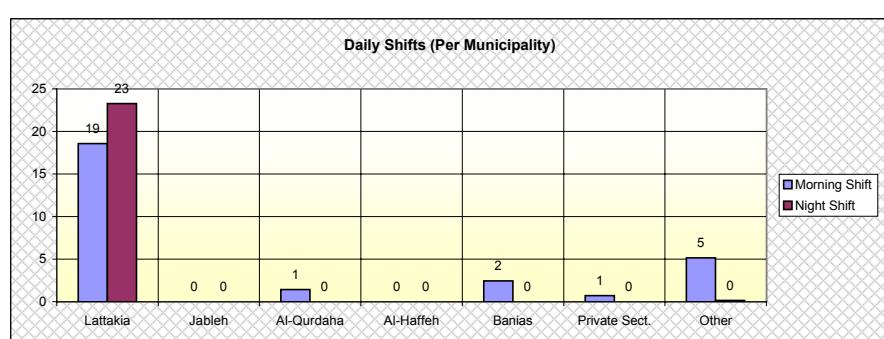
Vehicles	TTL	AVG
Compactor	266	38
Dump Truck	10	1.43
Tractor	86	12.3
Other	0	0

Mun.	TTL	AVG
Lattakia	293	41.9
Jableh	0	0
Al-Qurdaha	10	1.43
Al-Haffeh	0	0
Banias	17	2.43
Private Sect.	5	0.71
Other	37	5.29

Waste Type	TTL	AVG
Domestic	346	49.4
Commercial	2	0.29
Park & Road	3	0.43
Construction	3	0.43
Industrial	4	0.57
Medical	1	0.14
Other	3	0.43

Hours	TTL	AVG
8	8	1
9	38	5
10	52	7
11	40	6
12	27	4
13	24	3
14	8	1
15	1	0
16	0	0
17	0	0
18	0	0
19	0	0
20	32	5
21	30	4
22	24	3
23	21	3
0	15	2
1	22	3
2	20	3

(Average)		Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other
Shift	Morning	19	0	1	0	2	1	5
	Night	23	0	0	0	0	0	0
Vehicle Type	Compactor	35	0	1	0	2	0	1
	Dump Truck	1	0	0	0	0	0	0
	Tractor	6	0	1	0	0	1	5
	Other	0	0	0	0	0	0	0
Waste Type	Domestic	41	0	1	0	2	0	5
	Commercial	0	0	0	0	0	0	0
	Park & Road	0	0	0	0	0	0	0
	Construction	0	0	0	0	0	0	0
	Industrial	0	0	0	0	0	0	0
	Medical	0	0	0	0	0	0	0
	Other	0	0	0	0	0	0	0



The Pilot Study on *Improvement of Al-Bassa Disposal Site*

Weekly Report

Week 9 ...

August 04th – 10th, 2001

Week 9

August 14th – 10th, 2001

Introduction

Continuation from the last week, the following activities:

- ❖ Control of daily landfill operation.
- ❖ Control of incoming vehicles.
- ❖ Control of scavenging activities.
- ❖ Installation of control facilities.

1. Incoming Vehicles:

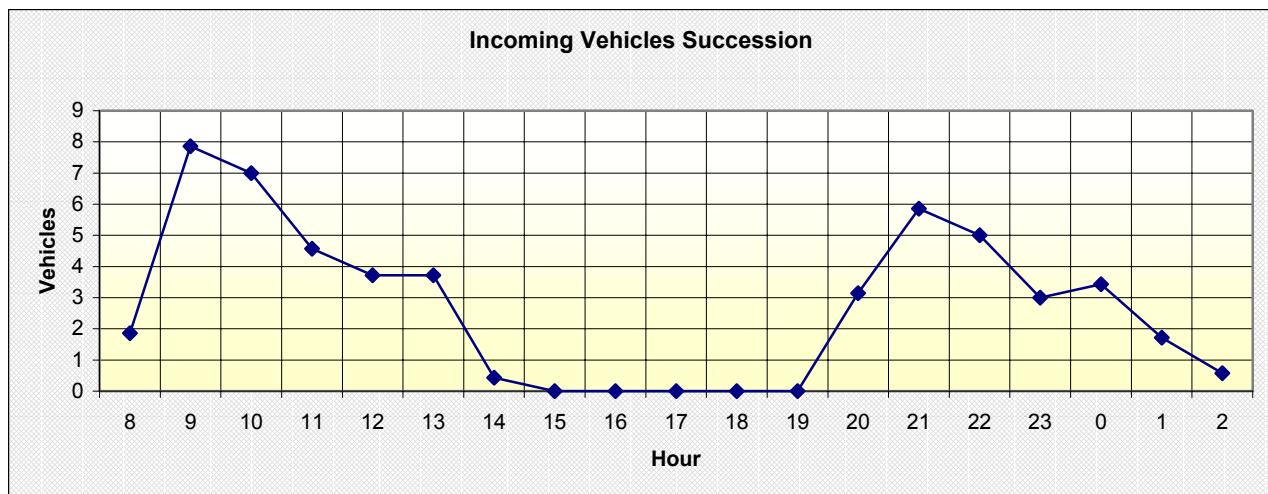
During this week, 363 vehicles have discharged the waste (204 vehicles for the day-shift and 159 for the night-shift) (as 362 vehicles came in week 7). Most of the day & night-shifts are from Lattakia Municipality (the daily average is about 29 vehicles for the day-shift, and 22 vehicles for the night-shift).

For more details refer to the attachment No. I: Daily Registration Sheets & Weekly Analysis

Total collection vehicles are: 256 compactor, 87 tractor and 20 dump truck.
The succession average of the daily incoming vehicles shown in figure 9.1

Peak hour for the day-shift this week is 09:00 (it was 10:00 in week 8).

Peak hour for the night-shift is 21:00 (it was 20:00 in week 8).



(Figure 9.1) Average of the daily incoming vehicles during Week 9

Incoming vehicles are discharging the waste in both working-phases 1&2, (figure 9.2).

2. Landfill Operation:

Operation road in the working-phase 2 is in a good condition, this is very helpful for the collection vehicles to discharge the waste quickly and leave the landfill (figure 9.3).

The intermediate cover-soil method (that *JICA Study Team* tested in week 8) is adopted this week, in cooperation between the bulldozer and the dump truck (figure 9.4). Smooth operation of the bulldozer for the push and compaction of the waste can be clearly noticed.

Total incoming collection vehicles during this week: 363 vehicles.

According to that: about 1995 ton of waste is discharged in week 9 (almost same amount as week 8).

Total volume of the discharged waste is 2216 m³, i.e. an area of about (27 X 27) m² & 3 m high.

3. Scavenging Activities:

On August 8th 2001, *JICA Study Team* carried out a survey on the scavenging activities in Al-Bassa.

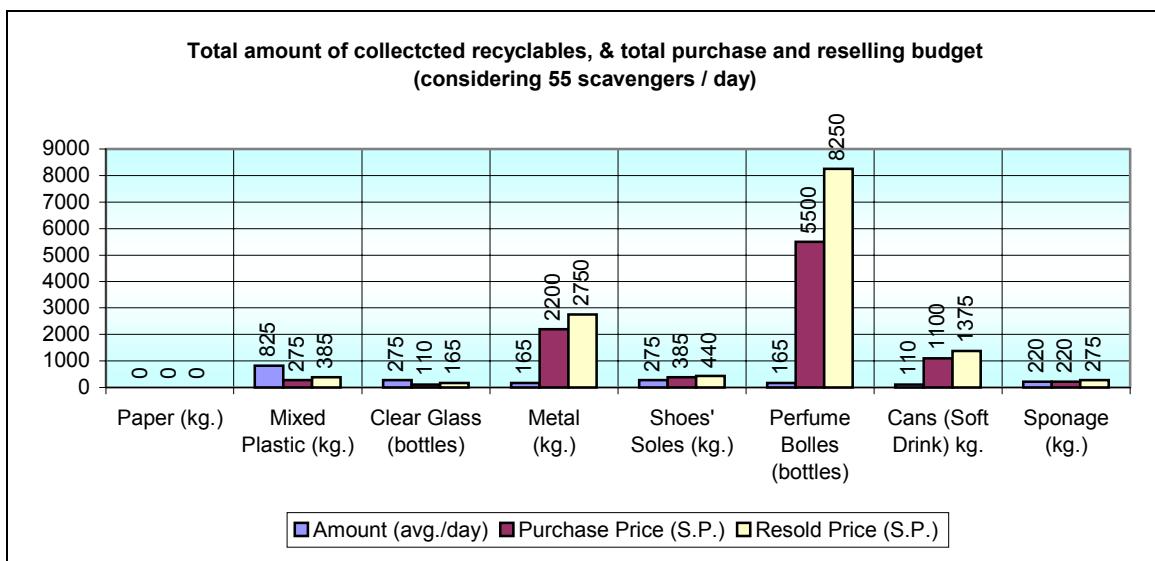
The following chart shows the daily amount of each kind of recyclables (per one waste-picker), purchase price, and resold price.



There are three groups of the waste-pickers as follows:

1. Al-Bassa Group; about 15 waste-pickers, head of this group is Mr. Alaa Taffoura.
2. Bedouin Group; about 25 waste-pickers, head of this group is Mr. Salloum
3. Lattakia Group (informal housing area); about 15 waste-pickers; their head is Mr. Kaser

According to the above table, it is clear that the daily average of the waste-pickers is about 55 persons, and considering the above chart (for single waste-picker) the daily amount of the recyclables would be as follows:



There are two middlemen in Al-Bassa. Kaser (Head of Lattakia group of waste-pickers) and Abu-Ahmad (his brother). They purchasing all recyclable materials from the waste-pickers in Al-Bassa. They resell (what they collected & purchased from other waste-pickers) to one middlemen in Lattakia city who resells the recyclables to the final end-user.

Based on the survey, it was found that the Bedouin people possess the sheep-cattles. There is about 7 families living surroundings of Al-Bassa disposal site (near seashore), and each family own about 150 sheeps; i.e. about 1000 sheeps in total.

As already noted in Week Report 7 and 8, some sheep-cattles keepers are feeding their animals on the waste in the Pilot Study area after the landfill observers leave, during both noon & night-break times (figure 9.1).

Some dangerous situation still found between scavenging activities and landfill operation, because waste-pickers are working adjustment to landfill equipment. In order to settle this issue, *JICA Study Team* held a meeting for the attendance of waste-pickers, landfill operators, collection vehicle drivers and Lattakia municipality officials.

The detail is described in Section 5 of this report.

4. Control Facilities:

1. Leachate Collection Pipes:

The smooth sand that was put on the pipes in week 8 has been removed, and gravel is applied instead.

2. Gas Removable Pipe:

Gas removable pipe will be installed in two parts: first part is a 3 m height and second is 2 m height (total height will be 5 m). The level of the bottom of the pipe is -0.5 m from the ground level and the upper level will be +4.5m from the ground level. During this week, the steel casing of the first part is installed (diameter is 1 m) (figure 9.6) and the remaining parts is also brought to the site.

3. Sign Board:

Sign board is installed near the control house (figures 9.2 & 9.7).

5. Opening ceremony of the control house in Al-Bassa on August 9th, 2001:

On August 9th 2001, *JICA Study Team* in cooperation with the Counterpart Team has held a meeting with the waste-pickers, collection vehicles drivers, landfill operators, observers, and Lattakia municipality officials, on the occasion of the opening ceremony of control house (figure 9.8). The attendants were about 25 collection vehicles drivers, 5 landfill operators, 2 landfill observers and about 60 waste-pickers (figure 9.9).

The major purpose designated by *JICA Study Team*'s is to ensure safe and smooth landfill operations, as well as to improve the sanitary condition of the scavenging activities.

JICA Study Team has made some Instructions for the following two issues:

- ❖ **Prevent the dangerous condition of scavenging activities and to keep smooth landfill operation.**

JICA Study Team proposed to separate between landfill operation area on one hand, and both waste discharging and scavenging activity area on the other.

Therefore; the operations should be carried out alternately: i.e. one day, landfill operations are in working-phase 1 for instance, and waste discharging as well as scavenging activities are in working-phase 2; then on the second day, landfill operations are in working-phase 2, and both waste discharging and scavenging activities are in working-phase 1, and so on.

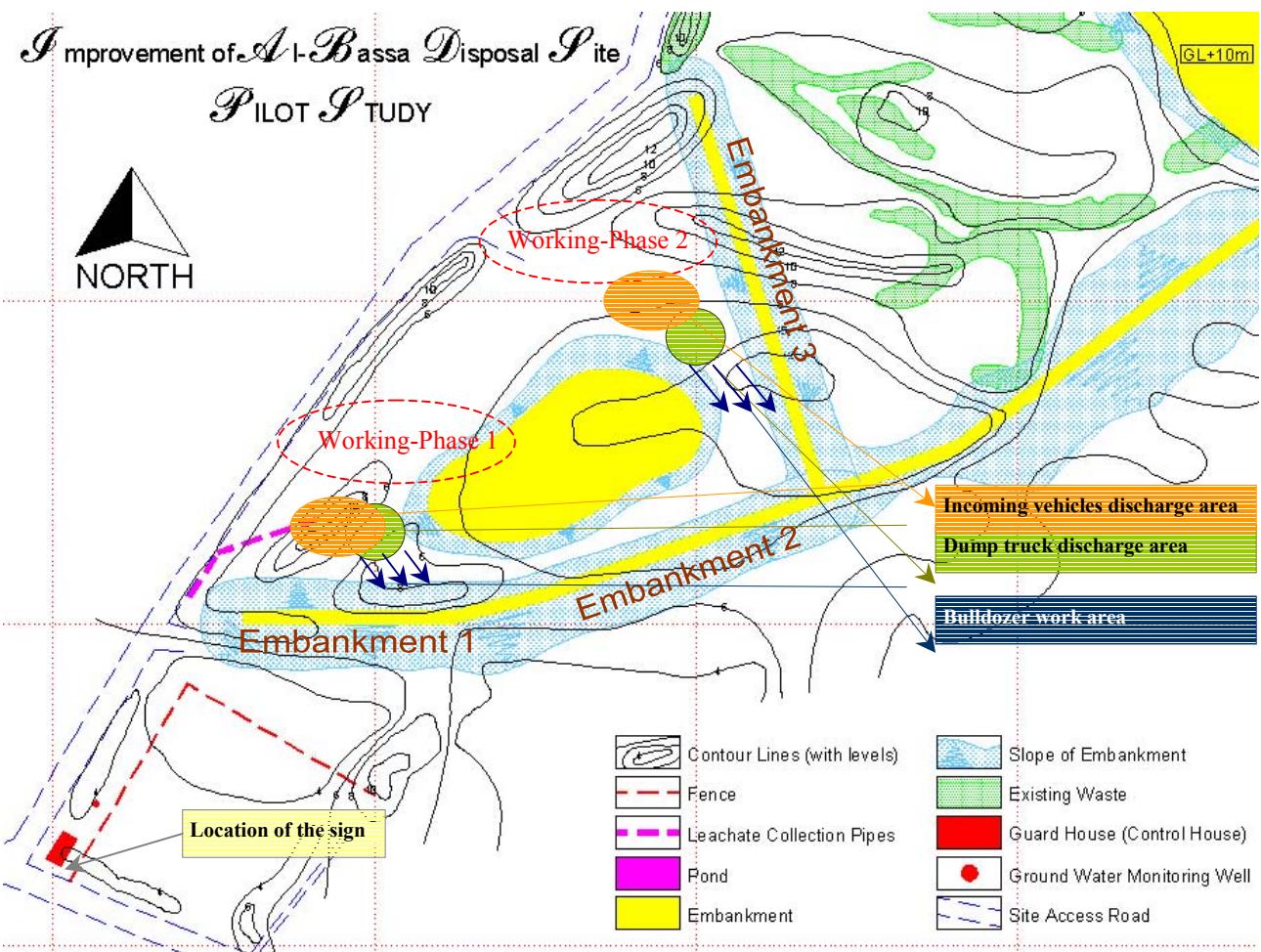
- ❖ **Improve the sanitary conditions of the waste-pickers**

JICA Study Team have guided the waste-pickers to prevent the direct contact between their bodies and the waste by wearing some gloves, boots... etc.

For that purpose, *JICA Study Team* have distributed boots to all the waste-pickers attended the meeting (about 60 persons).

The meeting took around 1 hour and all the questions have been clearly answered, and they have been promised to take their recommendations into consideration.

Drawing of the progress in week 9



(Figure 9.2) Map shows the Pilot Study progress in week 9: August 04th – 10th, 2001

Some photos of the operations in week 9: August 04th – 10th, 2001



(Figure 9.3) Good condition of the operation road in the working-phase 2



(Figure 9.4) Using the intermediate cover-soil in the working-phase 2



(Figure 9.5) Some sheep-cattles are waiting for the landfill observers and operators to leave for the noon-break time, to feed them inside the Pilot Study area



(Figure 9.6) 1st part of the gas removable collection pipe (steel casing and perforated concrete pipe)



(Figure 9.7) Opening ceremony of the control house. <Installation of the sign board near the control house>



(Figure 9.8) JICA Study Team and counterpart team

Some photos of the operations in week 9: August 04th – 10th, 2001



(Figure 9.9) Attendants of the meeting



(Figure 9.10) Prevent the direct contact between “your body” and “waste”



(Figure 9.11) Distributing the boots to the waste-pickers



(Figure 9.12) Happy with their boots

The Pilot Study on Improvement of Al-Bassa Disposal Site

Weekly Analysis

Week No.9 Aug.4th - Aug. 10th

Total Incoming:	363	51.9
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Shifts	TTL	AVG
Morning	204	29.1
Night	159	22.7

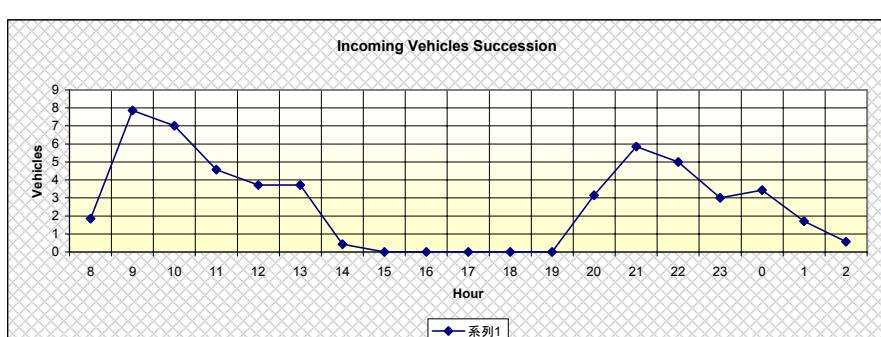
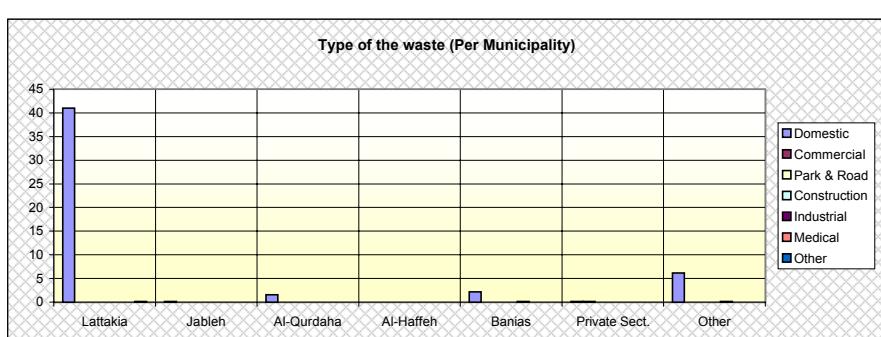
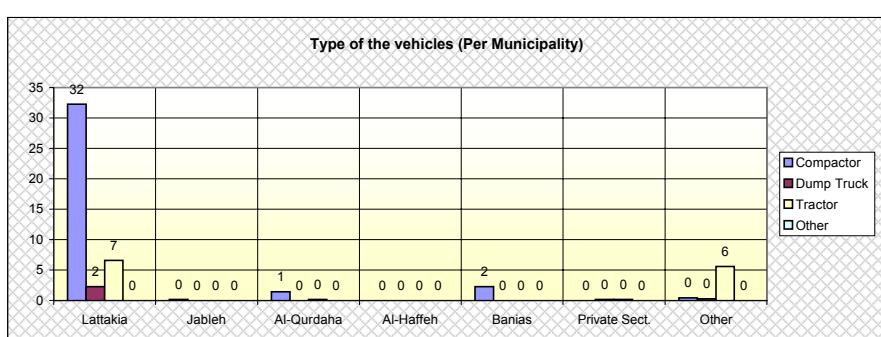
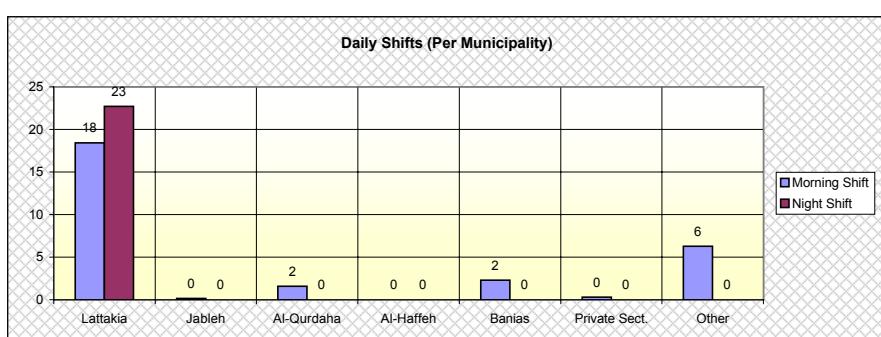
Vehicles	TTL	AVG
Compactor	256	36.6
Dump Truck	20	2.86
Tractor	87	12.4
Other	0	0

Mun.	TTL	AVG
Lattakia	288	41.1
Jableh	1	0.14
Al-Qurdaha	11	1.57
Al-Haffeh	0	0
Banias	16	2.29
Private Sect.	2	0.29
Other	44	6.29

Waste Type	TTL	AVG
Domestic	358	51.1
Commercial	2	0.29
Park & Road	0	0
Construction	0	0
Industrial	2	0.29
Medical	0	0
Other	1	0.14

Hours	TTL	AVG
8	13	2
9	55	8
10	49	7
11	32	5
12	26	4
13	26	4
14	3	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	22	3
21	41	6
22	35	5
23	21	3
0	24	3
1	12	2
2	4	1

(Average)		Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other
Shift	Morning	18	0	2	0	2	0	6
	Night	23	0	0	0	0	0	0
Vehicle Type	Compactor	32	0	1	0	2	0	0
	Dump Truck	2	0	0	0	0	0	0
	Tractor	7	0	0	0	0	0	6
	Other	0	0	0	0	0	0	0
Waste Type	Domestic	41	0	2	0	2	0	6
	Commercial	0	0	0	0	0	0	0
	Park & Road	0	0	0	0	0	0	0
	Construction	0	0	0	0	0	0	0
	Industrial	0	0	0	0	0	0	0
	Medical	0	0	0	0	0	0	0
	Other	0	0	0	0	0	0	0



The Pilot Study on *Improvement of Al-Bassa Disposal Site*

Weekly Report

Week 10 ...

August 11th – 17th, 2001

Week 10

August 11th – 17th, 2001

Introduction

Following is still the scheduled activities for this week:

- ❖ Control of daily landfill operation.
- ❖ Control of incoming vehicles.
- ❖ Control of scavenging activities.
- ❖ Installation of control facilities.

1. Incoming Vehicles:

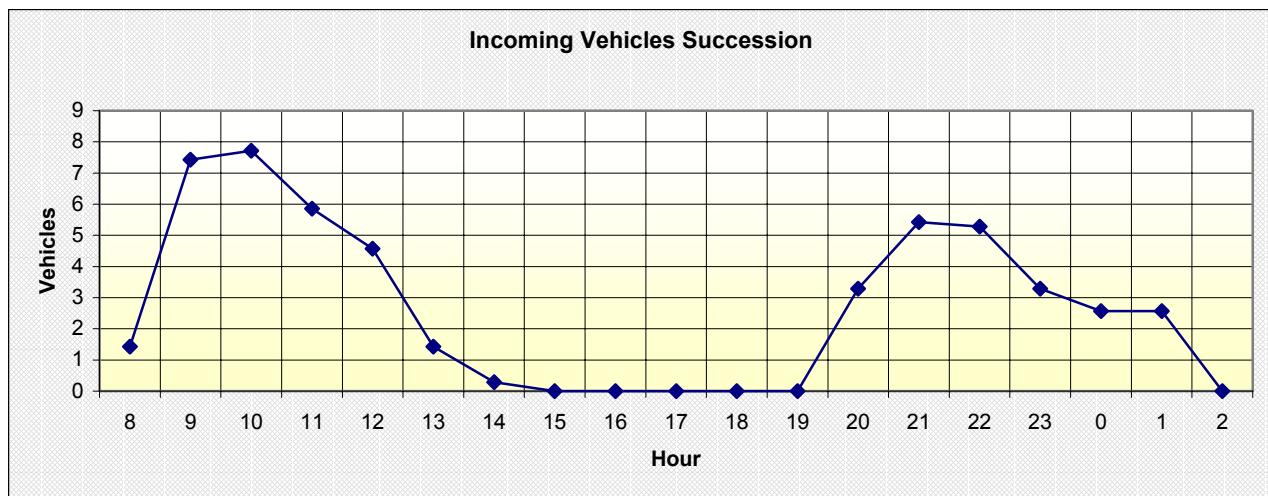
During this week, 358 vehicles have discharged the waste (121 vehicles for the day-shift and 157 for the night-shift) i.e. 5 vehicles decrease of week 9 (as 363 vehicles came in week 9). Most of the day & night-shifts are from Lattakia Municipality (the daily average is about 17 vehicles for the day-shift, and 22 vehicles for the night-shift).

For more details refer to the attachment No. I: Daily Registration Sheets & Weekly Analysis

Total collection vehicles are: 218 compactor, 115 tractor, 24 dump truck and 1 other. The succession average of the daily incoming vehicles shown in figure 9.1

Peak hour for the day-shift this week is 10:00 (it was 09:00 in week 9).

Peak hour for the night-shift is 21:00 (same as week 9).



(Figure 10.1) Average of the daily incoming vehicles during Week 10

Incoming vehicles are discharging the waste in both working-phases 1&2, (figure 10.2).

2. Landfill Operation:

Although the strong recommendation were stated by *JICA Study Team* in the Control house opening ceremony (refer to the weekly report 9, item 5, p.4), scavenging activities are still being carried out at the same working-phase of landfill operation (figure 10.3).

In August 11th and 13th, two accidents were happened during the scavenging activities of child waste-pickers (with landfill equipment), even they are not seriously injured.

Accordingly; starting from August 14th, strict instruction was stated by Lattakia Municipality to control the landfill operations, discharging and scavenging activities, in order to separate the landfill operation area from both discharging and scavenging activity area (figures 10.4 & 10.5).

Moreover; the Municipality strongly requested to the parents of the child waste-pickers to sign the documents in which if any accident occur to any of the waste-pickers, the entire responsibility should be borne by the waste-pickers themselves or their parents, and they have no rights to claim the Municipality or even the landfill operators.

Total incoming collection vehicles during this week: 358 vehicles.

According to that: about 1970 ton of waste is discharged in week 10 (almost same amount as week 9).

Total volume of the discharged waste is 2190 m³, i.e. an area of about (27 X 27) m² & 3 m high.

3. Scavenging Activities:

As mentioned above, the curious behavior of the waste-pickers have to be stopped and strict control of their activity area (working phase) should be performed by the observers, in order to prevent such accidents in the future as well as to increase the awareness of such dangers (strongly requested by the *JICA Study Team* to the Municipality).

4. Control Facilities:

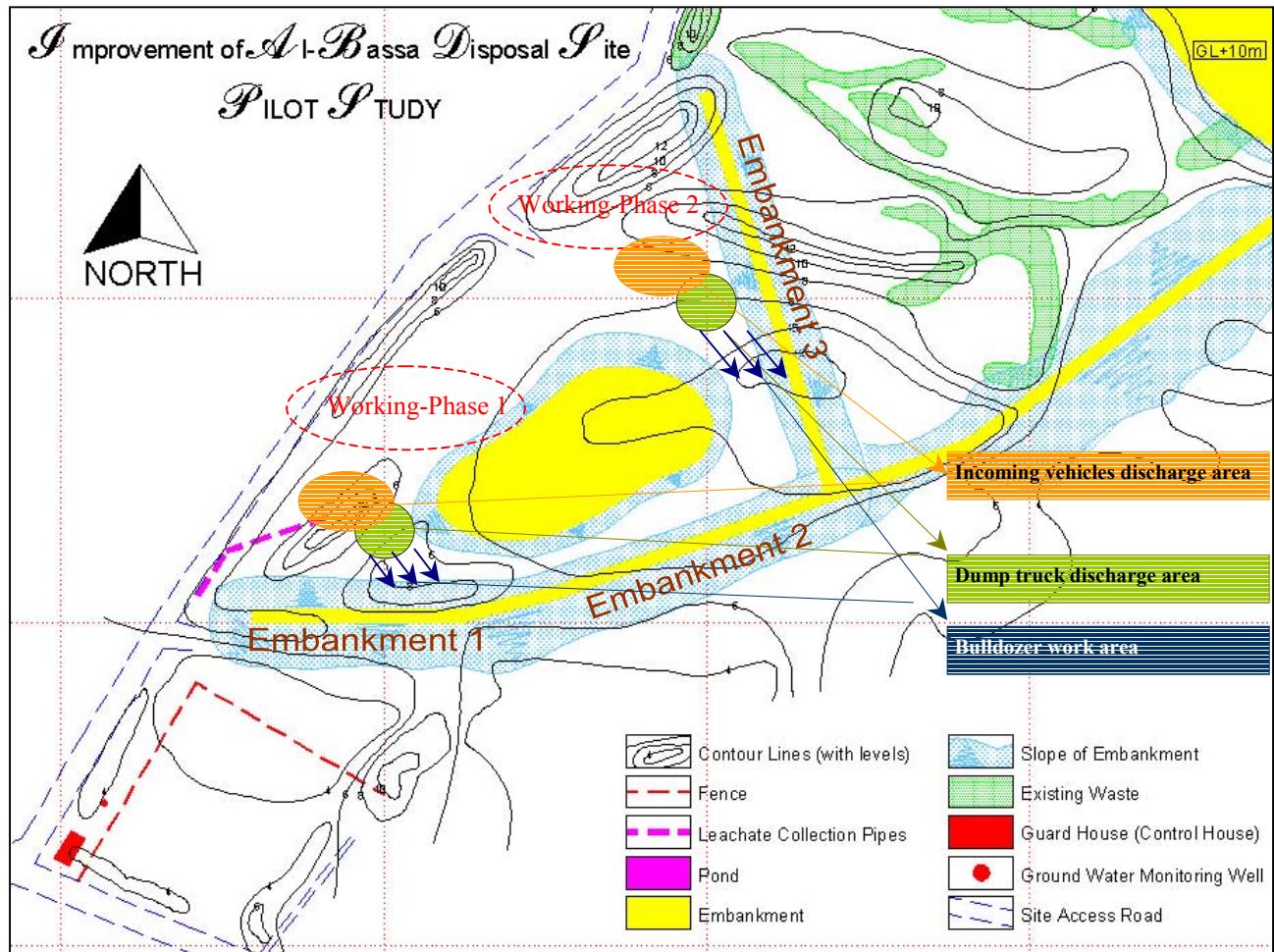
1. Leachate Collection Pipes:

The layers of the gravels that were supplied in week 9 are clearly shown in figure 10.6.

2. Gas Removal Collection Pipes:

First part of gas removal pipe were installed at the area of working phase 1.

Drawing of the progress in week 10



(Figure 10.2) Map shows the Pilot Study progress in week 10: August 11th – 17th, 2001

Some photos of the operations in week 10: August 11th – 17th, 2001



(Figure 10.3) Landfill operations, discharging and scavenging activities are dangerously mixed in working-phase 2 at the beginning of this week



(Figure 10.4) Working phase is separated
(After August 14th)
Discharging & scavenging activities in working-phase 1



(Figure 10.5) Working phase is separated
(After August 14th) 2



(Figure 10.6) Layers of the gravels applied to the leachate collection pipes

The Pilot Study on Improvement of Al-Bassa Disposal Site

Weekly Analysis

Week No.10 Aug. 11th - Aug. 17th

Total Incoming:	358	51.1
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Shifts	TTL	AVG
Morning	201	28.7
Night	157	22.4

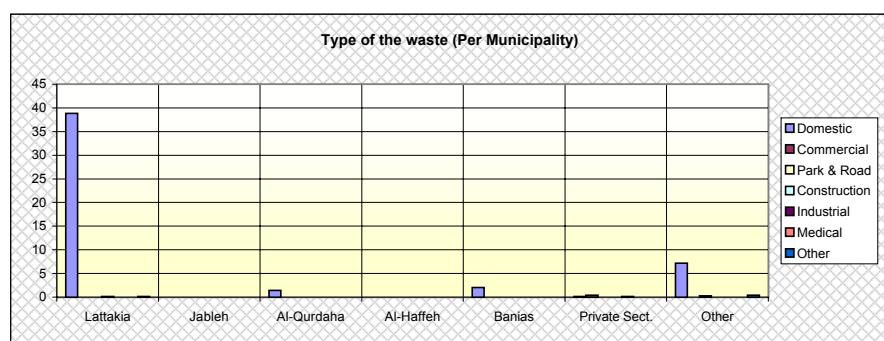
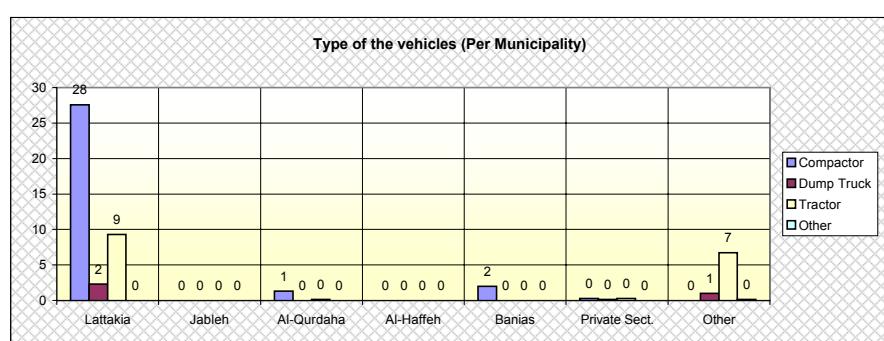
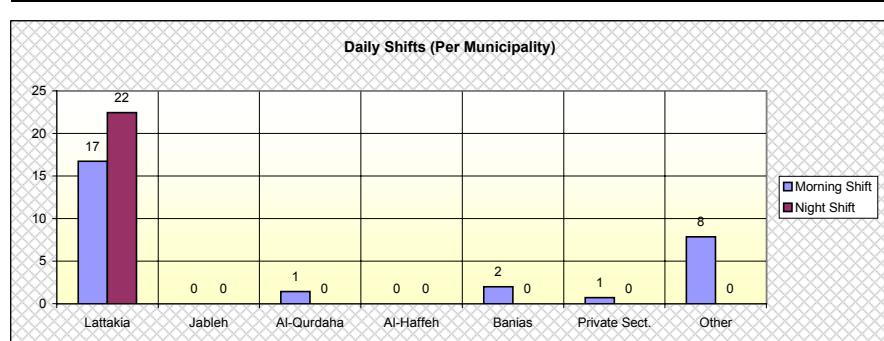
Vehicles	TTL	AVG
Compactor	218	31.1
Dump Truck	24	3.43
Tractor	115	16.4
Other	1	0.14

Mun.	TTL	AVG
Lattakia	274	39.1
Jableh	0	0
Al-Qurdaha	10	1.43
Al-Haffeh	0	0
Banias	14	2
Private Sect.	5	0.71
Other	55	7.86

Waste Type	TTL	AVG
Domestic	347	49.6
Commercial	3	0.43
Park & Road	2	0.29
Construction	1	0.14
Industrial	1	0.14
Medical	0	0
Other	4	0.57

Hours	TTL	AVG
8	10	1
9	52	7
10	54	8
11	41	6
12	32	5
13	10	1
14	2	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	23	3
21	38	5
22	37	5
23	23	3
0	18	3
1	18	3
2	0	0

(Average)		Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other
Shift	Morning	17	0	1	0	2	1	8
	Night	22	0	0	0	0	0	0
Vehicle Type	Compactor	28	0	1	0	2	0	0
	Dump Truck	2	0	0	0	0	0	1
	Tractor	9	0	0	0	0	0	7
	Other	0	0	0	0	0	0	0
Waste Type	Domestic	39	0	1	0	2	0	7
	Commercial	0	0	0	0	0	0	0
	Park & Road	0	0	0	0	0	0	0
	Construction	0	0	0	0	0	0	0
	Industrial	0	0	0	0	0	0	0
	Medical	0	0	0	0	0	0	0
	Other	0	0	0	0	0	0	0



The Pilot Study on Improvement of Al-Bassa Disposal Site

Incoming Vehicles' Registration Sheet

Page: 01

Date: 11 August

Shift	Incoming Time	Vehicle's Reg. No.	Vehicle's Type	Driver's Name	Contractor's Name	Waste Type	Departure Time	Notes
1	Morning 8:30		Tractor	Souhil Hsoun	Other	Domestic	8:35	Henadi Mun.
2	Morning 9:00	963297	Tractor	Atef Balta	Lattakia Mun.	Domestic	9:05	
3	Morning 9:10	58728	Tractor	Ayman Abo Daraa	Other	Domestic	9:15	Hmymim Mun.
4	Morning 9:10	962942	Compactor	Hekmat Badri	Lattakia Mun.	Domestic	9:15	
5	Morning 9:30	962932	Compactor	Mahmoud Ghazal	Lattakia Mun.	Domestic	9:35	
6	Morning 9:35	963159	Tractor	Sabet Sleten	Lattakia Mun.	Domestic	9:40	
7	Morning 10:00	963283	Tractor	Ali Abas	Other	Domestic	10:05	Ein Arous Mun.
8	Morning 10:20	962932	Compactor	Mounzer Hamada	Lattakia Mun.	Domestic	10:25	
9	Morning 10:25	125	Compactor	Adel Rahal	Banias Mun.	Domestic	10:30	
10	Morning 10:35	963183	Tractor	Safi Taaman	Lattakia Mun.	Domestic	10:40	
11	Morning 10:40	962938	Compactor	Hysam Yaseen	Lattakia Mun.	Domestic	10:45	
12	Morning 10:45	963208	Tractor	Ayman Kadi	Other	Domestic	10:50	Senjwan Mun.
13	Morning 11:00	520981	Dump Truck	Ali Kshish	Private Sect.	Industrial	11:10	Al-Masri Company
14	Morning 11:10	96314	Tractor	Ahmad Hamad	Other	Domestic	11:15	Baksa Mun.
15	Morning 11:30	962909	Compactor	Adnan Delez	Lattakia Mun.	Domestic	11:35	
16	Morning 11:40	110	Compactor	Mouhamad Kadour	Banias Mun.	Domestic	11:50	
17	Morning 12:00	962940	Compactor	Mouhamad Ali Salim	Lattakia Mun.	Domestic	12:05	
18	Morning 12:10	960058	Compactor	Ahmad Edris	Banias Mun.	Domestic	12:15	
19	Morning 12:30	962938	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	12:35	
20	Morning 12:30	962977	Compactor	Abd Alhi Habib	Lattakia Mun.	Domestic	12:35	
21	Morning 12:40	963213	Tractor	Salim Jahn	Lattakia Mun.	Domestic	12:45	
22	Morning 12:45	962945	Compactor	Esmaeel Shhada	Lattakia Mun.	Domestic	12:50	
23	Morning 12:45		Tractor	Najwan Shibani	Other	Domestic	12:55	Kersana Mun.
24	Morning 13:00	963178	Tractor	Ahmad Jahn	Lattakia Mun.	Domestic	13:10	
25	Morning 13:10		Compactor	Usama Wafta	Al-Qurdaha Mun.	Domestic	13:15	
26	Morning 13:25		Compactor	Mouhamad Housano	Al-Qurdaha Mun.	Domestic	13:30	
27	Morning 13:30	962931	Compactor	Mounzer Hamada	Lattakia Mun.	Domestic	13:35	
28	Morning 13:35	963278	Tractor	Samer Doubieh	Lattakia Mun.	Domestic	13:40	
29	Night 20:10	962952	Compactor	Farahat Hamdan	Lattakia Mun.	Domestic	20:20	
30	Night 20:30	963292	Tractor	Adnan Soulliman	Lattakia Mun.	Other	20:35	Sloughterhouse
31	Night 21:00	963180	Tractor	Hekmat Habib	Lattakia Mun.	Domestic	21:05	
32	Night 21:05	963005	Compactor	Maymoun Saleh	Lattakia Mun.	Domestic	21:10	
33	Night 21:20	9629	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	21:25	
34	Night 21:25	962938	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	21:30	
35	Night 22:00	963	Tractor	Hatem Samra	Lattakia Mun.	Domestic	22:05	
36	Night 22:00	962928	Compactor	Hysam Khalil	Lattakia Mun.	Domestic	22:05	
37	Night 22:05	9629	Compactor	Wafik Balta	Lattakia Mun.	Domestic	22:10	
38	Night 22:10	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	22:15	
39	Night 22:30	962941	Compactor	Mouhamad Abd Alhadi	Lattakia Mun.	Domestic	22:35	
40	Night 22:30	962	Compactor	Moustafa Alhasan	Lattakia Mun.	Domestic	22:35	
41	Night 22:40	963	Tractor	Asef Mouhamad	Lattakia Mun.	Domestic	22:45	
42	Night 22:40	962931	Compactor	Mouhamad Koumara	Lattakia Mun.	Domestic	22:55	
43	Night 23:20	963005	Compactor	Mymoun Saleh	Lattakia Mun.	Domestic	23:25	
44	Night 23:30	962940	Compactor	Mouhamad Salim	Lattakia Mun.	Domestic	23:35	
45	Night 23:30	9629	Compactor	Abd Almalek Agha	Lattakia Mun.	Domestic	23:35	
46	Night 0:00	9629	Compactor	Mouhamad Darkoun	Lattakia Mun.	Domestic	0:05	
47	Night 0:10	96296	Compactor	Ahmad Khouder	Lattakia Mun.	Domestic	0:15	
48	Night 0:30	963180	Tractor	Hekmat Habib	Lattakia Mun.	Domestic	0:25	
49	Night 0:55	962	Compactor	Moustafa Abo Alward	Lattakia Mun.	Domestic	1:00	
50	Night 1:00	9629	Compactor	Wafik Balta	Lattakia Mun.	Domestic	1:05	
51	Night 1:10	962927	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	1:15	
52	Night 1:30	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	1:35	
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Total incoming vehicles this day: 52 Vehicles

The Pilot Study on Improvement of Al-Bassa Disposal Site

Page: 02

Date: 11 August

Incoming Vehicles' Analysis

Total Incoming:	52
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Shifts	
Morning	28
Night	24

True

Vehicles	
Compactor	34
Dump Truck	1
Tractor	17
Other	0

True

Municipalities	
Lattakia	40
Jableh	0
Al-Qurdaha	2
Al-Haffeh	0
Banias	3
Private Sect.	1
Other	6

True

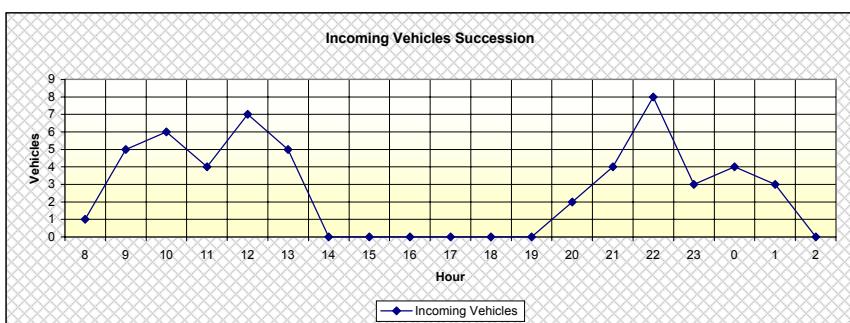
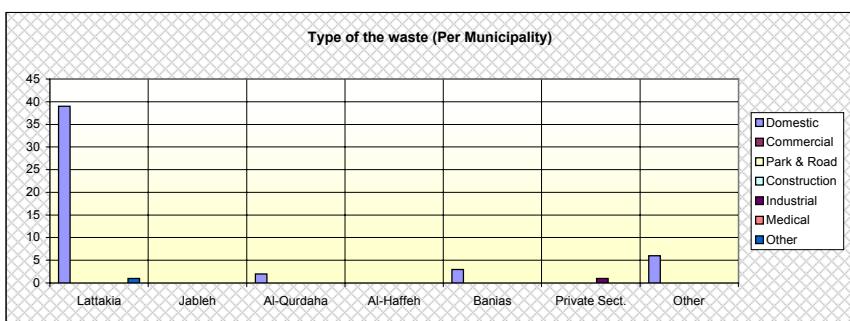
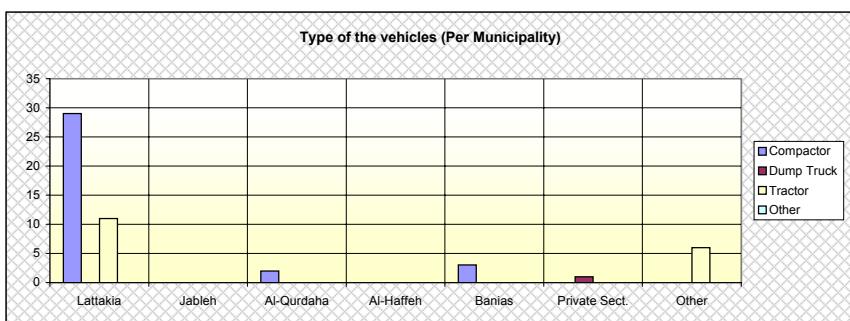
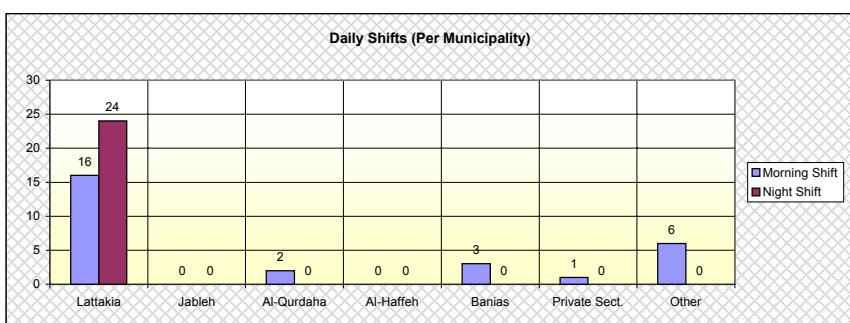
Waste Type	
Domestic	50
Commercial	0
Park & Road	0
Construction	0
Industrial	1
Medical	0
Other	1

True

Hours	
8	1
9	5
10	6
11	4
12	7
13	5
14	0
15	0
16	0
17	0
18	0
19	0
20	2
21	4
22	8
23	3
0	4
1	3
2	0

True

	Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other
Shift	Morning	16	0	2	0	3	1
	Night	24	0	0	0	0	0
Vehicle Type	Compactor	29	0	2	0	3	0
	Dump Truck	0	0	0	0	1	0
	Tractor	11	0	0	0	0	6
	Other	0	0	0	0	0	0
Waste Type	Domestic	39	0	2	0	3	6
	Commercial	0	0	0	0	0	0
	Park & Road	0	0	0	0	0	0
	Construction	0	0	0	0	0	0
	Industrial	0	0	0	0	1	0
	Medical	0	0	0	0	0	0
	Other	1	0	0	0	0	0



The Pilot Study on Improvement of Al-Bassa Disposal Site

Incoming Vehicles' Registration Sheet

Page: 01

Date: 12 August

Shift	Incoming Time	Vehicle's Reg. No.	Vehicle's Type	Driver's Name	Contractor's Name	Waste Type	Departure Time	Notes
1	Morning	9:00	962939	Compactor	Hysam Yaseen	Lattakia Mun.	Domestic	9:05
2	Morning	9:00	962952	Compactor	Farhat Hamdan	Lattakia Mun.	Domestic	9:05
3	Morning	9:05	963289	Tractor	Atef Balta	Lattakia Mun.	Domestic	9:10
4	Morning	9:10	962202	Dump Truck	Ahmad Hawari	Lattakia Mun.	Domestic	9:15
5	Morning	9:10	958607	Tractor	Ayman Abo Daraa	Other	Domestic	9:15
6	Morning	9:10	962969	Compactor	Ahmad Khouder	Lattakia Mun.	Domestic	9:15
7	Morning	9:10	03717	Tractor	Rajeh Halouni	Other	Domestic	9:15
8	Morning	9:20	962938	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	9:25
9	Morning	9:20		Tractor	Najwan Shiban	Other	Domestic	9:25
10	Morning	9:25	962968	Compactor	Mouhamad Darkoun	Lattakia Mun.	Domestic	9:30
11	Morning	9:35		Tractor	Souhil Hasoun	Other	Domestic	9:40
12	Morning	10:00	125	Compactor	Ahmad Edris	Banias Mun.	Domestic	10:05
13	Morning	10:10	962940	Compactor	Mouhamad Salim	Lattakia Mun.	Domestic	10:15
14	Morning	10:10		Compactor	Mouhamad Housano	Al-Qurda Mun.	Domestic	10:15
15	Morning	10:10	274868	Dump Truck	Samer Esa	Other	Road & Park	10:20
16	Morning	10:20	963183	Tractor	Safi Taaman	Lattakia Mun.	Domestic	10:25
17	Morning	10:20	963187	Tractor	Ahmad Jahn	Lattakia Mun.	Domestic	10:30
18	Morning	11:20	962909	Compactor	Adnan Delez	Lattakia Mun.	Domestic	11:25
19	Morning	11:25	962945	Compactor	Esmael Shhada	Lattakia Mun.	Domestic	11:30
20	Morning	12:10	110	Compactor	Mouhamad Kadour	Banias Mun.	Domestic	12:15
21	Morning	12:10	962977	Compactor	Abd Alhi Habib	Lattakia Mun.	Domestic	12:15
22	Morning	12:30	963213	Tractor	Salim Jahn	Lattakia Mun.	Domestic	12:35
23	Morning	12:35	963005	Compactor	Mymoun Saleh	Lattakia Mun.	Domestic	12:40
24	Morning	12:55	690058	Compactor	Wajeeh Shaar	Banias Mun.	Domestic	13:00
25	Morning	13:05	04421	Tractor	Ahmad AlSheikh	Private Sect.	Commercial	13:30
26	Morning	13:20	962932	Compactor	Mounzer Hamada	Lattakia Mun.	Domestic	13:25
27	Morning	13:30	963278	Tractor	Samer Doubieh	Other	Domestic	13:35
28	Morning	14:00	962939	Compactor	Hysam Yaseen	Lattakia Mun.	Domestic	14:10
29	Morning	14:00	962942	Compactor	Hekmat Badri	Lattakia Mun.	Domestic	14:05
30	Night	20:30	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	20:35
31	Night	20:40	962950	Compactor	Mareei Soud	Lattakia Mun.	Domestic	20:45
32	Night	20:55	962927	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	21:00
33	Night	21:10	96292	Compactor	Ali Mourez	Lattakia Mun.	Domestic	21:15
34	Night	21:10	962911	Compactor	Ali Haiiek	Lattakia Mun.	Domestic	21:15
35	Night	21:15	963921	Tractor	Hatem Samra	Lattakia Mun.	Domestic	21:20
36	Night	21:20	962940	Compactor	Mouhamad Salim	Lattakia Mun.	Domestic	21:25
37	Night	21:30	962938	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	21:35
38	Night	21:35	962942	Compactor	Amar Zahlout	Lattakia Mun.	Domestic	21:40
39	Night	21:50	962952	Compactor	Farhat Hamdan	Lattakia Mun.	Domestic	21:55
40	Night	22:00	962980	Tractor	Hekmat Habib	Lattakia Mun.	Domestic	22:10
41	Night	22:10	962941	Compactor	Mouhamad Abd Alhadi	Lattakia Mun.	Domestic	22:15
42	Night	22:20	962936	Compactor	Hasan Ibrahim	Lattakia Mun.	Domestic	22:25
43	Night	22:30	962967	Compactor	ABD Almalek Agha	Lattakia Mun.	Domestic	22:35
44	Night	23:10	962622	Tractor	Hatem Samra	Lattakia Mun.	Domestic	23:20
45	Night	23:30	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	23:35
46	Night	23:40	962931	Compactor	Mouhamad Koumara	Lattakia Mun.	Domestic	23:45
47	Night	0:10	962950	Compactor	Mareei Soud	Lattakia Mun.	Domestic	0:15
48	Night	0:25	962927	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	0:30
49	Night	1:00	963156	Tractor	Ebrahim Jaloud	Lattakia Mun.	Domestic	1:10
50	Night	1:30	962940	Compactor	Mouhamad Ali Salim	Lattakia Mun.	Domestic	1:35
51	Night	1:40	962911	Compactor	Ali Haiiek	Lattakia Mun.	Domestic	1:45
52	Night	1:40	963126	Tractor	Hatem Samra	Lattakia Mun.	Domestic	1:45
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Total incoming vehicles this day:

52 Vehicles

The Pilot Study on Improvement of Al-Bassa Disposal Site

Page: 02

Date: 12 August

Incoming Vehicles' Analysis

Total Incoming:	52
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Shifts	
Morning	29
Night	23

True

Vehicles	
Compactor	35
Dump Truck	2
Tractor	15
Other	0

True

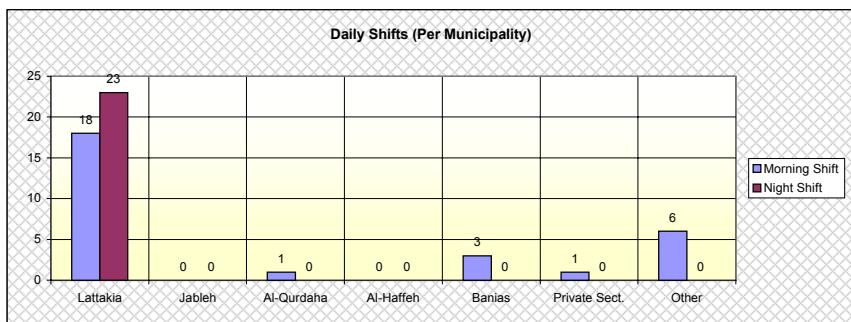
Municipalities	
Lattakia	41
Jableh	0
Al-Qurdaha	1
Al-Haffeh	0
Banias	3
Private Sect.	1
Other	6

True

Waste Type	
Domestic	50
Commercial	1
Park & Road	1
Construction	0
Industrial	0
Medical	0
Other	0

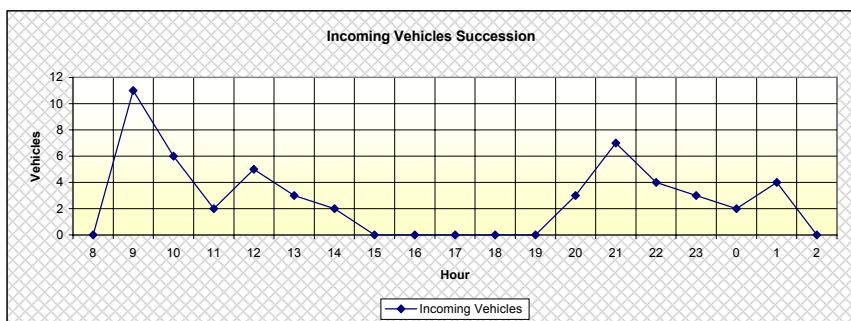
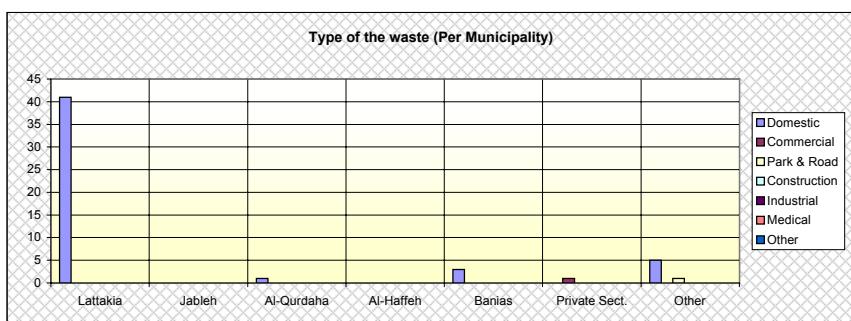
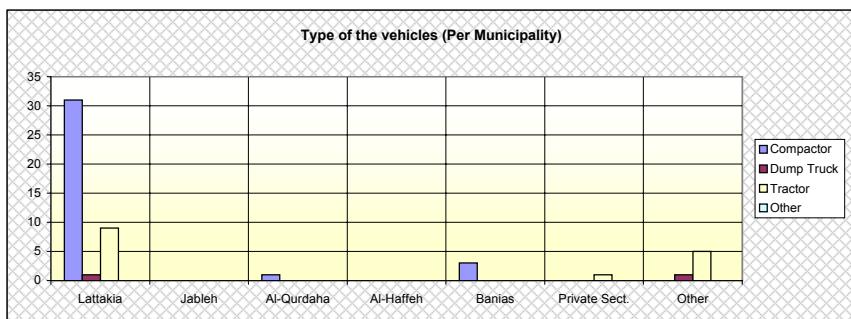
True

	Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other
Shift	Morning	18	0	1	0	3	1
	Night	23	0	0	0	0	0
Vehicle Type	Compactor	31	0	1	0	3	0
	Dump Truck	1	0	0	0	0	1
	Tractor	9	0	0	0	1	5
	Other	0	0	0	0	0	0
Waste Type	Domestic	41	0	1	0	3	0
	Commercial	0	0	0	0	1	0
	Park & Road	0	0	0	0	0	1
	Construction	0	0	0	0	0	0
	Industrial	0	0	0	0	0	0
	Medical	0	0	0	0	0	0
	Other	0	0	0	0	0	0



Hours	
8	0
9	11
10	6
11	2
12	5
13	3
14	2
15	0
16	0
17	0
18	0
19	0
20	3
21	7
22	4
23	3
0	2
1	4
2	0

True



The Pilot Study on Improvement of Al-Bassa Disposal Site

Incoming Vehicles' Registration Sheet

Page: 01

Date: 13 August

Shift	Incoming Time	Vehicle's Reg. No.	Vehicle's Type	Driver's Name	Contractor's Name	Waste Type	Departure Time	Notes
1	Morning	8:40	963317	Tractor	Atef Mouhamad	Other	8:45	Rwaysa Mun.
2	Morning	8:55		Tractor	Souhel Hasoun	Other	9:00	Henadi Mun.
3	Morning	9:10	962932	Compactor	Mounzer Hamada	Lattakia Mun.	9:15	
4	Morning	9:10	963203	Tractor	Ayman Kadi	Other	9:15	Senjwan Mun.
5	Morning	9:10	963278	Tractor	Samer Doubieh	Other	9:15	Al-Bassa
6	Morning	9:15	9629	Compactor	Hysam Yaseen	Lattakia Mun.	9:20	
7	Morning	9:20	962947	Compactor	Khaled Ghazal	Lattakia Mun.	9:25	
8	Morning	9:30	962977	Compactor	Abd Alhi Habib	Lattakia Mun.	9:35	
9	Morning	9:35		Tractor	Najwan Shibanii	Other	9:40	Kersana Mun.
10	Morning	9:40	963213	Tractor	Salim Jahni	Lattakia Mun.	9:45	
11	Morning	9:50		Compactor	Usama Watfa	Al-Qurda Mun.	9:55	
12	Morning	10:10		Compactor	Mouhamad Housano	Al-Qurda Mun.	10:15	
13	Morning	10:10		Tractor	Ayman Abo Daraa	Lattakia Mun.	10:15	
14	Morning	10:30	962945	Compactor	Esmaeel Shhada	Lattakia Mun.	10:35	
15	Morning	10:50	962932	Compactor	Mahmoud Ghazal	Lattakia Mun.	10:55	
16	Morning	11:00	963283	Tractor	Ali Abas	Other	11:10	Ein Alarous Mun.
17	Morning	11:10	962938	Compactor	Omar Ghazal	Lattakia Mun.	11:20	
18	Morning	11:20	963183	Tractor	Safi Taaman	Lattakia Mun.	11:25	
19	Morning	12:00		Tractor	Ahmad Hamad	Other	12:05	Baksa Mun.
20	Morning	12:10	110	Compactor	Mouhamad Kadour	Banias Mun.	12:10	
21	Morning	12:20	125	Compactor	Adel Rahal	Banias Mun.	12:35	
22	Morning	12:35	962909	Compactor	Adnan Delez	Lattakia Mun.	12:40	
23	Night	20:55	962942	Compactor	Amar Zahlout	Lattakia Mun.	21:00	
24	Night	21:00	962940	Compactor	Mouhamad Ali Salim	Lattakia Mun.	21:05	
25	Night	21:15	962952	Compactor	Farhat Hamdan	Lattakia Mun.	21:20	
26	Night	21:20	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	21:25	
27	Night	21:30	962950	Compactor	Mareei Soud	Lattakia Mun.	21:35	
28	Night	21:35	962927	Compactor	Khaled Ghazal	Lattakia Mun.	21:40	
29	Night	21:40	962941	Compactor	Mouhamad Abd Alhadi	Lattakia Mun.	21:45	
30	Night	21:50	962931	Compactor	Mouhamad Koumara	Lattakia Mun.	22:00	
31	Night	21:55	962967	Compactor	Abd Almalek Agha	Lattakia Mun.	22:10	
32	Night	21:55	962938	Compactor	Omar Ghazal	Lattakia Mun.	22:00	
33	Night	22:10	962953	Compactor	Moustafa Abo Alward	Lattakia Mun.	22:15	
34	Night	22:20	963180	Compactor	Hekmat Habib	Lattakia Mun.	22:25	
35	Night	22:20	962911	Compactor	Ali Hairek	Lattakia Mun.	22:25	
36	Night	22:20	963	Tractor	Hatem Samra	Lattakia Mun.	22:25	
37	Night	23:00	962968	Compactor	Mouhamad Darkoun	Lattakia Mun.	23:10	
38	Night	0:10	962969	Compactor	Ahmad Khouder	Lattakia Mun.	0:25	
39	Night	0:30	962938	Compactor	Omar Ghazal	Lattakia Mun.	0:35	
40	Night	0:40	962927	Compactor	Khaled Ghazal	Lattakia Mun.	0:45	
41	Night	0:40	963180	Tractor	Hekmat Habib	Lattakia Mun.	0:45	
42	Night	1:20	962950	Compactor	Mareei Soud	Lattakia Mun.	1:25	
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Total incoming vehicles this day:

42 Vehicles

The Pilot Study on Improvement of Al-Bassa Disposal Site

Page: 02

Incoming Vehicles' Analysis

Date: 13 August

Total Incoming:	42
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Shifts	
Morning	22
Night	20

True

Vehicles	
Compactor	30
Dump Truck	0
Tractor	12
Other	0

True

Municipalities	
Lattakia	31
Jableh	0
Al-Qurdaha	2
Al-Haffeh	0
Banias	2
Private Sect.	0
Other	7

True

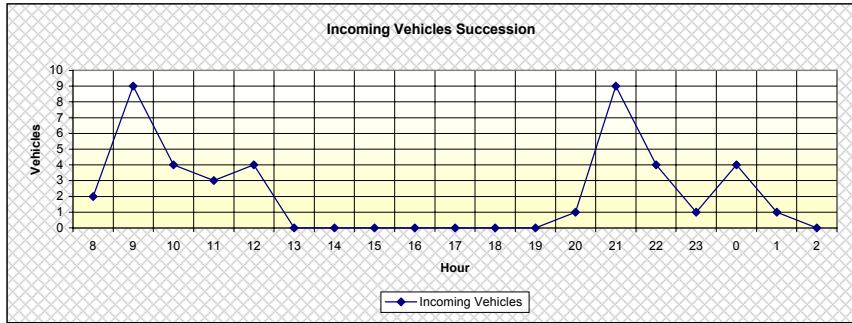
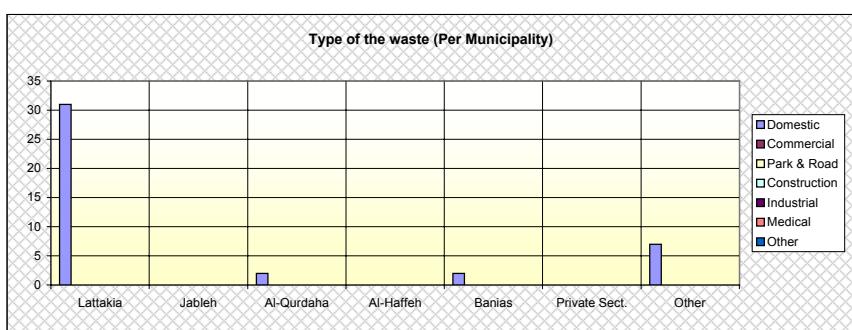
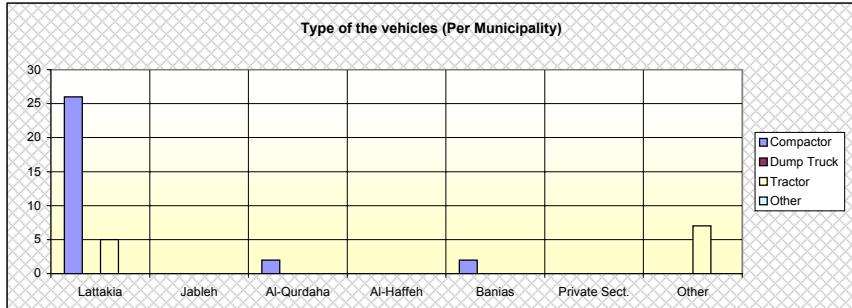
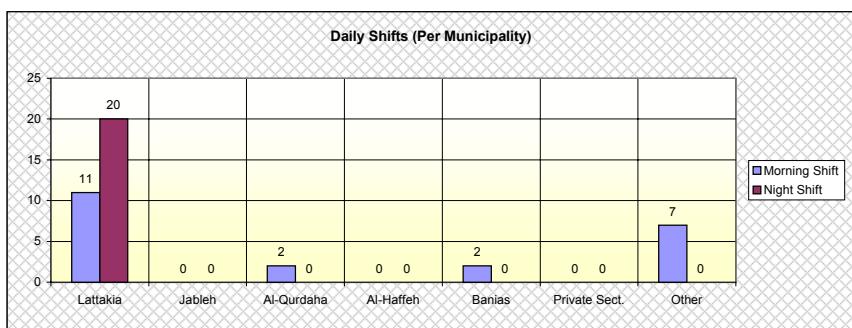
Waste Type	
Domestic	42
Commercial	0
Park & Road	0
Construction	0
Industrial	0
Medical	0
Other	0

True

Hours	
8	2
9	9
10	4
11	3
12	4
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	1
21	9
22	4
23	1
0	4
1	1
2	0

True

	Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other
Shift	Morning	11	0	2	0	2	0
	Night	20	0	0	0	0	0
Vehicle Type	Compactor	26	0	2	0	2	0
	Dump Truck	0	0	0	0	0	0
	Tractor	5	0	0	0	0	7
	Other	0	0	0	0	0	0
Waste Type	Domestic	31	0	2	0	2	0
	Commercial	0	0	0	0	0	0
	Park & Road	0	0	0	0	0	0
	Construction	0	0	0	0	0	0
	Industrial	0	0	0	0	0	0
	Medical	0	0	0	0	0	0
	Other	0	0	0	0	0	0



The Pilot Study on Improvement of Al-Bassa Disposal Site

Incoming Vehicles' Registration Sheet

Page: 01

Date: 14 August

Shift	Incoming Time	Vehicle's Reg. No.	Vehicle's Type	Driver's Name	Contractor's Name	Waste Type	Departure Time	Notes
1	Morning 8:30		Tractor	Najwan Shibani	Other	Domestic	8:35	Kersana Mun
2	Morning 8:40		Tractor	Souhil Hasoun	Other	Domestic	8:45	Henadi Mun.
3	Morning 9:00	962939	Compactor	Hysam Yaseen	Lattakia Mun.	Domestic	9:15	
4	Morning 9:10	962932	Compactor	Mounzer Hamada	Lattakia Mun.	Domestic	9:20	
5	Morning 9:20	03717	Tractor	Raji Houlwani	Other	Domestic	9:25	Jaberyoun Mun.
6	Morning 9:40	963178	Tractor	Ahmad Jahn	Lattakia Mun.	Domestic	9:45	
7	Morning 10:00	963154	Tractor	Najdat Hydar	Lattakia Mun.	Domestic	10:05	
8	Morning 10:30	962977	Compactor	Abd Alhi Habib	Lattakia Mun.	Domestic	10:35	
9	Morning 10:40	181488	Dump Truck	Samer Esa	Other	Domestic	10:45	Military
10	Morning 10:45	963005	Compactor	Mymoun Saleh	Lattakia Mun.	Domestic	10:50	
11	Morning 10:50	962940	Compactor	Mouhamad Salim	Lattakia Mun.	Domestic	10:55	
12	Morning 11:00	960058	Compactor	Ahmad Edris	Banias Mun.	Domestic	11:05	
13	Morning 11:05	379763	Dump Truck	Ahmad Mafalani	Other	Domestic	11:10	Military
14	Morning 11:05	110	Compactor	Mouhamad Kadour	Banias Mun.	Domestic	11:10	
15	Morning 11:10	962935	Compactor	Mahmoud Ghazal	Lattakia Mun.	Domestic	11:15	
16	Morning 11:25	962909	Compactor	Adnan Delez	Lattakia Mun.	Domestic	11:30	
17	Morning 11:35	04192	Tractor	Souhil Leila	Other	Domestic	11:35	Senjwan Mun.
18	Morning 11:40	829785	Dump Truck	Moustafa Agha	Other	Other	11:45	Textil Co-Insulator
19	Morning 11:45	963208	Tractor	Ayman Kadi	Other	Domestic	11:50	
20	Morning 11:45	04421	Tractor	Ahmad Alshiekh	Private Sect.	Commercial	12:10	Ajoud
21	Morning 11:50		Compactor	Medhat Nader	Al-Qurdaha Mun.	Domestic	11:55	
22	Morning 12:05	963304	Tractor	Ahamad Hamad	Other	Domestic	12:10	Baksa Mun.
23	Morning 12:15	963278	Tractor	Samer Doubieh	Other	Domestic	12:20	Al-Bassa
24	Morning 12:40	829785	Dump Truck	Moustafa Agha	Other	Other	12:50	Textil Co-Insulator
25	Morning 12:45	962936	Compactor	Hsasan Ibrahim	Lattakia Mun.	Domestic	12:50	
26	Morning 12:45	96222	Dump Truck	Ali Hiaeik	Lattakia Mun.	Domestic	12:55	
27	Morning 12:50	962939	Compactor	Hysam Yaseen	Lattakia Mun.	Domestic	12:55	
28	Morning 12:55	962969	Compactor	Mahmoud Mareei	Lattakia Mun.	Domestic	13:00	
29	Morning 13:40	963005	Compactor	Mymoun Saleh	Lattakia Mun.	Domestic	13:45	
30	Morning 13:45	928785	Dump Truck	Moustafa Agha	Other	Other	13:50	Textil Co-Insulator
31	Night 20:10	993262	Tractor	Adnan Soliman	Lattakia Mun.	Construction	20:15	
32	Night 20:30	963180	Tractor	Hekmat Habib	Lattakia Mun.	Domestic	20:35	
33	Night 20:35	962947	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	20:40	
34	Night 20:45	962911	Compactor	Ali Hiaeik	Lattakia Mun.	Domestic	20:50	
35	Night 20:50	962942	Dump Truck	Amar Zahlout	Lattakia Mun.	Domestic	20:55	
36	Night 21:00	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	21:10	
37	Night 21:05	963197	Tractor	Asef Mouhamad	Lattakia Mun.	Domestic	21:10	
38	Night 21:05	962948	Compactor	Hysam Khalil	Lattakia Mun.	Domestic	21:15	
39	Night 21:15	963267	Tractor	Hatem Samra	Lattakia Mun.	Domestic	21:20	
40	Night 21:20	962950	Compactor	Mareei Soud	Lattakia Mun.	Domestic	21:25	
41	Night 21:50	962940	Compactor	Mouhamad Salim	Lattakia Mun.	Domestic	21:55	
42	Night 22:00	962953	Compactor	Moustafa Abo Alward	Lattakia Mun.	Domestic	22:10	
43	Night 22:15	962231	Tractor	Ali Hydar	Lattakia Mun.	Domestic	22:20	
44	Night 22:45	962941	Compactor	Mouhamad Abd Alhadi	Lattakia Mun.	Domestic	22:50	
45	Night 22:50	63180	Tractor	Hekmat Habib	Lattakia Mun.	Domestic	22:55	
46	Night 23:00	962911	Compactor	Ali Hiaeik	Lattakia Mun.	Domestic	23:05	
47	Night 23:30	962948	Compactor	Hysam Khalil	Lattakia Mun.	Domestic	23:35	
48	Night 1:30	962012	Dump Truck	Fouad Hasan	Lattakia Mun.	Domestic	1:35	
49	Night 1:35	962932	Compactor	Mahmoud Ghazal	Lattakia Mun.	Domestic	1:40	
50	Night 1:35	963005	Compactor	Mymoun Saleh	Lattakia Mun.	Domestic	1:45	
51	Night 1:35	963941	Compactor	Mouhamad Saleh	Lattakia Mun.	Domestic	1:45	
52	Night 1:45	962947	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	1:50	
53								
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Total incoming vehicles this day: 52 Vehicles

The Pilot Study on Improvement of Al-Bassa Disposal Site

Page: 02

Incoming Vehicles' Analysis

Date: 14 August

Total Incoming:	52
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Shifts	Morning	Night
Morning	30	
Night	22	

True

Vehicles	Compactor	Dump Truck	Tractor	Other
Compactor	28			
Dump Truck	8			
Tractor	16			

True

Municipalities	Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other
Lattakia	36						
Jableh	0						
Al-Qurdaha	1						
Al-Haffeh	0						
Banias	2						
Private Sect.	1						
Other	12						

True

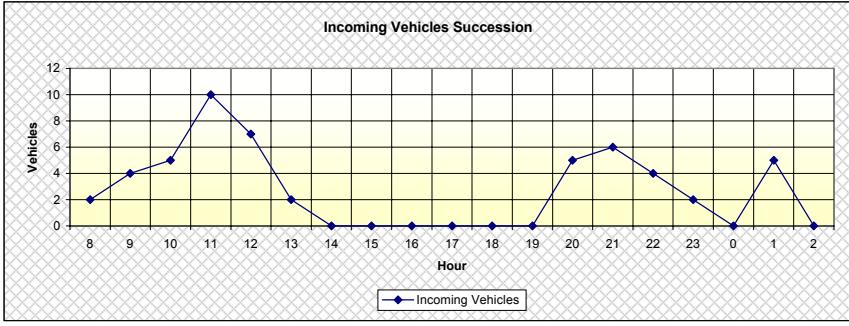
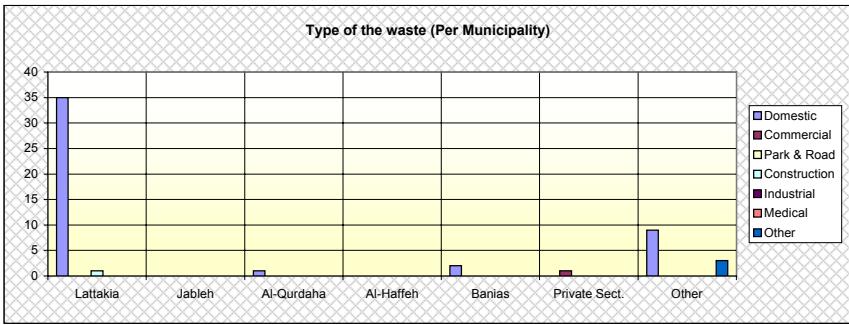
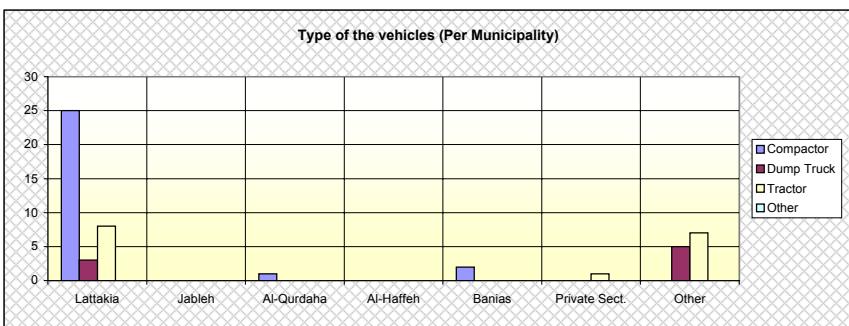
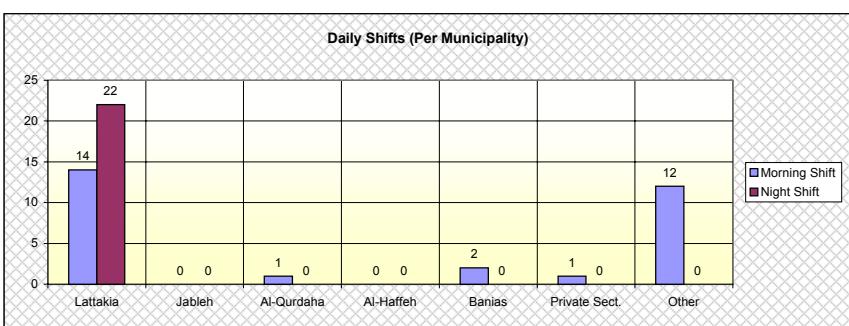
Waste Type	Domestic	Commercial	Park & Road	Construction	Industrial	Medical	Other
Domestic	47						
Commercial	1						
Park & Road	0						
Construction	1						
Industrial	0						
Medical	0						
Other	3						

True

Hours	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2
8	2																		
9		4																	
10			5																
11				10															
12					7														
13						2													
14							0												
15								0											
16									0										
17										0									
18											0								
19												0							
20												5							
21													6						
22														10					
23															5				
0																4			
1																	5		
2																		2	

True

	Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other	
Shift	Morning	14	0	1	0	2	1	12
	Night	22	0	0	0	0	0	0
Vehicle Type	Compactor	25	0	1	0	2	0	0
	Dump Truck	3	0	0	0	0	0	5
	Tractor	8	0	0	0	1	7	
	Other	0	0	0	0	0	0	
Waste Type	Domestic	35	0	1	0	2	0	9
	Commercial	0	0	0	0	1	0	
	Park & Road	0	0	0	0	0	0	
	Construction	1	0	0	0	0	0	
	Industrial	0	0	0	0	0	0	
	Medical	0	0	0	0	0	0	
	Other	0	0	0	0	0	0	



The Pilot Study on Improvement of Al-Bassa Disposal Site

Incoming Vehicles' Registration Sheet

Page: 01

Date: 15 August

Shift	Incoming Time	Vehicle's Reg. No.	Vehicle's Type	Driver's Name	Contractor's Name	Waste Type	Departure Time	Notes
1	Morning	8:40	962952	Dump Truck	Ferhat Hamdan	Lattakia Mun.	Domestic	8:45
2	Morning	8:45	58728	Tractor	Ayman Abo Daraa	Other	Domestic	8:50 Boustan Albasra
3	Morning	9:00		Tractor	Basem Derbas	Other	Domestic	9:05 Hmymer Mun.
4	Morning	9:00	963161	Tractor	Majd Nasr	Other	Domestic	9:10 Msheraf Mun.
5	Morning	9:35	963289	Tractor	Atef Balta	Lattakia Mun.	Domestic	9:40
6	Morning	9:40		Tractor	Najwan Shibani	Other	Domestic	9:50 Kersana Mun.
7	Morning	9:45		Tractor	Souhil Hasoun	Other	Domestic	9:50 Henadi Mun.
8	Morning	9:45	963947	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	9:50
9	Morning	9:55	963278	Tractor	Samer Doubieh	Other	Domestic	10:00 Al-Bassa
10	Morning	10:20		Compactor	Mouhamad Housamo	Al-Qurdaha Mun.	Domestic	10:25
11	Morning	10:25	962912	Dump Truck	Fouad Hasan	Lattakia Mun.	Domestic	10:30
12	Morning	10:30		Tractor	Souhil Hasoun	Other	Domestic	10:40 Henadi Mun.
13	Morning	10:40	963213	Tractor	Salim Jahni	Lattakia Mun.	Domestic	10:50
14	Morning	10:40	963178	Tractor	Ahmad Jahni	Lattakia Mun.	Domestic	10:50
15	Morning	10:45	963183	Tractor	Safi Taaman	Lattakia Mun.	Domestic	10:50
16	Morning	10:55	963977	Dump Truck	Abd Alhi Habib	Lattakia Mun.	Domestic	11:00
17	Morning	11:05	963159	Tractor	Sabet Sleten	Lattakia Mun.	Domestic	11:10
18	Morning	11:05	962964	Compactor	Zouhier Ahmad	Lattakia Mun.	Domestic	11:10
19	Morning	11:15	962932	Compactor	Mounzer Hamada	Lattakia Mun.	Domestic	11:30
20	Morning	11:20	04192	Tractor	Souhil Leila	Other	Domestic	11:35 Senjwan Mun.
21	Morning	11:25	962	Compactor	Ameen Shhaba	Lattakia Mun.	Domestic	11:30
22	Morning	11:30	962943	Dump Truck	Hekmat Badri	Lattakia Mun.	Domestic	11:35
23	Morning	11:35	962228	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	11:40
24	Morning	11:50	963208	Tractor	Ayman Qadi	Other	Domestic	11:55 Skoubin Mun.
25	Morning	11:50	963278	Tractor	Samer Doubieh	Lattakia Mun.	Domestic	12:00
26	Morning	12:10	962909	Compactor	Adnan Delez	Lattakia Mun.	Domestic	12:15
27	Morning	12:15	962932	Compactor	Mahmoud Ghazal	Lattakia Mun.	Domestic	12:20
28	Morning	12:20	963304	Tractor	Ahmad Hamad	Other	Domestic	12:25 Baksa Mun.
29	Night	20:15	962952	Compactor	Farhat Hamdan	Lattakia Mun.	Domestic	20:20
30	Night	20:15	963292	Tractor	Adna Soulman	Lattakia Mun.	Domestic	20:20
31	Night	20:20	962947	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	20:25
32	Night	20:25	963267	Tractor	Hatem Samra	Lattakia Mun.	Domestic	20:30
33	Night	20:30	962942	Compactor	Amar Zahlout	Lattakia Mun.	Domestic	20:35
34	Night	20:40	962911	Compactor	Ali Haeik	Lattakia Mun.	Domestic	20:50
35	Night	21:05	962948	Compactor	Hysam Khalil	Lattakia Mun.	Domestic	21:05
36	Night	21:15	963180	Tractor	Hekmat Habib	Lattakia Mun.	Domestic	21:20
37	Night	21:20	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	21:25
38	Night	21:20	962968	Compactor	Mouhamad Darkoun	Lattakia Mun.	Domestic	21:25
39	Night	21:50	962953	Compactor	Moustafa Abo Alwaird	Lattakia Mun.	Domestic	21:55
40	Night	22:15	962940	Compactor	Mouhamad Salim	Lattakia Mun.	Domestic	22:20
41	Night	22:25	962931	Compactor	Mouhamad Koumara	Lattakia Mun.	Domestic	22:20
42	Night	22:20	963267	Tractor	Hatem Samra	Lattakia Mun.	Domestic	22:25
43	Night	22:30	963179	Tractor	Asef Mouhamad	Lattakia Mun.	Domestic	22:35
44	Night	23:00	963180	Tractor	Hekmat Habib	Lattakia Mun.	Domestic	23:05
45	Night	23:25	962938	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	23:40
46	Night	23:35	962941	Compactor	Mouhamad Abd Alhadi	Lattakia Mun.	Domestic	23:40
47	Night	23:35	962969	Compactor	Wafik Balta	Lattakia Mun.	Domestic	23:40
48	Night	23:55	962948	Compactor	Hysam Khalil	Lattakia Mun.	Domestic	0:00
49	Night	0:10	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	0:15
50	Night	0:10	963267	Tractor	Hatem Samra	Lattakia Mun.	Domestic	0:20
51	Night	0:25	963005	Compactor	Mymoun Saleh	Lattakia Mun.	Domestic	0:30
52	Night	0:25	962968	Compactor	Mouhamad Darkoun	Lattakia Mun.	Domestic	0:30
53	Night	1:00	962944	Compactor	Moustafa Alhousien	Lattakia Mun.	Domestic	1:05
54	Night	1:00	962931	Compactor	Mouhamad Koumara	Lattakia Mun.	Domestic	1:10
55	Night	1:35	962911	Compactor	Ali Haeik	Lattakia Mun.	Domestic	1:40
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Total incoming vehicles this day: 55 Vehicles

The Pilot Study on Improvement of Al-Bassa Disposal Site

Page: 02

Incoming Vehicles' Analysis

Date: 15 August

Total Incoming:	55
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Shifts	
Morning	28
Night	27

True

Vehicles	
Compactor	28
Dump Truck	4
Tractor	23
Other	0

True

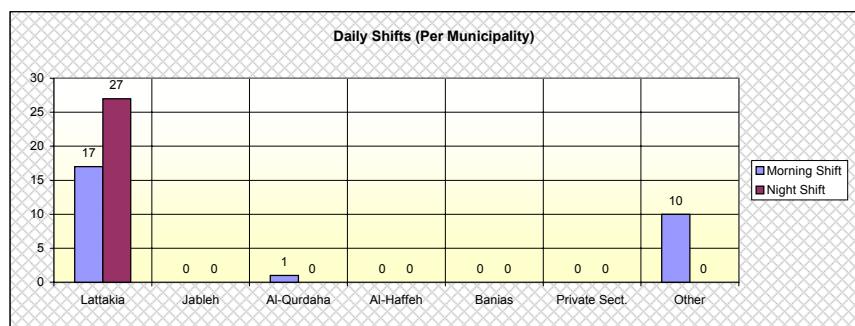
Municipalities	
Lattakia	44
Jableh	0
Al-Qurdaha	1
Al-Haffeh	0
Banias	0
Private Sect.	0
Other	10

True

Waste Type	
Domestic	55
Commercial	0
Park & Road	0
Construction	0
Industrial	0
Medical	0
Other	0

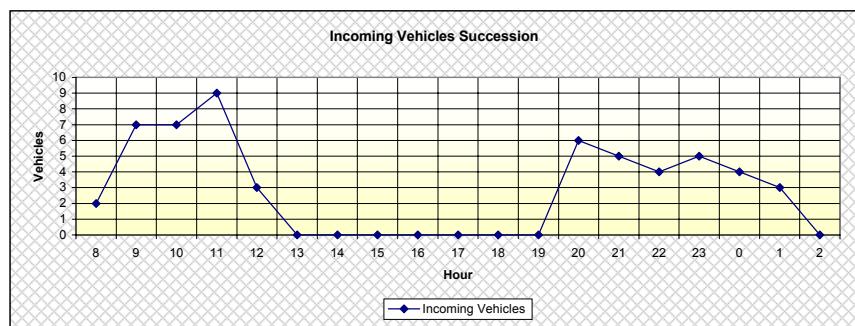
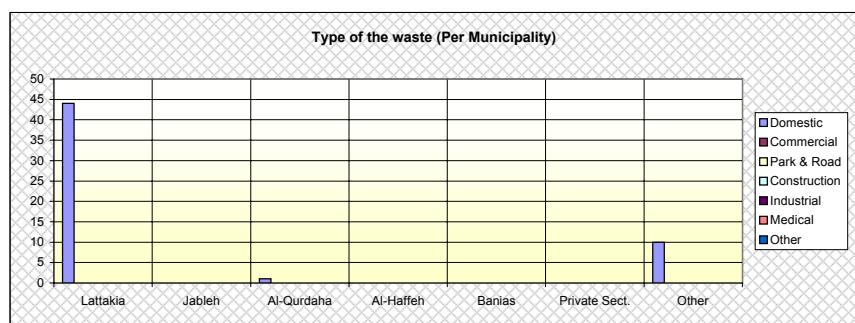
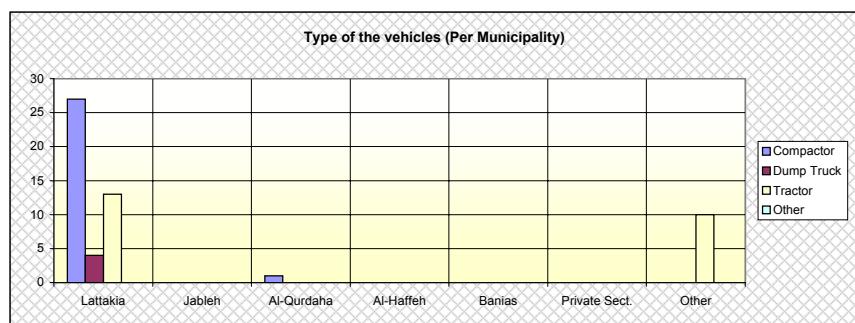
True

	Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other
Shift	Morning	17	0	1	0	0	10
	Night	27	0	0	0	0	0
Vehicle Type	Compactor	27	0	1	0	0	0
	Dump Truck	4	0	0	0	0	0
	Tractor	13	0	0	0	0	10
	Other	0	0	0	0	0	0
Waste Type	Domestic	44	0	1	0	0	10
	Commercial	0	0	0	0	0	0
	Park & Road	0	0	0	0	0	0
	Construction	0	0	0	0	0	0
	Industrial	0	0	0	0	0	0
	Medical	0	0	0	0	0	0
	Other	0	0	0	0	0	0



Hours	
8	2
9	7
10	7
11	9
12	3
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	6
21	5
22	4
23	5
0	4
1	3
2	0

True



The Pilot Study on Improvement of Al-Bassa Disposal Site

Page: 01

Incoming Vehicles' Registration Sheet

Date: 16 August

Shift	Incoming Time	Vehicle's Reg. No.	Vehicle's Type	Driver's Name	Contractor's Name	Waste Type	Departure Time	Notes
1	Morning	8:10	962937	Compactor	Mouhamad Jarad	Lattakia Mun.	Domestic	8:15
2	Morning	8:20	963005	Compactor	Mymoun Saleh	Lattakia Mun.	Domestic	8:25
3	Morning	8:45	04421	Compactor	Ahmad Alsheikh	Private Sect.	Commercial	9:55
4	Morning	10:00	962935	Compactor	Mahmoud Ghazal	Lattakia Mun.	Domestic	10:10
5	Morning	10:00	962977	Compactor	Abd Alhi Habib	Lattakia Mun.	Domestic	10:10
6	Morning	10:05	963278	Tractor	Samer Dobieh	Other	Domestic	10:10
7	Morning	10:05	963	Tractor	Atef Balta	Lattakia Mun.	Domestic	10:10
8	Morning	10:20	962949	Compactor	Ameen Shhada	Lattakia Mun.	Domestic	10:30
9	Morning	10:25	963178	Tractor	Ahmad Jahni	Lattakia Mun.	Domestic	10:30
10	Morning	10:25	125	Compactor	Souliman Shaar	Banias Mun.	Domestic	10:30
11	Morning	10:35	960058	Compactor	Ahmad Edris	Banias Mun.	Domestic	10:40
12	Morning	10:40		Tractor	Najwan Shibani	Other	Domestic	10:45
13	Morning	10:40		Tractor	Souhil Hasoun	Other	Domestic	10:45
14	Morning	10:40	963213	Tractor	Salim Jahn	Lattakia Mun.	Domestic	10:45
15	Morning	10:50	962949	Compactor	Wafik Balta	Lattakia Mun.	Domestic	11:00
16	Morning	10:50	962945	Compactor	Esmaeal Shhada	Lattakia Mun.	Domestic	11:00
17	Morning	11:00	962950	Compactor	Mareei Soud	Lattakia Mun.	Domestic	11:10
18	Morning	11:00	962937	Compactor	Mouhamad Jarad	Lattakia Mun.	Domestic	11:05
19	Morning	11:00	962	Dump Truck	Fouad Hasan	Lattakia Mun.	Domestic	11:10
20	Morning	11:15	962939	Compactor	Hysam Yaseen	Lattakia Mun.	Domestic	11:20
21	Morning	11:15	04421	Compactor	Ahmad Alsheikh	Private Sect.	Domestic	11:30
22	Morning	11:15	962952	Compactor	Farhat Hamdan	Lattakia Mun.	Domestic	11:25
23	Morning	11:15	963304	Tractor	Ahmad Hamad	Other	Domestic	11:25
24	Morning	11:25	962	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	11:30
25	Morning	11:35	962941	Compactor	Mouhamad Abd Alhadi	Lattakia Mun.	Domestic	11:40
26	Morning	11:40	904192	Tractor	Souhil Leila	Other	Domestic	11:45
27	Morning	12:05	963005	Compactor	Mymoun Saleh	Lattakia Mun.	Domestic	12:10
28	Morning	12:15	962203	Dump Truck	Ali Hiaeck	Lattakia Mun.	Domestic	12:20
29	Morning	12:40	963208	Tractor	Ayman Qadi	Other	Domestic	12:45
30	Morning	12:45	963183	Tractor	Safi Taaman	Lattakia Mun.	Domestic	13:00
31	Night	20:30	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	20:35
32	Night	20:30	962947	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	20:40
33	Night	20:35	962911	Compactor	Ali Hiaeck	Lattakia Mun.	Domestic	20:40
34	Night	20:40	963180	Tractor	Hekmat Habib	Lattakia Mun.	Domestic	20:45
35	Night	20:45	963267	Tractor	Hatem Samra	Lattakia Mun.	Domestic	20:50
36	Night	20:50	962948	Compactor	Hysam Khalil	Lattakia Mun.	Domestic	20:55
37	Night	21:25	962968	Compactor	Mouhamad Darkoun	Lattakia Mun.	Domestic	21:30
38	Night	21:30	962950	Compactor	Mareei Soud	Lattakia Mun.	Domestic	21:35
39	Night	21:35	962940	Compactor	Mouhamad Ali Salim	Lattakia Mun.	Domestic	21:40
40	Night	22:00	962128	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	22:05
41	Night	22:15	962938	Compactor	Mouhamad Abd Alhadi	Lattakia Mun.	Domestic	22:25
42	Night	22:20	962931	Compactor	Mohamed Koumara	Lattakia Mun.	Domestic	22:25
43	Night	22:20	962944	Compactor	Moustafa Housien	Lattakia Mun.	Domestic	22:30
44	Night	22:30	962936	Compactor	Hasan Ebrahim	Lattakia Mun.	Domestic	22:40
45	Night	22:55	962911	Compactor	Ali Hiaeck	Lattakia Mun.	Domestic	23:00
46	Night	23:25	962947	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	23:30
47	Night	23:25	962938	Compactor	Mouhamad Abd Alhadi	Lattakia Mun.	Domestic	23:35
48	Night	23:30	963267	Tractor	Hatem Samra	Lattakia Mun.	Domestic	23:35
49	Night	23:30	962950	Compactor	Mareei Soud	Lattakia Mun.	Domestic	23:35
50	Night	23:35	962948	Compactor	Hysam Khalil	Lattakia Mun.	Domestic	23:40
51	Night	23:35	962968	Compactor	Mouhamad Darkoun	Lattakia Mun.	Domestic	23:50
52	Night	0:10	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	0:20
53	Night	0:35	963005	Compactor	Mymoun Saleh	Lattakia Mun.	Domestic	0:50
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Total incoming vehicles this day: 53 Vehicles

The Pilot Study on Improvement of Al-Bassa Disposal Site

Page: 02

Incoming Vehicles' Analysis

Date: 16 August

Total Incoming:	53
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Shifts	
Morning	30
Night	23

True

Vehicles	
Compactor	38
Dump Truck	2
Tractor	13
Other	0

True

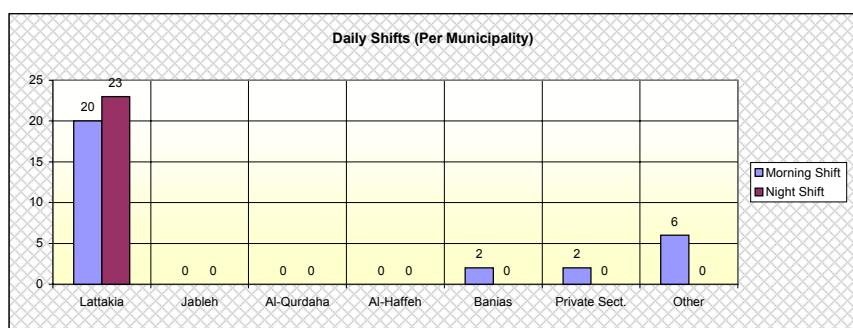
Municipalities	
Lattakia	43
Jableh	0
Al-Qurdaha	0
Al-Haffeh	0
Banias	2
Private Sect.	2
Other	6

True

Waste Type	
Domestic	52
Commercial	1
Park & Road	0
Construction	0
Industrial	0
Medical	0
Other	0

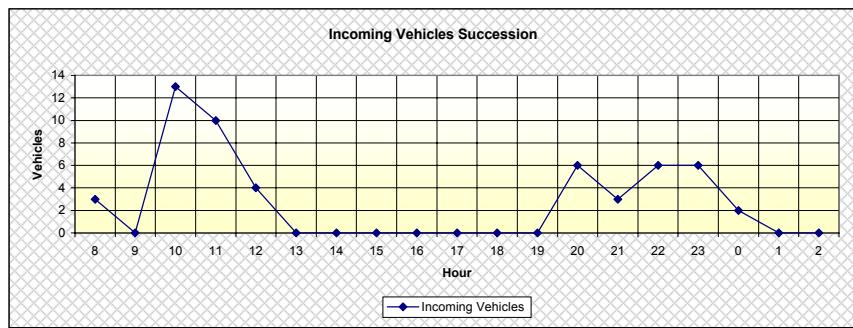
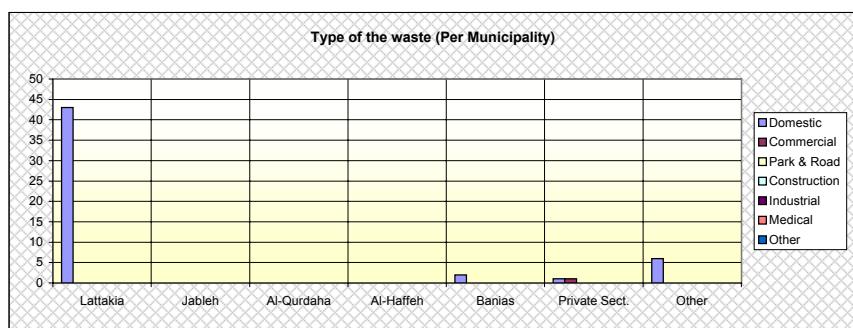
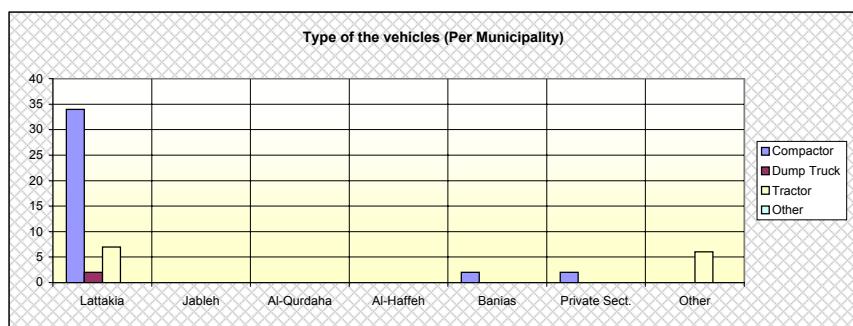
True

	Lattakia	Jableh	Al-Qurdaha	Al-Haffeh	Banias	Private Sect.	Other
Shift	Morning	20	0	0	2	2	6
	Night	23	0	0	0	0	0
Vehicle Type	Compactor	34	0	0	2	2	0
	Dump Truck	2	0	0	0	0	0
	Tractor	7	0	0	0	0	6
	Other	0	0	0	0	0	0
Waste Type	Domestic	43	0	0	2	1	6
	Commercial	0	0	0	0	1	0
	Park & Road	0	0	0	0	0	0
	Construction	0	0	0	0	0	0
	Industrial	0	0	0	0	0	0
	Medical	0	0	0	0	0	0
	Other	0	0	0	0	0	0



Hours	
8	3
9	0
10	13
11	10
12	4
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	6
21	3
22	6
23	6
0	2
1	0
2	0

True



The Pilot Study on Improvement of Al-Bassa Disposal Site

Incoming Vehicles' Registration Sheet

Page: 01

Date: 17 August

Shift	Incoming Time	Vehicle's Reg. No.	Vehicle's Type	Driver's Name	Contractor's Name	Waste Type	Departure Time	Notes
1	Morning 9:00	963289	Tractor	Atef Balta	Lattakia Mun.	Domestic	9:05	
2	Morning 9:00	962947	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	9:10	
3	Morning 9:15	58728	Tractor	Ayman Abo Daraa	Lattakia Mun.	Domestic	9:20	
4	Morning 9:15	960058	Compactor	Adel Rahal	Banias Mun.	Domestic	9:20	
5	Morning 9:25		Tractor	Basem Derbas	Lattakia Mun.	Domestic	9:30	
6	Morning 9:30	962942	Dump Truck	Hekmat Badri	Other	Domestic	9:35	Hmymem Mun.
7	Morning 9:30	962911	Compactor	Ali Hiaeck	Lattakia Mun.	Domestic	9:35	
8	Morning 9:30	963154	Tractor	Najdat Hydar	Lattakia Mun.	Domestic	9:35	
9	Morning 9:35	962194	Other	Yousef Abdo	Other	Domestic	9:40	Tame
10	Morning 9:45	962932	Compactor	Mahmoud Ghazal	Lattakia Mun.	Domestic	9:50	
11	Morning 9:45	963159	Tractor	Sabet Sleten	Lattakia Mun.	Domestic	9:50	
12	Morning 9:50	963283	Tractor	Ali Abas	Other	Domestic	9:55	Ei Alarous Mun.
13	Morning 9:50	19365	Tractor	Adnan Nasra	Other	Road & Park	9:55	Military
14	Morning 9:50	963942	Dump Truck	Hekmat Badri	Lattakia Mun.	Domestic	10:10	
15	Morning 9:55	963278	Tractor	Samer Doubieh	Other	Domestic	10:00	Al-Bassa
16	Morning 9:55		Tractor	Housam Aldeen	Other	Domestic	10:00	Kanjara Mun.
17	Morning 10:00	962977	Dump Truck	Abd Alhi	Lattakia Mun.	Domestic	10:05	
18	Morning 10:10		Compactor	Mouhamad Housano	Al-Qurdahe Mun.	Domestic	10:15	
19	Morning 10:10		Compactor	Usama Watfa	Al-Qurdahe Mun.	Domestic	10:15	
20	Morning 10:15	167500	Dump Truck	Nezar Alshab	Lattakia Mun.	Domestic	10:20	
21	Morning 10:15		Tractor	Najwan Shibani	Other	Domestic	10:20	Kersana Mun.
22	Morning 10:15	963952	Dump Truck	Ferhat Hamdan	Lattakia Mun.	Domestic	10:30	Bedouin
23	Morning 10:20	963213	Tractor	Salim Jahni	Lattakia Mun.	Domestic	10:25	
24	Morning 10:20	963178	Tractor	Ahmad Jahni	Lattakia Mun.	Domestic	10:25	
25	Morning 10:30	962945	Dump Truck	Esmaeel Shhada	Lattakia Mun.	Domestic	10:35	
26	Morning 10:40		Tractor	Souhil Hasoun	Other	Domestic	10:45	Henadi Mun.
27	Morning 10:30	962939	Compactor	Hysam Yaseen	Lattakia Mun.	Domestic	10:40	
28	Morning 10:35	962938	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	10:40	
29	Morning 10:45	963138	Tractor	Safi Taaman	Lattakia Mun.	Domestic	11:00	
30	Morning 11:05	962945	Dump Truck	Esmaeel Shhada	Lattakia Mun.	Domestic	11:10	
31	Morning 11:25	963195	Tractor	Sabet Sleten	Al-Qurdahe Mun.	Domestic	11:35	
32	Morning 11:25	110	Compactor	Mouhamad Kadour	Banias Mun.	Domestic	11:45	Bedouin
33	Morning 12:15	963293	Tractor	Ahmad Bal	Lattakia Mun.	Domestic	12:30	
34	Morning 12:35	962940	Compactor	Mouhamad Salim	Lattakia Mun.	Domestic	12:40	
35	Night 21:10	963232	Tractor	Samer Kertali	Lattakia Mun.	Domestic	21:20	
36	Night 21:20	962950	Compactor	Mareei Soud	Lattakia Mun.	Domestic	21:25	
37	Night 21:25	962968	Compactor	Mouhamad Darkoun	Lattakia Mun.	Domestic	21:30	
38	Night 21:30	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	21:35	
39	Night 22:00	962231	Tractor	Ali Hydar	Lattakia Mun.	Domestic	22:05	
40	Night 22:05	962938	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	22:10	
41	Night 22:15	962931	Compactor	Mouhamad Koumara	Lattakia Mun.	Domestic	22:20	
42	Night 22:05	962953	Compactor	Moustafa Abu Alward	Lattakia Mun.	Domestic	22:10	
43	Night 22:30	962267	Tractor	Asef Mouhamad	Lattakia Mun.	Domestic	22:35	
44	Night 22:50	962969	Compactor	Mahmoud Maeeri	Lattakia Mun.	Domestic	22:55	
45	Night 22:55	963947	Compactor	Khaled Ghazal	Lattakia Mun.	Domestic	23:00	
46	Night 23:05	963948	Compactor	Hysam Khalil	Lattakia Mun.	Domestic	23:15	
47	Night 23:20	962938	Compactor	Omar Ghazal	Lattakia Mun.	Domestic	23:35	
48	Night 23:45	962936	Compactor	Hasan Ebrahim	Lattakia Mun.	Domestic	23:55	
49	Night 0:00	962968	Compactor	Mouhamad Darkoun	Lattakia Mun.	Domestic	0:10	
50	Night 0:00	962950	Compactor	Mareei Soud	Lattakia Mun.	Domestic	0:15	
51	Night 1:00	962970	Compactor	Usman Tarabelsi	Lattakia Mun.	Domestic	1:10	
52	Night 1:00	962931	Compactor	Mouhamad Koumara	Lattakia Mun.	Domestic	1:15	
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Total incoming vehicles this day:

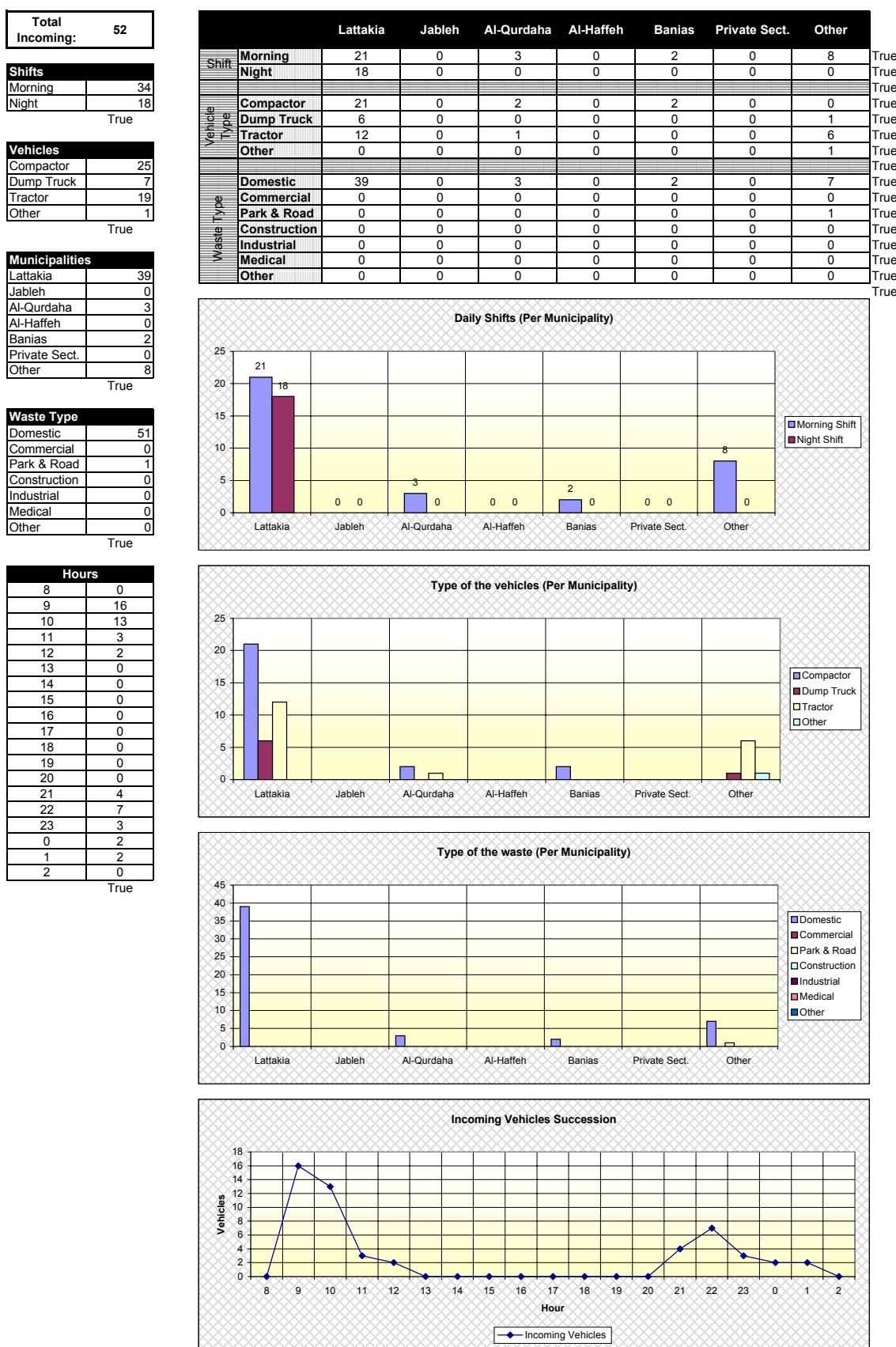
52 Vehicles

The Pilot Study on Improvement of Al-Bassa Disposal Site

Page: 02

Incoming Vehicles' Analysis

Date: 17 August



APPENDIX

SURVEY RESULTS AND QUESTIONNAIRE

APPENDIX 1
PUBLIC AWARENESS SURVEY

APPENDIX 1 PUBLIC AWARENESS SURVEY

Public Awareness Survey Questionnaire

Questionnaire: House hold Survey

The Ministry of Local Administration, the Ministry of Environment, the Lattakia City Council and the Japan International Cooperation Agency (JICA) together conduct The Study on Solid Waste Management at Local Cities in the Syrian Arab Republic.

The purpose of this questionnaire is to understand the present practices, concerns and awareness about solid waste storage and public health by the household of each city of Lattakia, Jableh, Al Haffeh and Al Qurdaha.

Questionnaire number:

1. Interviewer

Name of Interviewer :	Date(D/M/Y): , , 2001
City :	Area :

2. General Question on Household

2.1 Sex and Age of Interviewee

(a) Male ()	M
(b) Female ()	F
(c) Age (Years Old)	

2.2 Status of Interviewee

(a) Housewife ()	W
(b) Householder ()	H
(c) Other family member () (specify:)	M
(d) Housekeeper ()	K
(e) Others() (specify:)	O

2.3 Main Occupation of Interviewee (or the Householder)

(a) Primary Industry (Agriculture) ()	A
(b) Secondary Industry (Manufacturing) ()	M
(c) Tertiary Industry (Service) ()	S
(d) Pensioner(retired) ()	R
(e) Unemployed ()	U
(f) Others() (specify:)	O

2.4 Number of Household Members (including Householder) by Age Group

	Age group	Male	Female	Relation to householder
(a)	0 – 6			
(b)	7 – 25			
(c)	26 – 60			
(d)	Above 60			

2.5 Description of the House

2.5.1	Type of contract for dwelling? <i>(Single)</i>	(a) Owned ()	O
		(b) Rented ()	R
		(c) Company dormitory ()	C
2.5.2	Number of rooms in the house	()	
2.5.3	Do you have these services? <i>(Multiple)</i>	(a) Electricity (Y / N)	Y/N
		(b) Water supply (Y / N)	Y/N
		(c) Gas bottle (Y / N)	Y/N

2.6 Dwelling Years at this Place

(a) Less than 5 years()	A
(b) 5 - 9 years ()	B
(c) 10 - 19 years ()	C
(d) 20 years or more ()	D
(e) I don't know ()	E
(f) Others () (specify:)	F

2.7 Main Income

(a) from Householder ()	H
(b) from Housewife ()	F
(c) from Other family member () (specify:)	O

2.8 Total Income of Interviewees' Household/Month

(a) 0.00 - 2,000 SP ()	A
(b) 2001 - 4,000 SP ()	B
(c) 4001 - 10,000 SP ()	C
(d) 10,001 - 18,000 SP ()	D
(e) More than 18,000	E
(f) No answer	F

2.9 Total Expenditure of Interviewees' Household/Month

(a) 0.00 - 2,000 SP ()	A
(b) 2,001 - 4,000 SP ()	B
(c) 4,001 - 10,000 SP ()	C
(d) 10,001 - 18,000 SP ()	D
(e) More than 18,000	E
(f) No answer	F

3. Question on Solid Waste

3.1 Waste Storage

3.1.1	Do you have waste dust bin(s) in the house?	(a) Yes () (a.1) If Yes, indicate total number of the container(s)() (b) No ()	Y N
3.1.2	Does the waste dust bin(s) have cover(s)?	(a) Yes () (b) No ()	Y N
3.1.3	Where is put the main container in your house? (<i>Single</i>)	(a) In front of the premises () (b) Behind the premises () (c) Kitchen () (d) Bathroom () (e) Garden () (f) Other (specify:) (g) I don't know ()	F B K Ba G O N
3.1.4	Do you have any problem with waste stored in the house? (<i>b, Multiple</i>)	(a) Yes () If Yes, then describe the problems: (a.1) Bad odor () (a.2) Insects and pests are attracted () (a.3) Takes up too much space () (a.4) Others (specify:) (b) No ()	Y BO IP S O N
3.1.5	Do you separate your waste before discharge in accordance with materials?	(a) If Yes (), answer the following questions (a.1) Separate by the following materials (<i>Multiple</i>) i. Plastic () ii. Paper () iii. Glass () iv. Card board () v. Plants () vi. Food wastes () vii. Others (specify,) (a.2) How to dispose of separated items (<i>Single</i>) i. Put at the collection points () ii. Sell to people who collect from house () iii. Take to special points for selling () iv. Give away to friends, etc. () (b) No () (c) I don't know ()	Y Y PL PA GL CB PN FW O CP SP PS GW N DN
3.1.6	Do you treat your waste by yourself (not by a public service) (<i>Single</i>)	(a) Yes (), by (a.1) Burning () (a.2) Burying () (a.3) Composting () (a.4) Others (specify,) (b) No ()	Y BU BY CO O N
3.1.7	Do you feel fluctuation of generation amount of your waste depending on the season?	(a) Yes () then answer the follows (a.1) the amount increases in summer season () (a.2) the amount increases in winter season () (a.3) Others (specify,) (b) No () (c) I do not know ()	Y IS IW O N DN

3.2 Discharge Practice of Waste

3.2.1	Who usually discharge waste from your house? <i>(Single)</i>	(a) Husband () (b) Housewife () (c) Senior (elderly) member () (d) Children () (e) Housekeeper (Servant) () (f) Collection worker () (g) Irregular () (h) Others (specify:) (i) I don't know ()	H W E C K CW I O DN
3.2.2	Where do you discharge your waste from your house for collection?	(a) In front of your house () (b) Around your premises () (c) Collection point with a communal container () (d) Collection point without a communal container () (e) Others (specify:) (f) I don't know ()	HO AP CC CP O DN
3.2.3	What types of container do you use for carrying waste to discharge point in the question above?	(a) Plastic bag () (b) Plastic bucket () (c) Metal bucket () (d) Others (specify:)	PG PB MB O
3.2.4	Why do you use it for carrying waste?	(a) It is clean after collection work. () (b) It prevents foul odor () (c) It is manageable () (d) Keeps away pest such as flies (e) Others (specify:)	CC PO M KP O
3.2.5	How frequent is waste discharged out of the house? <i>(Single)</i>	(a) Twice every day () (b) Once every day () (c) Once every two days () (d) Once every three days () (e) Once a week () (f) Irregularly () (g) I don't know ()	TD OD OT OH OW I DN
3.2.6	Do you discharge a waste at a fixed time?	(a) Yes () (b) No () (c) I don't know ()	Y N DN
3.2.7	If "yes" for the above question, what time do you usually discharge your waste? <i>(Single)</i>	(a) 06:01 – 08:00 () (b) 08:01 – 09:00 () (c) 09:01 – 10:00 () (d) 10:01 – 11:00 () (e) 11:00 – 12:00 () (f) 12:01 – 14:00 () (g) 14:01 – 16:00 () (h) 16:01 – 18:00 () (i) 18:00 – 20:00 () (k) 20:00 – 06:00 ()	A B C D E F G H I K
3.2.8	Do you have ever discharged waste soon after a finishing of a collection practice by a city service?	(a) Yes () (b) No () (c) I don't know ()	Y N DN

3.2.9	Do you have ever seen human scavengers and animals at waste discharge/collection point?	(a) Yes () (b) No () (c) I don't know ()	Y N DN
3.2.10	Dose anyone in your family sweep the road shoulder or adjacent public area in front of your house?	(a) Yes , every day () (b) Yes, some day () (c) No () (d) I don't know ()	YE YS N DN

3.3 Waste Collection Service

3.3.1	Is there a collection service in your area?	(a) Yes () If "Yes". Please answer the following No.3.3.2- 3.3.10 (b) No () (c) I don't know ()	Y N DN
3.3.2	Where is the collection point nearest to your house?	(a) Distance from your house: () meters (b) If there are containers at the point, how many? ()	
3.3.3	Are there any problems at the collection point?	(a) Foul Odor () (b) Insects, rodents and other pests are generated () (c) Animals like dogs are attracted to the point () (d) Scavengers scatter the waste at the point () (e) Spontaneous burning the waste () (g) Others (specify:)	FO IP AA SW SB O
3.3.4	Do you know who is the person responsible for cleaning the collection point?	(a) Yes () (specify:) (b) No ()	Y N
3.3.5	Are there any problems at the collection point?	(a) Foul Odor () (b) Insects, rodents and other pests are generated () (c) Animals like dogs are attracted to the point () (d) Scavengers scatter the waste at the point () (e) Spontaneous burning the waste () (g) Others (specify:)	Y N DV DW RP O
3.3.5	Do you know that how the waste are collected by the service?	(a) Yes () (b) No ()	Y N
3.3.6	If "Yes" for above question, how are wastes collected?	(a) Door to Door collection by collection vehicles () (b) Door to Door collection by collection workers () (c) Residents themselves carry waste to the point () (d) Others (specify:)	DV DW RP O
3.3.7	Do you know the frequency of the collection? (<i>Single</i>)	(a) Collected every day () (b) Collected every two days () (c) Collected every three days () (d) Collected once a week () (e) Irregular collection () (f) Others (specify:) (g) I don't know: ()	ED TD TH EW NR O DN

3.3.8	Dose the collection service conducted at a fixed time in the day?	(a) Yes () (b) No () (c) I don't know ()	Y N DN
3.3.9	If "yes" for above question, what time is your waste normally collected? <i>(Single)</i>	(a) 06:01 – 08:00 () (b) 08:01 – 09:00 () (c) 09:01 – 10:00 () (d) 10:01 – 11:00 () (e) 11:00 – 12:00 () (f) 12:01 – 14:00 () (g) 14:01 – 16:00 () (h) 16:01 – 18:00 () (i) 18:00 – 20:00 () (k) 20:00 – 06:00 ()	A B C D E F G H I K

3.4 Payment of the Collection Service

3.4.1	Do you pay collection service charge?	(a) Yes () (b) No ()	Y N
3.4.2	If "Yes" for above question, how much do you pay per month?	(SP)	
3.4.3	If "Yes" for above question, to whom do you pay?	(a) Municipality () (b) Private collection company () (c) Collection worker () (d) Your Community () (to whom?) (e) Others (specify:)	M PC CW YC O
3.4.4	How do you think this amount of the charge?	(a) High () (b) Reasonable () (c) Low () (d) I don't like to pay () (e) I don't know () (f) Others (specify:)	H R L DL DN O

3.5 Regulations concerning the collection service offered

		i) By leaflet () ii) By public meeting () iii) Informed by collection worker ()	LE PM CW
		iv) Others (specify:)	O
		(b) No ()	N
		(c) I do not know ()	DN
3.5.3	In your area, are there “Clean Day” in which people are requested to participate on the “Public Cleansing” basis?	(a) Yes () (b) No () (c) I don’t know ()	Y N DN
3.5.4	If “Yes”, did you participate in such “Public Cleansing” in your area?	(a) Yes () specify () (b) No () (c) I don’t know ()	Y N DN

3.6 Degree of satisfaction with the solid waste collection service

3.6.1	Are you satisfied with the collection service?	(a) Yes () (b) No () (c) I don’t know ()	Y N DN
3.6.2	If “No” for above question, what are the reasons?	(a) Frequency of collection is not enough. () (b) Collection time is irregular. () (c) Collection time is very early or late. () (d) Behavior of the collection worker is bad. () (e) Collection worker is crude. () (f) Waste are burned inside the container () (g) Containers are not properly emptied () (h) Containers are in poor condition () (i) Waste are scattered around the container () (j) Additional money must be paid to collection workers for waste removal () (k) Others (specify:)	FQ CT TE WC WB NP CC WS AM O

3.7 Willingness to Cooperate for the Solid Waste Management

3.7.1	In case that the municipality promotes a “cleaning campaign” or others, do you think the willingness to participate in such an activity?	(a) Yes, no problem () (b) No () (c) I don’t know ()	Y N DN
3.7.2	Do you think the willingness to pay more for the service that is more efficient throughout the city? <i>(Multiple)</i>	(a) Yes (), (a.1) If Yes, then how much additional charge are you willing to pay? () /month/household (b) No () If No, then what are the reasons? (b.1) Cannot afford to pay more () (b.2) Present charge is already too high () (b.3) Cannot trust collection service providers () (b.4) Others, (specify)	Y N CO PH CT O
3.7.3	To promote waste recycling and to produce compost from waste, do you contribute to separate waste at your house?	(a) Yes (), If Yes, then answer the following (a.1) Incentive required for the separation. [Yes () / No ()]	Y Y/N

	(a.2) Willingness to separate organic waste from others [Yes () / No ()]	Y/N	
	(b.3) Willingness to separate two or three items, such as plastic, glass and paper [Yes () / No ()] (b.4) Willingness to store separated items in the house for () days (b) No ()	Y/N N	
3.7.4	In order to separate and discharge the waste in packed bags, do you purchase plastic bags (<i>Multiple</i>)	(a) Yes () (b) No (), If No, then please explain the reasons (b.1) Such bags are too expensive () (b.2) Poor quality bags not good for storing waste () (b.3) Others (specify;)	Y N BE PQ O
3.7.5	To improve the waste collection service in the city as a whole, do you willingness to accept to decrease collection frequency to less than daily throughout the year? (this means waste should be stored within house for more than one day) (<i>Single</i>)	(a) Yes (), If Yes, then acceptable frequency would be: (a.1) Three days a week () (a.2) Two days a week () (a.3) One day a week () (b) No () (c) I do not know ()	Y TH TW ON N DN

3.8 Illegal Dumping Sites

3.8. 1	Are there illegal dumping sites near your house? (<i>Multiple</i>)	(a) Yes (), If Yes, then answer the following questions: (a.1) There are no problems () (a.2) There is bad odor () (a.3) Source of insects and other pests () (a.4) Truck traffic problem () (a.5) Scavenger problem () (a.6) Spontaneous fires () (a.7) Pollution to nearby water bodies () (a.8) Other, (specify:) (b) No ()	Y NB BO IP TP SP SF PW O N
3.8.2	Have you ever taken any action, or participated in any to close down any illegal dump sites? (<i>Multiple</i>)	(a) Yes (), If Yes, then describe the action (a.1) Municipal officials contacted () (a.2) Mass media contacted () (a.3) Elected representatives contacted () (a.4) Donated money or equipment to clean up effort () (a.5) Actually participated in cleaning up () (a.6) Others (specify;) (b) No ()	Y MO MM ER DM PP O N

4. Woman's Role

4.1 Community Activities

4.1.1	Can the woman (housewife) participate in the community activities?	(a) Yes, ()	Y
		(b) Yes, but limited to some activities ()	YP
		(c) Not at all ()	N
4.1.2	If there is cleaning campaign conducted by the municipality or others, can the woman (housewife) participate in such an activity?	(a) Yes, no problem ()	Y
		(b) Yes, but together with husband ()	YP
		(c) No ()	N
		(d) I don't know ()	DN

4.2 Roles in Household

4.2.1	What kind of roles in the public health dose housewife has in your house?	(a) Daily education to the child ()	DE
		(b) Consideration of drinking and cooking water ()	DW
		(c) Clean up sanitation facility ()	CS
		(d) Clean up kitchen ()	CK
		(e) Take care of family health ()	FC
		(f) Others (specify:)	O
		(g) Not at all ()	NN
4.2.2	If "Not at all", who is responsible for the family health in your house?	(a) Husband ()	H
		(b) Elderly person ()	EP
		(c) Nobody ()	NN
		(d) Others (specify:)	O

5. Environmental Conditions in the City

5.1 Of the following services in your neighborhood, which do you consider require improvement (select five with priority order in ascending order)?

5.1.1	Waste collection	()	WC
5.1.2	Street sweeping	()	SS
5.1.3	Sanitary drainage	()	SD
5.1.4	Storm water drainage	()	WT
5.1.5	Potable water supply	()	PW
5.1.6	Electric power supply	()	EP
5.1.7	Transportation system	()	TS
5.1.8	Road network	()	RN
5.1.9	Green and open spaces	()	GO
5.1.10	Medical service facilities	()	MS

5.2 Are you satisfied with the following services in the city as a whole?

5.2.1	Waste collection	(a) Yes (), (b) No ()	WC
5.2.2	Street sweeping	(a) Yes (), (b) No ()	SS
5.2.3	Sanitary drainage	(a) Yes (), (b) No ()	SD
5.2.4	Storm water drainage	(a) Yes (), (b) No ()	WT
5.2.5	Potable water supply	(a) Yes (), (b) No ()	PW
5.2.6	Electric power supply	(a) Yes (), (b) No ()	EP

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5.2.7	Transportation system	(a) Yes () , (b) No ()	TS
5.2.8	Road network	(a) Yes () , (b) No ()	RN
5.2.9	Green and open spaces	(a) Yes () , (b) No ()	GO
5.2.10	Medical service facilities	(a) Yes () , (b) No ()	MS

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Public Awareness Survey Questionnaire

Questionnaire: Commercial and Business Establishments Survey

The Ministry of Local Administration, the Ministry of Environment, the Lattakia City Council and the Japan International Cooperation Agency (JICA) together conduct The Study on Solid Waste Management at Local Cities in the Syrian Arab Republic.

The purpose of this questionnaire is to understand the present practices, concerns and awareness about solid waste storage and discharge by the commercial and business establishment of each city of *Lattakia, Jableh, Al Haffeh and Al Qurdaha*.

Questionnaire number:

1. Interviewer

Name of Interviewer :	Date(D/M/Y): , , 2001
City :	Area :

2. General Question

2.1 Address

2.2 Number of Persons Employed: _____ **staffs**

2.3 Category of Business/Activity

(a) Office ()	F
(b) Hotel ()	H
(c) Restaurant ()	R
(d) Market ()	M
(e) Handicraft ()	HN
(f) Industry ()	I
(g) Shop ()	S
(h) Retailer ()	RE
(i) Others (specify:)	O

2.4 Position of the Person Interviewed

(a) President ()	P
(b) Director ()	D
(c) Manager ()	M
(d) Section Chief ()	S
(e) Specific officer in charge of solid waste management ()	SO
(f) An officer ()	F
(g) Owner ()	OW
(h) Others (specify:)	O

2.5 Description of the Premises

2.5.1	Number of floors?	() floors	
2.5.2	Floor area	() m ²	
2.5.3	Type of contract for premises <i>(Single)</i>	(a) Owned () (b) Rented ()	OW R
2.5.4	Do you have these services? <i>(Multiple)</i>	(a) Electricity () (b) Water supply () (c) Gas () (d) Heated water ()	E W G HW

3. Waste Storage and Discharge Practices

3.1 Storage of Wastes

3.1.1	What material is the main waste container(s) on the premises made of? (indicate number and size of each) <i>(Multiple)</i>	(a) Plastic bin: (i)Nos. (), (ii)size: ()m ³ (b) Wood box: (i)Nos. (), (ii)size: ()m ³ (c) Tin/aluminum can: (i)Nos. (), (ii)size: ()m ³ (d) Cardboard box: (i)Nos. (), (ii)size: ()m ³ (e) Plastic bag: (i)Nos. (), (ii)size: ()m ³ (f) Paper bag: (i)Nos. (), (ii)size: ()m ³ (g) Metal container: (i)Nos. (), (ii)size: ()m ³	PL WB TI CB PB PA MC
3.1.2	Does the main container have a cover?	(a) Yes () (b) No ()	Y N
3.1.3	Where the main container places in the premises?	(Specify:)	
2.1.4	Do you have a problem with waste stored on the premises? <i>(b, Multiple)</i>	(a) Yes () If Yes, then describe the problems: (a.1) Bad odor () (a.2) Insects and pests are attracted () (a.3) Takes up too much space () (a.4) Others(Specify:) (b) No ()	Y BO IP S O N

3.2 Amount of Waste Generated on the Premises

3.2.1	What are the approximate amounts of wastes generated on the premises, by type?	(a) Approximate total amount is () kg/ day (b) Separate by the following materials viii. Plastic (kg/d) ix. Paper (kg/d) x. Glass (kg/d) xi. Card board (kg/d) xii. Materials (kg/d) xiii. Food wastes (kg/d)	PL PA GS CB MA FW
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3.3 Discharge Practice of the Waste?

3.3.1	How often do you discharge your waste out of the premises? <i>(Single)</i>	(a) Twice every day () (b) Once every day () (c) Once every two days () (d) Once every three days () (e) Once a week () (f) Irregularly () (g) Others (specify:)	TD D OW TH DW I O
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3.3.2	For what time do you the waste usually discharge? <i>(Single)</i>	(a) 06:01 – 08:00 ()	A
		(b) 08:01 – 10:00 ()	B
		(c) 10:01 – 12:00 ()	C
		(d) 12:01 – 14:00 ()	D
		(e) 14:01 – 16:00 ()	E
		(f) 16:01 – 18:00 ()	F
		(g) 18:01 – 20:00 ()	G
		(h) 20:00 – 06:00 ()	H
		(i) Irregularly ()	I
3.3.3	Who is responsible to discharge the waste from the premises? <i>(Single)</i>	(a) A specific employee ()	SE
		(b) Office boy ()	OB
		(c) Cleaning staff ()	CS
		(d) Any staff member ()	SM
		(e) Collection worker ()	CW
		(f) Irregular ()	I
		(g) Others (specify: _____)	O
3.3.4	Do you separate the waste on the premises?	(a) Yes (), If Yes , answer the following questions	Y
		(a.1) Separate by the following materials <i>(Multiple)</i>	PL
		i. Plastic ()	PA
		ii. Paper ()	GS
		iii. Glass ()	CB
		iv. Card board ()	MA
		v. Materials ()	FW
		vi. Food wastes ()	
		(a.2) How to dispose of separated items <i>(Single)</i>	CP
		v. Put at the collection points ()	SP
3.3.5	Do you dispose of your waste by yourself <i>(Single)</i>	vi. Sell to people who collect from house ()	TP
		vii. Take to special points for selling ()	GA
		viii. Give away, etc. ()	O
		ix. Others (specify _____)	
		(a.3) Amount of separated items per week	
		i. Plastic (_____, bottles [], kg [])	
		ii. Paper (_____, kg [], packs [])	
		iii. Glass (_____, bottles [], kg [])	
		iv. Card board (_____, kg [], packs [])	
		v. Materials (_____, kg [], pieces [])	
		vi. Food wastes (_____, kg [], bags [])	
		(b) No ()	N
		(a) Yes (), by	Y
		(a.1) Incinerating ()	I
		(a.2) Burying ()	B
		(a.3) Composting ()	C
		(a.4) Others (specify, _____)	O
		(b) No()	N

4. Waste Collection Service

4.1 Location of Waste Collection Points and Frequency of Collection

4.1.1	Where do you put your waste for collection?	(a) In front of the main door/gate () (b) Take to a nearby collection point () (c) Transport by self off the premises () (d) Others (specify:)	FD NC TS O
4.1.2	Where is the collection point nearest to your premises?	(a) Distance from your premises: () meters (b) If there are containers at the point, how many? ()	
4.1.3	Are there any problems at the collection point?	(a) Foul Odor () (b) Insects, rodents and other pests are generated () (c) Animals like dogs are attracted to the point () (d) Scavengers scatter the waste at the point () (e) Spontaneous burning the waste () (g) Others (specify:)	FO IP AD SS SB O
4.1.4	Do you know who is responsible for cleaning the collection point?	(a) Municipality() (b) A collection company () (c) Citizens () (d) Your entity () (e) Others (specify;)	M CC CI YE O
4.1.5	Do you have a contract with any legal entity for waste collection?	(a) Yes () Contract with (a.1) Municipality() (a.2) A collection company () (a.3) Others (specify;) (b) No ()	Y M CC O N
4.1.6	Do you know the frequency of the collection? (<i>Single</i>)	(a) Collected every day () (b) Collected every two days () (c) Collected every three days () (d) Collected once a week () (e) Irregular collection () (f) Do not know ()	ED TD TH W I DN

4.2 Payment of the Collection Service

4.2.1	Do you pay collection service charge?	(a) Yes () (a) No ()	Y N
4.2.2	If "Yes" for above question, how much do you pay per month?	(SP)	
4.2.3	If "Yes" for above question, to whom do you pay?	(a) Municipality () (b) Contracted collection company () (c) Collection worker () (d) Community association () (specify) (e) Others (specify:)	M CC CW CA O
4.2.4	How do you think this amount of the charge?	(a) High () (b) Reasonable () (c) Low () (d) I don't like to pay () (e) I don't know ()	H R L DL DN

		(f) Others (specify:)	O
4.2.4	Has this charge increased recently?	(a) Yes () If Yes, then answer the following questions: (a.1) There was an increase years ago (a.2) The last incremental increase was by (SP)	Y
		(b) No ()	N

4.3 Regulations Concerning the Collection Service Offered

4.3.1	Do you know which authority is responsible for disposal of solid waste discharged by commercial entities?	(a) State ()	S
		(b) Municipality ()	M
		(c) Private Company ()	PC
		(d) Yourselves ()	YU
		(e) Others (specify:)	O
		(f) I don't know ()	DN
4.3.2	Have you ever had any guidance or specific regulation methods of proper waste discharge and collection?	(A) Yes () If Yes, then answer the following questions:	Y
		(a.1) Regulations cover the following items: i) Time of waste collection ()	TW
		ii) Packing of waste ()	PW
		iii) Separation of certain waste items ()	SW
		iv) Others ()	O
		(a.2) Who has given the regulations? i) Municipality ()	M
		ii) Private collection company ()	PC
		iii) Collection worker ()	CW
		iv) Others (specify:)	O
		(a.3) How the regulation issued to you? i) By leaflet ()	BL
		ii) By public meeting ()	PM
		iii) Informed by collection worker ()	CW
		iv) Others (specify:)	O
		(b) No ()	N
		(c) I do not know ()	DN

4.4 Degree of Satisfaction with the Solid Waste Collection Service

4.4.1	Are you satisfied with the collection service?	(a) Yes ()	Y
		(b) No ()	N
		(c) I don't know ()	DN
4.4.2	If "No" for above question, what are the reasons?	(a) Frequency of collection is not enough. ()	FQ
		(b) Collection time is irregular. ()	CT
		(c) Collection time is very early or late. ()	TE
		(d) Behavior of the collection worker is bad. ()	WC
		(e) Collection worker is crude. ()	WC
		(f) Waste are burned inside the container ()	WB
		(g) Containers are not properly emptied ()	NP
		(h) Containers are in poor condition ()	CC
		(i) Waste are scattered around the container ()	WS
		(j) Additional money must be paid to collection workers for waste removal ()	AM
		(k) Others (specify:)	O

4.5 Willingness to Cooperate for the Solid Waste Management

4.5.1	In case that the municipality promotes a “cleaning campaign” or others, do you think the willingness to participate in such an activity?	(a) Yes, no problem () (b) No () (c) I don't know ()	Y N DN
4.5.2	Do you think the willingness to pay more for the service that is more efficient throughout the city?	(a) Yes (), (a.1) If Yes, then how much additional charge are you willing to pay? ()/month/establishment (b) No () If No, then what are the reasons? (b.1) Cannot afford to pay more () (b.2) Present charge is already too high () (b.3) Cannot trust collection service providers () (b.4) Others, (specify)	Y N CO PH CT O
4.5.3	To promote waste recycling and to produce compost from waste, do you contribute to separate waste at your house?	(a) Yes (), If Yes, then answer the following (a.1) Incentive required for the separation. [Yes () / No ()] (a.2) Willingness to separate organic waste from others [Yes () / No ()] (a.3) Willingness to separate two or three items, such as plastic, glass and paper [Yes () / No ()] (a.4) Willingness to store separated items in the house for () days (b) No ()	Y Y/N Y/N Y/N N
4.5.4	In order to separate and discharge the waste in packed bags, do you purchase plastic bags (<i>Multiple</i>)	(a) Yes () (b) No (), If No, then please explain the reasons (b.1) Such bags are too expensive () (b.2) Poor quality bags not good for storing waste () (b.3) Others (specify;)	Y N BE PQ O
4.5.5	To improve the waste collection service in the city as a whole, do you wiliness to accept to decrease collection frequency to less than daily throughout the year? (this means waste should be stored within house for more than one day) (<i>Single</i>)	(a) Yes (), If Yes, then acceptable frequency would be: (a.1) Three days a week () (a.2) Two days a week () (a.3) One day a week () (b) No () (c) I do not know ()	Y TH TW ON N DN

5. Environmental Conditions in the City

5.1 Of the following services in your neighborhood, which do you consider require improvement (select five with priority order in ascending order)?

5.1.1	Waste collection	()	
5.1.2	Street sweeping	()	
5.1.3	Sanitary drainage	()	
5.1.4	Storm water drainage	()	
5.1.5	Potable water supply	()	
5.1.6	Electric power supply	()	
5.1.7	Transportation system	()	
5.1.8	Road network	()	
5.1.9	Green and open spaces	()	
5.1.10	Medical service facilities	()	

5.2 Are you satisfied with the following services in the city as a whole?

5.2.1	Waste collection	(a) Yes (), (b) No ()	Y/N
5.2.2	Street sweeping	(a) Yes (), (b) No ()	Y/N
5.2.3	Sanitary drainage	(a) Yes (), (b) No ()	Y/N
5.2.4	Storm water drainage	(a) Yes (), (b) No ()	Y/N
5.2.5	Potable water supply	(a) Yes (), (b) No ()	Y/N
5.2.6	Electric power supply	(a) Yes (), (b) No ()	Y/N
5.2.7	Transportation system	(a) Yes (), (b) No ()	Y/N
5.2.8	Road network	(a) Yes (), (b) No ()	Y/N
5.2.9	Green and open spaces	(a) Yes (), (b) No ()	Y/N
5.2.10	Medical service facilities	(a) Yes (), (b) No ()	Y/N

5.3 Illegal Dumping Sites

5.3.1	Are there illegal dumping sites near your establishment? <i>(Multiple)</i>	Yes (), If Yes, then answer the following questions: (a.1) There are no problems () (a.2) There is bad odor () (a.3) Source of insects and other pests () (a.4) Truck traffic problem () (a.5) Scavenger problem () (a.6) Spontaneous fires () (a.7) Pollution to nearby water bodies () (a.8) Other, (specify: _____) (b) No ()	Y NB BO IP TT SP SF WP O N
5.3.2	Have you ever taken any action, or participated in any to close down any illegal dump sites? <i>(Multiple)</i>	(a) Yes (), If Yes, then describe the action (a.1) Municipal officials contacted () (a.2) Mass media contacted () (a.3) Elected representatives contacted () (a.4) Donated money or equipment to clean up effort () (a.5) Actually participated in cleaning up () (a.6) Others (specify: _____) (b) No ()	Y MC MM EP DM PC O N

6. Concern Income (turnover)

6.1 Total Income of the Business within a Month (*Single*)

No.	Income group (SP./monthly)	This business	
6.1.1	less than 10,000	()	A
6.1.2	10,001 – 20,000	()	B
6.1.3	20,001 – 30,000	()	C
6.1.4	30,001 – 40,000	()	D
6.1.5	40,001 – 50,000	()	E
6.1.6	50,001 – 60,000	()	F
6.1.7	60,001 – 70,000	()	G
6.1.8	70,001 – 80,000	()	H
6.1.9	80,001 – 90,000	()	K
6.1.10	90,001 – 100,000	()	L
6.1.11	more than 100,000	()	M

6.2 Approximately how is the Business Expenditure Distributed (Percentage of Total)

6.2.1	Salaries	() %	
6.2.2	Premises rent	() %	
6.2.3	Electricity, gas and water services	() %	
6.2.4	Business activities	() %	
6.2.5	Others	() %	

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Public Awareness Survey Questionnaire

Questionnaire: Medical Establishments Survey

The Ministry of Local Administration, the Ministry of Environment, the Lattakia City Council and the Japan International Cooperation Agency (JICA) together conduct The Study on Solid Waste Management at Local Cities in the Syrian Arab Republic.

The purpose of this questionnaire is to understand the present practices, concerns and awareness on medical solid waste storage and discharge by the medical facilities (hospitals and clinics) in each city of *Lattakia, Jabla, Al Haffeh and Al Qurdaha*.

Questionnaire number:

1. Interviewer

Name of Interviewer :	Date(D/M/Y): , , 2001
City :	Area :

2. General Question

2.1 Facility Name:

2.2 Address:

2.3 Total Number of persons employed: _____ staffs

2.4 Description of the facility

2.4.1	Number of beds	() beds	
2.4.2	Ownership of facility	(a) State () (b) Private sector() (c) Others (specify)	S P O
2.4.3	Description of the medical services provided	(a) () (b) () (c) () (d) () (e) () (f) ()	

2.5 Position of the Person Interviewed

(a) President () / Dr () or not Dr()	PD/PN
(b) Director () / Dr () or not Dr()	DD/DN
(c) Manager () / Dr () or not Dr()	MD/MN
(d) Section Chief () Dr () or not Dr()	CD/CN
(e) Specific officer in charge of solid waste management () / Dr () or not Dr()	SD/SN
(f) An officer () / Dr () or not Dr()	OD/ON
(g) Nurse ()	NU
(h)Others (specify:)	O

3. Waste Management System in the Facility

3.1 Solid Waste Administration within the Facility

3.1.1	Is there a specific department in the facility responsible for solid waste administration <i>(Multiple)</i>	(a) Yes () If Yes, then what are its duties: (a.1) Creating norms for SWM () (a.2) Preparing treatment plan () (a.3) Supervising waste sorting () (a.4) Maintaining waste records () (a.5) Others () (b) No ()	Y CN PT SW MW O N
3.1.2	Are any of the following SWM services contracted out?	(a) Waste collection within the facility () (b) Waste transportation () (c) Waste storage () (d) Waste treatment () (e) Not at all ()	WC WT WS WR NA
3.1.3	Is there an in-house education program for the staff on SWM of hospital wastes? <i>(Single)</i> <i>(In case program is available obtain copy)</i>	(a) Yes () If Yes, then concerning the program (a.1) Program prepared by the hospital () (a.2) Program prepared by the Ministry of Health () (a.3) Program prepared by other governmental organization () (b) No () (c) Others (specify)	Y H MH GO N O
3.1.4	Are there any governmental regulations that issued on the management of hospital waste? <i>(In case regulations are available obtain copy)</i>	(a) Yes () If Yes, then these regulations are (a.1) Issued by whom? () (a.2) Issued in what year? () (b) No ()	Y N

3.2 Waste Amount and Collection in the Facility

3.2.1	Does the facility have any definition of hospital waste classification <i>(In case definition exists obtain copy)</i>	(a) Yes () If Yes, then answer the following (a.1) What are the categories in the definition? - - - - - (a.2) Who set the definition? () (b) No ()	Y N
3.2.2	What is the waste amount generated in the facility (by category) in kg/day or m3/day?	(a) [()kg or m3 /day] (b) [()kg or m3 /day] (c) [()kg or m3 /day] (d) [()kg or m3 /day] (e) [()kg or m3 /day]	
3.2.3	How is pathological waste (organs, tissues, etc.) generated by surgery or medical operations collected/stored?	(a) Is this waste type separated from other waste (Y / N) (b) Is any special treatment applied onto that waste (Y / N) (c) Are blood and body fluids hauled in special containers (Y / N)	Y/N Y/N Y/N

		(d) Are such wastes sterilized before discharge into the sewerage (Y / N)	Y/N
3.2.4	Are there standards for separating certain waste materials from other wastes?	(a) Yes () (a.1) If Yes, then describe the materials separated? ()	Y
		(b) No ()	N
3.2.5	What kinds of containers are used for storing injection needles, surgery tools, scalpels, etc. to be disposed?	(specify:)	
3.2.6	Do you reuse injection needles used?	(a) Yes () (a.1) If Yes, then how they are sterilized?	Y
		(b) No ()	N
3.2.7	Do you apply any "Biohazard Mark" on contagious wastes generated from tests and examination of pathogenic bio-orgasms?	(a) Yes ()	Y
		(b) No ()	N
3.2.8	Do you use different colored bags for different waste types	(a) Yes ()	Y
		(b) No ()	N
		(a) Do you haul contagious wastes in a specifically assigned cart? (Y / N)	Y/N
		(c) Do you store contagious waste in storage space specifically prepared for that purpose? (Y / N)	Y/N
		(d) Is a "Biohazard Mark" clearly displayed at the storage area? (Y / N)	Y/N
3.2.9	Haulage and temporary storage of hospital wastes in the facility	(d) Is the storage area locked? (Y / N)	Y/N
		(e) Are records maintained on stored waste? (Y / N)	Y/N

3.3 Transportation and Final Treatment of the Waste

3.3.1	Do you have a contract with any legal entity for transport of medical waste generated at the facility?	(a) Transport waste by self ()	S
		(b) Yes, Contract with _____	Y
3.3.2	What is the frequency of collection? <i>(Single)</i>	(a) Do not know: ()	DN
		(b) Collected every day ()	ED
		(c) Collected every two days ()	TD
		(d) Collected every three days ()	TH
		(e) Collected once a week ()	W
		(f) Irregular collection ()	I
3.3.3	Do you pay collection service charge?	(a) Yes () If Yes, then answer the following questions: (a.1) How much do you pay per month? (SP)	Y
		(a.2) The unit charge (SP/m ³)	

		(a.3) Whom do you pay to? (i) Contracted company () (ii) Municipality () (iii) Private collection company () (iv) Collection worker () (v) Others (specify: _____)	CC MU PC CW O
		(b) No ()	N
3.3.4	Has this charge increased recently?	(a) Yes () If Yes, then answer the following questions: (a.1) There was an increase () years ago (a.2) The last incremental increase was by(SP) No ()	Y N
3.3.5	Are you satisfied with the transportation service provided?	(a) Yes () (b) No (), If No, then what are the reasons? (b.1) Collection frequency is not enough () (b.2) Collection schedule is not kept () (b.3) Others (specify _____)	Y N CF CS O
3.3.6	Willingness to pay more for more efficient the service throughout the city?	(a) Yes () If Yes, then answer the follows (a.1) then how much additional charge are you willing to pay? (SP/m ³) (b) No (), If No, then what are the reasons? (b.1) Cannot afford to pay more () (b.2) Present charge is already too high () (b.3) Cannot trust collection service providers () (b.4) Others, (specify _____)	Y N CA PH CT O

3.4 Final Treatment

3.4.1	Where is the main place the medical wastes generated in the facility?	(a) (specify _____) (b) Do not know ()	DN
3.4.2	Describe the wastes that are sterilized in the facility	(specify: _____)	
3.4.3	Sterilization methods available in the facility. Please select.	(a) Autoclave () (b) Drying sterilization () (c) Boiling () (d) Agent treatment () (e) Incineration () (f) Others (specify _____)	AU DS BO AT IN O
3.4.4	In case incinerator is available at the facility, describe the following.	(a) Where is the incinerator located? (a.1) Inside the facility () (a.2) Outside the facility, () km away (b) Is the incinerator causing any problems or generating complaints in its surroundings? (Y / N) (c) What is the operation frequency?(_____) (d) What is the incinerator capacity? (_____) (e) Is the incinerator equipped with an emission gas treatment equipment? (e.1) Dust collector (Y / N) (e.2) Scrubber (Y / N) (f) How is incineration ash treated? (Specify _____)	IN OU Y/N Y/N Y/N Y/N

3.5 Degree of satisfaction with the solid waste collection service

3.5.1	Are you satisfied with the present service?	(a) Yes ()	Y
		(b) No ()	N
		(c) I don't know ()	DN
3.5.2	If "No" for above question, what are the reasons?	(a) Frequency of collection is not enough. ()	FC
		(b) Collection time is irregular. ()	TI
		(c) Collection time is very early or late. ()	TE
		(d) Behavior of the collection worker is bad. ()	BB
		(e) Collection worker is crude. ()	CW
		(f) Waste are burned inside the container ()	WB
		(g) Containers are not properly emptied ()	CP
		(h) Containers are in poor condition ()	CC
		(i) Waste are scattered around the container ()	WS
		(j) Additional money must be paid to collection workers for waste removal ()	AM
		(k) Others (specify:)	O

4. Environmental Conditions in the City

4.1 Of the following services in your neighborhood, which do you consider require improvement (select five with priority order in ascending order)?

4.1.1	Waste collection	()	WC
4.1.2	Street sweeping	()	SS
4.1.3	Sanitary drainage	()	SD
4.1.4	Storm water drainage	()	SW
4.1.5	Potable water supply	()	PW
4.1.6	Electric power supply	()	EP
4.1.7	Transportation system	()	TS
4.1.8	Road network	()	RN
4.1.9	Green and open spaces	()	GS
4.1.10	Medical service facilities	()	MS

4.2 Are you satisfied with the following services in the city as a whole?

4.2.1	Waste collection	(a) Yes (), (b) No ()	WC
4.2.2	Street sweeping	(a) Yes (), (b) No ()	SS
4.2.3	Sanitary drainage	(a) Yes (), (b) No ()	SD
4.2.4	Storm water drainage	(a) Yes (), (b) No ()	SW
4.2.5	Potable water supply	(a) Yes (), (b) No ()	PW
4.2.6	Electric power supply	(a) Yes (), (b) No ()	EP
4.2.7	Transportation system	(a) Yes (), (b) No ()	TS
4.2.8	Road network	(a) Yes (), (b) No ()	RN
4.2.9	Green and open spaces	(a) Yes (), (b) No ()	GS
4.2.10	Medical service facilities	(a) Yes (), (b) No ()	MS

4.3 Illegal Dumping Sites

	Are there illegal dumping sites near your establishment? <i>(Multiple)</i>	(a) Yes () , If Yes, then answer the following questions: (a.1) There are no problems () (a.2) There is bad odor () (a.3) Source of insects and other pests () (a.4) Truck traffic problem () (a.5) Scavenger problem () (a.6) Spontaneous fires () (a.7) Pollution to nearby water bodies () (a.8) Other, (specify: _____)	Y NB BO IP TT SP SF WP O N
4.3.2	Have you ever taken any action, or participated in any to close down any illegal dump sites? <i>(Multiple)</i>	(a) Yes () , If Yes, then describe the action (a.1) Municipal officials contacted () (a.2) Mass media contacted () (a.3) Elected representatives contacted () (a.4) Donated money or equipment to clean up effort () (a.5) Actually participated in cleaning up () (a.6) Others (specify: _____) (b) No ()	Y MO MM ER DM AP O N

5. Concern Income (turnover)

5.1 Total Income of the Business within a Month *(Single)*

No.	Income group (SP./monthly)	This business	
5.1.1	less than 10,000	()	A
5.1.2	10,001 – 20,000	()	B
5.1.3	20,001 – 30,000	()	C
5.1.4	30,001 – 40,000	()	D
5.1.5	40,001 – 50,000	()	E
5.1.6	50,001 – 60,000	()	F
5.1.7	60,001 – 70,000	()	G
5.1.8	70,001 – 80,000	()	H
5.1.9	80,001 – 90,000	()	I
5.1.10	90,001 – 100,000	()	J
5.1.11	more than 100,000	()	K

5.2 Approximately how is the Business Expenditure Distributed (Percentage of Total)

5.2.1	Salaries	() %	
5.2.2	Premises rent	() %	
5.2.3	Electricity, gas and water services	() %	
5.2.4	Business activities	() %	
5.2.5	Others	() %	

Verified by Computer data input by

Reviewer signature

Signature

Signature

APPENDIX 2

***COMPOST DEMAND SURVEY
(LATTAKIA)***

APPENDIX 2 COMPOST DEMAND SURVEY (LATTAKIA)

2.1 QUESTIONNAIRE

2.1.1 General Information

- Serial Number
- Location
- Type of Farming: Individual or Corporation.
- Member of Agricultural Cooperative Society: Yes, _____ region
No.
- Planted Area: _____ (Hect. or Donom [1,000 m²])
- Farming Workforce

2.1.2 Soil Condition

(1) Land Origin (Q1)

- Reclaimed land
- Traditional farming land

(2) Soil Type (Q2)

- Black calcareous
- White calcareous
- Red clay
- Sandy soil
- Others

(3) Soil Problems (if any) (Q3)

- Fertility of soil
- Salt accumulation
- Fertilizer sustainability
- Water sustainability
- Others

2.1.3 Crop and Planted Area

(1) Cereal Crops (Q4)

- Wheat
- Barley
- Rice
- Maize

- Lentil
- Chickpea
- Others

(2) Vegetables (Q5)

- Tomato
- Marrow
- Cabbage
- Cauliflower
- Lettuce
- Green peas
- Potato
- Egg plant
- Melon
- Watermelon
- Others

(3) Fruits (Q6)

- Citrus
- Olive
- Grape
- Fig
- Guava
- Apple
- Apricot
- Peach
- Pears
- Others

(4) Industrial Crops (Q7)

2.1.4 Irrigation

(1) Irrigation System (Q8)

- Surface irrigation
- Sprinkler irrigation
- Drip irrigation

- Others

(2) Irrigation Source (Q9)

- Canal Water
- Groundwater
- Both

(3) Water Availability (Q10)

- Yes
- No

(4) Water Quality (Q11)

- Good
- Bad (mention the troubles)

2.1.5 Fertilizer

(1) Chemical Fertilizer (Q12)

Type	Consumption per Year	Source	Price S.P./Ton
Nitrate			
Ammonium Sulfate			
Urea			
Phosphate			
Potash Sulfate			
Others			

(2) Organic Fertilizer (Q13)

Type	Consumption per Year	Source	Price S.P./Ton
Animal Manure	Cattle		
	Chicken		
Peat moss			

(3) Priority (Q14)

Which do you place the priority on Solid waste compost or Animal manure?

- Compost
- Animal manure

(4) In-house compost (Q15)

Do you utilize the in-house compost and if, yes, what are they?

- Yes, they are: _____
- No

(5) Compost by Urban Solid Waste (Q16)

(1) Do you know the compost produced from urban solid wastes at the Compost Plant in your municipality?

- Yes (Amount of purchased compost:)
- No

(If No, please skip to question 5.7)

(6) What are the reasons why you do not use the compost? (Q17)

- Crops do not require
- High price
- Low availability
- Low quality of the compost
- Using other organic fertilizer
- Transportation problem (distance to the Compost Plant)
- Not applicable due to the irrigation system
- Others

(7) Do you want to use the compost if a new compost plant will be constructed in your municipality and production of the high quality and ample amount of compost will be secured in near future? (Q18-1)

- Yes
- No

If Yes, how much do you want to buy? (Q18-2) And how much do you prefer to pay for the above amount? (Q18-3)

Compost type	Quantity (Tons per Year)	Price SP/ton
Fine compost		
Coarse compost		

(8) Do you want to know the effect of the compost in detail? (Q19)

- Yes
- No

(9) What are the reasons why you stopped using the compost? (Q20)

- Crops do not require
- High price
- Low availability
- Low quality of the compost
- Using other organic fertilizer

- Transportation problem (distance to the Compost Plant)
- Not applicable due to the irrigation system
- Others

(10) Why you are continuing in using compost? (Q21)

- Low price
- Suitable for the crop
- Suitable for irrigation systems
- Others

2.1.6 FARM MANAGEMENT

(1) Annual Income

1) Annual income by agriculture activity _____ SP per year (Q22)

2) Is there any subsidy you receive from government? (Q23)

- Yes _____ SP per year
- No

(2) Annual Cost

How is the outline figures of the annual cost for your agriculture activity? (Q24)

- Seed or seedlings _____ SP.
- Irrigation water _____ SP.
- Chemical fertilizer _____ SP.
- Organic fertilizer _____ SP.
- Pesticides _____ SP.
- Machinery _____ SP.
- Electricity _____ SP.
- Labor _____ SP.

2.1.7 Suggestions (Q25)

Other suggestions to the compost plant (if any)

2.2 SURVEY RESULTS

The survey results are shown in the following tables.

Table 2.2.1 (1) Farmers Who are Purchasing Compost

General Data	Owner	1	2	3	4	5
	Village	Kaser Zahlot Al-Bassa	Noh Noh Al-Bassa	Ahmed noh Al-Bassa	Yahia Balosh Al-Bassa	Ibrahim Tarab Fidyo
Region	Region	Lattakia	Lattakia	Lattakia	Lattakia	Lattakia
Area (Donom)*	Area (Donom)*	50	30	30	30	20
Soil Conditions	Q1 Land Origin	Traditional farming	Traditional farming	Traditional farming	Traditional farming	Traditional farming
	Q2 Soil Type	Sandy soil	Sandy soil	Sandy soil	Sandy soil	Sandy soil
	Q3 Soil Problem(s)	-	15 Donom with high water content	-	-	-
Crops (kind- Area [Donom]- production[1ton])	Q4 cereal	-	Barely-10D-2T	Wheat-10D-2T	-	1
	Vegetables	Pea nut-15D-5T Squash -5D-10T Egg plant- 5D-50T	Egg plant 2D-8T Tomato 1D-4T Squash 3D-12T	Egg plant 1D-4T Tomato 3D-7T Peper 1D-1T	Potato-3D-4T Tomato 3D-7T Egg plant 10D-25T Pea nut 20D-4T	Potato 1D-1T Egg plant 2D-10T Pea Nut 2D- 0.2T
	Q5 Fruits	Citrus-25- (young trees)	Citrus-8D-18T	Citrus-12D-22T	Citrus 20D-10T	Citrus12D-35T
	Q6 Industrial	-	-	-	-	-
Irrigation	Q8 System	Surface	Surface	Surface	Surface	Surface
	Q9 Source	Canal and ground water	Canal and ground water	Canal water	Canal and ground water	Canal water
	Q10 Availability	Yes	Yes	Yes	Yes	Yes
	Q11 Quality	Good	Good	Good	Good	Good
Fertilizers (Type- Quantity[Ton])	Q12 Chemical	100	2	2	2	3
	Q13 Organic	27	24	26	15	10
	Q16 Compost	25	20	30	10	12
Priority	Q14	Compost	Compost	Compost	Compost	Compost
Using in-house compost	Q15	No	No	No	No	No
Farm Economics (S.P.)	Q24 Expenses	150,000	110,000	100,000	125,000	105,000
	Q22 & Q23 Income	500,000	100,000	120,000	200,000	200,000
	Profit	350,000	-	20,000	75,000	95,000
	Loose	-	10,000	-	-	-
Want to use compost from new plant	Q18-1	yes	yes	yes	yes	yes
Possible purchased Quantity in ton	Q18-2	40	30	40	25	15
Possible paid price per ton	Q18-3	450	500	450	450	400
Want to know about compost	Q19	yes	yes	yes	yes	yes
Reasons For continuing in purchasing Compost	Q20	Low price Very good for squash	Low price	Low Price	Low price	Low price
Suggestions (for Compost Plant)	Q25	Improve the quality Increase the quantity	Improve the quality Change the plant site (For it is near to a populated area)	Improve the quality Increase the quantity	Improve the quality Change the plant site	Improve the quality

Table 2.2.1 (2) Farmers Who are Purchasing Compost (continued)

General Data	Owner Village	Monif Aroos Al-Hanadi	7	8	9	10
Region	Area (Donom)*	Lattakia	Lattakia	Moalla Ibrahim Al-Rowayniya	Ahmad Al-Jahni Al-Rowayniya	
Soil Conditions	Q1 Land Origin	6 Donom	2 Donom	30 Donom	Lattakia	Lattakia
	Q2 Soil Type	Traditional farming White calcareous Red clay	Traditional farming Red clay	30 Donom	25 Donom	25 Donom
Crops	Q3 Soil Problem(s)	-	-	Traditional farming Red clay	Traditional farming White calcareous	Traditional farming White calcareous
(kind- Area [Donom]- production[Ton])	Q4 cereal	-	-	White calcareous Red clay	White calcareous	White calcareous
	Q5 Vegetables	-	-	-	-	-
Irrigation	Q6 Fruits	Citrus 6D-10T	Citrus 2D-5T	Citrus 20D-70T	Olive 8D-15T	Olive 9D-17T
	Q7 Industrial	-	-	-	-	-
Fertilizers	Q8 System	Surface	Surface	Surface	Surface	Surface
(Type- Quantity)	Q9 Source	Ground water	Canal and ground water	Canal and ground water	Canal water	Canal water
	Q10 Availability	Yes	Yes	Yes	Yes	Yes
	Q11 Quality	Good	Good	Good	Good	Good
	Q12 Chemical	0.7	0.3	4	2	2
	Q13 Organic	-	5	45	17	15
	Q16 Compost	18	15	10	15	15
Priority	Q14 Compost	Compost	Organic Compost	Same	Same	Same
Using in-house compost	Q15	No	No	No	No	No
Farm Economics (SP)	Q24 Expenses	30,000	20,000	110,000	25,000	23,000
	Q22 & Q23 Income	150,000	50,000	220,000	80,000	70,000
	Profit	120,000	30,000	110,000	55,000	47,000
	Loose	-	-	-	-	-
Want to use compost from new plant	Q18-1	Yes	Yes	Yes	Yes	Yes
Possible purchased Quantity in ton	Q18-2	20	15	15	20	15
Possible paid price per ton	Q18-3	450	450	400	400	400
Want to know about compost	Q19	Yes	Yes	Yes	Yes	Yes
Reasons For continuing in purchasing Compost	Q20	Low price	Low price	Low price	Low price	Low price
Suggestions (for Compost Plant)	Q25	Improve the Quality	Improve the Quality	Improve the Quality	Improve the quality increase the quantity	Improve the quality increase the quantity

Donom =1000 Sq.m

Table 2.2.2 (1) Farmers Who Have Stopped Purchasing Compost

General Data	Owner Village	1 Mohammad Ali Naser Al-Hanadi	2 Hasan Jalood Al-Bassa	3 Ali Al-Helo Al-Bassa	4 Asef Al-Helo Al-Bassa	5 Adnan Fahham Al-Bassa
Region	Area (Donom)*	Lattakia 140	Lattakia 40	Lattakia 5	Lattakia 8	Lattakia 20
Soil Conditions	Q1 Land Origin Q2 Soil Type	Traditional farming Red clay	Traditional farming Red clay	Traditional farming Sandy soil	Traditional farming Sandy soil	Traditional farming Sandy soil
Crops (kind- Area [Donom]- production[ton])	Q3 Soil Problem(s)	15 Donom of the with high water content	-	High water content	-	-
Irrigation	Q4 cereal Q5 Vegetables	-	Barely 2D- 4T Egg plant 8D-50T Pepper 3D-8T	-	Egg plant 3D-15T Pepper 0.5D-0.5T	Egg plant 3D-15T Tomato 3D -5 T Pepper 2D- 2T
Fertilizers (Type- Quantity)	Q6 Q7 Fruits Industrial	Citrus- 120 D- 240T	Citrus 25D-65T	Citrus 2D-10T	Citrus 8D-26T	-
Priority	Q8 System Q9 Source Q10 Availability Q11 Quality	Surface Canal and ground water Yes Good	Surface Canal Water Yes Good	Surface Canal Water Yes Good	Surface Canal Water Yes Good	Surface Canal Water Yes Good
Using in-house compost	Q14 Same Q15 No	Compost No	Compost No	Compost No	Compost No	Animals manure NO
Farm Economics (S.P.)	Q24 Expenses Q22 & Q23 Income Profit	1,000,000 3,000,000 2,000,000	250,000 500,000 250,000	50,000 125,000 75,000	40,000 150,000 110,000	100,000 70,000 -
Reasons For stopping	Q20 Bad quality	Not always available	Bad quality and odor	Bad quality and odor	Bad quality and odor	Bad quality
Want to use compost from new plant	Q18-1 Yes	Yes	Yes	Yes	Yes	No, Compost bad for health
Possible purchased Quantity in ton	Q18-2 100	30	3	3	-	-
Possible paid price per ton	Q18-3 450	No decision	No decision	No decision	No decision	-
Want to know about compost	Q19 Yes	Yes	Yes	Yes	Yes	NO
Suggestions (for Compost Plant)	Q25 Improving the quality Increasing the quantity	Closing the plant site Change the plant site				

Table 2.2.2 (2) Farmers Who Have Stopped Purchasing Compost (continued)

General Data	Owner Village	Ali Hydar Al-Bassa	Ali Hamsha Al-Bassa	Dawood Jbeli Al-Bassa	Hasan Naddaf Al-Hanadi	Fadi Shaabo Al-Hanadi
Region	Region	Lattakia	Lattakia	Lattakia	Lattakia	Lattakia
Area (Donom)*	Land Origin	10	10	30	5	4
Soil Conditions	Q1 Soil Type	Traditional farming Sandy soil	Traditional farming Sandy soil	Traditional farming Sandy soil	Traditional farming Sandy soil	Traditional farming Sandy soil
Crops (kind- Area [Donom]- production[Ton])	Q2 Soil Problem(s)	-	-	-	-	-
Crops (kind- Area [Donom]- production[Ton])	Q3 cereal	-	-	Wheat 5D- 1.5 T	-	-
Crops (kind- Area [Donom]- production[Ton])	Q4 Vegetables	Lettuce 1d- 3t Egg plant 4d- 8T Haricot bean 0.5D-1T	Egg plant 3.5D 10T Squash 5D- 1.5T Pea nut 10D- 3T	Citrus 5D-10T	Citrus 4D- 12T	-
Irrigation	Q5 Fruits	Citrus 2D-4T	Citrus 10D-40t	-	-	-
Irrigation	Q6 Industrial	-	-	-	-	-
Irrigation	Q7 System	Surface	Surface	Surface	Surface	Surface
Irrigation	Q8 Source	Ground water	Canal and ground water	Canal and ground water	Canal water	Canal water
Fertilizers (Type- Quantity)	Q9 Availability	Yes	Yes	Yes	Yes	Yes
Fertilizers (Type- Quantity)	Q10 Quality	Good	Good	Good	Good	Good
Fertilizers (Type- Quantity)	Q11 Chemical	2	0.5	2	0.5	0.3
Fertilizers (Type- Quantity)	Q12 Organic	14	8	12	15	7
Priority	Q13 Priority	Q14 Animals manure	Animals manure	Compost	Animals manure	Compost
Using in-house compost	Q15	No	No	No	No	No
Farm Economics (S.P.)	Q24 Expenses	60,000	40,000	60,000	15,000	20,000
Farm Economics (S.P.)	Income	50,000	300,000	200,000	60,000	100,000
Farm Economics (S.P.)	Profit	-	260,000	140,000	45,000	80,000
Reasons For stopping purchasing Compost	Q20	Bad quality	Crops do not require	Not always available	Bad quality	Bad quality and Because compost effect is only for one year
Want to use compost from new plant	Q18-1	No, because Compost is bad for health	No, because Crops do not require	Yes, Quantity: 10 T	No, prefer organic fertilizer	Yes
Possible purchased Quantity in ton	Q18-2	-	-	10	-	12
Possible paid price per ton	Q18-3	-	-	No decision	-	450
Want to know about compost	Q19	No	No	Yes	Yes	Yes
Suggestions (for Compost Plant)	Q25	Closing the plant for it is bad for the environment	Closing the plant	Develop and modernize the plant	Improve the quality	Increase the quantity

Table 2.2.3 (1) Farmers Who Have Never Purchased Compost

Farm General Data	Owner	Ali Fadhel	2	Adnan Baddor	3	Ahmad Yasin	4	Ghazi Yasin	5	Al Yasir	Al-Moshaymshi	Lattakia	Al-Moshaymshi	Al Yasir	5
Village	Jobettirghal			Bab Janneh		Al-Moshaymshi		Al-Moshaymshi							
Region	Al-Qardaha	10	6	Al-Haffeh	37	Lattakia	15	Lattakia	70						
Area (Donom)*	Traditional farming	Traditional farming	Traditional farming	Traditional farming	Traditional farming	Traditional farming	Traditional farming	Traditional farming		Traditional farming					
Land Origin	Black calcareous	Yellow clay	White calcareous	White calcareous	White calcareous	White calcareous	White calcareous	White calcareous		White calcareous					
Soil Type	Sandy soil														
Q3 Soil Problem(s)	-	High water content	-	-	-	-	-	-		-					
Crops (kind- Area [Donom]- production[Ton])	Q4 cereal	Wheat 10D- 2 T	-	-	-	-	-	-		-					
Q5 Vegetables	-	-	-	Apples 2D- 3T	Citrus 20d- 30T	Olive 17D- 15t	Citrus 6D- 8T	Olive 3D- 1T							
Q6 Fruits	-	-	Pear 1D- 2T	Tobacco 2D- 0.160T	-	-	-	-							
Q7 Industrial	-	Cherry 1D- 3T	Cherry 1D- 3T	Surface	Surface	Surface	Surface	Surface							
Irrigation	Q8 System	Non-irrigated	Non-irrigated	Canal water	Canal and ground water	Canal water	Canal and ground water	Canal and ground water							
Q9 Source				Yes	No	No	No	No							
Q10 Availability				Good	Good	Good	Good	Good							
Q11 Quality															
Fertilizers	Q12 Chemical	1.5	3.5	1.5	2	20	6	30							
(Type- Quantity)	Q13 Organic	-	2												
Farm Economics (SP)	Q24 Expenses	7,000	20,000	90,000	30,000	300,000	100,000	140,000							
	Q22 & Q23 Income	15,000	75,000	210,000	210,000	210,000	70,000	500,000							
	Profit	8,000	55,000	-	-	-	-	360,000							
	Loose	-	-	No	No	No	No	-							
Compost	Q16 Knowledge	Yes	Yes	Yes	Yes	Yes	Yes	Yes							
Q19 Want to know in details															
Q17 Reasons for not purchasing interest in purchasing	Crops dot require	-	No decision	No decision	No decision	-	-	-							
Q18-1 Possible quantity(Ton)	Possible purchased	1	No decision	No decision	No decision	No decision	No decision	No decision							
Q18-2 Possible paid price (SP)	400		No decision	No decision	No decision	No decision	No decision	No decision							
Suggestions (for Compost)	Q25	Establish centers for distribution in every region	No decision	No decision	No decision	No decision	No decision	No decision							

Table 2.2.3 (2) Farmers Who Have Never Purchased Compost (continued)

Farm General Data	Owner Village	6	7	8	9	10
	Yousef Yasin Al-Moshaymshi	Yousef Yasin Al-Moshaymshi	Hasan yasin Al-Moshaymshi	Hamed Morsel Al-Al-Bateh	Ali Al-Bateh Bseiseen	Atta Hasan Bab Janneh
Region	Lattakia	Lattakia	Lattakia	Jableh	Al-Haffeh	5
Area (Donom)*	70	30	30	2		
Soil Conditions	Q1 Land Origin	Traditional farming	Traditional farming	Traditional farming	Traditional farming	Traditional farming
	Q2 Soil Type	White calcareous	White calcareous	Black clay	Black calcareous	Red clay
Crops	Q3 Soil Problem(s)	-	-	-	-	-
(kind- Area [Donom]- production[Ton])	Q4 cereal	-	-	-	-	Wheat 3D- 0.5T
	Q5 Vegetables	-	-	-	-	Tomato 2D- 32T
Irrigation	Q6 Fruits	Citrus 30D- 50T Olive 40D- 4T	Citrus 5D- 7T Olive 25D- 3T	Citrus 20D- 50T Olive 10D- 7t	-	Apple 1D- 1T
	Q7 Industrial	-	-	-	-	Tobacco 1D- 0.080
Fertilizers (Type- Quantity)	Q8 System	Surface	Surface	Surface	Surface	Surface
	Q9 Source	Canal and ground water	Canal and ground water	Canal and ground water	Ground water	Spring
Farm Economics (SP.)	Q10 Availability	No	Yes	Yes	Yes	Yes
	Q11 Quality	Good	Good	Good	Good	Good
	Q12 Chemical	13.5	3	3	0.6	0.7
	Q13 Organic	30	10	20	2	2
Compost	Q14 Expenses	210,000	55,000	60,000	35,000	10,000
	Q15 Income	500,000	200,000	400,000	200,000	25,000
	Q16 Knowledge	No	No	No	No	No
	Q17 Reasons for not purchasing	Want to know in details	Yes	Yes	Yes	Yes
	Q18-1 Interest in purchasing	-	-	-	Used to purchase organic	-
	Q18-2 Possible quantity(Ton)	purchased 9	If the quality is good and prove to be good 1	Yes, if the quality is good	Fertilizer	Yes, if the quality is good
	Q18-3 Possible paid price (SP)	500	450	6	0.5	1
Suggestions (for Compost)	Q25	Testing the production in the public farms	Testing the production	No suggestion	400	400
				Testing the production	Testing the production	Testing the production

Table 2.2.3 (3) Farmers Who Have Never Purchased Compost (continued)

Farm General Data	Owner Village	11	12	13	14	15
	Sami Mayyia Fadra	Mottie Ajib Fadra	Akel Dalaleh Fadra	Ismail Yaakob Fadra	Solaiman Mayyia Fadra	
Region	Lattakia	Lattakia	Lattakia	Lattakia	Lattakia	Lattakia
Area (Donom)*	20	10	10	30	50	
Soil Conditions	Q1 Land Origin	Traditional farming	Traditional farming	Traditional farming	Traditional farming	Traditional farming
	Q2 Soil Type	White calcareous	White calcareous	White calcareous	White calcareous	White calcareous
	Q3 Soil Problem(s)	-	-	-	-	-
Crops	Q4 cereal	-	-	-	-	-
(kind- Area [Donom]- production[Ton])	Q5 Vegetables	-	-	-	-	-
	Q6 Fruits	Citrus 8D- 15t Olive 12D- 4T	Citrus 5D- 9t Olive 5D- 2T	Citrus 7D- 12t Olive 3D- 1T	Citrus 15D- 25T Olive 15D- 5T	Citrus 30D- 60T Olive 20D- 5T
Irrigation	Q7 Industrial	-	-	-	-	-
	Q8 System	Surface	Surface	Surface	Surface	Surface
	Q9 Source	Canal water	Canal water	Canal water	Canal water	Canal water
	Q10 Availability	Not always	Yes	Yes	Yes	Not always
Fertilizers	Q11 Quality	Good	Good	Good	Good	Good
(Type- Quantity)	Q12 Chemical	0.65	0.75	0.35	2.3	0.8
	Q13 Organic	8	3	2	7	15
Farm Economics (SP.)	Q24 Expenses	35,000	20,000	15,000	55,000	100,000
	Q22 & Q23 Income Profit	175,000 140,000	70,000 50,000	60,000 35,000	160,000 105,000	300,000 200,000
	Q16 Compost	Loose	-	-	-	-
	Q19 Knowledge	Yes	No	No	No	No
	Want to know in details	No	Yes	Yes	Yes	Yes
	Q17 Reasons for not purchasing	Produce organic fertilizer at his farm	-	-	-	-
	Q18-1 Interest in purchasing	No	No, He has not big area (not interest in the prices)	Yes, if the quality is good	Yes, if the quality is good	Yes, if the quality is good
	Q18-2 Possible quantity(Ton)	Possible purchased -	-	0.5	2	6
	Q18-3 Possible paid price (SP)	-	-	400	450	500
Suggestions (for Compost)	Q25	No suggestion	No suggestion	Test the production	Test the production	Test the production

Table 2.2.3 (4) Farmers Who Have Never Purchased Compost (continued)

Farm General Data	Owner Village	16 Nizar Znebi Zughrien	17 Nadim Garah Ali Zughrien	18 Jihad Garah Ali Zughrien	19 Saddik Ziebeh Zughrien	20 Mohmmad Nandoh Zughrien
Region	Area (Donom)*	Lattakia 35	Lattakia 70	Lattakia 30	Lattakia 6	Lattakia 2
Soil Conditions	Q1 Land Origin	Traditional farming	Traditional farming	Traditional farming	Traditional farming	Traditional farming
	Q2 Soil Type	White calcareous Sandy soil Red clay	Sandy soil Red clay	Sandy soil Red clay	Red clay	Red clay
Crops	Q3 Soil Problem(s) cereal	-	-	-	-	-
(kind- Area [Donom]- production[Ton])	Q4 Vegetables	Tomato (green house) - 10 T	-	Sweet Potato 4D- 5T	-	-
	Q5 Fruits	Citrus 30D-35T	-	Citrus 10D-12T	Citrus 6D- 8T	Olive 1D- 0.500T
	Q6 Industrial	-	Tobacco 5D- 1.5T	-	-	-
Irrigation	Q8 System	Surface	Surface	Surface	Surface	Non-irrigated
	Q9 Source	Canal water	Canal water	Canal water	Canal water	
	Q10 Availability	Yes	Yes	Yes	Yes	
	Q11 Quality	Good	Good	Good	Good	
Fertilizers (Type- Quantity)	Q12 Chemical Q13 Organic	5 30	5.5 4	2.5 3	1 -	-
Farm Economics (SP.)	Q24 Expenses Q22 & Q23 Income Profit	120,000 250,000 130,000	110,000 230,000 120,000	60,000 220,000 160,000	18,000 60,000 42,000	2,000 10,000 8,000
Compost	Q16 Knowledge Q19 Want to know in details	Yes Yes	No No	Yes No	No Yes	No Yes
	Q17 Reasons for not purchasing	He produce the organic fertilizer at his farm	-	He produce the organic fertilizer at his farm	-	-
	Q18-1 Interest in purchasing	No	No, because the organic fertilizer is tested to be good	No, He does not use organic fertilizer	No, He does not use organic fertilizer	Yes, if the Quality is good
	Q18-2 Possible purchased quantity (Ton)	-	-	-	-	1
	Q18-3 Possible paid price (SP)	-	-	-	-	300
Suggestions (for Compost)	Q25	Treating the bad odor	No suggestion	No suggestions	No suggestions	Test the production

Table 2.2.3 (5) Farmers Who Have Never Purchased Compost (continued)

Farm General Data	Owner Village	21 Ibrahim Habib Zughrien	22 Kamel Habib Zughrien	23 Zakaria Shbeh Stammardho	24 Salim Assefori Stammardho	25 Salah Habib Zughrin
Region	Area (Donom)*	25 Lattakia	20 Lattakia	10 Lattakia	9 Lattakia	30 Lattakia
Soil Conditions	Q1 Land Origin	Traditional Farming	Traditional Farming	Traditional Farming	Traditional Farming	Traditional Farming
	Q2 Soil Type	Black clay Sandy soil	Black clay	White calcareous	White calcareous	White calcareous
Crops	Q3 Soil Problem(s)	-	-	-	-	Black clay
(kind- Area [Donom]- production[Ton])	Q4 cereal	-	-	-	-	-
	Q5 Vegetables	-	-	-	-	-
	Q6 Fruits	Citrus 7D- 8T	Citrus 20D- 16T	Olive 10D- 3T	Olive 9D- 2T	Olive plant 1D- 2T
Irrigation	Q7 Industrial	Tobacco 10D- 3T	-	-	-	Citrus 7D- 8T
	Q8 System	Surface	Surface	Non-irrigated	Non-irrigated	Tobacco 10D- 3T
	Q9 Source	Canal Water	Canal water	Canal water	Canal water	Surface
Fertilizers (Type- Quantity)	Q10 Availability	Yes	Yes	Yes	Yes	Yes
	Q11 Quality	Good	Good	Good	Good	Good
	Q12 Chemical	4	4	3.5	0.5	3.5
	Q13 Organic	8	12	0.5	0.5	10
Farm Economics (SP.)	Q24 Expenses	45,000	40,000	25,000	25,000	65,000
	Q22 & Q23 Income	140,000	100,000	110,000	15,000	200,000
	Profit	95,000	60,000	85,000	10,000	135,000
Compost	Q16 Knowledge	No	No	No	Yes	No
	Q17 Want to know in details	No	Yes	No	Yes	Yes
	Reasons for not purchasing	-	-	-	Very bad odor	-
Q18-1	Interest in purchasing	No, he produces organic fertilizer at his farm	No, he does not use organic fertilizer	No, he produces organic fertilizer at his farm	Yes	No, for bad odor
Q18-2	Possible purchased quantity (Ton)	-	-	-	1	-
	Possible paid price (SP)	-	-	-	350	-
Suggestions (for Compost)	Q25	No suggestion	No suggestion	The plant is bad for the environment	Writing the compost elements on the containers (bags)	Treating the bad odor
				Producing small containers (20-25Kg)		

Table 2.2.3 (6) Farmers Who Have Never Purchased Compost (continued)

Farm General Data	Owner Village	26	27	28	29	30
	Nadim Asefori Stammarkho	Esa Asefori Stammarkho	Safi Hiera Stammarkho	Feras Dibeh Stammarkho	Mohammad Motowaj Stammarkho	
Region	Lattakia	Lattakia	Lattakia	Lattakia	Lattakia	Lattakia
Area (Donom)*	35	20	30	45	30	
Soil Conditions	Q1 Land Origin Q2 Soil Type	Traditional farming White calcareous Red clay	Traditional farming White calcareous	Traditional farming White calcareous	Traditional farming Sandy soil	Traditional farming White calcareous
Crops	Q3 Soil Problem(s) Q4 cereal Q5 Vegetables	- - Pepper 1D- 0.5T	- - Citrus 2D- 1T	- - Citrus 3D-0.5T	- - Olive 2D- 0.5T	- - Wheat 3D- 0.6T
(kind- Area [Donom]- production[Ton])	Q6 Fruits Q7 Industrial	Citrus 2D- 1T Olive 3D0- 8T	Tobacco 1D-0.25T	-	Olive 2SD- 2T Olive 1SD- 7T	Pepper 2D- 1T Citrus 7D- seedlings
Irrigation	Q8 System Q9 Source	Surface Canal water	Surface Canal water	Non-irrigated	Tobacco 2d- 0.4T	Tobacco 4D- 1.2T
Fertilizers	Q10 Availability Q11 Quality	Yes Good	Yes Good		Non-irrigated Surface Ground water	Non-irrigated Surface Ground water
(Type- Quantity)	Q12 Chemical Q13 Organic	2 3	1 1	1 15	4.5 7	4.5 12
Farm Economics (SP.)	Q24 Expenses Q22 & Q23 Income Profit Loose	30,000 65,000 35,000 -	11,000 7,000 - 4,000	24,000 55,000 21,000 -	50,000 100,000 50,000 -	60,000 160,000 100,000 -
Compost	Q16 Knowledge Q19 Want to know in details Q17 Reasons for not purchasing Q18-1 Interest in purchasing	No yes -	No yes -	Yes yes Very bad Odor	No yes -	Yes yes Not always available
	Possible purchased quantity (Ton) Possible paid price (SP)	1 350	1 300	5 500	2 450	3 500
Suggestions (for Compost)	Q25	Inform the farmers about the production	No suggestion	Reduce the bad odor	Product enough quantity	Establishing distribution centers in the regions

APPENDIX 3

***COMPOST DEMAND SURVEY
(HOMS)***

APPENDIX 3 COMPOST DEMAND SURVEY (HOMS)

3.1 QUESTIONNAIRE

3.1.1 General Information

- Serial Number
- Owner
- Village
- Distance (Km) form 1. Dir Baalbeh_____
- 2. Maghlia_____
- Member of Agricultural Cooperative Society: Yes, _____ region
No
- Planted Area: _____ (Donom [1,000m²])

3.1.2 Soil Condition

(1) Land Origin [Q1]

- Reclaimed land, Traditional farming land

(2) Soil Type [Q2]

- Black calcareous , White calcareous, Red clay, Sandy soil, Others

(3) Soil problems (if any) [Q3]

- Fertility of soil , Salt accumulation, Fertilizer sustainability, Water sustainability
Others

3.1.3 Crop and Planted Area

(1) Cereal Crops [Q4]

- Wheat ,Barley, Rice, Maize, Lentil, Chickpea, Others

(2) Vegetables [Q5]

- Tomato, Marrow, Cabbage, Cauliflower, Lettuce, Green peas, Potato, Egg plant, Melon, Watermelon, Others

(3) Fruits [Q6]

- Citrus, Olive, Fig, Pomegranate, Guava, Apple, Apricot, Peach, Grape, Almond, Pears, Others

(4) Industrial [Q7]

- Cotton, Tobacco

3.1.4 Irrigation

(1) Irrigation system [Q8]

- Surface irrigation, Sprinkler irrigation, Drip irrigation, Others

(2) Irrigation Source [Q9]

- Canal Water, Groundwater, Both

(3) Water Availability [Q10]

- Yes
- No

(4) Water Quality [Q11]

- Good
- Bad (mention the troubles)

3.1.5 Fertilizer

(1) Chemical Fertilizer [Q12]

Type	Consumption per Year	Source	Price S.P./Ton
Nitrate			
Ammonium Sulfate			
Urea			
Phosphate			
Potash Sulfate			
Others			

(2) Organic Fertilizer [Q13]

Type	Consumption per Year	Source	Price S.P./Ton
Animal Manure	Cattle		
	Poultry		
	Ship		
Others			

(3) Do you know the compost (and its effects) produced from urban solid wastes at the Compost Plant in your country? [Q14]

- Yes
- No (skip to 5.6)

(4) Do you utilize the compost produced from urban solid wastes at the Compost Plant in your country? [Q15]

- Yes (Price SP/T -----; Quantity by Ton -----) (skip to 5.6)
- No

(5) What are the reasons why you do not use the compost? (after answering skip to 5.7) [Q16]

- Crops do not require
- High price
- Low availability
- Low quality of the compost
- Using other organic fertilizer
- Transportation problem (distance to the Compost Plant _____)
- Not applicable due to the irrigation system
- Others

(6) (After showing a sample of Damascus's plant compost) what are your opinion about this compost? [Q17]

(7) Do you want to know the effects of this compost in detail? [Q18]

- Yes
- No (skip to Q6.1)

(8) Do you want to use the compost if a new compost plant will be constructed in your municipality and production of the high quality and ample amount of compost will be secured in near future? [Q19]

- Yes
- No (skip to Q 6.1)

If Yes, how much do you want to buy? And How much do you prefer to pay for the above amount?

Quantity tons per year	Price (SP)	Quantity/Area [Donom]

3.1.6 Farm Management

(1) Annual income by agriculture activity _____ SP per year [Q20]

(2) Is there any subsidy you receive from government? [Q21]

- Yes _____ SP per year
- No

(3) Annual cost _____ SP per year [Q22]

3.1.7 Suggestions

Other suggestions to the compost plant (if any) [Q23]

3.2 SURVEY RESULTS

The survey results are shown in the following tables.

Table 3.2.1 (1) Farmers who are Purchasing Compost

No	Farm General Data	Owner	1	2	3	4	5
Soil Condition	Village	Aiman Ozl-Din	Helal Helal	Tammam Ozl-Din	Shadi Ozl-Din	Mohammad Ozzedin	
	Region	Al-Rastan	Al-Rastan	Al-Rastan	Al-Rastan	Talbiseh	
	Area (Donom)*	14	25	18	17	Al-Rastan	
	Land Origin	Traditional Farming	Traditional Farming	Traditional Farming	Traditional Farming	Traditional Farming	
(kind-[Donom]-production[Ton])	Q1 Soil Type	Sandy soil	Sandy soil	Sandy soil	Sandy soil	Sandy soil	
	Q2 Soil Problem(s)	-	-	-	-	-	
	Q3 cereal	Wheat – 3D -9T Cumin – 3D - 0.6T	-	Wheat – 4d – 12T Cumin – 4D – 1T	Wheat – 3D – 10T Cumin – 3D – 0.7 T	Aniseed – 5D – 1t	
	Q4 Vegetables	Cabbage – 2D – 2T Eggplant – 3D- 5T	-	Onion – 15D – 50T Sugar beet – 10D- 80t	Cabbage – 3D – 2T Eggplant – 3D – 5T	-	
Irrigation	Q5 Fruits	-	-	-	Pomegranate - 7D – 23T	Pomegranate 6D- 2T	
	Q6 Industrial	-	-	-	-	-	
	Q7 System	Surface	Surface	Surface	Surface	Surface	
	Q8 Source	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater &	
Fertilizers	Q9 Availability	Not sufficient	Sufficient	Not sufficient	Not sufficient	Non irrigated	
	Q10 Quality	Good	Good	Good	Good		
	Q11 Chemical	1.5	1	1.5	1.5		
	Q12 Organic	20	3	20	20		
Farm Economics (SP)	Q13 Income	250,000	300,000	250,000	200,000	300,000	
	Q14 Expenses	25,000	60,000	40,000	25,000	100,000	
	Q15 Profit	225,000	40,000	210,000	175,000	200,000	
	Q16 Loose	-	-	-	-	-	
Attitudes Toward Compost	Q17 Knowledge	No	No	No	No	No	
	Q18 Utilizing	-	-	-	-	-	
	Q19 Reasons for not purchasing	-	-	-	-	-	
	Q20 Opinion	Good	Fairly good	Good	Good	Good	
Suggestions (for Q23 Compost)	Q21 Interest in purchasing	Yes	Yes	Yes	Yes	Yes	
	Q22 Possible purchased quantity(Ton)	3	No decision	4	3	3	
	Q23 Establishing distribution centers	Establishing distribution centers	Compost must be tested	Establishing distribution centers	Establishing distribution centers	Establishing distribution centers	
						Good quality	

Table 3.2.1 (2) Farmers who are Purchasing Compost (continued)

No.	Farm General Data	Soil Condition	(kind-[Donom]- production[Ton])	Suggestions (for Q23 Compost)
1	Owner Village Region	Q1 Land Origin	6 Aniseed – 20D- 1.5T	Establish distribution centers
2	Village Al-Rastan	Q2 Soil Type	Abdullah Swees Talbiseh Al-Rastan	Establish centers
3	Region Area (Donom)*	Q3 Soil Problem(s)	Talbiseh 465 Traditional farming	distribution -
4	Area Q4 cereal	-	Al-Rastan 290 Traditional farming	Establishing centers
5	Q5 Vegetables	-	Al-Rastan 215 Traditional farming	Distribution centers
6	Q6 Fruits	Olive– 45D – (Young trees) -	Dark brown and red clay Dark brown and red clay	Traditional farming
7	Q7 Industrial	-	-	Traditional farming
8	Irrigation System	-	-	Dark brown
9	Q9 Source	Surface	7 Mosa Al-Yateem	Dark brown
10	Q10 Availability	Groundwater	Haidar Hwees	8
11	Q11 Quality	Not sufficient	Talbiseh	9
12	Fertilizers Quantity in Ton	Good	Al-Rastan	9
13	Q12 Chemical	Good	Al-Rastan	10
14	Q13 Organic	4	300,000	300,000
15	Farm Economics (SP.)	10	1,200,000	1,200,000
16	Q21- Expenses	20	300,000	300,000
17	Q22 Profit	20,000	1,000,000	1,000,000
18	Attitudes Toward Compost	400,000	200,000	200,000
19	Q14 Knowledge	-	-	-
20	Q15 Utilizing	Yes	Yes	No
21	Q16 Reasons for not purchasing	No	No	-
22	Q17 Opinion	Not available	-	-
23	Q18 Interest in purchasing	Good	Not available	-
24	Q19 Possible purchased quantity(Ton)	Yes	Good	No decision
25		20	Yes	Good
26			No (Has poultry farm)	No (Has poultry farm)
27			20T	Yes
28			-	5
29				Establishing distribution centers
30				Distribution centers

Table 3.2.1 (3) Farmers who are Purchasing Compost (continued)

No	11	12	13	14	15
Farm General Data	Owner	Ahamad Sattoof	Samer Al-Ali	Mohammad Al-Naem	Shadi Affan
Village	Shiha	Shiha	Shiha	Shiha	Shiha
Region	Al-Rastan	Al-Rastan	Al-Rastan	Al-Rastan	Al-Rastan
Area (Donom)*	24	52	54	51	100
Soil Condition	Q1	Traditional farming	Traditional farming	Traditional farming	Traditional farming
(kind-[Donom]-production[Ton])	Q2	Dark brown	Dark brown	Red clay	Red clay
Q3	-	-	-	-	-
Q4	cereal	Wheat – 10D- 5T	Wheat – 15D – 7T maize – 2D – 3T	Wheat – 20D – 10T	Wheat – 50D- 40T
Q5	Vegetables	Potato – 3D – 10T eggplant – 2D – 5T sugar beet – 2D – 20Tonion 3D – 10T	Potato – 5D – 15T cucumber – 2D – 3T sugar beet – 5D – 40T onion – 5d – 15T	Potato – 5D- 15T tomato – 2D- 5T cucumber – 2D- 5T onion – 5D – 15T Sugar beet – 10D – 90T	Potato – 2D – 4T haricot bean 5D – 5T sugar beet – 5D- 40T onion 2D – 6T
Q6	Fruits	-	-	-	-
Q7	Industrial	Cotton 4D- 2T	Cotton 8D – 4T tobacco – 10D – 5T	Cotton – 10D – 4T	Cotton – 7D- 3T tobacco – 10D – 4T
Irrigation	Q8	System	Surface	Sprinkles	Sprinkles
Q9	Source	Groundwater	Ground water	Ground water	Ground water
Q10	Availability	Sufficient	Sufficient	Sufficient	Sufficient
Q11	Quality	good	Good	Good	Good
Fertilizers	Quantity	4	4.5	4	5
in Ton	Chemical	10	20	20	5
Q13	Organic	150,000	300,000	400,000	250,000
Farm Economics (SP)	Q20	Income	40,000	100,000	150,000
Q21-	Expenses	110,000	200,000	250,000	100,000
Q22	Profit	-	-	-	100,000
Attitudes	Toward	Q14 Knowledge	No	No	No
Compost	Q15 Utilizing	-	-	-	-
Q16 Reasons for not purchasing	-	-	-	-	-
Q17 Opinion	Good	Good	Good	Good	Good
Q18 Interest in purchasing	Yes	No Decision (He has cattle farm)	Yes	Yes	Yes (after testing compost)
Q19 Possible purchased quantity(Ton)	4	-	8	6	10
Suggestions (for Q23 Compost)	Must be outside the region for bad odor	Establishing centers	Distribution centers	Establishing centers	Distribution centers

Table 3.2.1 (4) Farmers who are Purchasing Compost (continued)

No	16	17	18	19	20
Farm General Data	Owner	Ebrahim Abdoul Aziz	Talal Al-Terk	Ebrahim Mo' Alla	Ahmad Al-Botha
Village	Shihha	Ein Al-Naser	Tal Ward	Tal Ward	Tal Ward
Region	Al-Rastan	Al-Mokharram	Al-Mokharram	Al-Mokharram	Al-Mokharram
Area (Donom)*	21	185	100	330	300
Soil Condition	Q1	Traditional farming	Traditional Farming	Traditional Farming	Traditional Farming
(kind-[Donom]-production[Ton])	Q2	Sandy soil	White calcareous & Dark Brown	White calcareous & Dark Brown	White calcareous & Dark Brown
	Q3	Soil Problem(s)	-	High content of small rocks	-
	Q4	cereal	Cumin – 8D- 1.5T	Barely – 75D – 35T	Wheat – 40D- 5T
	Q5	Vegetables	Aniseed – 7D – 1.5T	Barely – 30D- 2T	Barely – 200D – 15T
	Q6	Fruits	Onion – 6D – 3T	-	-
	Q7	Industrial	-	Grape – 60D- 12T	Almond - 30D - (Young trees)
Irrigation	Q8	System	Non irrigated	Almond – 45D- (young trees)	Olive – 60D - (Young trees)
	Q9	Source	Drip	Olive – 10D - (Young trees)	Olive – 40D - (Young trees)
	Q10	Availability	Groundwater	Pomegranate – 2D – 1T	-
	Q11	Quality	Not sufficient	-	-
Fertilizers	Quantity	Q12	Brackish	Non Irrigated	Non Irrigated
in Ton		Chemical	0.6	-	-
Farm Economics (SP)	Q13	Organic	12	1.5	1
	Q20	Income	150,000	10,000	80,000
	Q21-	Expenses	40,000	-	-
	Q22	Profit	110,000	10,000	80,000
Attitudes Toward Compost	Q14	Knowledge	No	No	No
	Q15	Utilizing	-	-	-
	Q16	Reasons for not purchasing	-	-	-
	Q17	Opinion	No decision	Compost must be tested	Do not interest
	Q18	Interest in purchasing	No	Yes (after testing compost)	No
	Q19	Possible purchased quantity(Ton)	-	5	1
Suggestions (for Q23 Compost)		Compost must be tested	The site must be far for bad odor	Low price	-

Table 3.2.1 (5) Farmers who are Purchasing Compost (continued)

No	21	22	23	24	25
Farm General Data	Owner	Mohamad Milad	Mohamad Milad	Enad Tohme	Mahmoud Al-Khalil
Region	Village	Tal Al-Boza	Mokharram Fokani	Mokharram Fokani	Mokharram Fokani
	Al-Mokharram	Tal Ward	Al-Mokharram	Al-Mokharram	Al-Mokharram
	Area (Donom)*	560	110	60	100
	Land Origin	Traditional Farming	Traditional Farming	Traditional Farming	Traditional Farming
Soil Condition	Q1	White calcareous & Dark Brown	White calcareous & Dark Brown	White calcareous & Dark Brown	White calcareous & Dark Brown
(kind-[Donom]-production[Ton])	Q2	-	-	-	-
	Q3	Soil Problem(s)	-	-	-
Area Q4	cereal	Wheat – 150D – 6T barely - - 250D- 12T	-	-	-
	Q5	Vegetables	-	-	-
Q6	Fruits	Almond-120D-(Young trees) Olive – 40D- (Young trees)	Grape – 35D- 25T almond – 30T – 3T olive – 45D – (Young trees)	Almond – 20D- 2T olive – 40D – 2T	Almond – 5D- 1T olive – 15D – 1.5T
	Q7	Industrial	-	-	-
Irrigation	Q8	System	Non Irrigated	Irrigated by tankers three times a year	Irrigated by tankers three times a year
Farm Economics (SP.)	Q9	Source			Groundwater
	Q10	Availability			Not sufficient
	Q11	Quality			Good
Fertilizers Quantity in Ton	Q12	Chemical	1.3	2	1
Farm Economics (SP.)	Q13	Organic	1	6	3
	Q20	Income	100,000	75,000	10
	Q21-	Expenses	35,000	20,000	45,000
	Q22	Profit	100,000	65,000	50,000
Attitudes Toward Compost	Q14	Knowledge	Yes	No	No
	Q15	Utilizing	No	-	-
	Q16	Reasons for not purchasing	Crops do not need	-	-
	Q17	Opinion	Must be tested	Must be tested	Good
	Q18	Interest in purchasing	No	Yes	Yes
	Q19	Possible purchased quantity(Ton)	No decision	10	10
Suggestions (for Compost)	Q23	Compost with high quality	The site must be in the Ample quantities region	-	Compost with good quality

Table 3.2.1 (6) Farmers who are Purchasing Compost (continued)

No	26	27	28	29	30
Farm General Data	Owner Village Region Area (Donom)*	Younis Milad	Aboul-Kader Edris	Mamoun Al-Eter	Mosstafa Raed
		Mokharram Fogani	Al-Qusair	Al-Qusair	Al-Qusair
		Al-Mokharram	Al-Qusair	Al-Qusair	Al-Qusair
		70	65	3	43
Soil Condition	Q1	Land Origin	Traditional farming	Traditional farming	Traditional farming and reclaimed
(kind-[Donom]-production[Ton])	Q2	Soil Type	White calcareous & Dark Brown	White calcareous	White calcareous
	Q3	Soil Problem(s)	-	-	-
	Q4	Area cereal	-	Wheat – 20D – 8T maize – 10D – 3T	Wheat – 25D – 10T barely – 12D – 6T
	Q5	Vegetables	-	Potato – 15D – 25T cabbage – 5D – 25T tomato – 5D – 25T green Pea – 10D- 8T	Potato – 6D – 3T
	Q6	Fruits	Almond – 25D-2T olive– 45D-2T	Apple- 3D- 2T	Apple – 40D- 40T-
Irrigation	Q7	Industrial	-	-	-
	Q8	System	Non irrigated	Drip & sprinkle	Surface & drip
	Q9	Source	Groundwater	Groundwater	Groundwater
	Q10	Availability	Sufficient	Sufficient	Not Sufficient
Fertilizers	Q11	Quality	Good	Good	Good
Quantity in Ton	Q12	Chemical	2	0.2	2
	Q13	Organic	6	3	8
Farm Economics (SP)	Q20	Income	100,000	30,000	130,000
	Q21-	Expenses	30,000	150,000	50,000
	Q22	Profit	70,000	350,000	80,000
		Loose	-	-	-
Attitudes Toward Compost	Q14	Knowledge	No	Yes	No
	Q15	Utilizing	-	No	-
	Q16	Reasons for not purchasing	-	Not available	-
	Q17	Opinion	Good	Good	Good
	Q18	Interest in purchasing	Yes	Yes	Yes
	Q19	Possible purchased quantity(Ton)	10	12	3
Suggestions (for Compost)	Q23	Compost with good quality	Compost must be tested	Compost with good quality	Low price
					Low price

Table 3.2.1 (7) Farmers who are Purchasing Compost (continued)

No	31	32	33	34	35
Farm General Data	Owner	Mohamad Al-Zhoreih	Ahmed Rahmeh	Ahmed Mohammed Wajer	Othman Harba
	Village	Al-Qusair	Al-Qusair	A-Qusair	A-Qusair
	Region	Al-Qusair	Al-Qusair	A-Qusair	A-Qusair
	Area (Donom)*	14	5	70	100
Soil Condition	Q1 Land Origin	Traditional farming	Traditional farming and Reclaimed land	Traditional farming and Reclaimed	Traditional farming and Reclaimed land
	Q2 Soil Type	White calcareous	White calcareous	White Calcaceous	White Calcareous
	Q3 Soil Problem(s)	Salivation	-	-	-
	Q4 cereal	Wheat – 14D – 50T	-	Wheat – 50D – 20T	Wheat – 15 D – 3T
(kind-[Donom]-production[Ton])	Q5 Vegetables	-	Potato – 5D – 3T	Potato – 5D – 5T	barely – 10D – 3T
	Q6 Fruits	-	-	tomato – 15D – 10T	-
	Q7 Industrial	-	-	-	-
	Q8 System	Surface	Surface	Surface	Surface and Drip
Irrigation	Q9 Source	Groundwater	Groundwater	Groundwater	Surface canal & groundwater
	Q10 Availability	Sufficient	Sufficient	Not sufficient	Not sufficient
	Q11 Quality	Good	Good	Good	Good
	Q12 Chemical	5	5	4	2.5
Fertilizers Quantity in Ton	Q13 Organic	-	1	30	10
	Q20 Income	200,000	20,000	250,000	50,000
	Q21- Expenses	25,000	2,000	100,000	25,000
	Q22 Profit	175,000	18,000	150,000	25,000
Attitudes Toward Compost	Q14 Knowledge	No	No	No	No
	Q15 Utilizing	-	-	-	-
	Q16 Reasons for not purchasing	-	-	-	-
	Q17 Opinion	Good	Good	Good	Good
	Q18 Interest in purchasing	Yes(After testing compost)	Yes	Yes	Yes(after testing the compost)
	Q19 Possible purchased quantity(Ton)	3	2	12	18
	Suggestions (for Compost)	Compost must be tested	Site must be near the plant must be near the ample quantities region	The plant must be near the ample quantities region	The plant must be near the ample quantities region

Table 3.2.1 (8) Farmers who are Purchasing Compost (continued)

No	36	37	38	39	40
Farm General Data	Owner	Fakhri Majed Al-Din	Khaled Hamze	As'Ad Mansoor	Mostafa Msto
Village	A-Qusair	Al-Qusair	Qnaqieh	Asad Ramadhan	Al-Ghor
Region	A-Qusair	Al-Qusair	Talkalakh	Qnaqieh	Talkalakh
Area (Donom)*	25	40	125	250	65
Soil Condition	Q1	Traditional farming	Traditional farming	Reclaimed land	Reclaimed land
(kind-[Donom]-production[Ton])	Land Origin	White Calcareous	White calcareous	Black calcareous	Black and White calcareous
Q2	Soil Type	-	-	-	-
Q3	Soil Problem(s)	-	-	-	-
Q4	cereal	Wheat - 7D- 2T	Wheat - 20D- 6T	Wheat -25D - 7T	Wheat 30D - 4T
Q5	Vegetables	Potato - 5D - 2T Cabbage - 3D - 3T Red melon - 10D - 6T	Maize - 20 D- 6T	Barely - 30D - 8T	Barely - 5D - 1.5T
Q6	Fruits	-	-	-	Maize - 30D - 25T
Q7	Industrial	-	-	-	-
Irrigation	Q8	System	Drip	Grape - 15D - 25T Olive - 50D- (Young trees)	Grape 50D - 50T
Q9	Source	Groundwater	Groundwater	Olive - 150D - 10T	-
Q10	Availability	Not sufficient	Not sufficient	-	-
Q11	Quality	Good	Good	Non Irrigated	Non Irrigated
Fertilizers	Q12	Quantity	Chemical	Surface	
in Ton	Q13	Organic	0.5	Groundwater	
Farm Economics (SP)	Q20	Income	5	-	
Q21-	Q21-	Expenses	75,000	-	
Q22	Profit	25,000	30,000	-	
Attitudes	Q14	Toward	Loose	7	0.35
Compost	Q15	Knowledge	No	2	
Q16	Utilizing	-	No	3	-
Q17	Reasons for not purchasing	-	-	-	-
Q18	Opinion	Good	Good	Good	No decision
Q19	Interest in purchasing	Yes	Yes	Fairly good	No
Suggestions (for Compost)	Q23	Possible purchased quantity(Ton)	10	No Organic fertilizer in his farm)	No
		Low price	8	Yes	Yes
				-	20
				The plant must be near the region	-
				Plant must be outside the region	-

Table 3.2.1 (9) Farmers who are Purchasing Compost (continued)

No	41	42	43	44	45
Farm General Data	Owner	Abdou Frish	Nayef Baddour	Hoseen Al-Hoseen	Mohammad Al-Yousef
Village	Al Ghor	Sharqiyeh	Kafifaha	Kafifaha	Qasem Ahmad
	Talkalakh	Talkalakh	Talkalakh	Talkalakh	Kafifaha
	Area (Donom)*	40	80	75	72
	Area (Donom)- production[Ton]]	45	-	-	-
Soil Condition	Q1 Land Origin	Traditional farming reclaimed	Traditional farming and Traditional farming reclaimed	Traditional farming and Traditional farming reclaimed	Traditional farming and Traditional farming and sandy soil
(kind-[Donom]- production[Ton])	Q2 Soil Type	White and black calcareous	White calcareous	black calcareous and sandy soil	Black calcareous and sandy soil
	Q3 Soil Problem(s)	-	-	-	-
Q4	Q4 cereal	Wheat – 20D – 5T barely – 20D – 5T	Wheat 20D – 3T	Wheat – 35D – 16T barely – 35 D – 16T soya bean – 10 – 6T	Wheat – 30D – 12T barely – 30D – 12T soya Bean – 15D – 10T
	Q5 Vegetables	-	-	-	-
Irrigation	Q6 Fruits	-	Olive – 25D – 4T	-	-
	Q7 Industrial	-	-	-	-
Q8 System	Non irrigated	Non irrigated	Surface	Surface	Surface
	Q9 Source		Surface canal	Surface canal	Surface canal
Fertilizers	Q10 Availability		Not sufficient	Sufficient	Sufficient
	Q11 Quality		Good	Good	Good
Quantity in Ton	Q12 Chemical	0.5	0.25	1.5	1.2
Farm Economics (SP)	Q13 Organic	-	3	15	10
	Q20 Income	80,000	90,000	350,000	250,000
	Q21- Expenses	25,000	30,000	50,000	40,000
	Q22 Profit	55,000	60,000	300,000	260,000
Attitudes Toward Compost	Q14 Knowledge	Yes	No	No	No
	Q15 Utilizing	No	-	-	-
Q16 Reasons for not purchasing	Crops do not require	-	-	-	-
	Q17 Opinion	Good	Good	Good	Good
Q18 Interest in purchasing	No	No(Produce farm)	fertilizer at No(Produce farm)	fertilizer at No(Produce farm)	at No(produce fertilizer at his farm)
	Q19 Possible purchased quantity(Ton)	-	-	-	-
Suggestions (for Q23 Compost)	-	No need for the plant	No need for the plant	No need for the plant	No need for plant

Table 3.2.1 (10) Farmers who are Purchasing Compost (continued)

No	46	47	48	49	50
Farm General Data					
Owner	Abdoul Khaleq Simor	Ahmad Mohammad	Younes Al-Jadid	Aizan Khoori	Karim Sweed
Village	Kafiflaha	Kafiflaha	Kafiflaha	Al-Mozaineh	Al-Mozaineh
Region	Talkalakh	Talkalakh	Talkalakh	Talkalakh	Talkalakh
Area (Donom)*	35	30	28	65	200
Soil Condition					
Q1	Land Origin	Traditional farming	Traditional farming	Traditional farming	Traditional farming
Q2	Soil Type	Black calcareous and sandy soil	Black calcareous and sandy soil	Black calcareous and sandy soil	Red clay
Q3	Soil Problem(s)	-	-	-	-
(kind-[Donom]-production[Ton])	Q4	cereal	Wheat – 10D – 3T Barely – 10D – 3T Soya bean – 10D – 6T	Wheat – 10D – 3T Barely – 10D – 3T Soya bean – 10D – 6T	Wheat – 10D – 2T Barely – 10D – 2T Soya bean – 8D – 4T
Q5	Vegetables	-	-	-	-
Q6	Fruits	Olive – 5D – 2T	-	-	-
Q7	Industrial	-	-	-	Olive – 15D – 4T
Irrigation	Q8	System	Surface	Surface	-
Q9	Source	Surface canal	Surface canal	Non irrigated	Non irrigated
Q10	Availability	Sufficient	Sufficient		
Fertilizers	Q11	Quality	Good	Good	
Quantity in Ton	Q12	Chemical	75	0.75	0.5
Q13	Organic	9	4	-	1.5
Farm Economics (SP)	Q20	Income	130,000	120,000	150,000
	Q21-	Expenses	30,000	25,000	50,000
	Q22	Profit	100,000	95,000	100,000
Attitudes Toward Compost	Q14	Knowledge	No	No	No
	Q15	Utilizing	-	-	-
	Q16	Reasons for not purchasing	-	-	-
	Q17	Opinion	Good	Good	Very good
	Q18	Interest in purchasing	No (produce fertilizer at his farm)	Yes	Good
	Q19	Possible purchased quantity(Ton)	-	2	Yes
Suggestions (for Q23 Compost)		No need for plant	No need for plant	Plant must be far from region	Establishing distribution centers
			Ample quantities		

Table 3.2.1 (11) Farmers who are Purchasing Compost (continued)

No	51	52	53	54	55
Farm General Data	Owner	Haitham Asad	Ibrahim Akkari	Ibrahim Yousef	Anton Nader
Village	Al-Mozaineh	Al-Mozaineh	Al-Mozaineh	Rabah	Rabah
Region	Talkalakh	Talkalakh	Talkalakh	Talkalakh	Talkalakh
Area (Donom)*	22	140	52	10	15
Soil Condition	Q1	Traditional farming	Traditional farming	Traditional farming	Traditional farming
(kind-[Donom]-production[Ton])	Q2	Land Origin	Red clay	Dark brown and Black calcareous	Dark brown and Black calcareous
Q3	Soil Problem(s)	-	-	-	-
Q4	cereal	Wheat – 15D – 4T	Wheat – 60D – 20T	Wheat – 40D – 15T	-
Q5	Vegetables	-	-	-	-
Q6	Fruits	Grape – 2 D – 1T olive – 5D – 1T	Grape – 10D- 3T olive – 70D- 70T	Lemon – 2D – 2T olive – 10D – 3T	Grape – 4D- 1T apple – 5D – 5T
Q7	Industrial	-	-	-	-
Irrigation	Q8	System	Non irrigated	Surface	Surface
Q9	Source			Surface canal	Surface canal
Q10	Availability			Sufficient	Sufficient
Q11	Quality			Good	Good
Fertilizers	Quantity	Q12	Chemical	3	0.4
in Ton		Q13	Organic	1	0.6
Farm Economics	Q20	Income	65,000	150,000	7
(SP)	Q21-Q22	Expenses	10,000 55,000	50,000 100,000	100,000
Attitudes	Toward	Q14	Knowledge	No	No
Compost	Q15	Utilizing	-	-	No
	Q16	Reasons for not purchasing	-	-	-
	Q17	Opinion	Good	Good	Good
	Q18	Interest in purchasing	Very good No(Crops do not require)	No (hoes not need Organic Fer.)	Yes
	Q19	Possible purchased quantity(Ton)	-	18	2
Suggestions (for Q23 Compost)		-	Ample Quantities	-	Establishing distribution centers

Table 3.2.1 (12) Farmers who are Purchasing Compost (continued)

No	56	57	58	59	60
Farm General Data	Owner	Montajeab Abbas	Raf' At Abbod	Solayman Sharif	Rameh Awadh
Region	Village	Baidar Al-Rafee	Baidar Al-Rafee	Baidar Al-Rafee	Tean Al-Sabeel
	Region	Talkalakh	Talkalakh	Talkalakh	Talkalakh
	Area (Donom)*	30	40	100	12
	Soil Condition	Q1 Land Origin	Traditional farming	Traditional farming	Traditional farming
(kind-[Donom]-production[Ton])	Q2 Soil Type	Dark brown	Dark Brown	Dark Brown	Dark Brown & red clay
	Q3 Soil Problem(s)	-	-	-	-
	Q4 cereal	-	-	-	-
	Q5 Vegetables	-	-	-	-
Irrigation	Q6 Fruits	Apple -30D - 100T	Apple - 30D - 110T	Apple - 40D - 200T	Apple - 100D - 300T
	Q7 Industrial	-	-	-	-
	Q8 System	Non irrigated	Non irrigated	Non irrigated	Non irrigated
	Q9 Source				Surface canal
Fertilizers Quantity in Ton	Q10 Availability				Sufficient
	Q11 Quality				Good
	Q12 Chemical	2.5	1.25	4.5	0.5
	Q13 Organic	-	-	5	4
Farm Economics (SP)	Q20 Income	450,000	120,000	400,000	600,000
	Q21- Expenses	100,000	10,000	120,000	150,000
	Q22 Profit	300,000	110,000	280,000	450,000
	Loose	-	-	-	-
Attitudes Toward Compost	Q14 Knowledge	No	No	No	No
	Q15 Utilizing	-	-	-	-
	Q16 Reasons for not purchasing	-	-	-	-
	Q17 Opinion	Good	Good	Good	Very good
Suggestions (for Q23 Compost)	Q18 Interest in purchasing	Yes	Yes	Yes	Good
	Q19 Possible purchased quantity(Ton)	5	5	6	Yes
	Establishing distribution centers	Establishing distribution centers	Establishing distribution centers	Establishing distribution centers	Yes
					3

Table 3.2.1 (13) Farmers who are Purchasing Compost (continued)

No	61	62	63	64	65
Farm General Data	Owner	Elias Awad	Najji Assi	Solayman Sardeh	Ebrahim Msardeh
Village	Tleen Al-Sabeel	Tleen Al-Sabeel	Tleen Al-Sabeel	Al-Hwash	Al-Hwash
Region	Talkalakh	Talkalakh	Talkalakh	Talkalakh	Talkalakh
Area (Donom)*	10	15	50	35	75
Soil Condition	Q1	Land Origin	Traditional farming	Traditional farming	Traditional farming
(kind-[Donom]-production[Ton])	Q2	Soil Type	Dark brown and red clay	Dark brown and red clay	White calcareous and red clay
	Q3	Soil Problem(s)	-	-	-
	Q4	cereal	-	-	-
	Q5	Vegetables	-	-	-
	Q6	Fruits	Apple – 10D – 16T	Apple – 15 – 20T	Apple – 50D – 50T
Irrigation	Q7	Industrial	-	-	Tobacco – 15D – 4T
	Q8	System	Surface	Surface	Sprinkle and drip
	Q9	Source	Surface canal	Surface canal	Groundwater
	Q10	Availability	Sufficient	Sufficient	Sufficient
Fertilizers	Q11	Quality	Good	Good	Good
in Ton	Q12	Chemical	1	0.5	1
	Q13	Organic	5	15	25
Farm Economics	Q20	Income	160,000	200,000	220,000
(SP)	Q21-Q22	Expenses	25,000	50,000	100,000
		Profit	135,000	150,000	150,000
		Loose	-	-	-
Attitudes	Toward	Q14 Knowledge	No	No	Yes
Compost	Q15 Utilizing	-	-	No	No
	Q16 Reasons for not purchasing	-	-	Do not no its real effects	Do not its real effects
	Q17 Opinion	Very good	Very good	Good	Good
	Q18 Interest in purchasing	Yes	Yes	Yes	Yes if it tested to be good
	Q19 Possible purchased quantity(Ton)	2	3	7	No decision
Suggestions (for Q23 Compost)		Establishing distribution centers	Ample quantities	Low price	Compost must be tested
				No decision	No decision

Table 3.2.1 (14) Farmers who are Purchasing Compost (continued)

No	66	67	68	69	70
Farm General Data	Owner	Jamil Msardeh	Soheil khouri	Mtanious Makhkhol	Elias Safar
	Village	Al-Hwash	Al-Moshrefeh	Zaidal	Attalah Kassab
	Region	Talkalakh	Homs	Homs	Zaidal
	Area (Donom)*	45	15	90	1180
Soil Condition	Q1	Land Origin	Traditional farming	Reclaimed land	Traditional farming & reclaimed
	Q2	Soil Type	White calcareous and red clay	Dark brown	Dark brown and red clay
(kind-Area [Donom]-productio n[Ton])	Q3	Soil Problem(s)	-	-	-
	Q4	cereal	-	-	-
	Q5	Vegetables	Potato – 10D – 1T	Potato – 2D – 0.5T	Barely – 14D – 2T
	Q6	Fruits	Olive – 30D – 15T	Olive – 6D – 2T	Eggplant – 1D- 3T
Irrigation	Q7	Industrial	Tobacco – 5D – 1T	Tobacco – 2D – 0.4T	Wheat – 200D- 80T
	Q8	System	Sprinkle and drip	Sprinkle and drip	Potato – 50D – 50T
	Q9	Source	Groundwater	Groundwater	Cabbage – 40D – 100T
	Q10	Availability	Sufficient	Not sufficient	Tomato – 400D- 3000T
Fertilizers	Q11	Quality	Good	Good	Green pea – 60D- 400T
	Q12	Chemical	1	0.5	Water melon – 50D – 400T
	Q13	Organic	10	2	Sugar beet – 80D- 400T
	Q20	Income	300,000	120,000	Almond – 250D-(Young trees)
Farm Economics (SP)	Q21-	Expenses	100,000	25,000	Peach – 20D – 40T
	Q22	Profit	200,000	95,000	-
		Loose	-	-	-
			-	-	-
Attitudes Toward Compost	Q14	Knowledge	No	Yes	No
	Q15	Utilizing	-	No	-
	Q16	Reasons for not purchasing	-	Do not know its real effects	Not available
	Q17	Opinion	Good	Good	Good
	Q18	Interest in purchasing	Yes	Yes	Yes
	Q19	Possible purchased quantity(Ton)	5	1	3
Suggestions (for Q23 Compost)		Good quality	Good quality	Plant must be far from the region	Establishing distribution centers

Table 3.2.1 (15) Farmers who are Purchasing Compost (continued)

No	71	72	73	74	75
Farm General Data	Owner	Jorjos Kassab	Nadecem Al-Dakhil	Mittanous Dakhil	Fares Abdou Aziz
Village	Zaidal	Fairouzeh	Fairouzeh	Fairouzeh	Fairouzeh
	Homs	Homs	Homs	Homs	Homs
	123	12	12	10	50
	Area (Donom)*	Land Origin	Traditional farming & Traditional farming	Traditional farming	Traditional farming
Soil Condition	Q1	Traditional reclaimed			
(kind-[Donom]-production[Ton])	Q2	Dark brown	Red clay	Red clay	Red clay
	Q3	-	-	-	-
	Q4	Wheat – 40D – 8T	-	-	-
Q5	Vegetables	Potato – 20D – 40T cabbage – 5D – 20T cauliflower – 5D – 35T eggplant – 3D- 4T	-	-	-
Q6	Fruits	Almond – 40D – 35T olive – 15D - 3T	Olive – 12D – 6T	Grape – 6D – 10T almond – 6D – 3T	Olive –10D – 4T
Q7	Industrial	-	-	-	-
Irrigation	Q8	Sprinkle	Drip	Drip	Non irrigated
Farm Economics (SP.)	Q9	Source	Groundwater	Groundwater	
	Q10	Availability	Not sufficient	Sufficient	
	Q11	Quality	Good	Good	
Fertilizers	Quantity in Ton	Q12	Chemical	0.3	0.5
Attitudes Toward Compost	Q13	Organic	2	5	6
	Q20	Income	200,000	120,000	180,000
	Q21-	Expenses	50,000	25,000	60,000
Suggestions (for Q23 Compost)	Q22	Profit	150,000	95,000	120,000
	Q14	Knowledge	-	-	-
	Q15	Utilizing	No	No	No
	Q16	Reasons for not purchasing	Not available	-	-
	Q17	Opinion	Good	Good	Good
	Q18	Interest in purchasing	Yes	Yes	Yes
	Q19	Possible purchased quantity(Ton)	15	4	4
		Low price	Good quality	Plant far from region for bad odor	Establishing distribution centers

Table 3.2.1 (16) Farmers who are Purchasing Compost (continued)

No	76	77	78	79	80
Farm General Data					
Owner	Abdoul Karim Hosari	Rajeh Mathla	Harii Mathla	Mosa Rablawe	Esa Al-Tarsha
Village	Fairouzeh	Qattineh	Qattineh	Qattineh	Qattineh
Region	Homs	Homs	Homs	Homs	Homs
Area (Donom)*	50	10	30	32	23
Soil Condition					
Q1	Land Origin	Traditional farming	Traditional farming	Traditional farming	Traditional farming
Q2	Soil Type	Red clay	Silt	Silt	Dark brown
Q3	Soil Problem(s)	-	-	-	-
(kind-[Donom]-production[Ton])	Q4	cereal	-	Wheat – 1SD – 5T	Wheat – 13D – 2T
Q5	Vegetables	-	Potato – 7D – 4T	Potato – 15D – 5T	Barely – 6D – 2T
Q6	Fruits	-	Haricot bean – 3D – 2T	Cabbage – 2D – 6T	Sugar beet – 5D – 8T
Q7	Industrial	Almond – 5D – 5T	-	-	-
Irrigation	Q8	System	Non irrigated	Sprinkle	Sprinkle
Q9	Source		Ground water	Ground water	Ground water
Q10	Availability		Sufficient	Sufficient	Sufficient
Q11	Quality		Good	Good	Good
Fertilizers	Quantity	Q12	Chemical	1	1.2
in Ton				2.2	2
Farm Economics	Q13	Organic	5	12	12
(SP.)	Q20	Income	90,000	110,000	150,000
	Q21-	Expenses	15,000	40,000	50,000
	Q22	Profit	75,000	70,000	100,000
		Loose	-	-	-
Attitudes	Toward	Q14	Knowledge	No	Yes
Compost	Q15	Utilizing	-	No	No
	Q16	Reasons for not purchasing	-	Do not know its real effects	Not available
	Q17	Opinion	Good	Must be tested	Must be tested
	Q18	Interest in purchasing	Yes	Yes (After testing compost)	Good
	Q19	Possible purchased quantity(Ton)	5	3	Yes (After testing compost)
Suggestions (for Q23 Compost)		Establishing centers	distribution	Compost must be tested	No decision
				8	-
				3	5
				Compost must be tested	Compost must be tested
					Compost must be tested

APPENDIX 4

***PUBLIC AWARENESS CAMPAIGN
ON ENVIRONMENT (LATTAKIA)***

APPENDIX 4 PUBLIC AWARENESS CAMPAIGN ON ENVIRONMENT (LATTAKIA)

Refer to Part IV Pilot Study, Section 2 Public Awareness Campaign.