

JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)

NO. 12

NICARAGUA INSTITUTE OF MUNICIPALITY  
FORMATION (INFOM)  
THE REPUBLIC OF NICARAGUA

社会開発調査部報告書

**THE STUDY ON  
THE IMPROVEMENT OF  
URBAN SANITATION ENVIRONMENT  
OF  
PRINCIPAL CITIES  
IN  
THE REPUBLIC OF NICARAGUA  
(LEON, CHINANDEGA, AND GRANADA)**

**FINAL REPORT**

**VOLUME V**

**DATA BOOK**

**JANUARY 1998**

LIBRARY



J 1142058 (5)

**KOKUSAI KOGYO CO., LTD.**

SSS

JR

98-002



JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)

NICARAGUA INSTITUTE OF MUNICIPALITY  
FORMATION (INIFOM)  
THE REPUBLIC OF NICARAGUA

**THE STUDY ON  
THE IMPROVEMENT OF  
URBAN SANITATION ENVIRONMENT  
OF  
PRINCIPAL CITIES  
IN  
THE REPUBLIC OF NICARAGUA  
(LEON, CHINANDEGA, AND GRANADA)**

**FINAL REPORT**

**VOLUME V**

**DATA BOOK**

**JANUARY 1998**

**KOKUSAI KOGYO CO., LTD.**



The Study on the Improvement  
of Urban Sanitation Environment of Principal Cities  
in the Republic of Nicaragua  
(Leon, Chinandega, and Granada)

**List of Volumes**

- Volume I     Executive Summary
- Volume I(S)     Executive Summary (Spanish Version)
- Volume II     Main Report for the M/P and Conceptual M/Ps
- Volume II(S)     Main Report for the M/P and Conceptual M/Ps (Spanish Version)
- Volume III     Main Report for the Feasibility Study
- Volume III(S)     Main Report for the Feasibility Study (Spanish Version)
- Volume IV     Annex
- Volume V     Data Book

***This is the Data Book.***



1142058(5)

## Contents

	Page:
<b>1. Data and Survey Form of the Public Opinion Survey</b>	<b>1-1</b>
<b>2. Data of the Waste Amount and Composition Survey</b>	<b>2-1</b>
<b>3. Data and Survey Form of the Industrial Waste Management Survey</b>	<b>3-1</b>
<b>4. Data of the Medical Waste Management Survey</b>	<b>4-1</b>
<b>5. Data and Survey Form of the Inundation Damage Survey</b>	<b>5-1</b>
5.1 Questionnaire for Inundation Damage Survey.....	5-1
5.2 Precipitation Data and Rain Intensity Curve for Leon.....	5-8
5.3 Precipitation Data and Rain Intensity Curve for Chinandega.....	5-13
5.4 Precipitation Data and Rain Intensity Curve for Granada.....	5-18
<b>6. Data and Survey Form of the Pilot Projects Questionnaire Surveys</b>	<b>6-1</b>
6.1 Questionnaire Survey for Beautify Granada Campaign.....	6-1
6.2 Questionnaire Survey for Experiment on Improvement of Refuse Collection System....	6-21
6.3 Questionnaire Survey for Experiment on Improvement Arroyo Zacateligue Sanitation Environment.....	6-34
6.4 Questionnaire Survey for Experiment on Sanitary Landfill Operation at La Joya Disposal Site.....	6-45
6.5 Questionnaire Survey for Experiment on DWW Collective Treatment System.....	6-56
<b>7. Data and Drawings of F/S-1: Municipal SWM System Improvement Project</b>	<b>7-1</b>
<b>8. Data and Drawings of the Environmental Impact Assessment for SJV Site</b>	<b>8-1</b>
8.1 MARENA's TOR.....	8-1
8.2 Geological Survey Data.....	8-12
8.2.1 Stratigraphic Columns of the Boring.....	8-12
8.2.2 Structural Plan of the Soil.....	8-19
8.2.3 Granulometric Graphics.....	8-20
8.2.4 Optimum Moisture Content Curves.....	8-30
8.2.5 Original Laboratory Data.....	8-40
8.2.6 In-situ Permeability Test Data.....	8-49
8.2.7 Pictures of Geological Survey.....	8-52

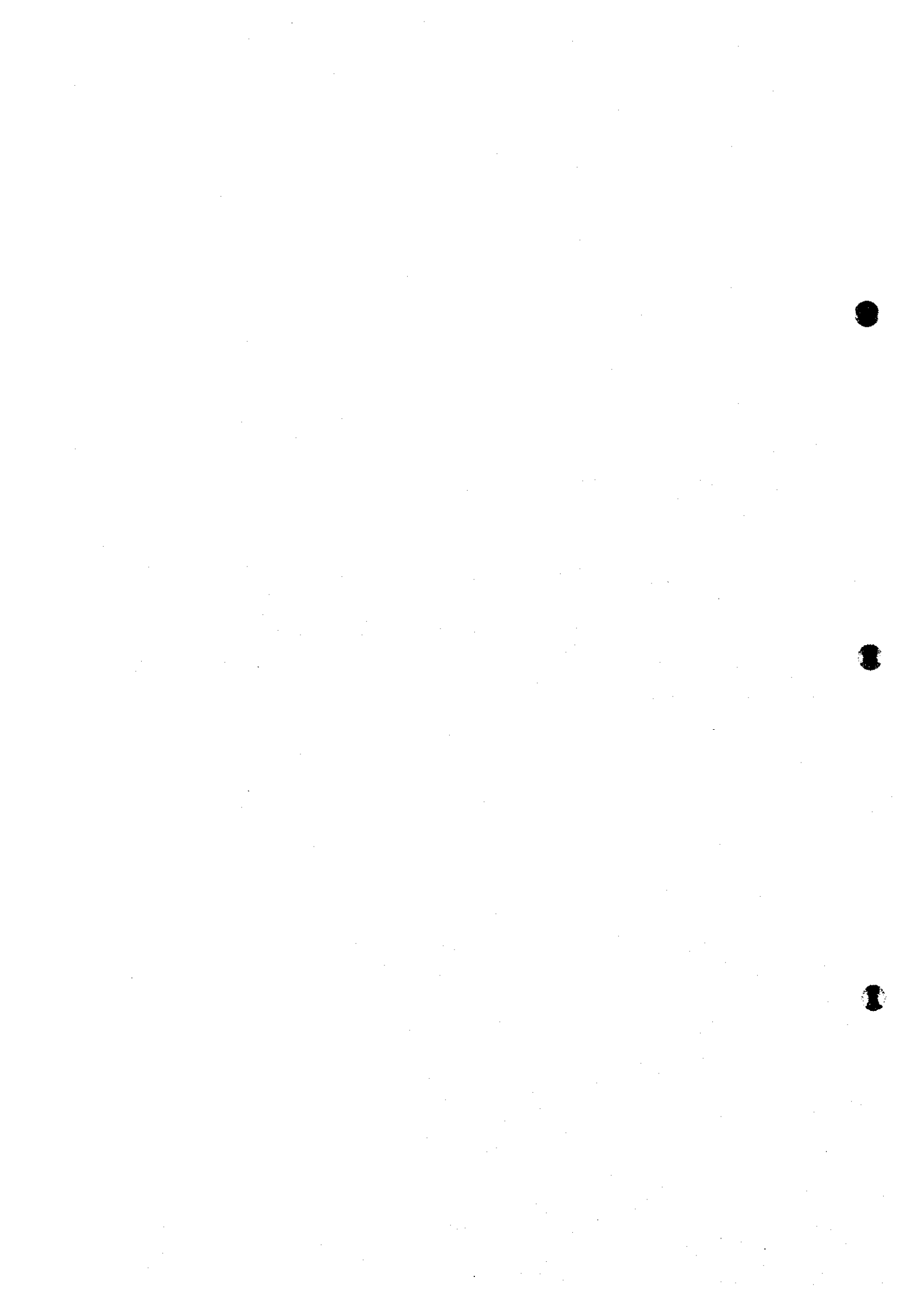
8.3 Soil Characteristic Survey.....	8-58
8.3.1 Photos of Soil Profiles.....	8-58
8.4 Topographic Survey .....	8-59
8.4.1 Topographic Maps of the San Jose de la Viuda Site.....	8-59
8.4.2 Route Survey Maps.....	8-61
8.5 Hydrogeological Survey .....	8-65
8.5.1 Hydrogeological Profile of SJV Site .....	8-65
8.6 Air Quality Survey.....	8-67
8.7 Noise and Vibration Survey .....	8-73
8.8 Traffic Volume Survey .....	8-80
8.9 Flora Survey.....	8-82
8.10 Fauna Survey.....	8-96
<b>9. Data and Drawings of F/S-2: Model Community Integrated USE     Improvement Project</b>	<b>9-1</b>



# **DATA 1**

---

*Data and Survey Form of  
the Public Opinion Survey*



## QUESTIONS AND OUTCOME OF PUBLIC OPINION SURVEY

### Urban Sanitation Environment (USE)

*Good Morning/Afternoon, I am an interviewer for JICA Study Team. We are conducting a public opinion survey on environmental matters. This information will be used for an environmental improvement plan in Nicaragua. Your opinion is confidential. Would you be so kind as to answer me a few questions? Thank you very much.*

Date : \_\_\_\_\_ Sample code : (Leon/Chi/Gra)-(Urb/Semi-Urb/C)-(\_\_\_\_)

Interviewer's Name : \_\_\_\_\_

Interviewee's Name : \_\_\_\_\_

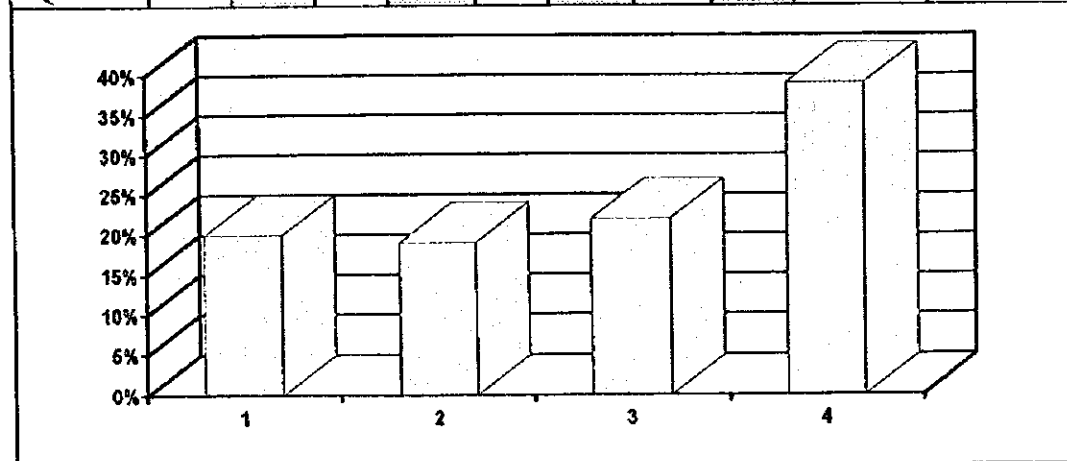
Sample Address (Location) : \_\_\_\_\_

#### 1. General Consciousness on USE

1.-Q-1 What do you think about the present sanitary conditions in your area?

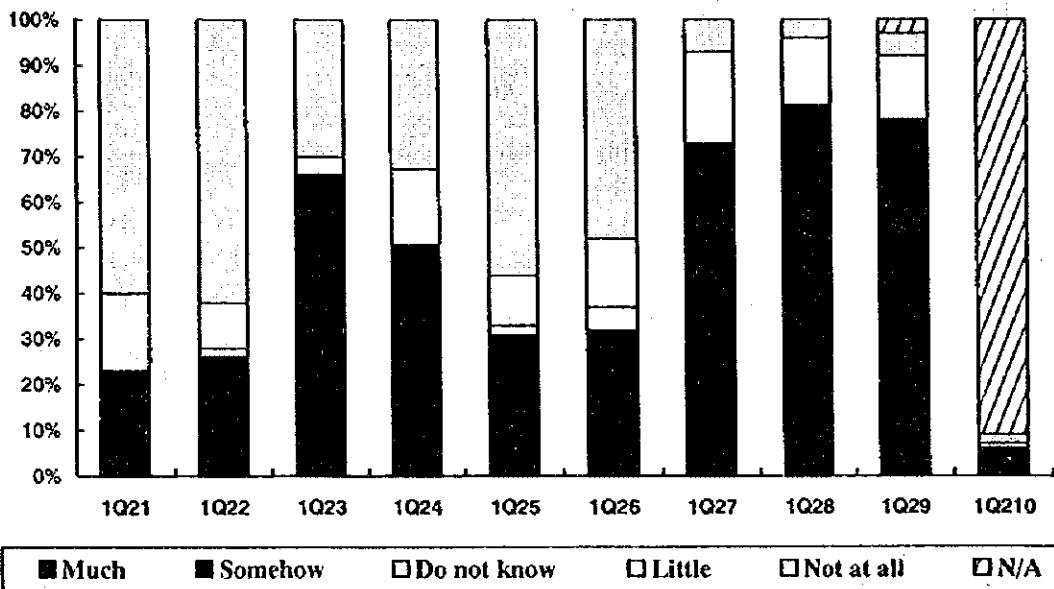
Answer	
1.	Very good
2.	There are some problems but the situation is reasonably good.
3.	There are problems
4.	Very problematic
5.	Others (please specify):

Question	Answer				Total	%
	1	2	3	4		
1-Q-1	49	46	52	93	240	100%

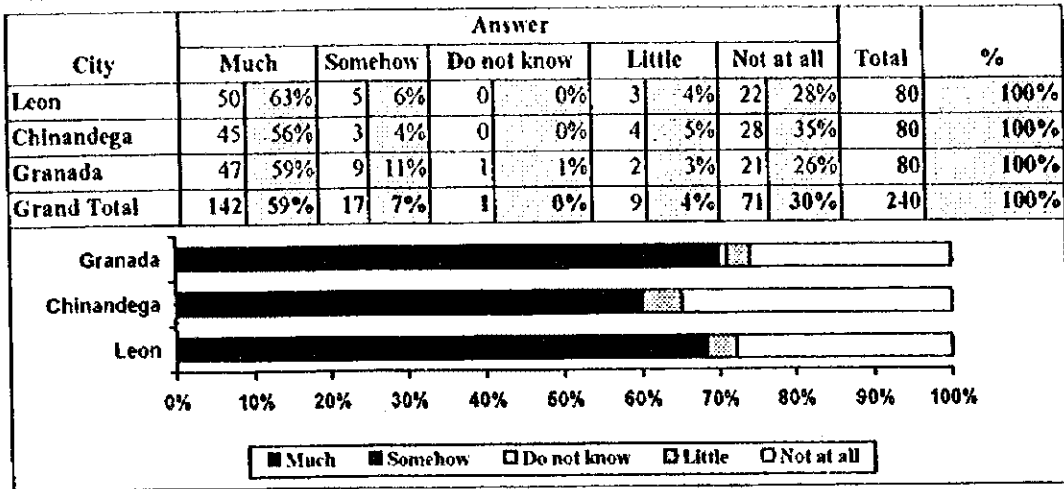


1.-Q-2 How much do these environmental problems affect your daily life?

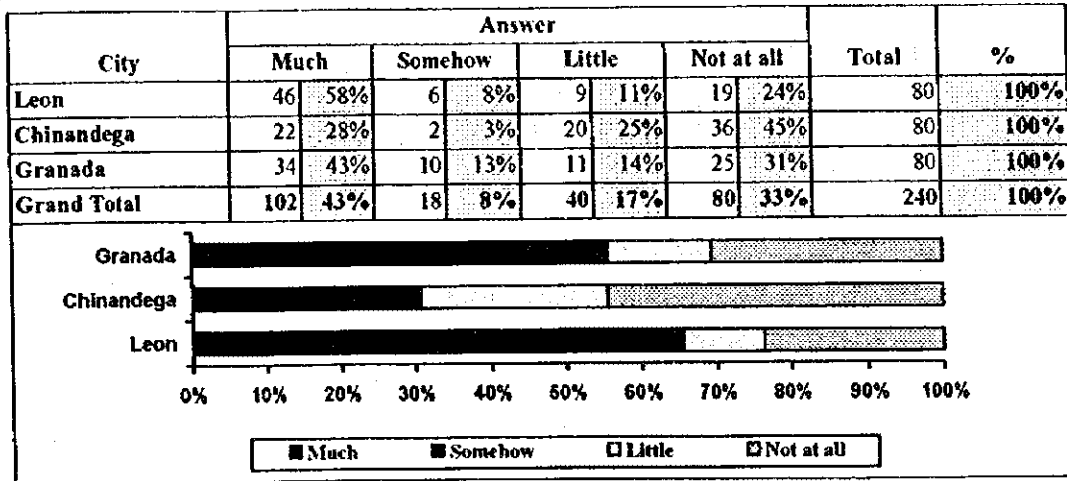
Question	Answer												Total	%
	Much		Somehow		Do not know		Little		Not at all		N/A			
1Q21- Water (lack of water supply)	45	19%	10	4%	0	0%	41	17%	143	60%	1	0%	240	100%
1Q22- Water (contamination of drinking water)	46	19%	17	7%	4	2%	25	10%	148	62%	0	0%	240	100%
1Q23- Waste water	142	59%	17	7%	1	0%	9	4%	71	30%	0	0%	240	100%
1Q24- Solid waste	102	43%	18	8%	0	0%	40	17%	80	33%	0	0%	240	100%
1Q25- Inundation	62	26%	13	5%	5	2%	26	11%	134	56%	0	0%	240	100%
1Q26- Noise	69	29%	7	3%	13	5%	36	15%	114	48%	1	0%	240	100%
1Q27- Insects (flies)	159	66%	14	6%	1	0%	49	20%	17	7%	0	0%	240	100%
1Q28- Insects (mosquito)	179	75%	16	7%	0	0%	35	15%	10	4%	0	0%	240	100%
1Q29- Insects (cockroaches) and rats	176	73%	12	5%	0	0%	33	14%	13	5%	6	3%	240	100%
1Q210- Other (please specify)	14	6%	0	0%	1	0%	2	1%	5	2%	218	91%	240	100%



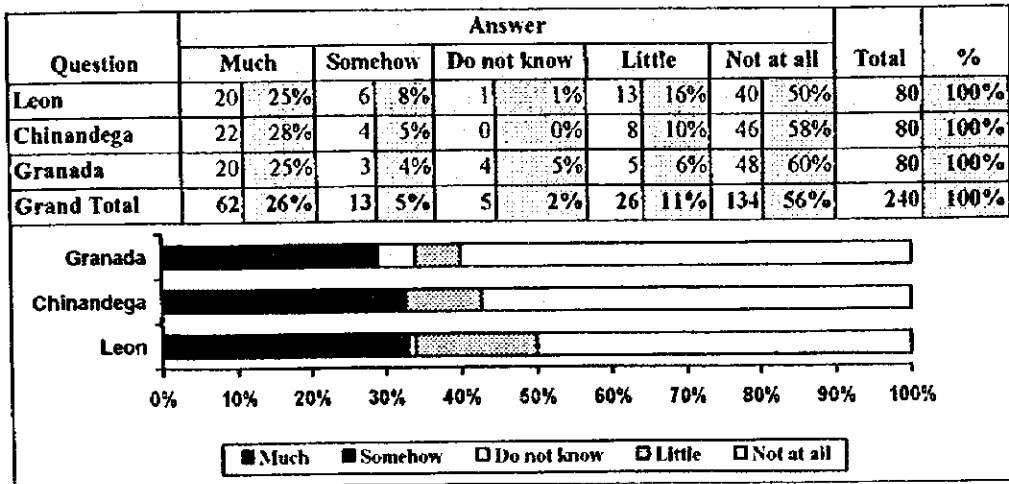
**IQ23- Waste water**



**IQ24- Solid waste**



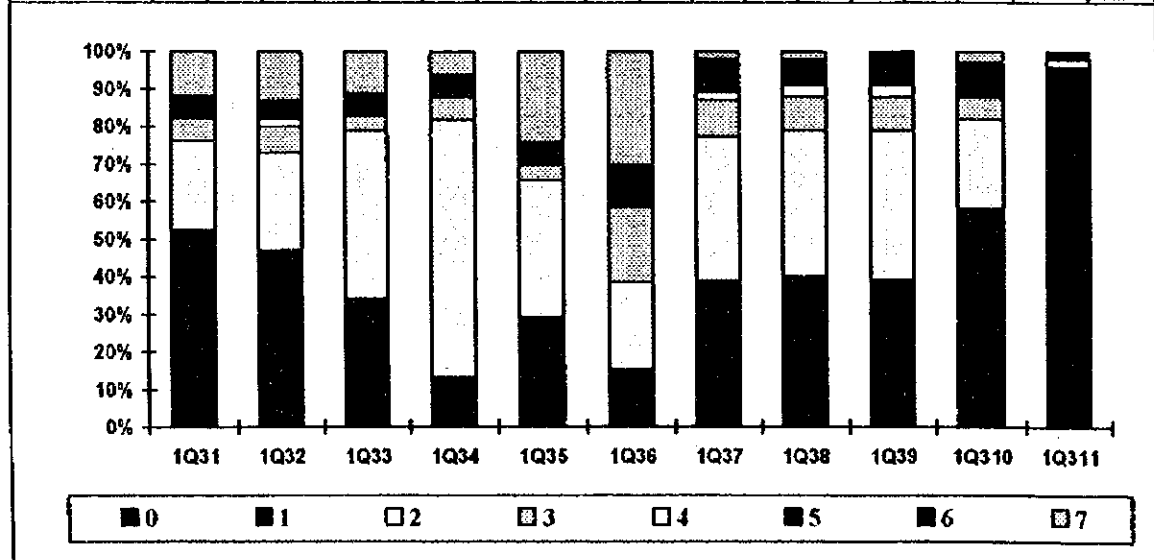
**Q1205- Inundation**



1.-Q-3 Who has the main responsibility for the existence of each environmental problem?

Question	Answer
IQ31- Water (lack of water supply)	0. N/A
IQ32- Water (contamination of drinking water) ]	1. Government
IQ33- Waste water	2. Municipalities
IQ34- Solid waste	3. Citizens
IQ35- Inundation	4. Polluters
IQ36- Noise	5. All
IQ37- Insects (flies)	6. Other
IQ38- Insects (mosquito)	7. Do not know
IQ39- Insects (cockroaches) and rats	
IQ310- Lack of environmental education	
IQ311- Other	

Question	Answer														Total	%
	0	1	2	3	4	5	6	7								
IQ31	1 0%	127 53%	57 24%	14 6%	0 0%	11 5%	2 1%	28 12%	240	100%						
IQ32	1 0%	112 47%	62 26%	16 7%	5 2%	13 5%	0 0%	31 13%	240	100%						
IQ33	1 0%	81 34%	108 45%	10 4%	3 1%	11 5%	0 0%	26 11%	240	100%						
IQ34	1 0%	31 13%	164 68%	15 6%	3 1%	11 5%	0 0%	15 6%	240	100%						
IQ35	1 0%	69 29%	87 36%	10 4%	1 0%	12 5%	2 1%	58 24%	240	100%						
IQ36	1 0%	37 15%	55 23%	47 20%	1 0%	27 11%	1 0%	71 30%	240	100%						
IQ37	1 0%	93 39%	94 39%	23 10%	5 2%	18 8%	2 1%	4 2%	240	100%						
IQ38	1 0%	95 40%	94 39%	22 9%	6 3%	17 7%	1 0%	4 2%	240	100%						
IQ39	1 0%	93 39%	95 40%	22 9%	7 3%	18 8%	1 0%	3 1%	240	100%						
IQ310	15 6%	124 52%	57 24%	14 6%	1 0%	18 8%	3 1%	8 3%	240	100%						
IQ311	228 95%	3 1%	4 2%	2 1%	0 0%	2 1%	0 0%	1 0%	240	100%						



1.-Q-4 Who should cope with and solve each of these environmental problems, in the first place? And in the second place?

Question	Answer
1Q41. Water (lack of water supply)	0. N.A
1Q42. Water (contamination of drinking water)	1. Government
1Q43. Waste water	2. Municipalities
1Q44. Solid waste	3. Citizens
1Q45. Inundation	4. Polluters
1Q46. Noise	5. All
1Q47. Insects (flies)	6. Other
1Q48. Insects (mosquito)	7. Do not know
1Q49. Insects (cockroaches) and rats	
1Q410. Lack of environmental education	
1Q411. Other	

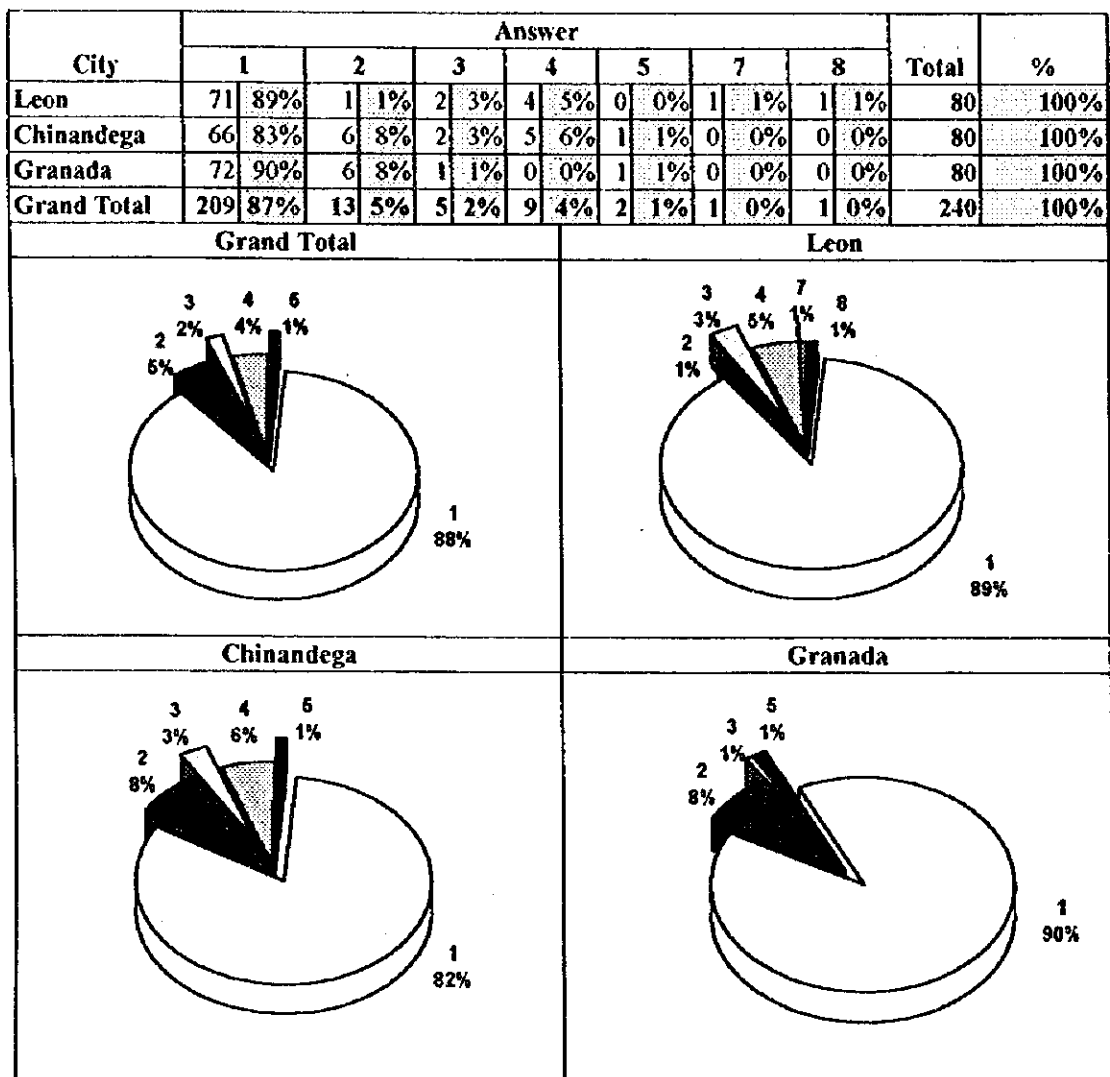
Question	Answer(First Place)														Total	%		
	0(N.A)	1		2		3		4		5		6		7				
1Q41	0	0%	135	65%	53	22%	11	5%	0	0%	4	2%	0	0%	17	7%	240	100%
1Q42	0	0%	141	59%	52	22%	16	7%	2	1%	6	3%	1	0%	22	9%	240	100%
1Q43	0	0%	109	45%	103	43%	7	3%	1	0%	5	2%	0	0%	15	6%	240	100%
1Q44	0	0%	65	27%	143	60%	15	6%	3	1%	7	3%	0	0%	7	3%	240	100%
1Q45	0	0%	87	36%	81	34%	11	5%	3	1%	15	6%	1	0%	42	18%	240	100%
1Q46	0	0%	59	25%	46	19%	40	17%	4	2%	29	12%	0	0%	62	26%	240	100%
1Q47	0	0%	126	53%	72	30%	32	13%	2	1%	6	3%	0	0%	2	1%	240	100%
1Q48	0	0%	129	54%	74	31%	29	12%	2	1%	6	3%	0	0%	0	0%	240	100%
1Q49	0	0%	129	54%	74	31%	29	12%	2	1%	6	3%	0	0%	0	0%	240	100%
1Q410	6	3%	145	60%	53	22%	14	6%	0	0%	15	6%	3	1%	4	2%	240	100%
1Q411	225	94%	4	2%	5	2%	3	1%	0	0%	2	1%	0	0%	1	0%	240	100%

Question	Answer(Second Place)														Total	%		
	0(N.A)	1		2		3		4		5		6		7				
1Q41	19	8%	36	15%	135	56%	40	17%	0	0%	5	2%	1	0%	4	2%	240	100%
1Q42	22	9%	31	13%	124	52%	45	19%	6	3%	7	3%	1	0%	4	2%	240	100%
1Q43	14	6%	61	25%	99	41%	50	21%	2	1%	6	3%	2	1%	6	3%	240	100%
1Q44	8	3%	61	25%	79	33%	71	30%	13	5%	7	3%	0	0%	1	0%	240	100%
1Q45	43	18%	43	18%	84	35%	54	23%	1	0%	11	5%	1	0%	3	1%	240	100%
1Q46	56	23%	23	10%	65	27%	62	26%	4	2%	19	8%	3	1%	8	3%	240	100%
1Q47	2	1%	45	19%	92	38%	73	30%	11	5%	12	5%	0	0%	5	2%	240	100%
1Q48	1	0%	47	20%	91	38%	73	30%	11	5%	12	5%	0	0%	5	2%	240	100%
1Q49	1	0%	45	19%	92	38%	73	30%	12	5%	12	5%	0	0%	5	2%	240	100%
1Q410	8	3%	39	16%	103	43%	59	25%	3	1%	20	8%	4	2%	4	2%	240	100%
1Q411	227	95%	4	2%	3	1%	2	1%	0	0%	2	1%	0	0%	2	1%	240	100%

2. Present Situation of Public Services related to USE

2.-Q-1 How do you get water you need for daily life ? (plural answer question)

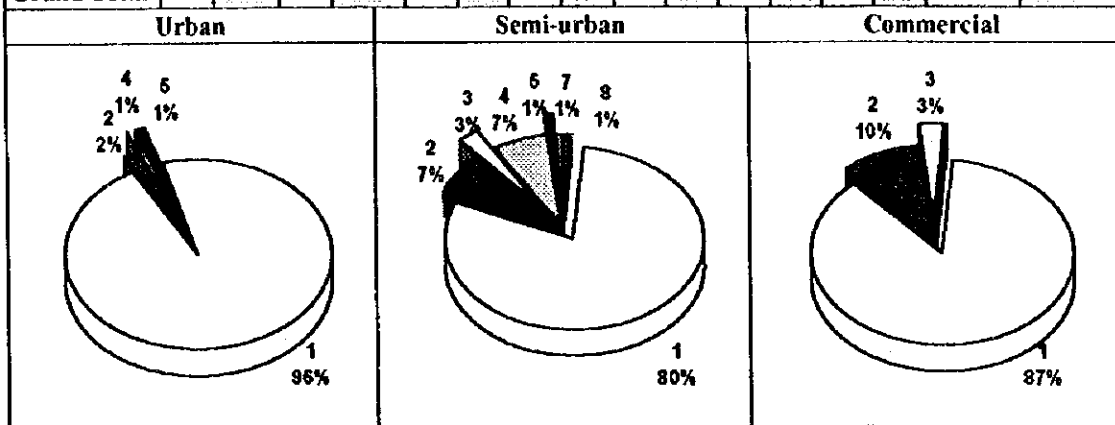
Answer	
1. Water supply tap(s) in my house.	5. From water seller.
2. A communal water supply tap in my area.	6. Carrying water from leaking points of water pipe.
3. Communal well/groundwater.	7. Rain water, river water
4. Private well/groundwater.	8. Others (please specify):



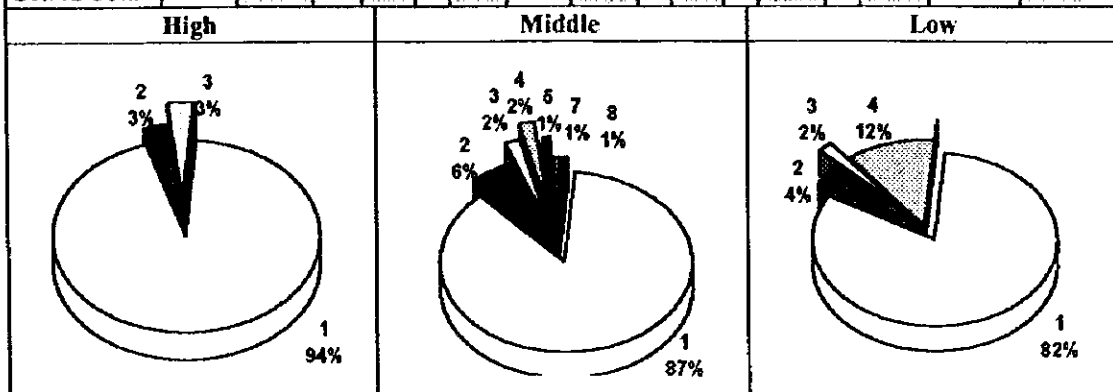


Answer	
1. Water supply tap(s) in my house.	5. From water seller.
2. A communal water supply tap in my area.	6. Carrying water from leaking points of water pipe.
3. Communal well/groundwater.	7. Rain water, river water
4. Private well/groundwater.	8. Others (please specify):

Sampling Area	Answer								Total	%						
	1	2	3	4	5	7	8									
Urban	86	96%	2	2%	0	0%	1	1%	1	1%	0	0%	0	0%	90	100%
Semi-Urban	97	81%	8	7%	4	3%	8	7%	1	1%	1	1%	1	1%	120	100%
Comercial	26	87%	3	10%	1	3%	0	0%	0	0%	0	0%	0	0%	30	100%
Grand Total	209	87%	13	5%	5	2%	9	4%	2	1%	1	0%	1	0%	240	100%



Income Level	Answer							Total	%							
	1	2	3	4	5	6	7									
High	31	94%	1	3%	1	3%	0	0%	0	0%	0	0%	0	0%	33	100%
Middle	137	87%	10	6%	3	2%	3	2%	2	1%	1	1%	1	1%	157	100%
Low	41	82%	2	4%	1	2%	6	12%	0	0%	0	0%	0	0%	50	100%
Grand Total	209	87%	13	5%	5	2%	9	4%	2	1%	1	0%	1	0%	240	100%



2.-Q-1a Where do you wash your clothes and dishes/plates?

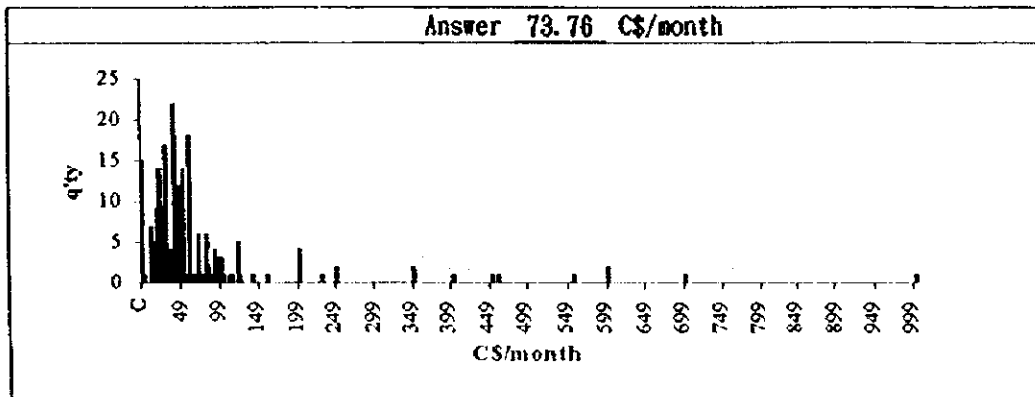
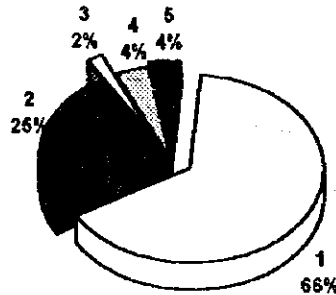
Answer	
1.	My House ( in my premises)
2.	Public stand pipe (communal water supply place)
3.	River,
4.	Others(please specify):

Question	Answer			Total	%
	1	2	3		
2-Q-1a	228	9	3	240	100%
Grand Total	228	9	3	240	100%

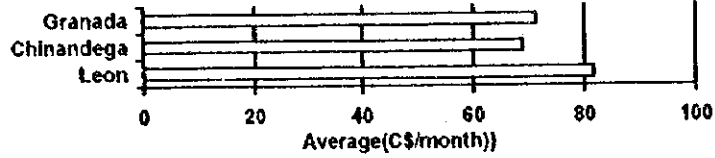
2.-Q-2 What is your water charge and How much do you pay for water?

Answer	
1.	I pay the full amount
2.	I pay but sometimes I pay delayed.
3.	I always delayed the payment and sometimes the water supply is suspended.
4.	Basically I don't pay the water
5.	Others (please specify):

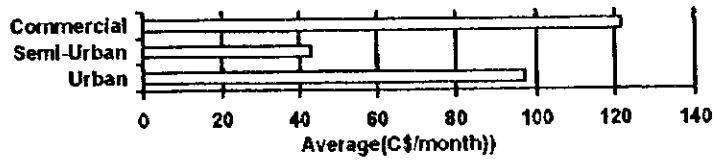
Question	Answer					Total	%
	1	2	3	4	5		
2-Q-2	158	59	4	9	10	240	100%
Grand Total	158	59	4	9	10	240	100%



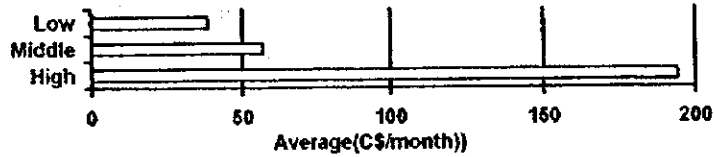
City	Total (CS)	q'ty	Average(CS/month)
Leon	5,958	73	81.62
Chinandega	4,951	72	68.76
Granada	5,688	80	71.10
Grand total	16,597	225	73.76



Sampling Area	Total (CS)	q'ty	Average(CS/month)
Urban	8,455	87	97.18
Semi-Urban	4,732	110	43.02
Commercial	3,410	28	121.79
Grand total	16,597	225	73.76



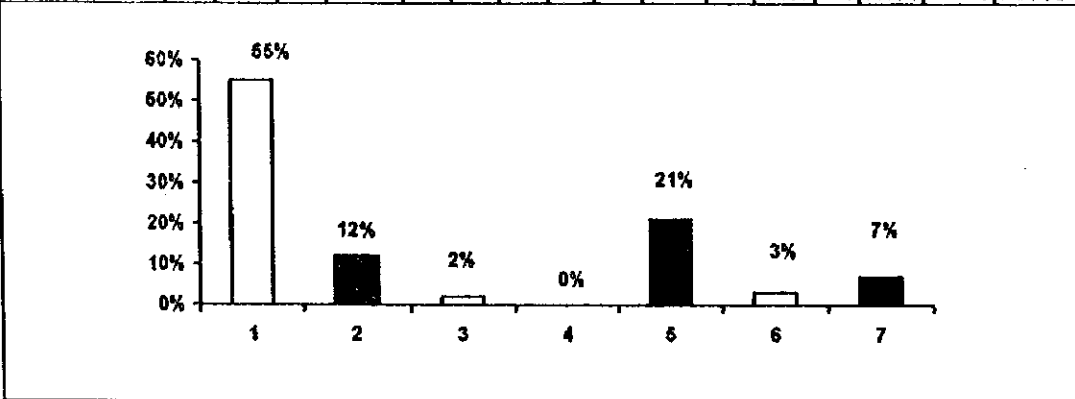
Income level	Total (CS)	q'ty	Average(CS/month)
High	6,408	33	194.18
Middle	8,610	151	57.02
Low	1,579	41	38.51
Grand total	16,597	225	73.76



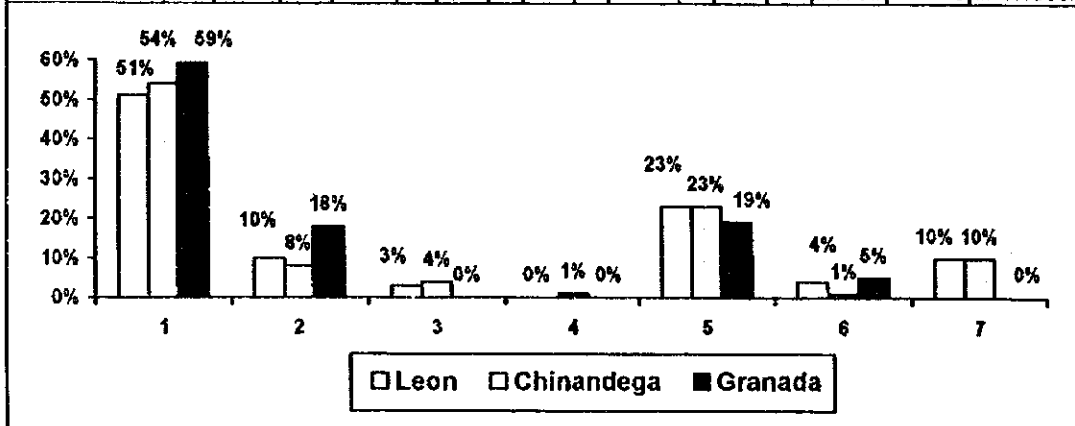
2.-Q-3 What do you think about the water charges?

Answer	
1.	expensive
2.	little bit expensive
3.	proper amount
4.	little bit cheap
5.	the water charge system is not fair
6.	I don't know
7.	Others (please specify):

Question	Answer														Total 1	%
	1		2		3		4		5		6		7			
2-Q-3	131	55%	28	12%	5	2%	1	0%	51	21%	8	3%	16	7%	240	100%
Grand Total	131	55%	28	12%	5	2%	1	0%	51	21%	8	3%	16	7%	240	100%



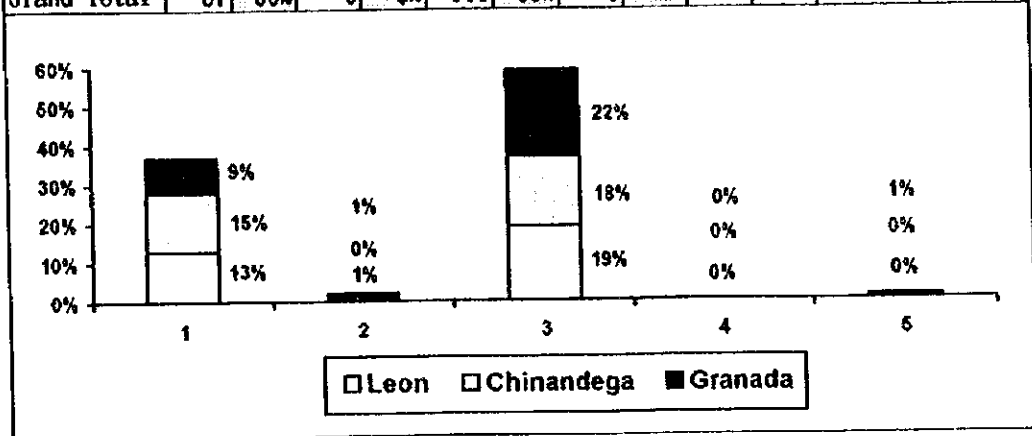
City	Answer														Total	%
	1		2		3		4		5		6		7			
Leon	41	51%	8	10%	2	3%	0	0%	18	23%	3	4%	8	10%	80	100%
Chinandega	43	54%	6	8%	3	4%	1	1%	18	23%	1	1%	8	10%	80	100%
Granada	47	59%	14	18%	0	0%	0	0%	15	19%	4	5%	0	0%	80	100%
Grand Total	131	55%	28	12%	5	2%	1	0%	51	21%	8	3%	16	7%	240	100%



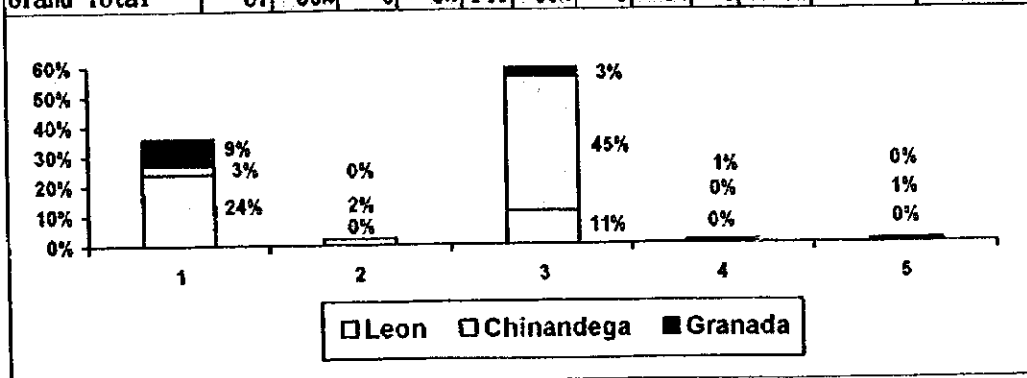
2.-Q-4 What type of toilet facility do you use in your house ?

Answer	
1.	Flush toilet. (connected to sewerage pipe)
2.	Septic tank
3.	Pit latrine.
4.	No toilet
5.	Others (please specify)

City	Answer										Total	%
	1		2		3		4		5			
Leon	30	13%	3	1%	46	19%	1	0%	0	0%	80	33%
Chinandega	35	15%	1	0%	43	18%	1	0%	0	0%	80	33%
Granada	22	9%	2	1%	52	22%	1	0%	3	1%	80	33%
Grand Total	87	36%	6	3%	141	59%	3	1%	3	1%	240	100%



Sampling Area	Answer										Total	%
	1		2		3		4		5			
Urban	58	24%	1	0%	27	11%	2	1%	2	1%	90	38%
Semi-Urban	7	3%	4	2%	107	45%	1	0%	1	0%	120	50%
Commercial	22	9%	1	0%	7	3%	0	0%	0	0%	30	13%
Grand Total	87	36%	6	3%	141	59%	3	1%	3	1%	240	100%

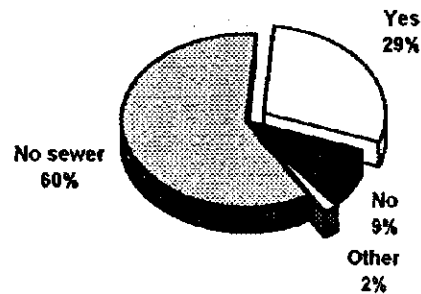


2.-Q-5 Is your domestic waste water (i.e., waste water from toilet, kitchen, bath, laundry) connected to sewer?

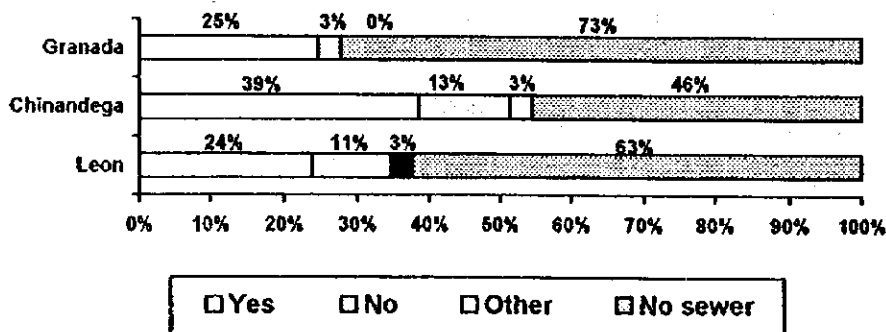
City	Answer					Total	%	
	Yes		No		Other			
Leon	28	12%	52	22%	0	0%	80	33%
Chinandega	33	14%	46	19%	1	0%	80	33%
Granada	22	9%	58	24%	0	0%	80	33%
Grand Total	83	35%	156	65%	1	0%	240	100%

2.-Q-6 Do you pay for the charges of waste water discharge?

Question	Answer								Total	%
	Yes		No		Other		No sewer			
2-Q-6	70	29%	21	9%	4	2%	145	60%	240	100%
Grand Total	70	29%	21	9%	4	2%	145	60%	240	100%

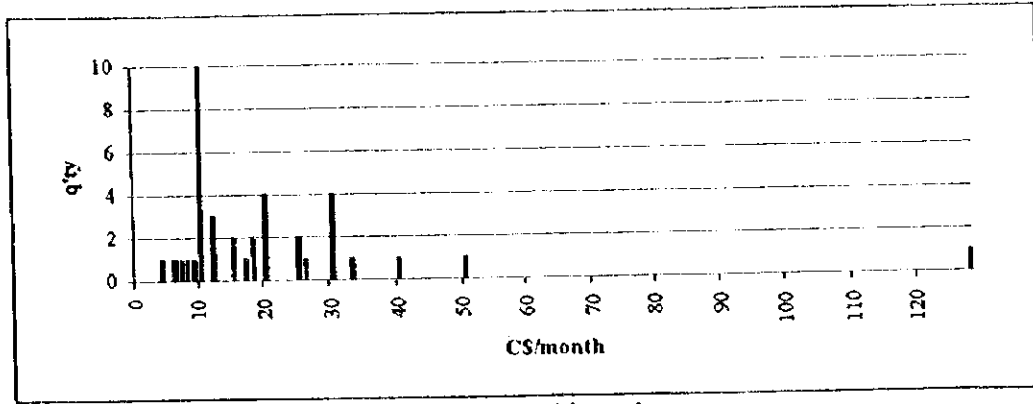


City	Answer								Total	%
	Yes		No		Other		No sewer			
Leon	19	24%	9	11%	2	3%	50	63%	80	100%
Chinandega	31	39%	10	13%	2	3%	37	46%	80	100%
Granada	20	25%	2	3%	0	0%	58	73%	80	100%
Grand Total	70	29%	21	9%	4	2%	145	60%	240	100%

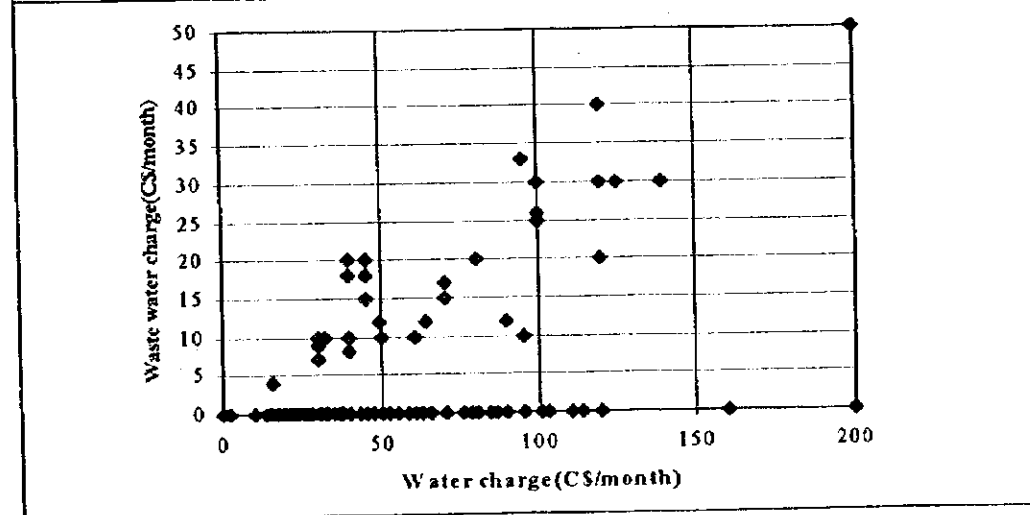
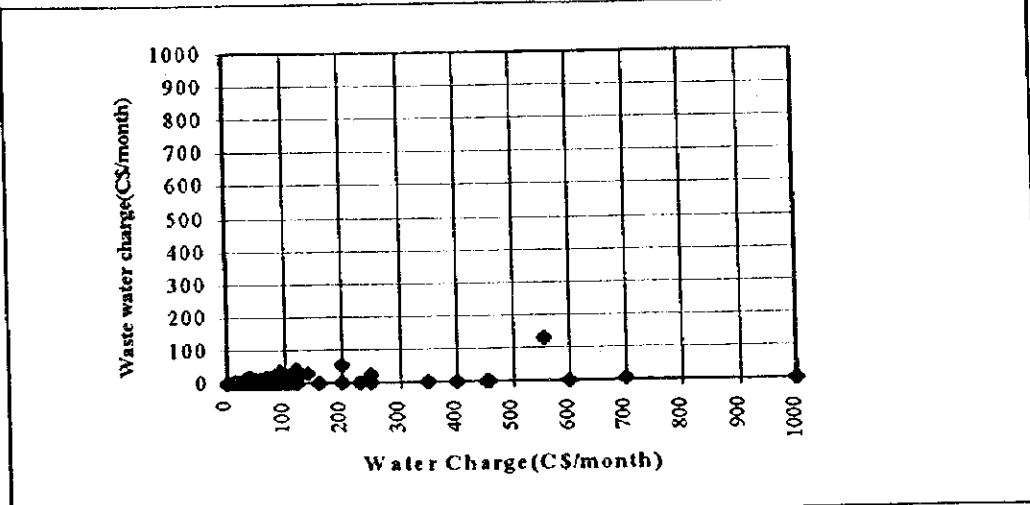


2.-Q-7 How much is the charge for waste water discharge?

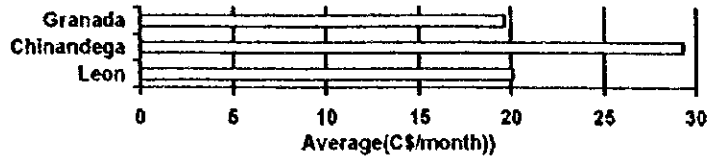
Answer \_\_\_\_\_ C\$/month



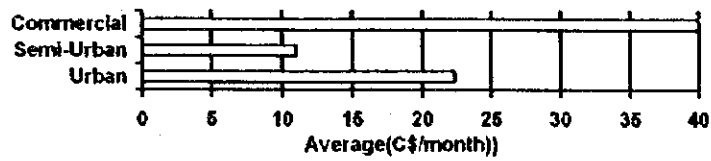
39 pay for the service. Average is 24.49 C\$/month



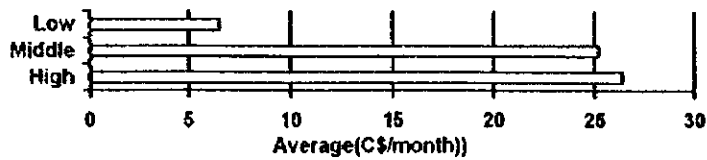
City	Total (CS)	q'ty	Average(CS/month)
Leon	221	11	20.09
Chinandega	557	19	29.32
Granada	177	9	19.67
Grand total	955	39	24.49



Sampling area	Total (CS)	q'ty	Average(CS/month)
Urban	693	31	22.35
Semi-Urban	22	2	11.00
Commercial	240	6	40.00
Grand total	955	39	24.49



Income level	Total (CS)	q'ty	Average(CS/month)
High	211	8	26.38
Middle	731	29	25.21
Low	13	2	6.50
Grand total	955	39	24.49

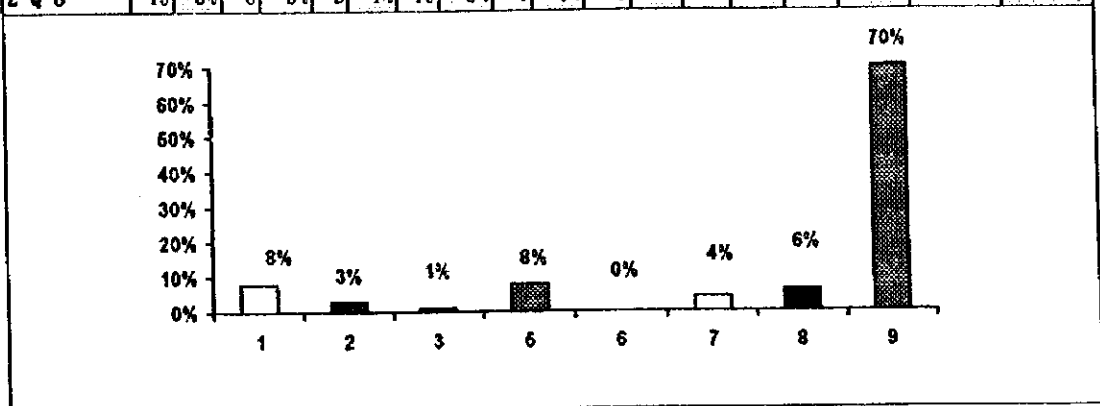




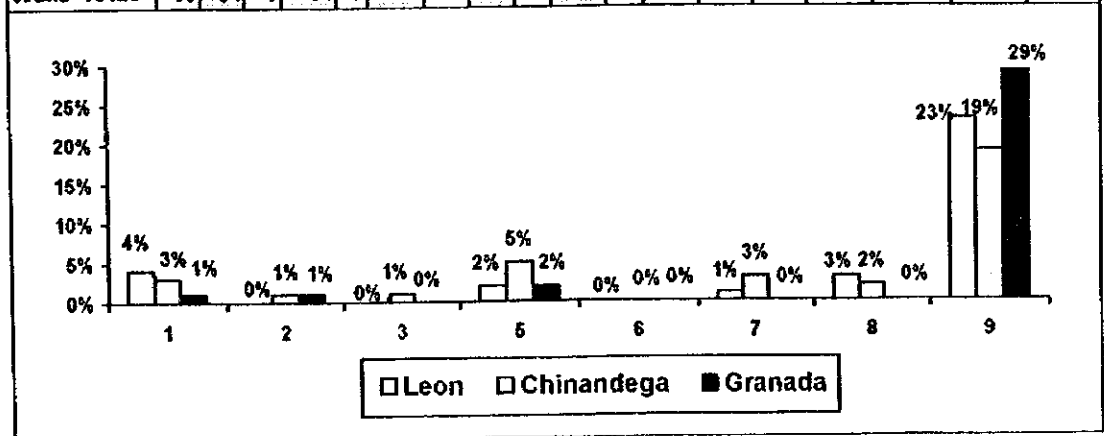
2.-Q-8 What do you think about the charges for waste water discharge?

Answer	
1.	expensive
2.	little bit expensive
3.	cheap
4.	little bit cheap
5.	proper amount
6.	the waste water charge system is not fair.
7.	I don't know
8.	Others (please specify):
9.	No answer due to no sewer

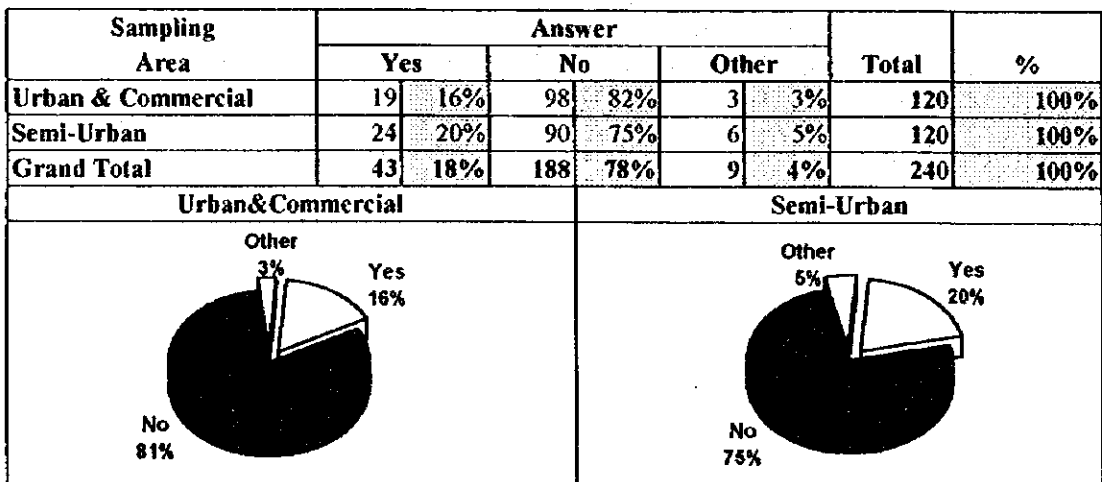
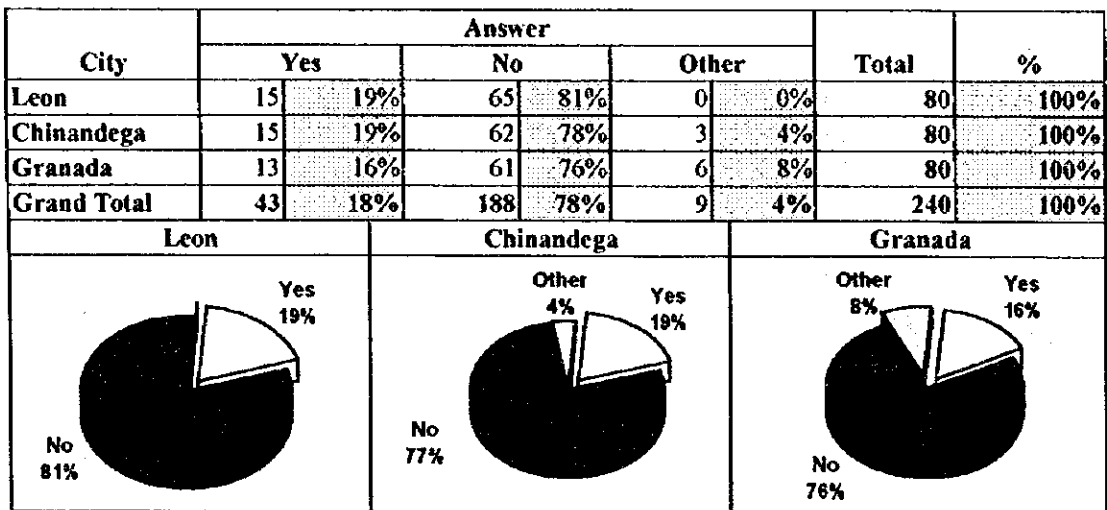
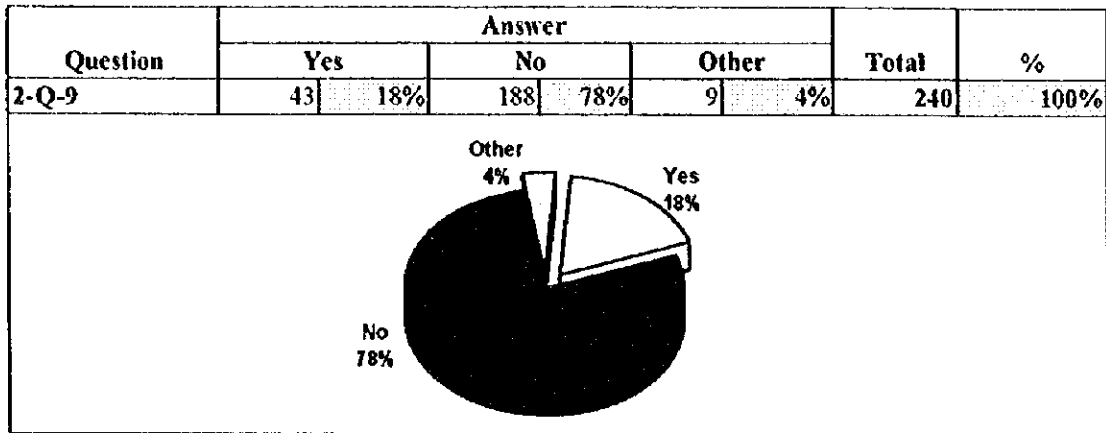
Question	Answer									Total	%							
	1	2	3	5	6	7	8	9										
2-Q-8	19	8%	6	3%	2	1%	19	8%	1	0%	10	4%	14	6%	169	70%	240	100%



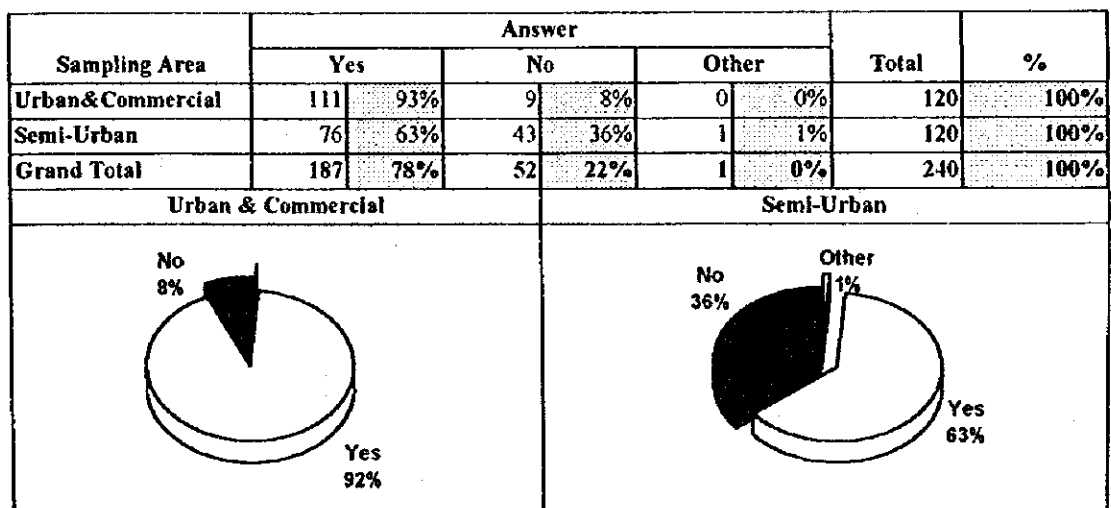
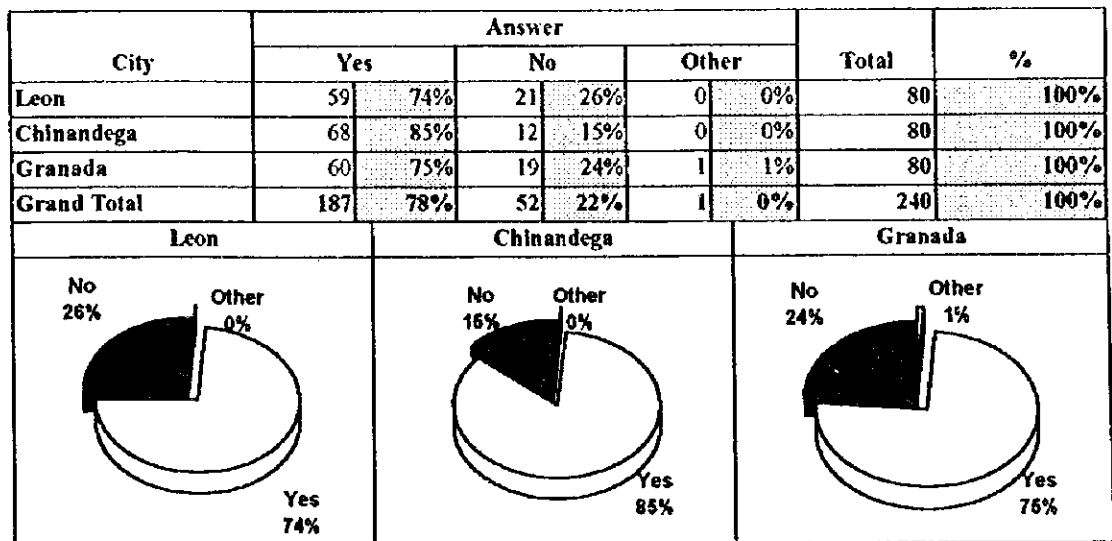
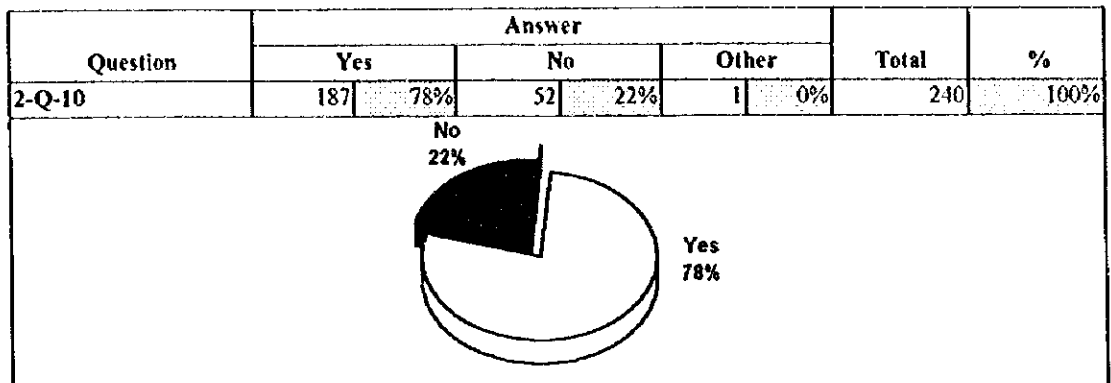
City	Answer									Total	%							
	1	2	3	5	6	7	8	9										
Leon	9	4%	0	0%	0	0%	4	2%	1	0%	3	1%	8	3%	55	23%	80	33%
Chinandega	7	3%	3	1%	2	1%	11	5%	0	0%	7	3%	5	2%	45	19%	80	33%
Granada	3	1%	3	1%	0	0%	4	2%	0	0%	0	0%	1	0%	69	29%	80	33%
Grand Total	19	8%	6	3%	2	1%	19	8%	1	0%	10	4%	14	6%	169	70%	240	100%



2.-Q-9 Did you experience flood damage? and do you have problems of drainage of rain water?



2.-Q-10 Are there garbage collection services in your area?



Who collects your wastes?

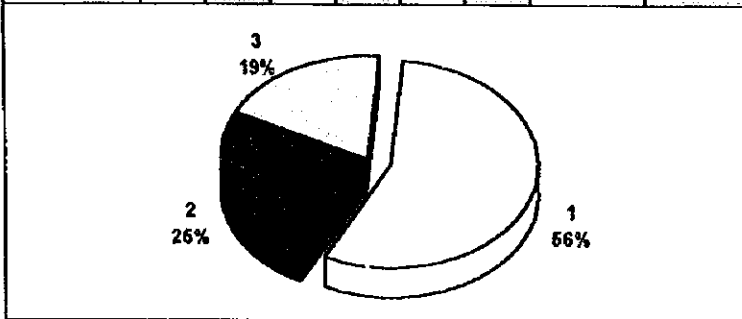
Answer	
1.	Municipality
2.	Private collector
3.	Others (please specify) :
4.	No collection

Question	Answer				Total	%
	1	2	3	4		
2-Q-11	187	3	1	49	240	100%

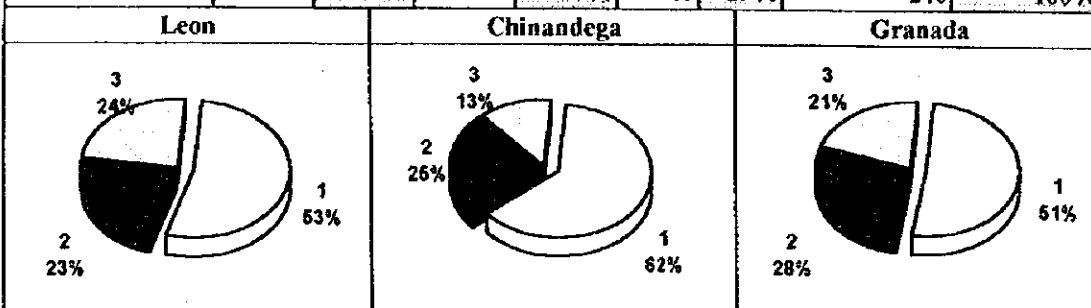
Are you satisfied with the collection service?

Answer	
1.	Yes
2.	No
3.	No Answer due to no collection

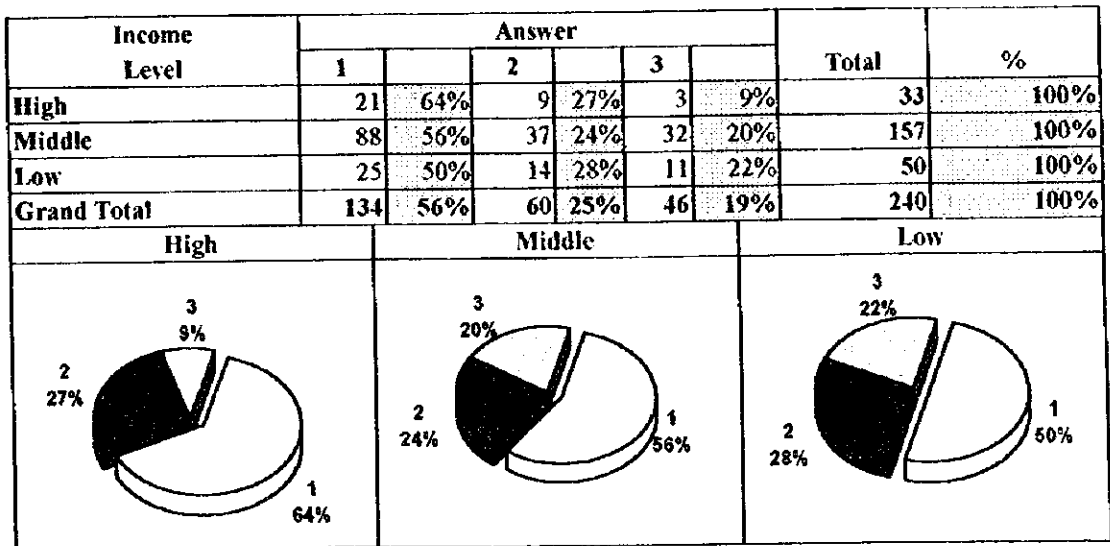
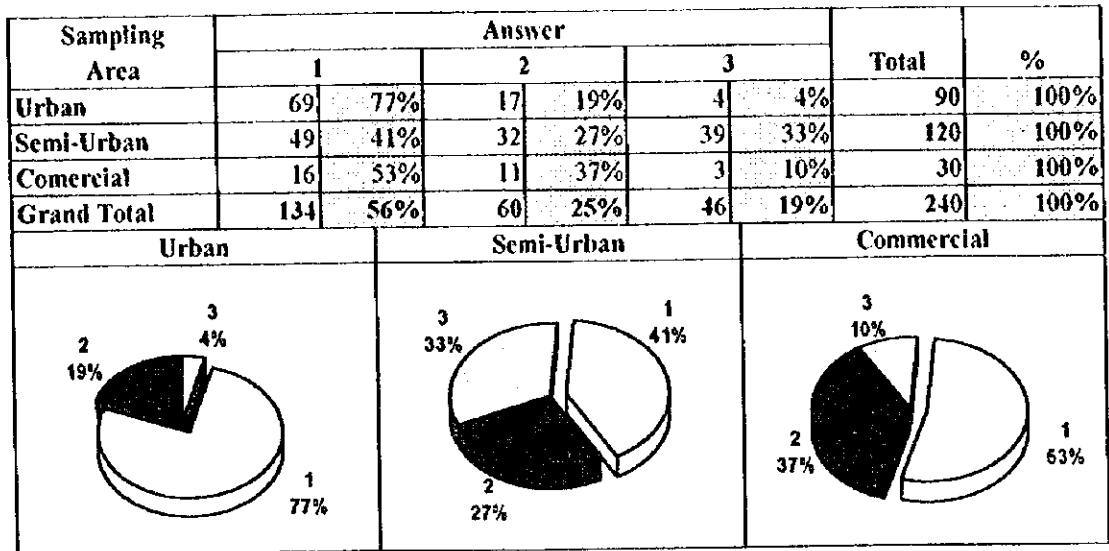
Question	Answer			Total	%
	1	2	3		
2-Q-12	134	60	46	240	100%



City	Answer			Total	%
	1	2	3		
Leon	43	18	19	80	100%
Chinandega	50	20	10	80	100%
Granada	41	22	17	80	100%
Grand Total	134	60	46	240	100%



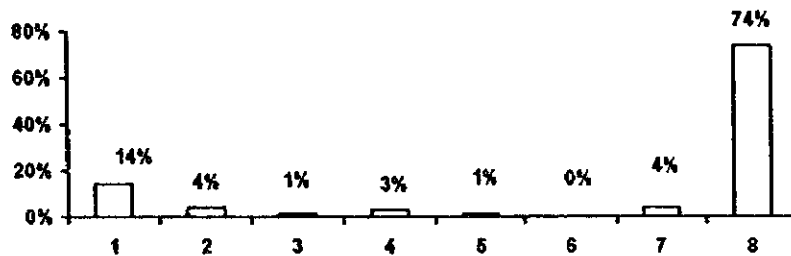
Answer	
1.	Yes
2.	No
3.	No Answer due to no collection



2.-Q-13 If "No", what are the reasons? (Plural answer question)

Answer	
1.	Frequency of collection service is too few
2.	Collection time is irregular
3.	Collection time is too early or too late
4.	Behavior of collection workers is bad
5.	Collection fee is expensive
6.	Collection fee system is not fair
7.	Other
8.	No answer

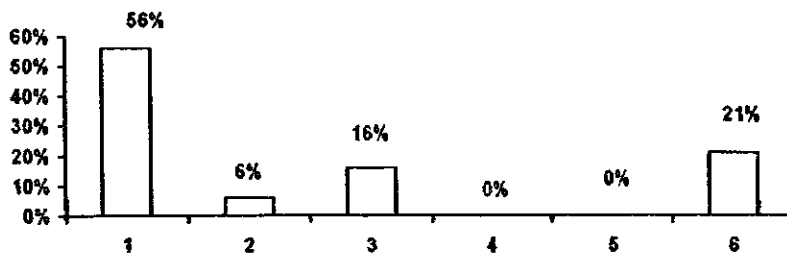
Question	Answer								Total	%								
	1	2	3	4	5	6	7	8										
2-Q-13	33	14%	9	4%	2	1%	6	3%	2	1%	1	0%	9	4%	178	74%	240	100%



2.-Q-14 How is your waste collected?

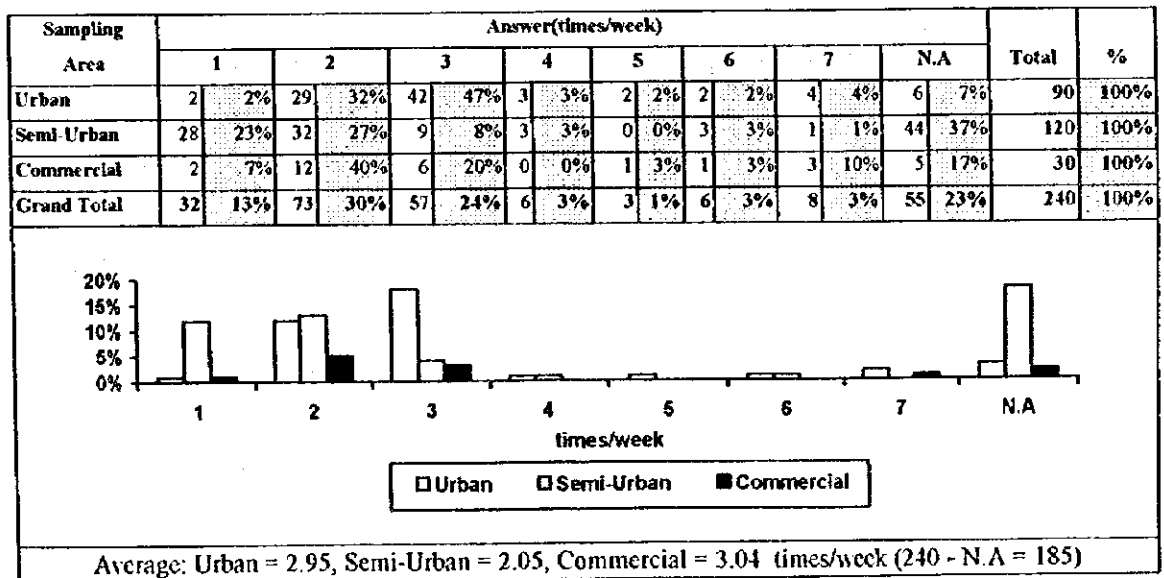
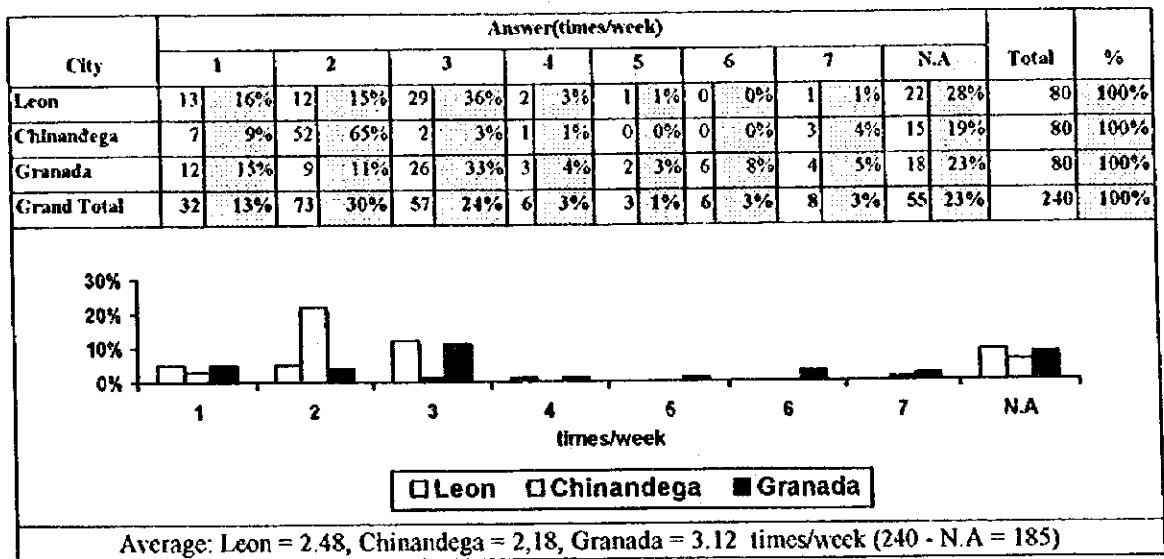
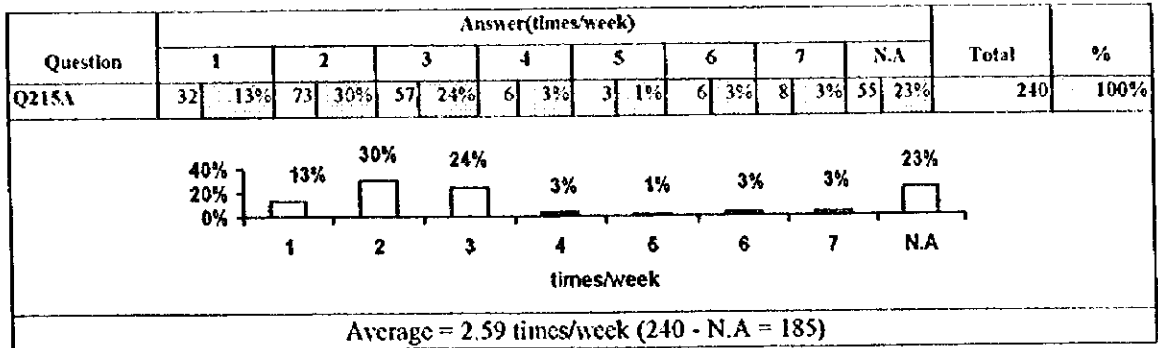
Answer	
1.	Door to door collection system by collection worker
2.	Residents themselves carry wastes to a house or to a certain collection point
3.	Directly to a collection truck
4.	Others
5.	I don't know
6.	No answer

Question	Answer						Total	%						
	1	2	3	4	5	6								
Q214	135	56%	14	6%	39	16%	1	0%	1	0%	50	21%	240	100%

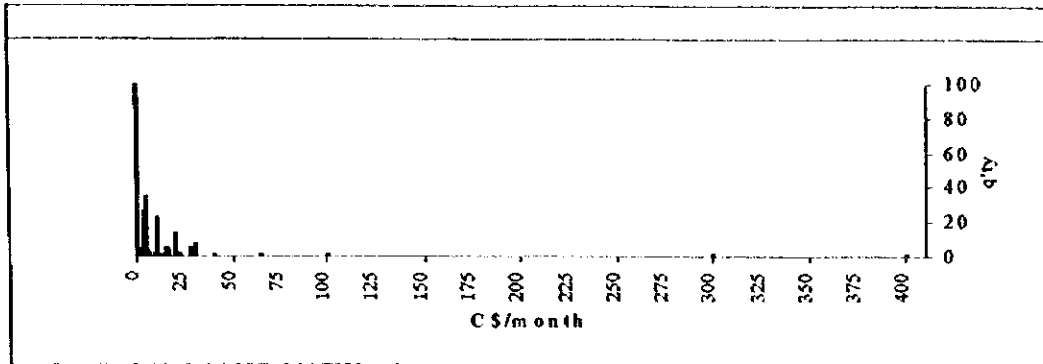


2.-Q-15 What is the level of garbage collection service and the charges?

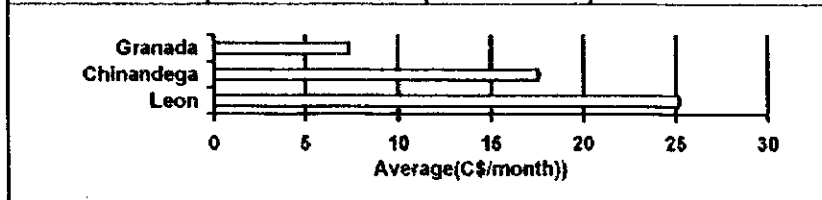
2-Q15A. (please specify): \_\_\_\_\_ times/week, \_\_\_\_\_ C\$/month



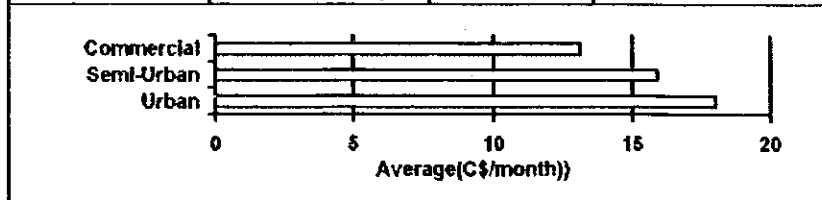
2-Q15A. (please specify): \_\_\_\_\_ times/week, \_\_\_\_\_ C\$/month



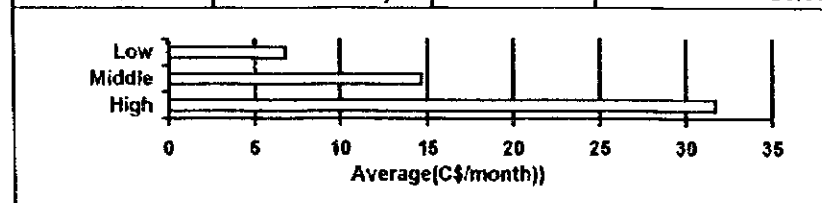
City	Total (C\$)	q'ty	Average(C\$/month)
Leon	1,159	46	25.20
Chinandega	827	47	17.60
Granada	354	48	7.38
<b>Grand total</b>	<b>2,340</b>	<b>141</b>	<b>16.60</b>



Sampling Area	Total (C\$)	q'ty	Average(C\$/month)
Urban	1,335	74	18.04
Semi-Urban	716	45	15.91
Commercial	289	22	13.14
<b>Grand total</b>	<b>2,340</b>	<b>141</b>	<b>16.60</b>

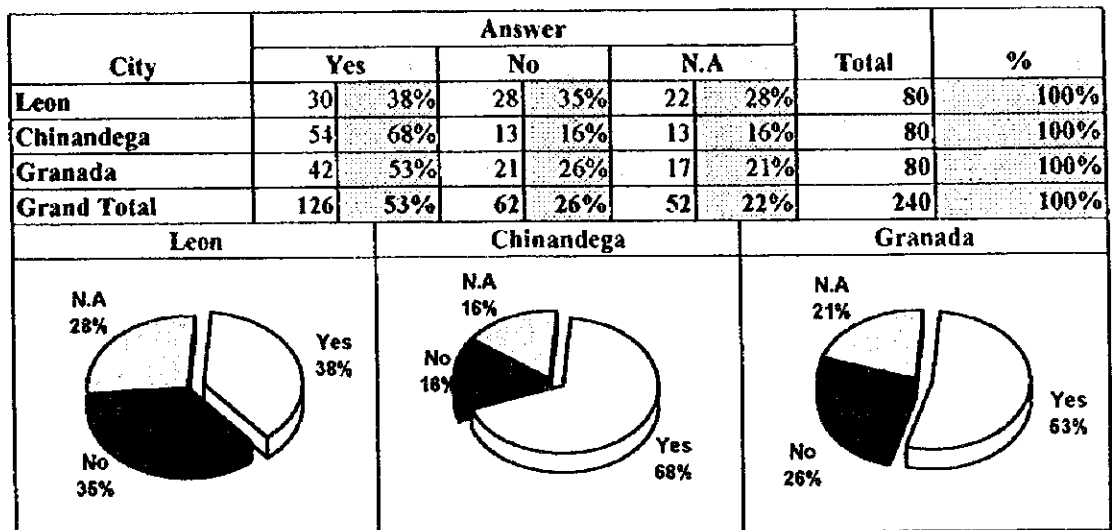
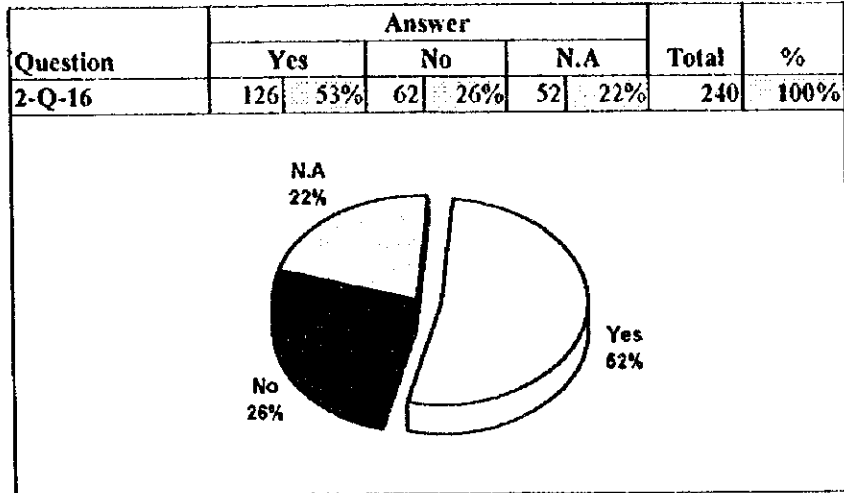


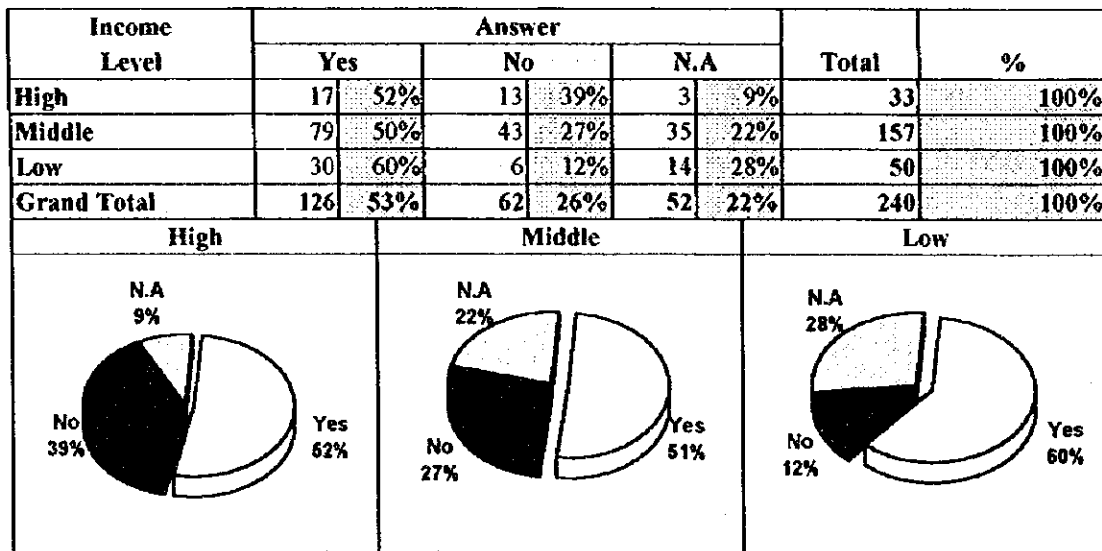
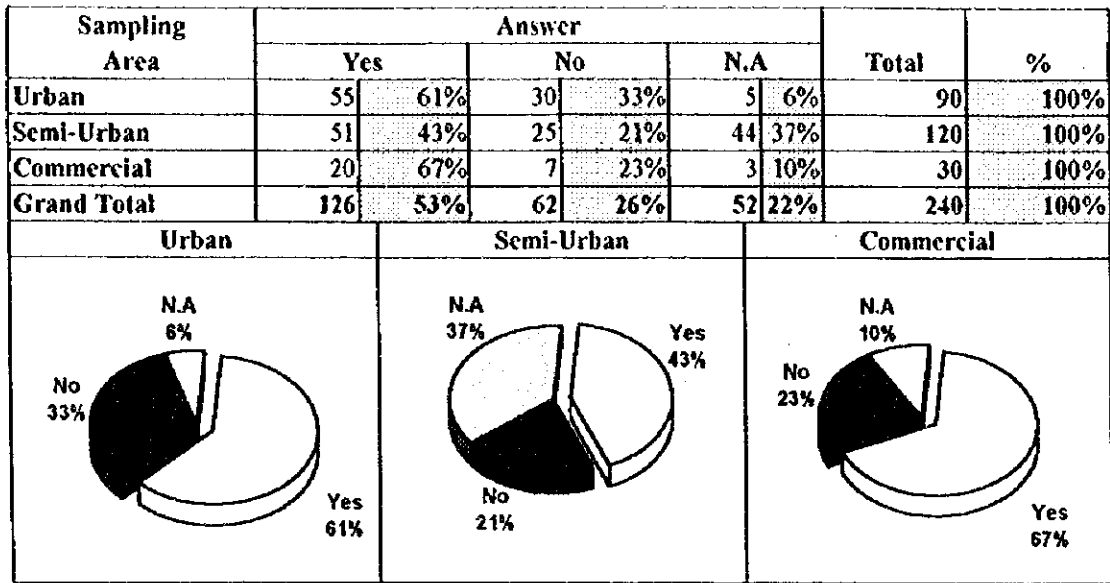
Income level	Total (C\$)	q'ty	Average(C\$/month)
High	856	27	31.70
Middle	1,320	90	14.67
Low	164	24	6.83
<b>Grand total</b>	<b>2,340</b>	<b>141</b>	<b>16.60</b>





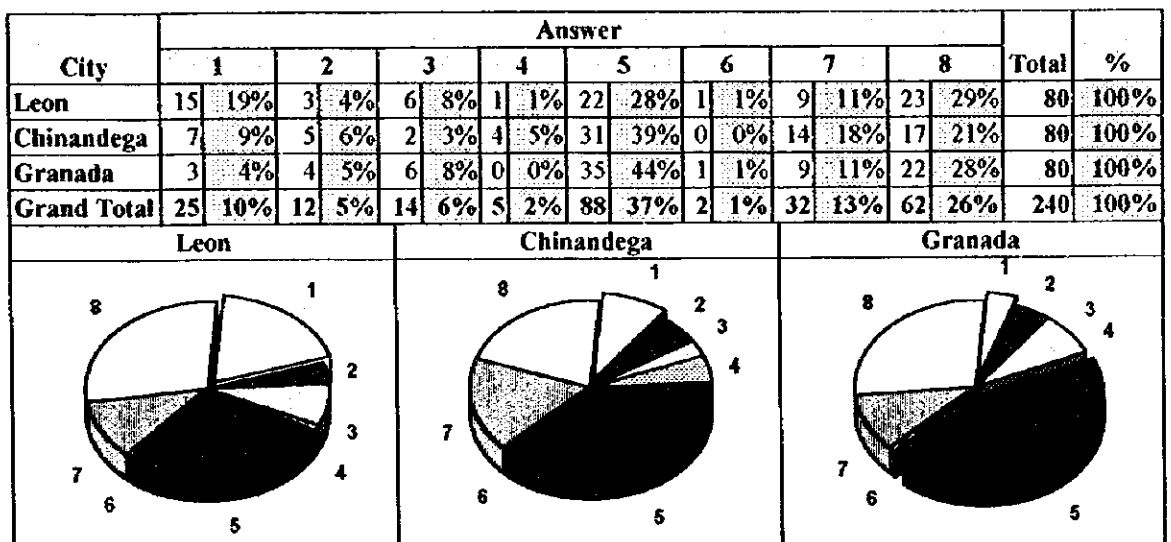
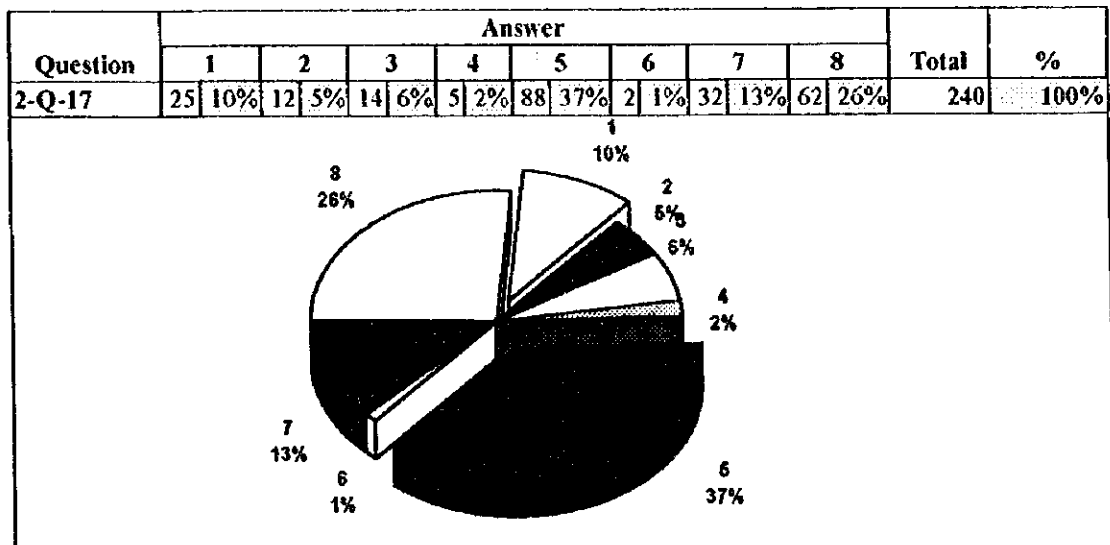
2.-Q-16 Is the collection service done at fixed time in the day?





2.-Q-17 What do you think about the charges for garbage collection service?

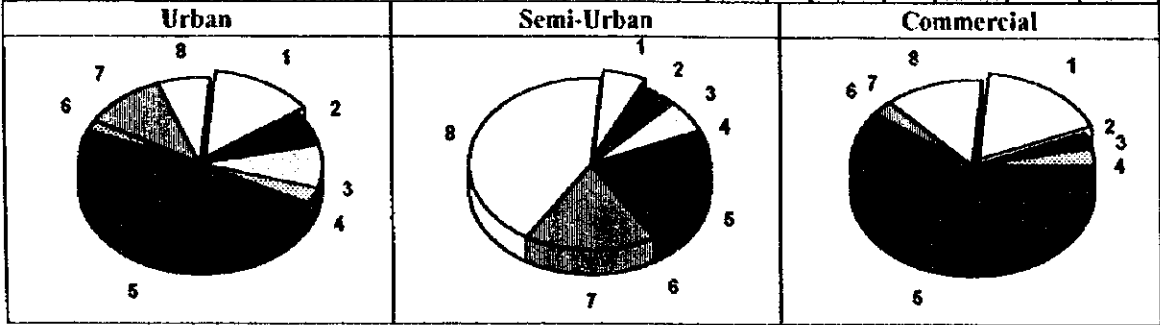
Answer	
1.	expensive
2.	little bit expensive
3.	cheap
4.	little bit cheap
5.	proper amount
6.	collection fee system is not fair
7.	Others (please specify):
8.	No answer



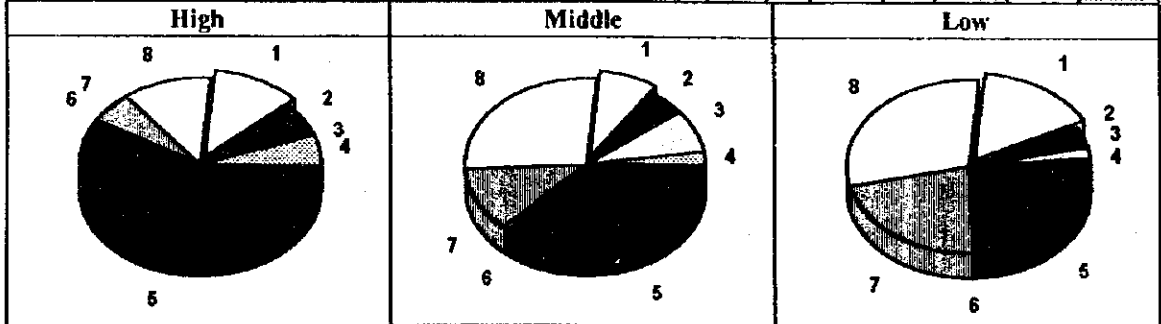
**Answer**

1. expensive
2. little bit expensive
3. cheap
4. little bit cheap
5. proper amount
6. collection fee system is not fair
7. Others (please specify):
8. No answer

Sampling Area	Answer								Total	%								
	1	2	3	4	5	6	7	8										
Urban	13	14%	5	6%	7	8%	3	3%	44	49%	2	2%	10	11%	6	7%	90	100%
Semi-Urban	7	6%	6	5%	7	6%	1	1%	26	22%	0	0%	21	18%	52	43%	120	100%
Commercial	5	17%	1	3%	0	0%	1	3%	18	60%	0	0%	1	3%	4	13%	30	100%
<b>Grand Total</b>	<b>25</b>	<b>10%</b>	<b>12</b>	<b>5%</b>	<b>14</b>	<b>6%</b>	<b>5</b>	<b>2%</b>	<b>88</b>	<b>37%</b>	<b>2</b>	<b>1%</b>	<b>32</b>	<b>13%</b>	<b>62</b>	<b>26%</b>	<b>240</b>	<b>100%</b>



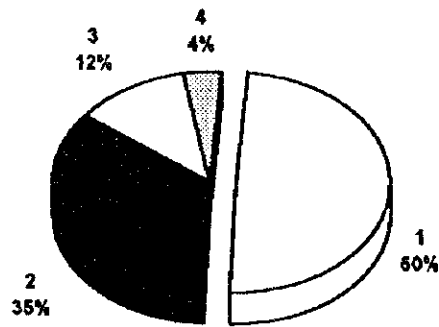
Income Level	Answer								Total	%								
	1	2	3	4	5	6	7	8										
High	4	12%	2	6%	0	0%	2	6%	19	58%	0	0%	2	6%	4	12%	33	100%
Middle	13	8%	8	5%	13	8%	3	2%	56	36%	2	1%	19	12%	43	27%	157	100%
Low	8	16%	2	4%	1	2%	0	0%	13	26%	0	0%	11	22%	15	30%	50	100%
<b>Grand Total</b>	<b>25</b>	<b>10%</b>	<b>12</b>	<b>5%</b>	<b>14</b>	<b>6%</b>	<b>5</b>	<b>2%</b>	<b>88</b>	<b>37%</b>	<b>2</b>	<b>1%</b>	<b>32</b>	<b>13%</b>	<b>62</b>	<b>26%</b>	<b>240</b>	<b>100%</b>



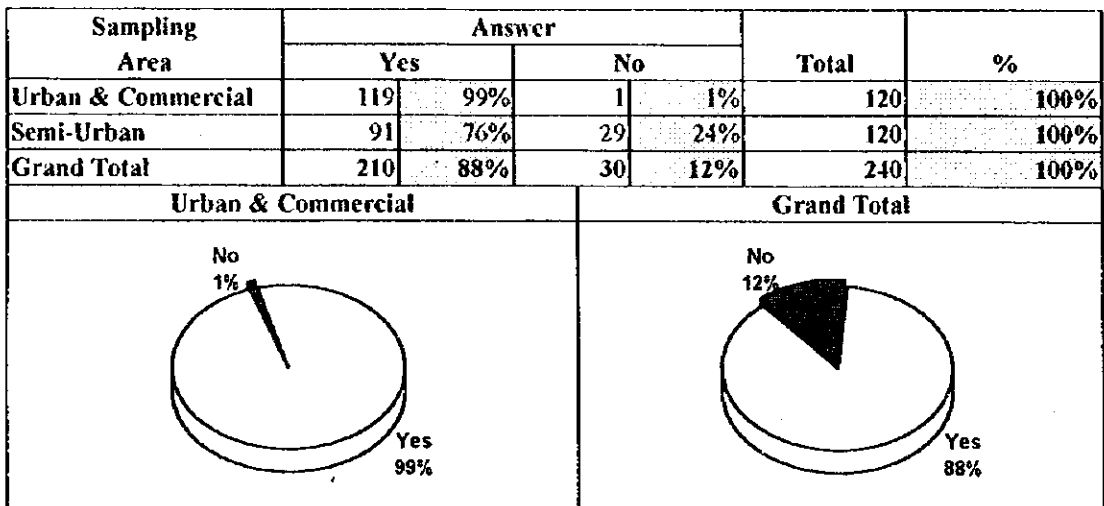
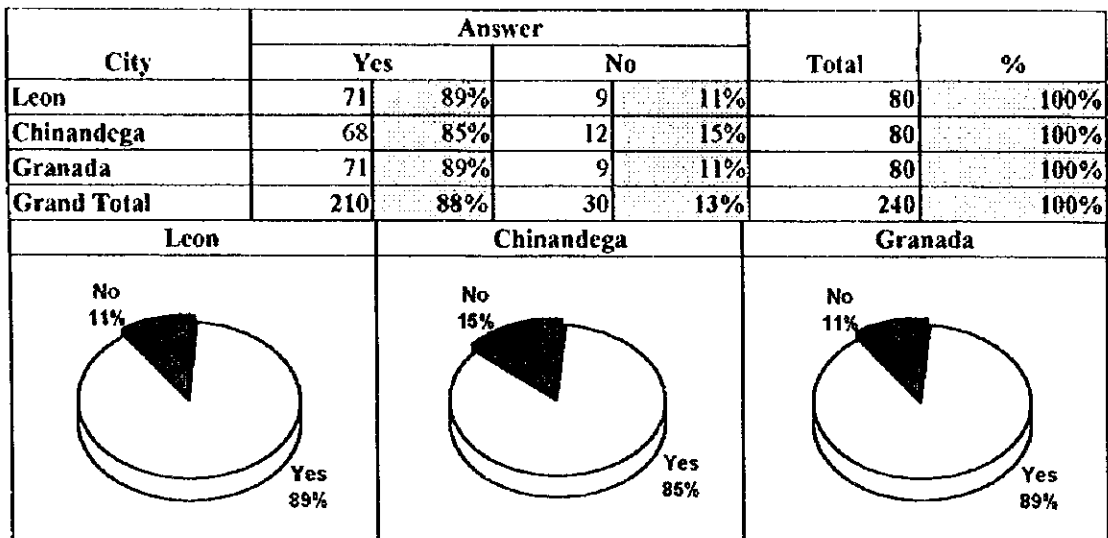
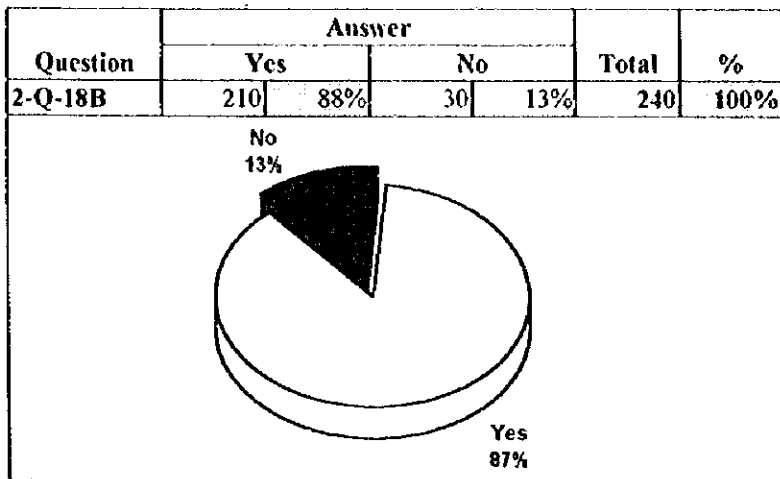
2.-Q-18 What do you do with the garbage?

Answer	
1.	burn it
2.	throw it away
3.	bury it
4.	Other

Question	Answer				Total	%
	1	2	3	4		
2-Q-18	26	18	6	2	52	100%



2-Q-18b. Are there electricity supply in your premises ?



2.-Q-19 Who is an electricity supplier ?

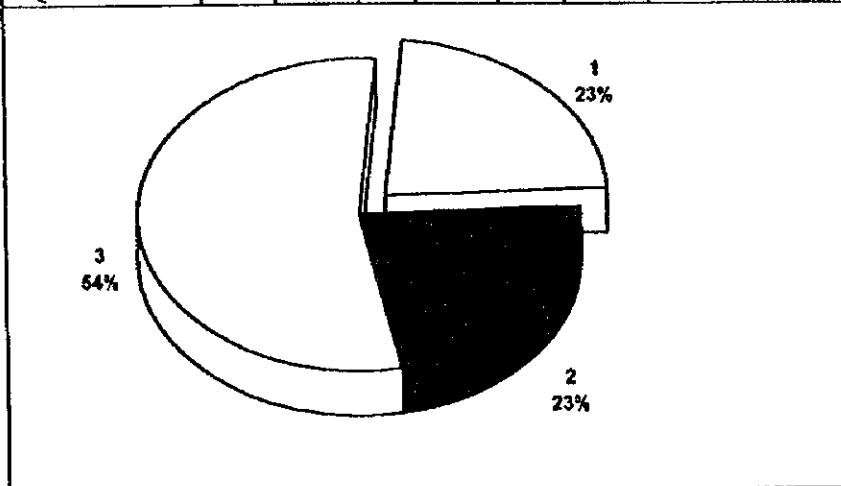
Answer	
1.	Nicaragua Electricity Company (public electricity company)
2.	Own generator in my premises
3.	Others (please specify):

Question	Answer				Total	%				
	1	2	3	4						
2-Q-19	204	85%	3	1%	7	3%	26	11%	240	100%

2.-Q-20 What type of pavement of the access road is to your premises ?

Answer	
1.	Asphalt pavement
2.	Gravel/brick pavement
3.	No pavement

Question	Answer			Total	%			
	1	2	3					
2-Q-20	54	23%	55	23%	131	55%	240	100%



**Answer**

1. Asphalt pavement 2. Gravel/brick pavement 3. No pavement

City	Answer						Total	%
	1		2		3			
Leon	18	23%	22	28%	40	50%	80	100%
Chinandega	11	14%	20	25%	49	61%	80	100%
Granada	25	31%	13	16%	42	53%	80	100%
Grand Total	54	23%	55	23%	131	55%	240	100%

Leon	Chinandega	Granada

Sampling Area	Answer						Total	%
	1		2		3			
Urban	34	38%	38	42%	18	20%	90	100%
Semi-Urban	10	8%	6	5%	104	87%	120	100%
Commercial	10	33%	11	37%	9	30%	30	100%
Grand Total	54	23%	55	23%	131	55%	240	100%

Urban	Semi-Urban	Commercial

Income Level	Answer						Total	%
	1		2		3			
High	9	27%	14	42%	10	30%	33	100%
Middle	42	27%	37	24%	78	50%	157	100%
Low	3	6%	4	8%	43	86%	50	100%
Grand Total	54	23%	55	23%	131	55%	240	100%

High	Middle	Low

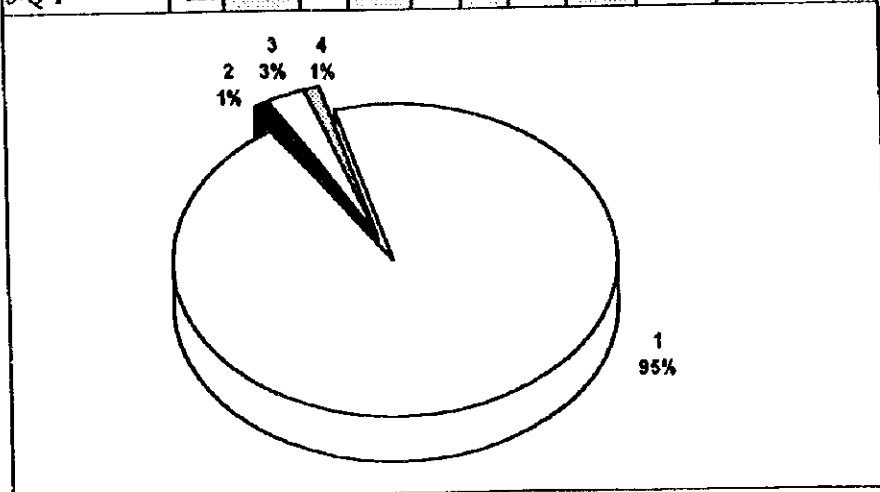


### 3. Questions on Public Consciousness on USE.

3.-Q-1 If some group or association within your residential area would start some activities of improving the neighborhood sanitation, would you be willing to participate?

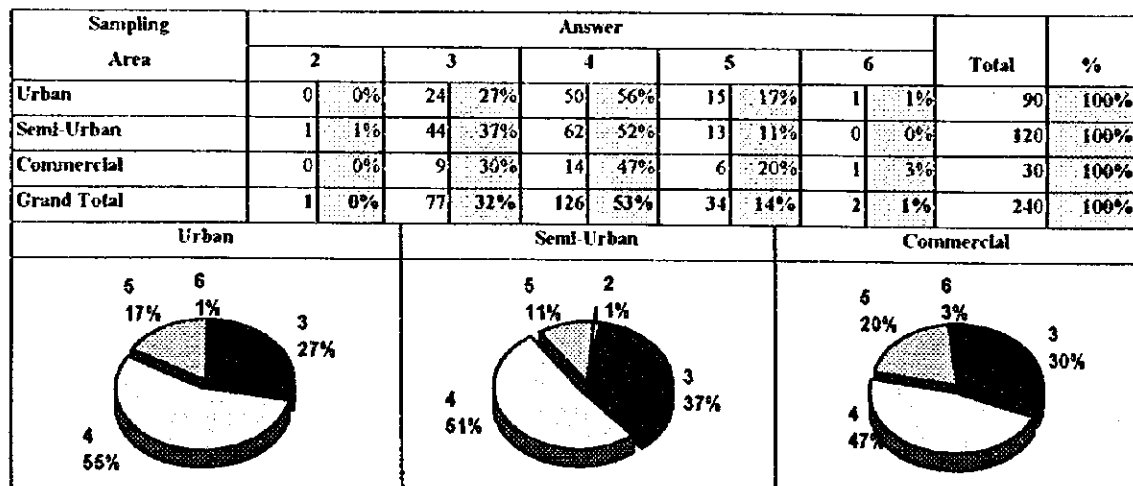
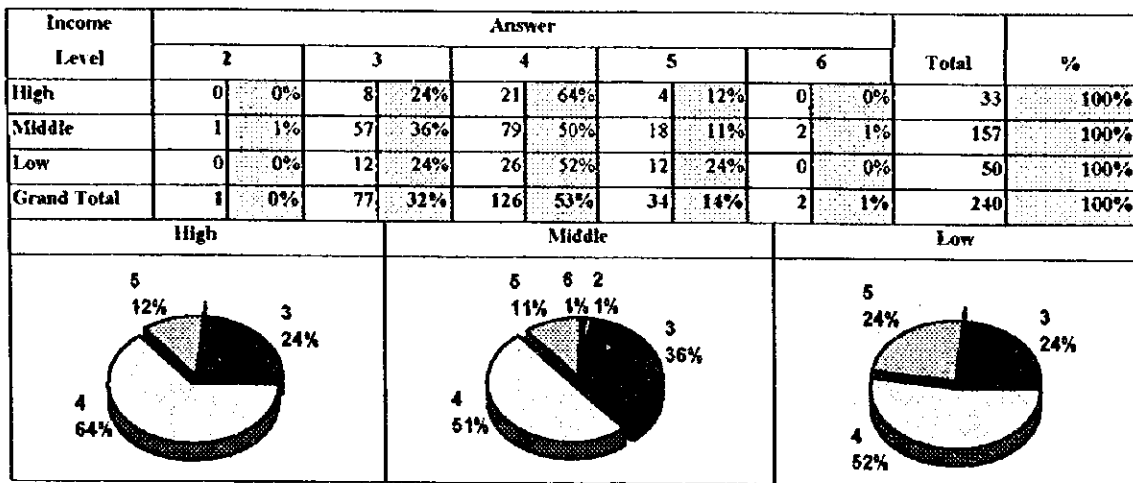
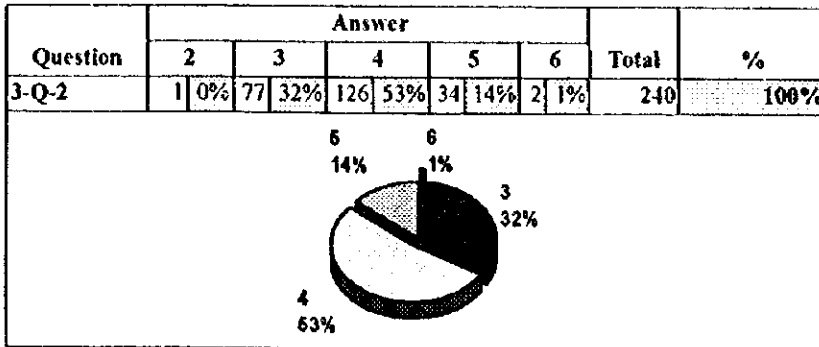
Answer:	
1.	Yes
2.	No
3.	Do not Know
4.	No answer

Question	Answer				Total	%				
	1	2	3	4						
3-Q-1	229	95%	3	1%	6	3%	2	1%	240	100%



3.-Q-2 How important do you think public cooperation is for keeping the USE good? (Read scale)

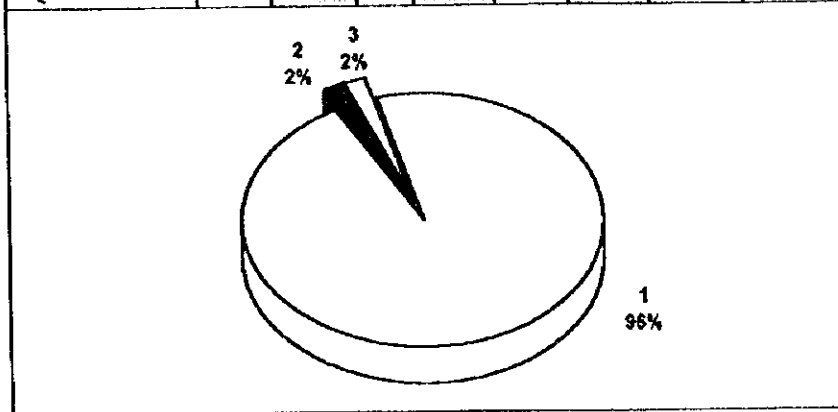
Answer					
1. Not important	2. Little important	3. Important			
4. Very important	5. Absolutely Essential	6. Do not know			



3.-Q-3 Would you be willing to cooperate for keeping the USE better?

Answer:	
1. Yes	2. No 3. Do not know

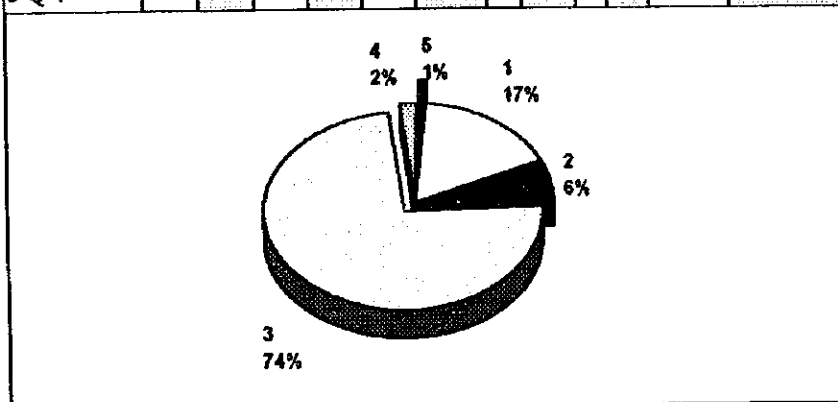
Question	Answer						Total	%
	1	2	3	4	5	6		
3-Q-3	231	96%	5	2%	4	2%	240	100%



3.-Q-4 How do you think you could cooperate for keeping the USE better? (Plural answer)

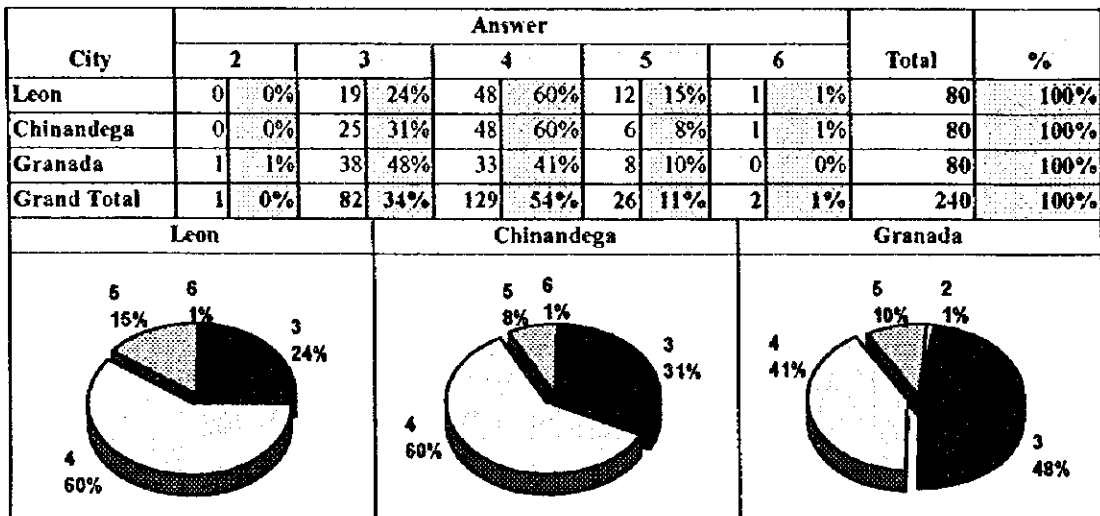
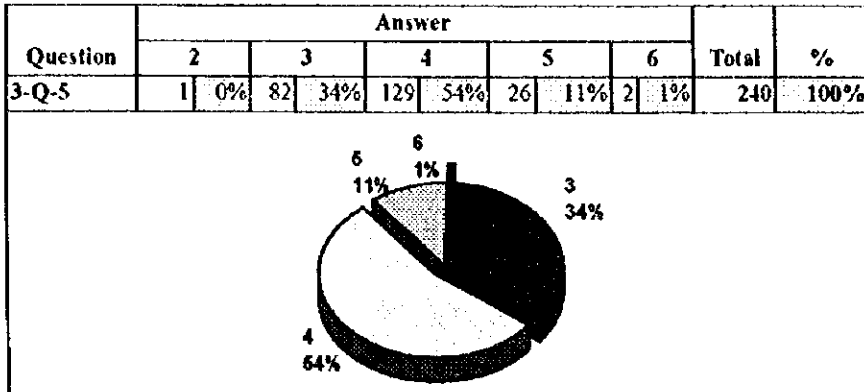
Answer	
1.	to bear the cost (e.g., pay for such services)
2.	to donate for such community voluntary activities
3.	to participate myself for any kind of community based sanitation improvement activities
4.	others (specify):
5.	No answer

Question	Answer										Total	%
	1	2	3	4	5	6	7	8	9	10		
3-Q-4	41	17%	14	6%	178	74%	4	2%	3	1%	240	100%



3.-Q-5 How important do you think public education and campaigns are for keeping the USE better? (Read scale)

Answer					
1. Not important	2. Little important	3. Important			
4. Very important	5. Absolutely Essential	6. Do not know			



Answer					
1. Not important	2. Little important	3. Important			
4. Very important	5. Absolutely Essential	6. Do not know			

Income Level	Answer										Total	%
	2		3		4		5		6			
High	0	0%	9	27%	21	64%	3	9%	0	0%	33	100%
Middle	1	1%	62	39%	79	50%	13	8%	2	1%	157	100%
Low	0	0%	11	22%	29	58%	10	20%	0	0%	50	100%
Grand Total	1	0%	82	34%	129	54%	26	11%	2	1%	240	100%

High	Middle	Low

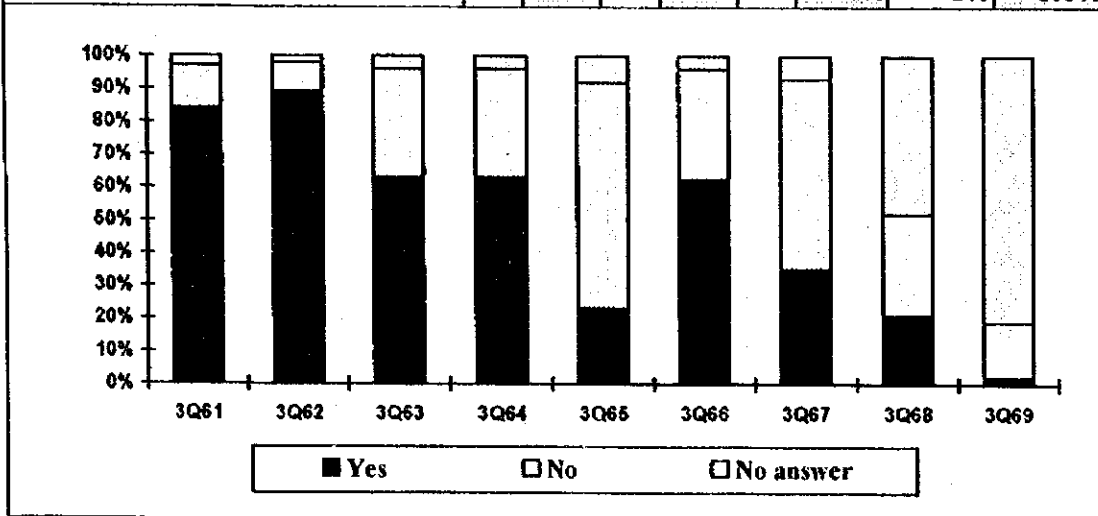
Sampling Area	Answer										Total	%
	1	2		3		4		5				
Urban	0	0%	31	34%	46	51%	13	14%	0	0%	90	100%
Semi-Urban	1	1%	42	35%	65	54%	10	8%	2	2%	120	100%
Commercial	0	0%	9	30%	18	60%	3	10%	0	0%	30	100%
Grand Total	1	0%	82	34%	129	54%	26	11%	2	1%	240	100%

Urban	Semi-Urban	Commercial

3.-Q-6 According to your opinion, which of the following institutions should take this type of action (public education and campaigns)?

Question	Answer						Total	%
	Yes		No		No answer			
3.Q.6.1 Central Government (minister)	202	84%	31	13%	7	3%	240	100%
3.Q.6.2 Municipality (Mayor)	215	90%	21	9%	4	2%	240	100%
3.Q.6.3 Schools	152	63%	78	33%	10	4%	240	100%
3.Q.6.4 Family	152	63%	79	33%	9	4%	240	100%
3.Q.6.5 Churches	55	23%	166	69%	19	8%	240	100%
3.Q.6.6 Neighborhood association	150	63%	81	34%	9	4%	240	100%
3.Q.6.7 NGOs	83	35%	140	58%	17	7%	240	100%
3.Q.6.8 Other	50	21%	75	31%	115	48%	240	100%
3.Q.6.9 Do not know	5	2%	40	17%	195	81%	240	100%



3.-Q-7 And which are the 3 institutions that should be mainly responsible for taking this type of actions? Which in 1st place? Which in 2nd place? Which in 3rd place?

1st place [ \_\_\_\_\_ ]

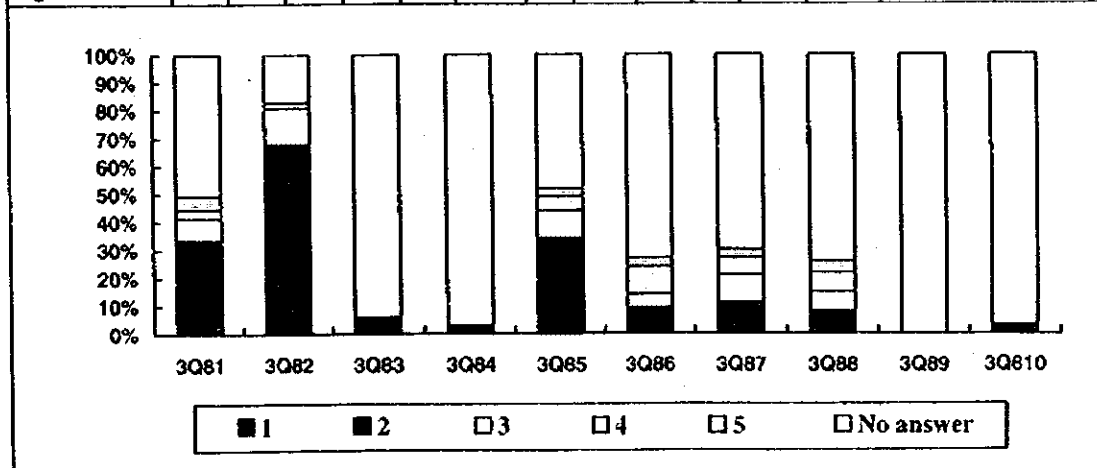
2nd place [ \_\_\_\_\_ ]

3rd place [ \_\_\_\_\_ ]

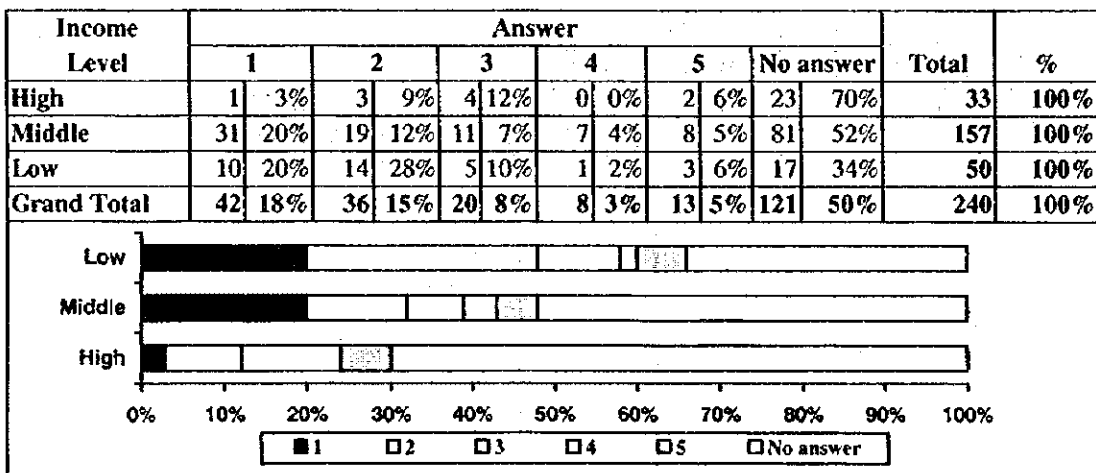
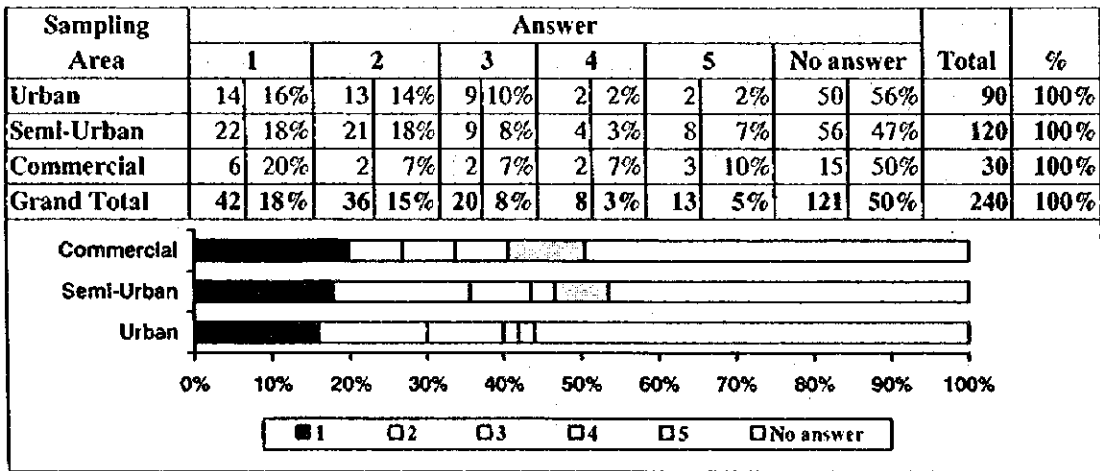
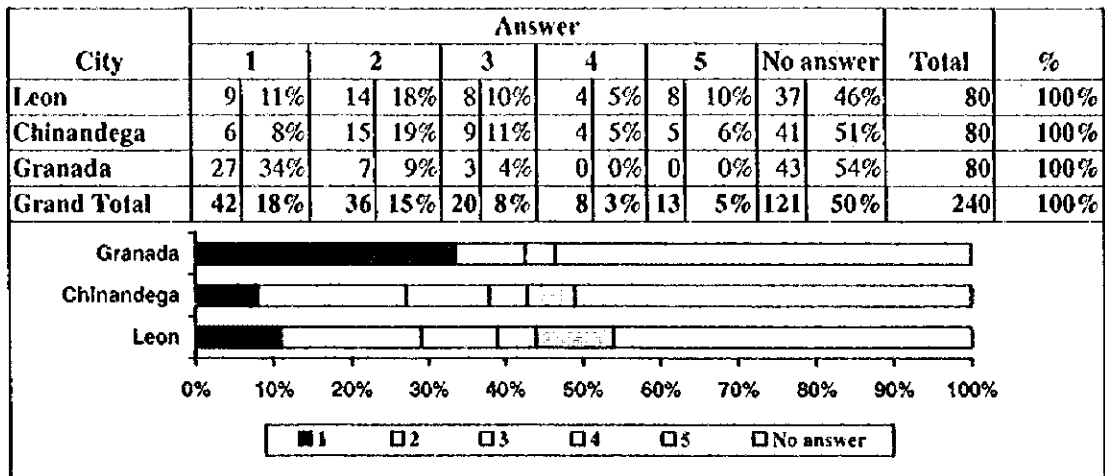
3.-Q-8 Of what diseases you and your family are easily to be caught? (Please mark 1 to 5 for top 5 common disease)

Question	
3Q81. Gastroenteric disease, diarrhea	3Q87. Intestinal worm
3Q82. Flu, Respiratory disease,	3Q88. Rheumatism, joint pains
3Q83. Enteric fever (typhoid, paratyphoid)	3Q89. Urinary tract infections
3Q84. Trauma, tetanus	3Q810. Other (please specify)
3Q85. Malaria, dengue	
3Q86. Skin and eye infection	

Question	Answer										Total	%		
	1	2	3	4	5	No answer	1	2	3	4			5	No answer
3Q81	42	18%	36	15%	20	8%	8	3%	13	5%	121	50%	240	100%
3Q82	101	42%	61	25%	32	13%	4	2%	1	0%	41	17%	240	100%
3Q83	1	0%	6	3%	3	1%	3	1%	2	1%	225	94%	240	100%
3Q84	2	1%	2	1%	2	1%	1	0%	1	0%	232	97%	240	100%
3Q85	51	21%	32	13%	23	10%	11	5%	7	3%	116	48%	240	100%
3Q86	5	2%	16	7%	13	5%	24	10%	6	3%	176	73%	240	100%
3Q87	9	4%	16	7%	23	10%	15	6%	8	3%	169	70%	240	100%
3Q88	8	3%	12	5%	16	7%	16	7%	10	4%	178	74%	240	100%
3Q89	0	0%	0	0%	0	0%	0	0%	0	0%	240	100%	240	100%
3Q810	1	0%	7	3%	1	0%	0	0%	0	0%	231	96%	240	100%

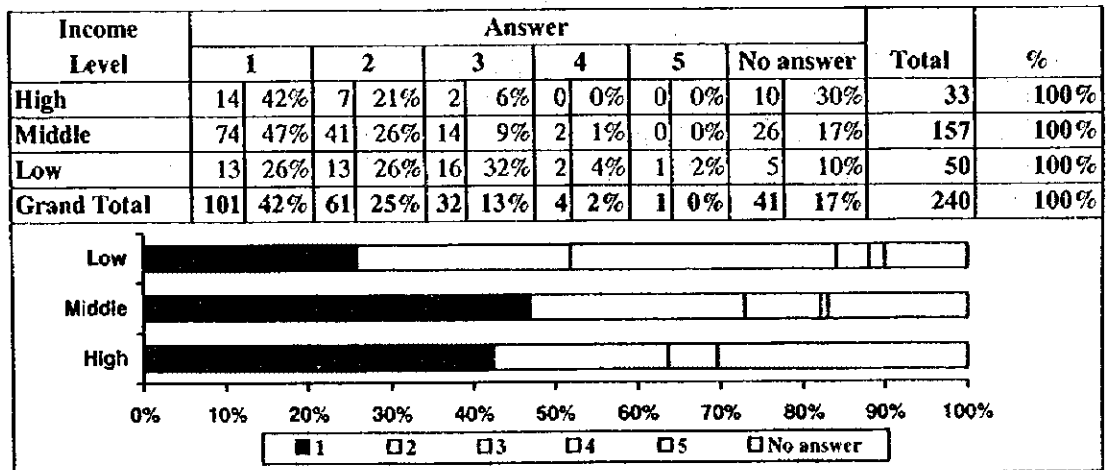
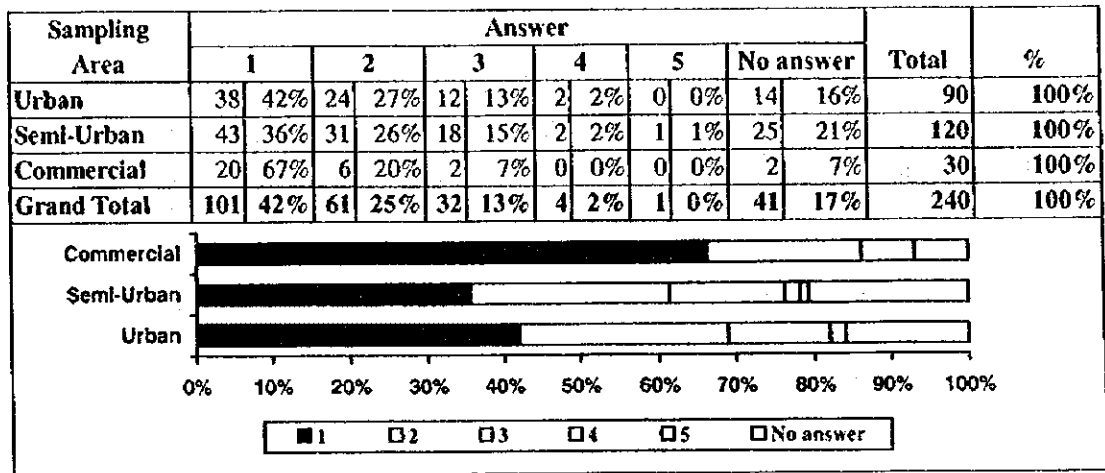
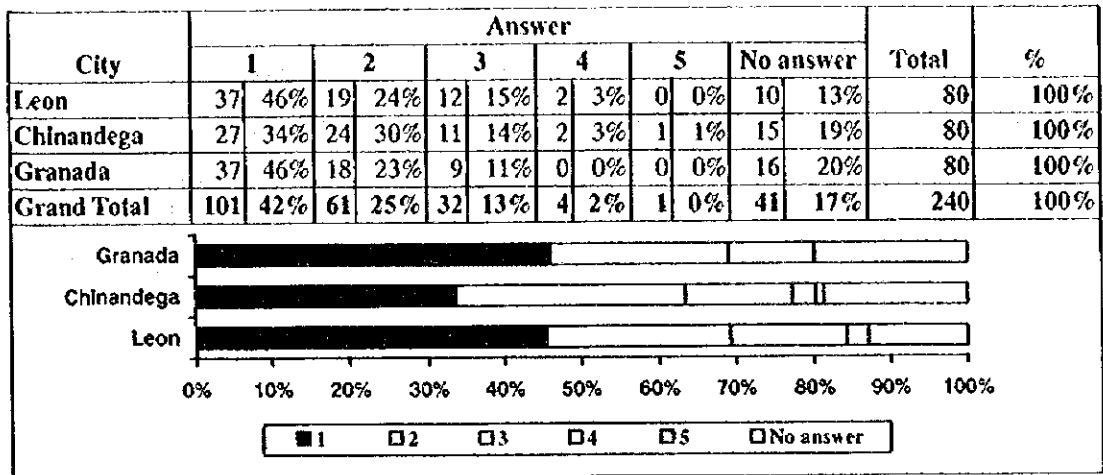


3Q81. Gastroenteric disease, diarrhea

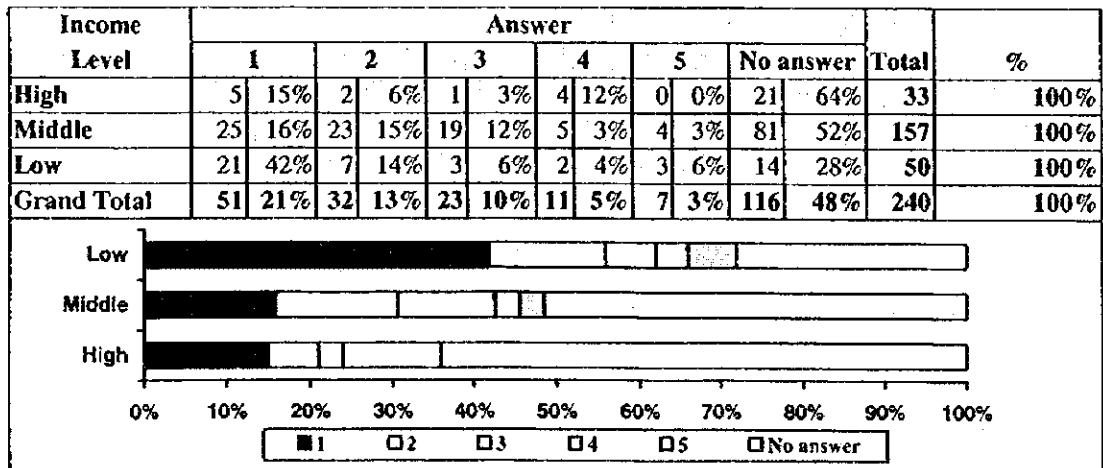
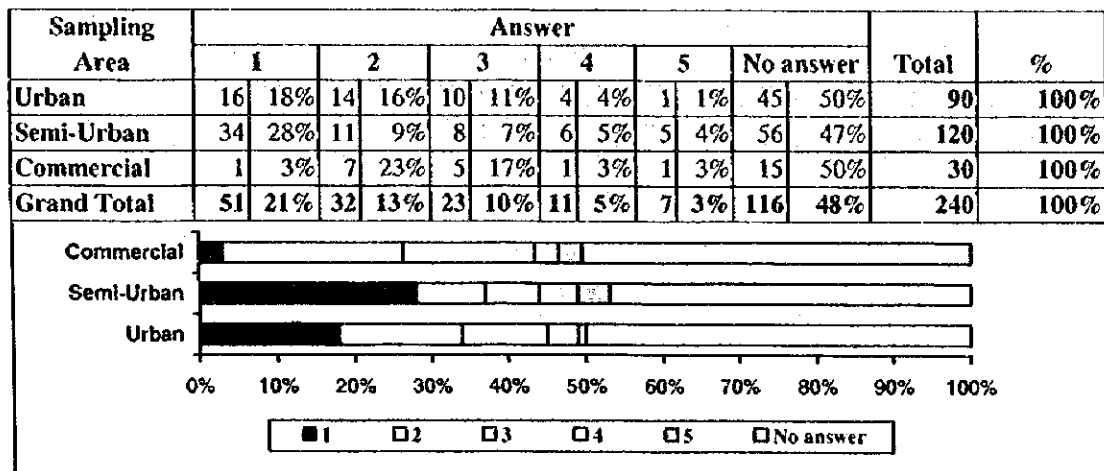
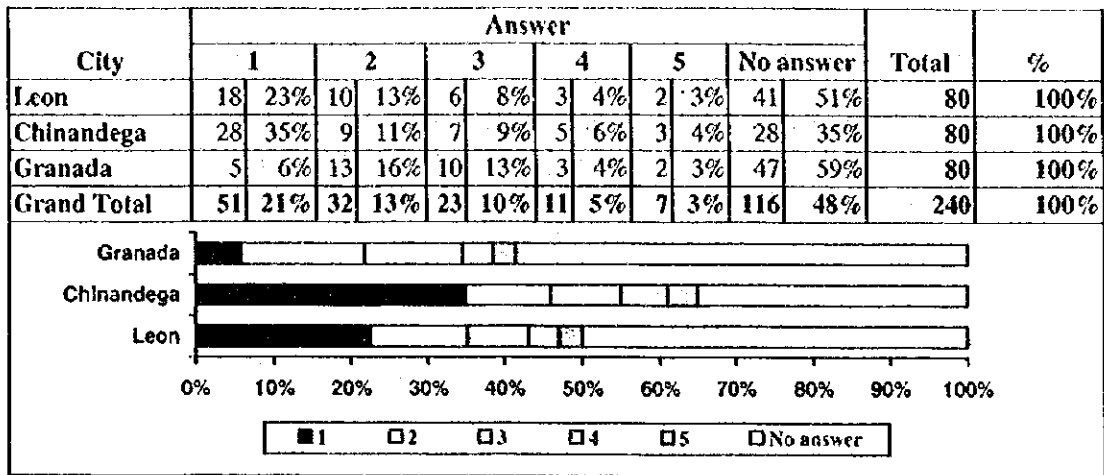




3Q82. Flu, Respiratory disease



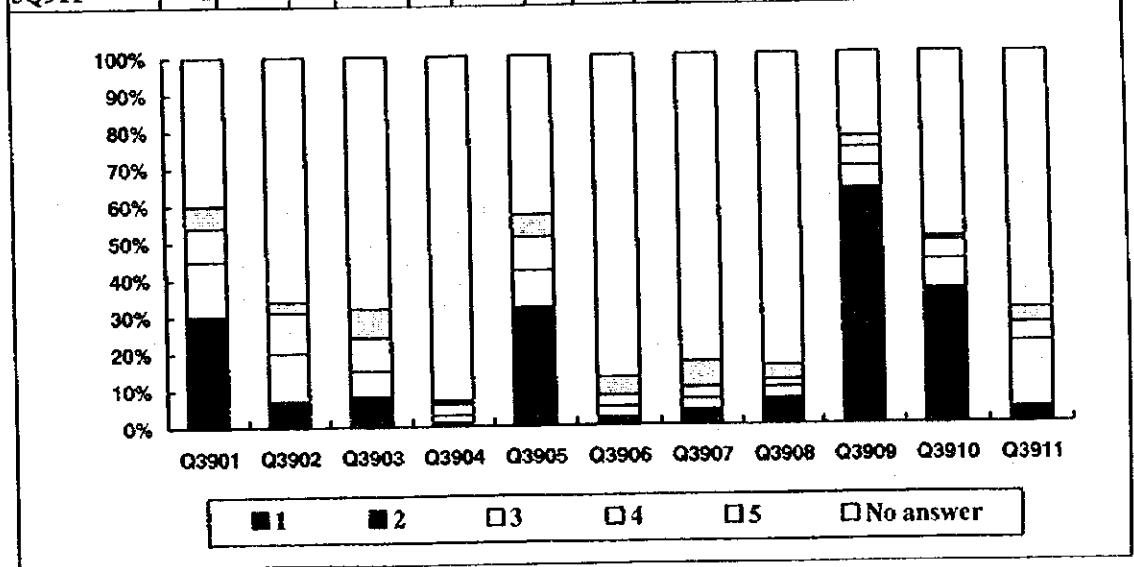
3Q85. Malaria, dengue



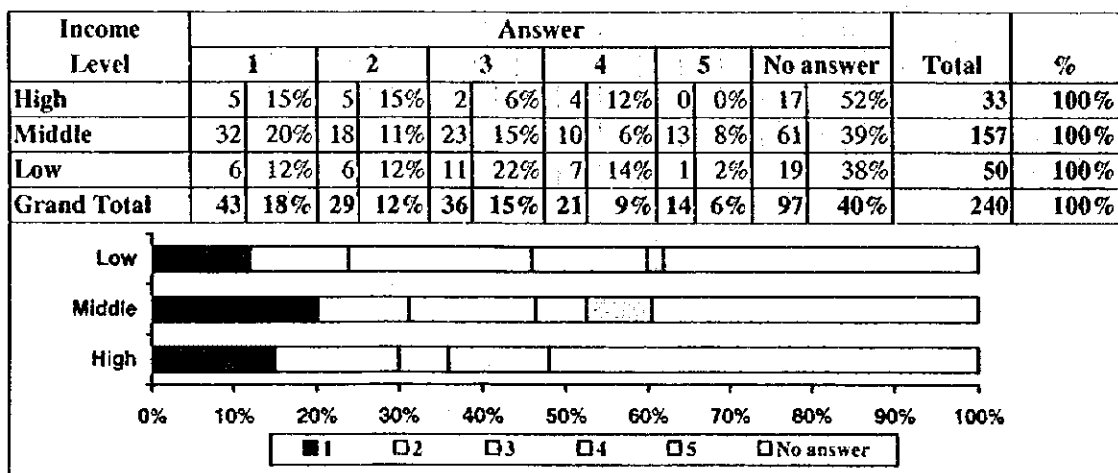
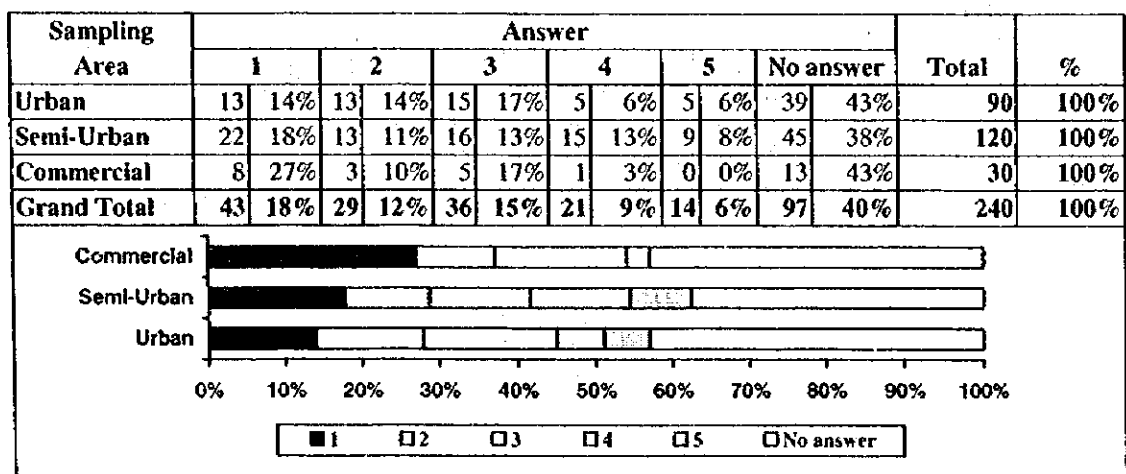
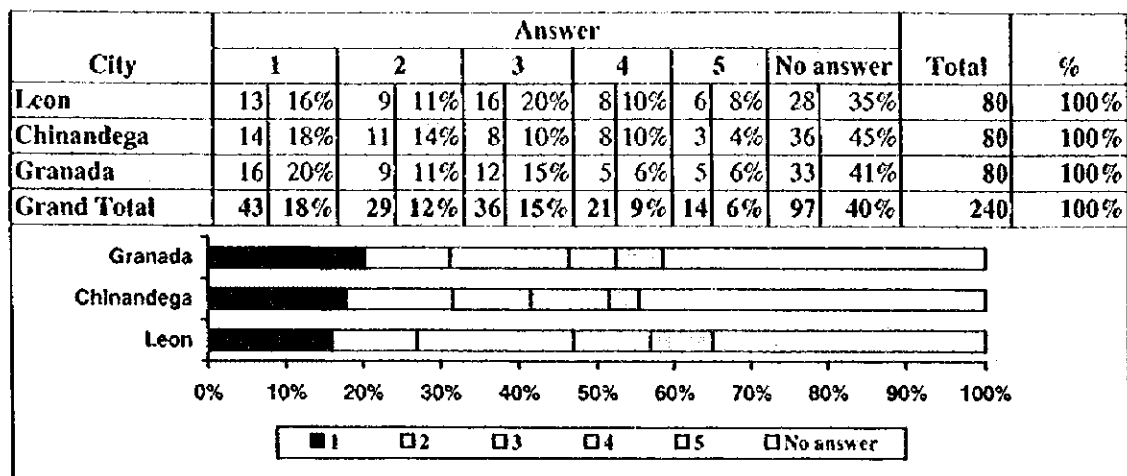
3.-Q-9 Of what diseases you and your family are most afraid of? (Please mark 1 to 5 for top 5 diseases you are afraid of)

Question	
3Q91. Gastroenteric disease, diarrhea	3Q97. Rheumatism, joint pains
3Q92. Flu, Respiratory disease,	3Q98. Urinary tract infections
3Q93. Enteric fever (typhoid, paratyphoid)	3Q99. AIDS
3Q94. Trauma, tetanus	3Q910. Hepatitis
3Q95. Malaria, dengue	3Q911. STD (Sexually Transmitted Diseases)
3Q96. Skin and eye infection	

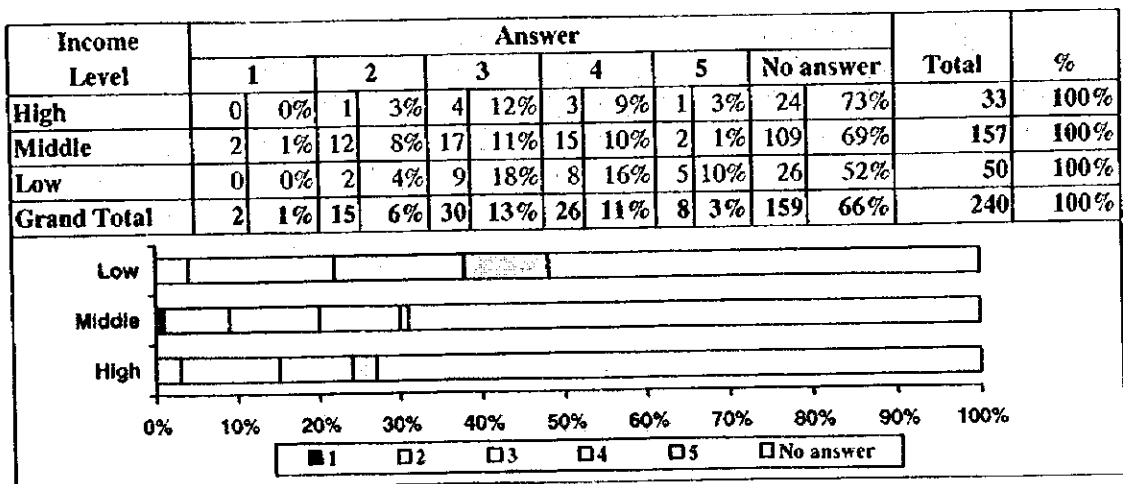
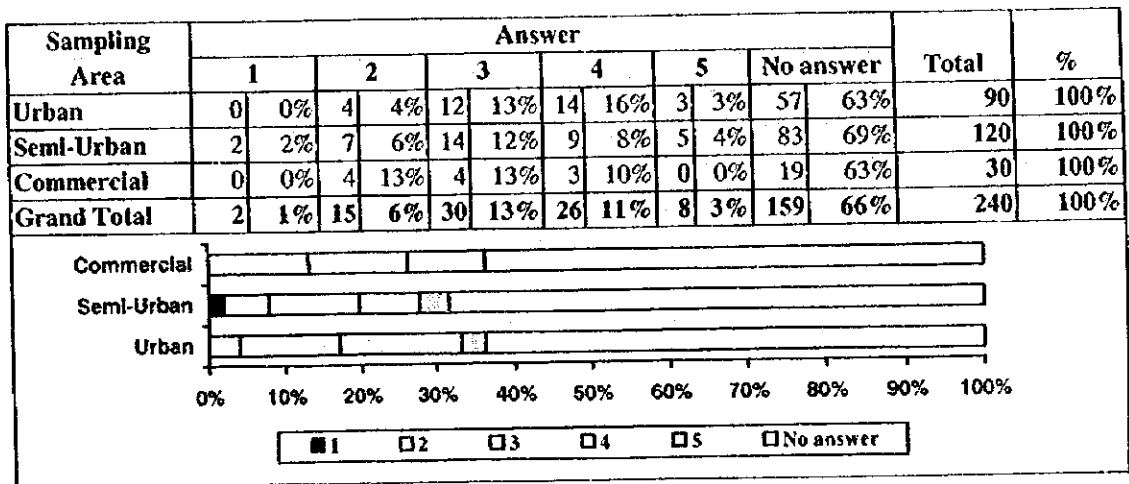
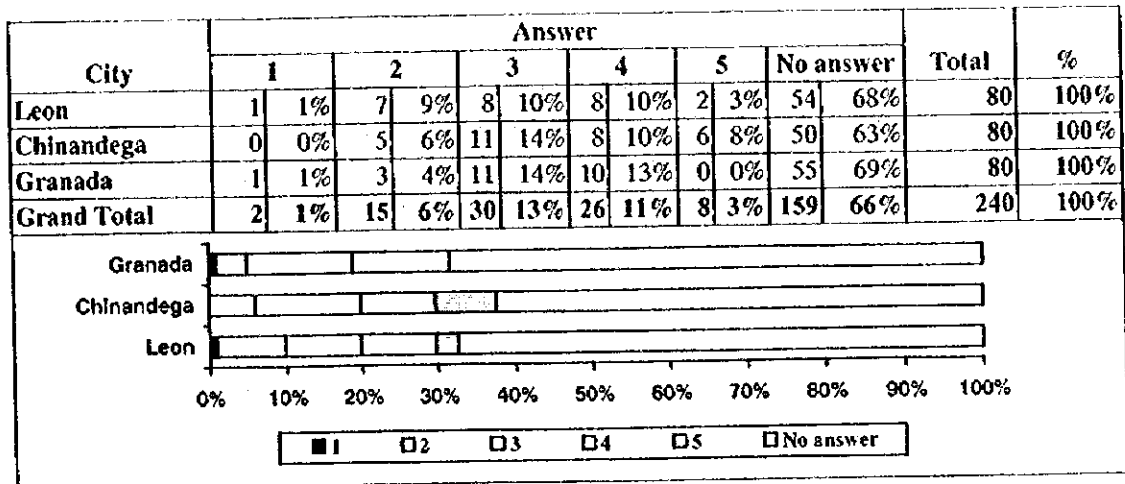
Question	Answer											Total	%	
	1		2		3		4		5		No answer			
3Q91	43	18%	29	12%	36	15%	21	9%	14	6%	97	40%	240	100%
3Q92	2	1%	15	6%	30	13%	26	11%	8	3%	159	66%	240	100%
3Q93	6	3%	13	5%	17	7%	22	9%	20	8%	162	68%	240	100%
3Q94	0	0%	2	1%	5	2%	8	3%	3	1%	222	93%	240	100%
3Q95	18	8%	58	24%	24	10%	22	9%	14	6%	104	43%	240	100%
3Q96	1	0%	4	2%	8	3%	7	3%	11	5%	209	87%	240	100%
3Q97	4	2%	5	2%	7	3%	7	3%	17	7%	200	83%	240	100%
3Q98	11	5%	5	2%	6	3%	5	2%	10	4%	203	85%	240	100%
3Q99	139	58%	14	6%	14	6%	12	5%	6	3%	55	23%	240	100%
3Q910	6	3%	78	33%	20	8%	12	5%	3	1%	121	50%	240	100%
3Q911	2	1%	7	3%	43	18%	11	5%	10	4%	167	70%	240	100%



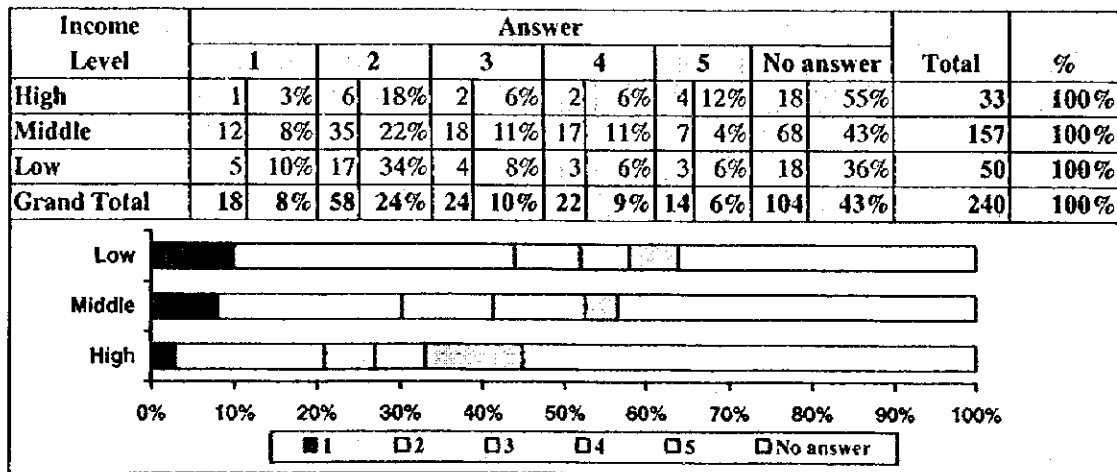
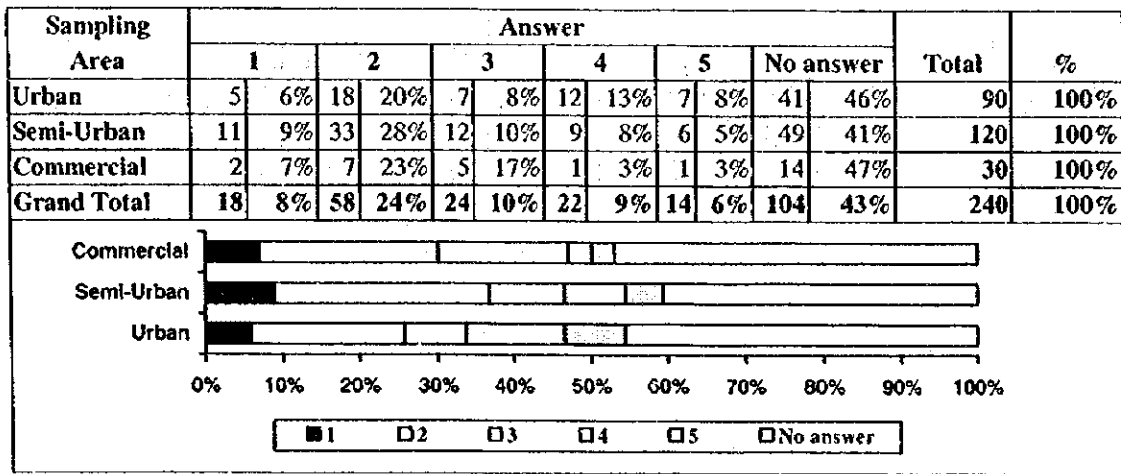
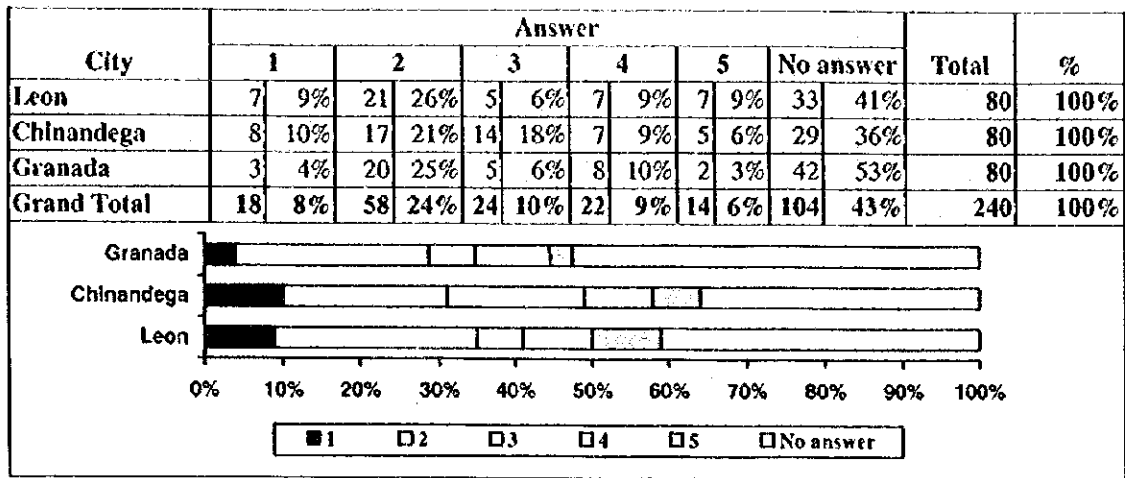
3Q91. Gastroenteric disease, diarrhea



3Q92. Flu, Respiratory disease



3Q95. Malaria, dengue



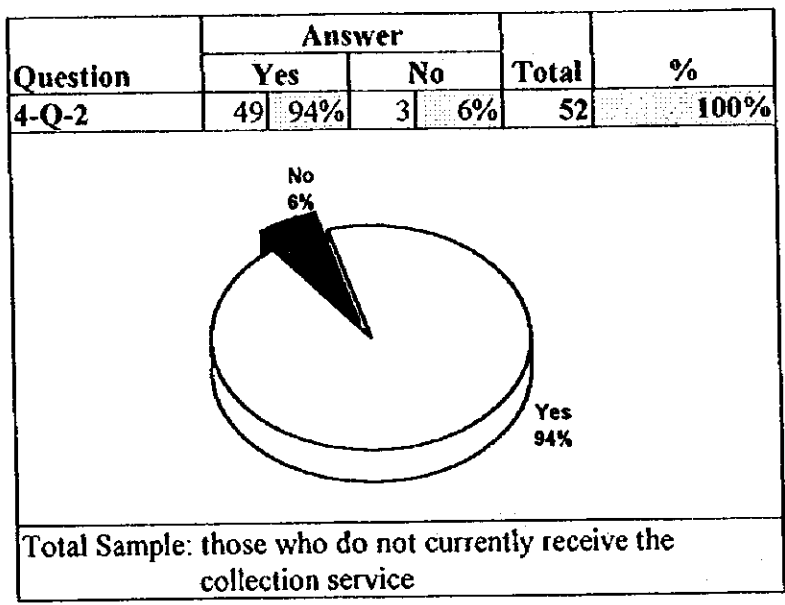
3.-Q-10 What measures do you take for the prevention and/or cure of the disease (please specify) (plural answers)

(please specify)

**4. Needs and WTP (Willingness to pay) for the Improvement of USE**

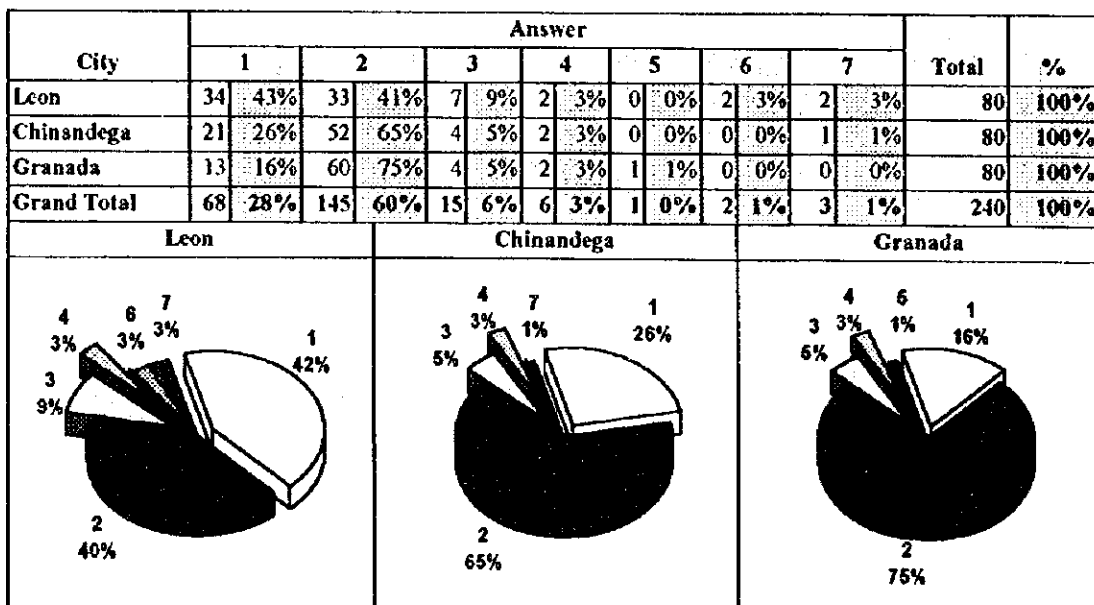
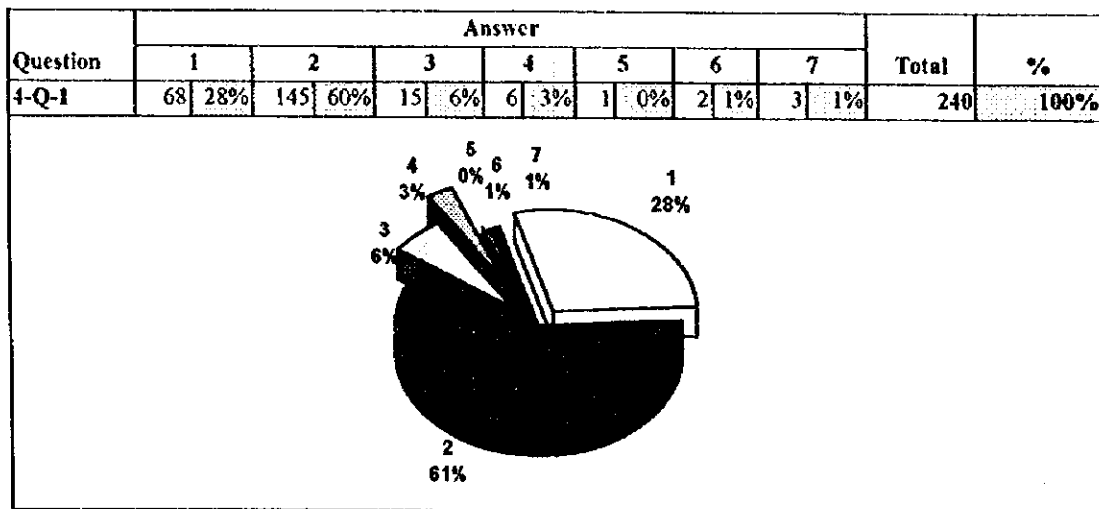
(Solid Waste Management: 4.-Q-1 to 4.-Q-4)

4.-Q-1 Do you want to receive a collection service?



4.-Q-2 The present budget of solid waste management is not sufficient for maintaining the sufficient solid waste management services of the City. Who do you think should bear the extra cost?

Answer	
1.	Central government
2.	City Council
3.	Citizens by means of collection fee increase
4.	Citizens by means of cooperation in the cleaning work, etc.
5.	Others
6.	I don't know
7.	No answer



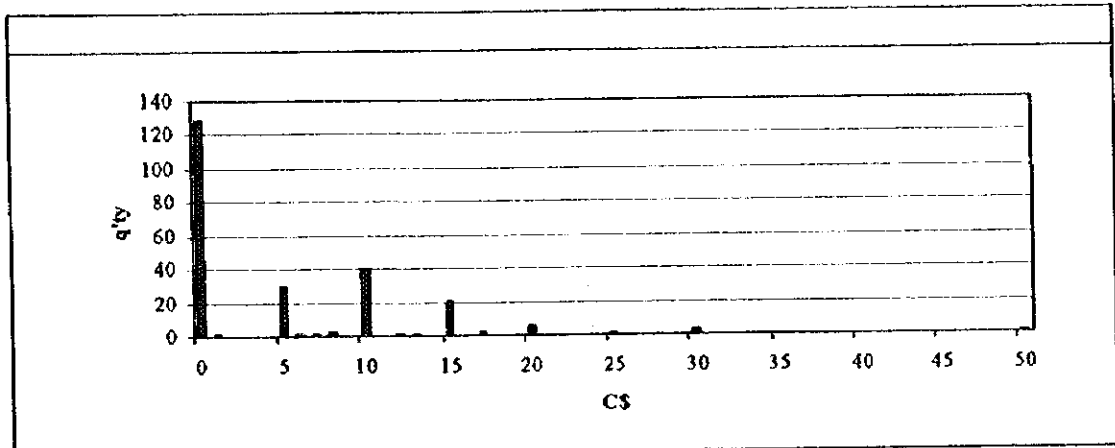


4.-Q-3 Willingness to pay

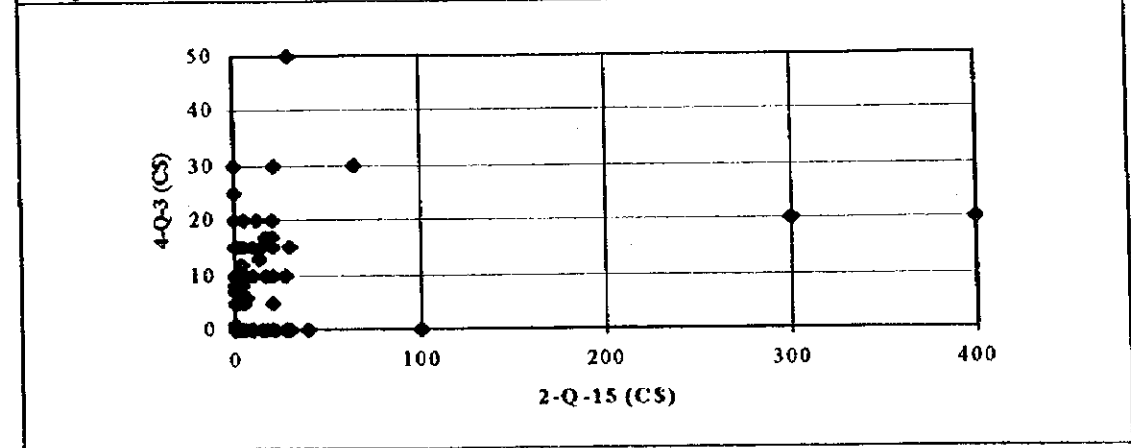
Suppose that present waste collection service will be improved as what you are waiting for.

Please imagine the maximum (additional) amount of money that your family/shop would be able to pay each month as solid waste collection fee. If the cost burden to your family/shop was more than this amount, your family/shop could not pay and would not be able to receive the collection service ?

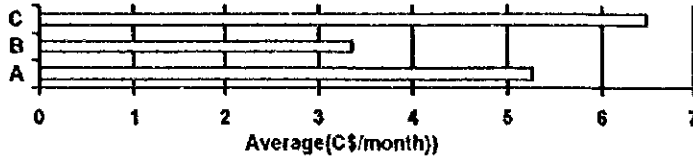
1. maximum additional amount of money ..... \_\_\_\_\_ C\$



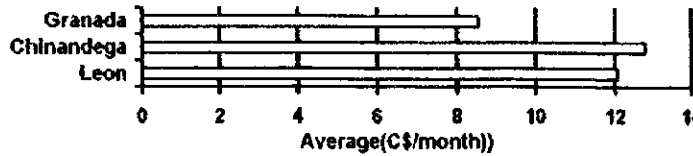
2-Q-15.  
4-Q-3



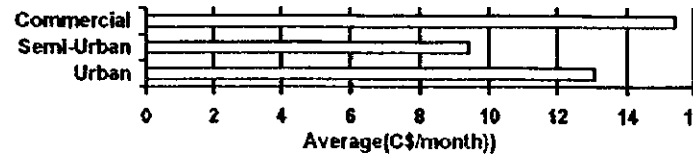
Category	Total(C\$)	q'ty	Average(C\$)
A. Receive service and presently pay	743	141	5.27
B. Receive service and presently no pay	154	46	3.35
C. Receive no service	337	52	6.48
<b>Grand Total</b>	<b>1234</b>	<b>239</b>	<b>5.16</b>



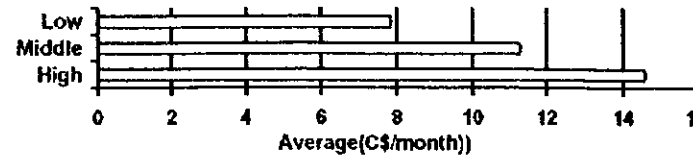
City	Total (C\$)	q'ty	Average (C\$/month)
Leon	518	43	12.05
Chinandega	422	33	12.79
Granada	299	35	8.54
<b>Grand Total</b>	<b>1,239</b>	<b>111</b>	<b>11.16</b>



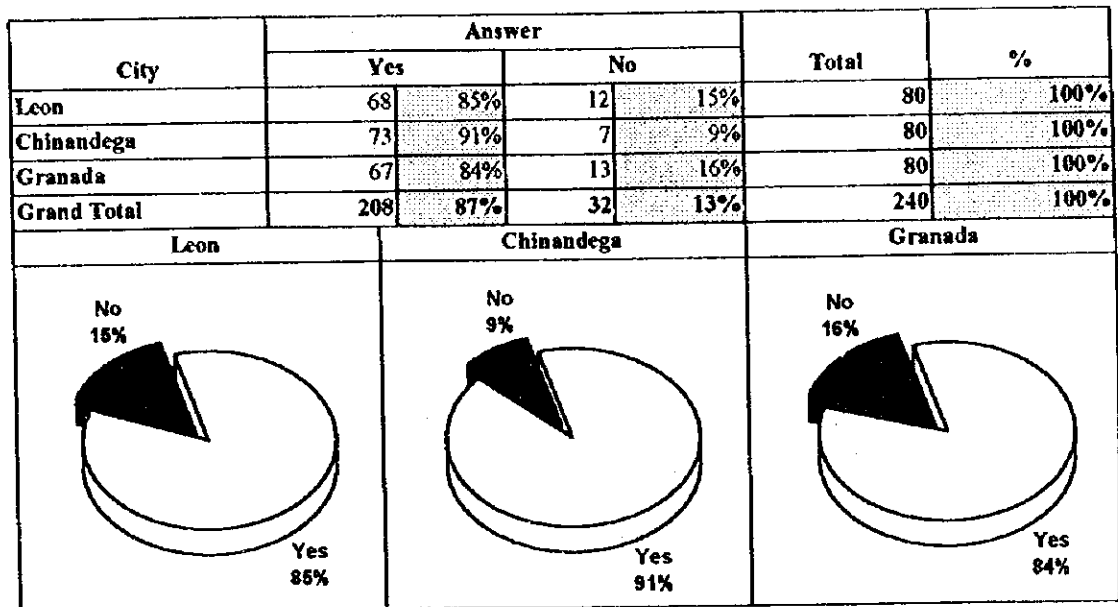
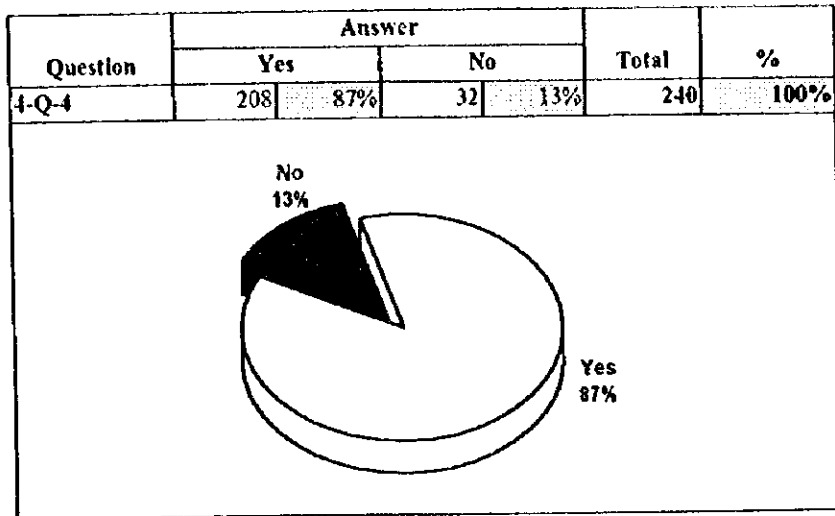
Sample area	Total (C\$)	q'ty	Average (C\$/month)
Urban	457	35	13.06
Semi-Urban	612	65	9.42
Commercial	170	11	15.45
<b>Grand Total</b>	<b>1,239</b>	<b>111</b>	<b>11.16</b>



Income level	Total (C\$)	q'ty	Average (C\$/month)
High	248	17	14.59
Middle	834	74	11.27
Low	157	20	7.85
<b>Grand Total</b>	<b>1,239</b>	<b>111</b>	<b>11.16</b>

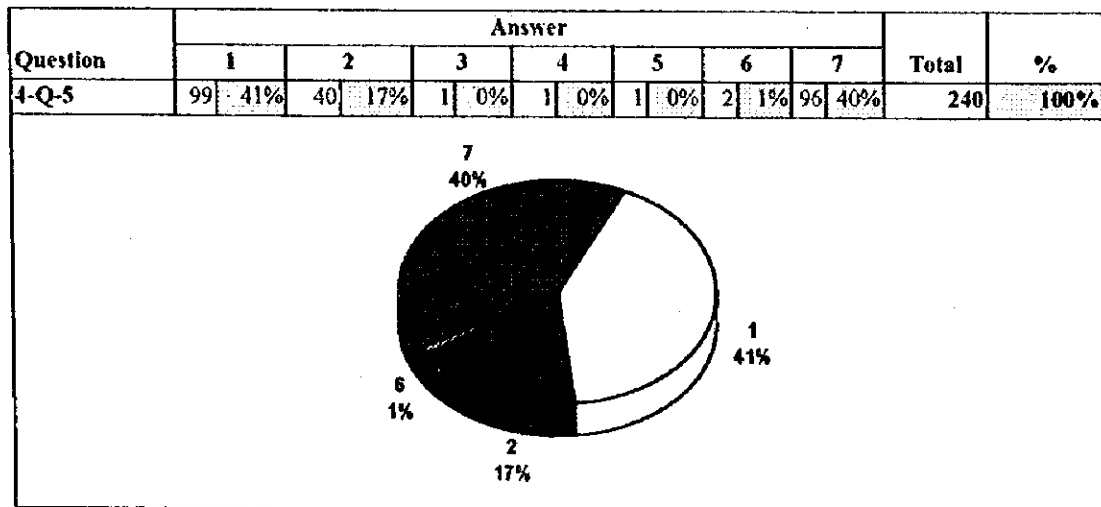


4.-Q-4 Do you have sufficient safe water supply service?

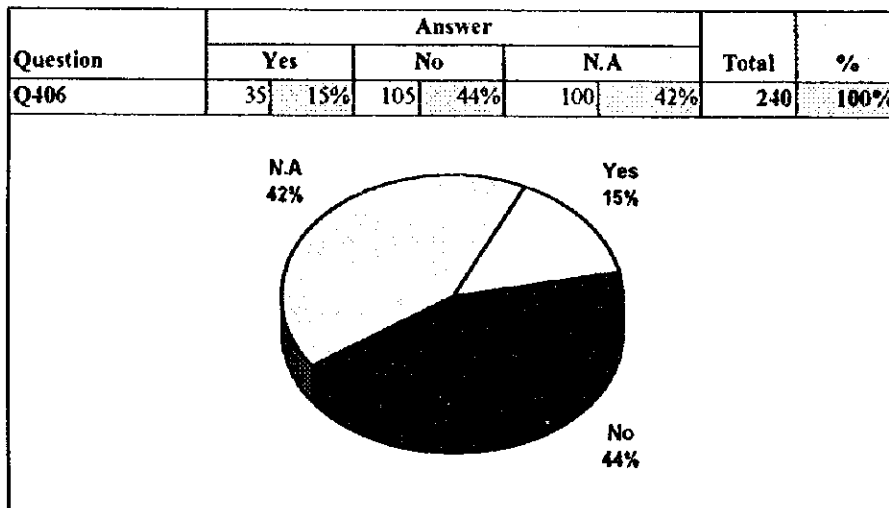


4.-Q-5 The present budget of water supply management is not sufficient for maintaining the sufficient water supply services of the City. Who do you think should bear the extra cost?

Answer	
1.	Central government
2.	City Council
3.	Citizens by means of collection fee increase
4.	Citizens by means of cooperation in minimizing the use of water, etc.
5.	Others
6.	I don't know
7.	No answer



4.-Q-6 Do you want to receive sufficient and safe water supply service?

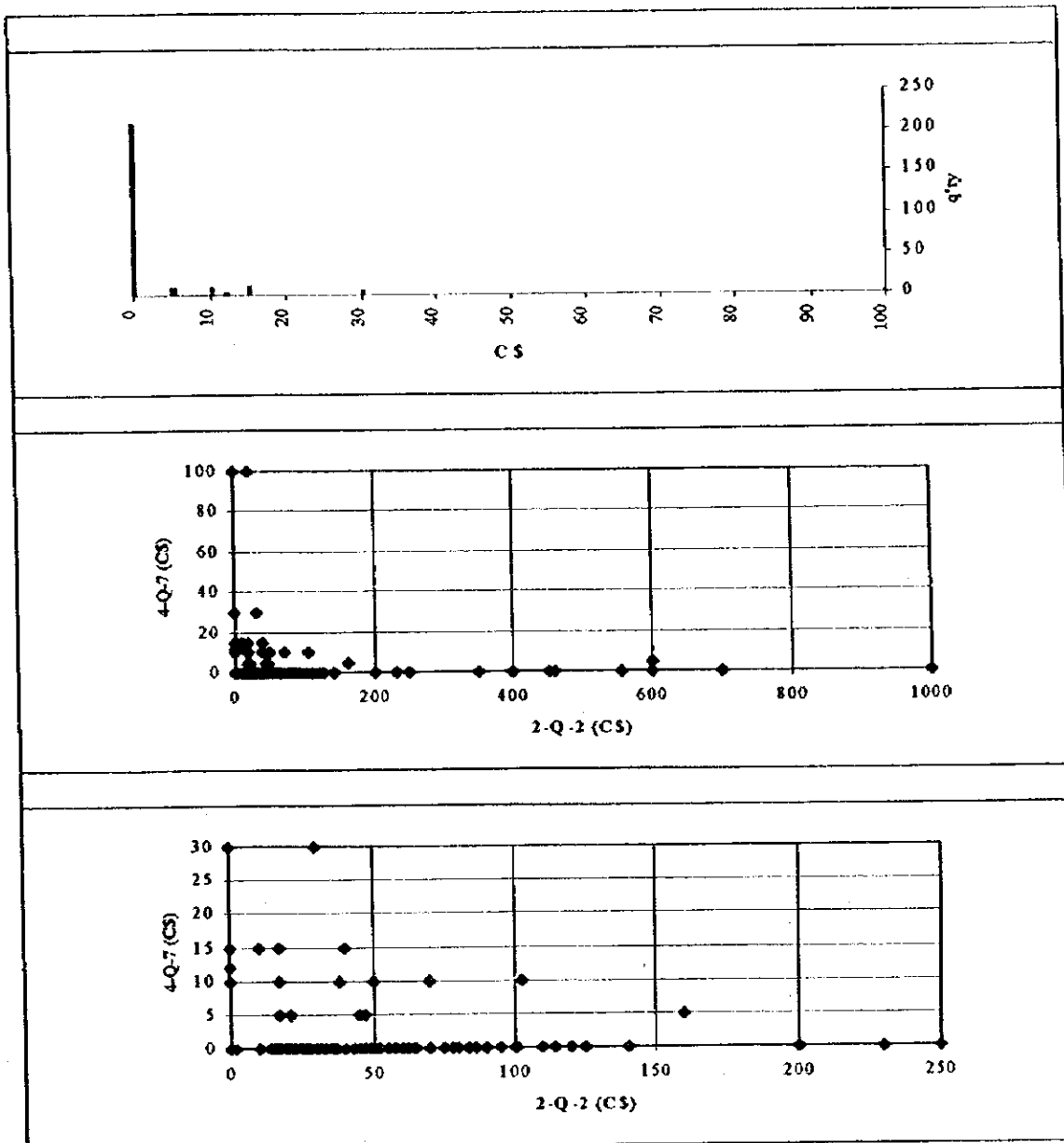


#### 4.-Q-7 Willingness to pay

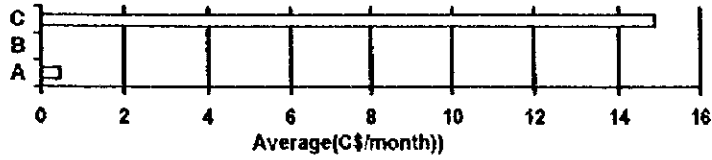
Suppose that present water supply service will be improved as what you are waiting for.

Please imagine the maximum (additional) amount of money that your family/shop would be able to pay each month as fees of water supply services. If the cost burden to your family/shop was more than this amount, your family/shop could not pay and would not be able to receive the water supply service ?

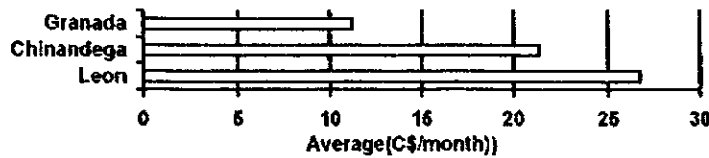
1. maximum additional amount of money ..... C\$
2. I don't know



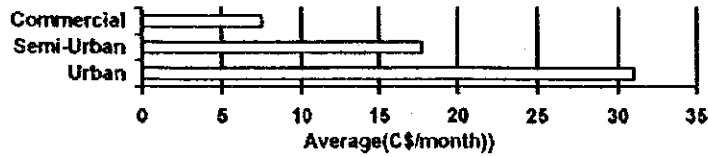
Category	Total(C\$)	q'ty	Average(C\$/month)
A. Receive service and presently pay	95	207	0.46
B. Receive service but presently no pay	0	2	0.00
C. No receive service	462	31	14.90
<b>Grand Total</b>	<b>557</b>	<b>240</b>	<b>2.32</b>



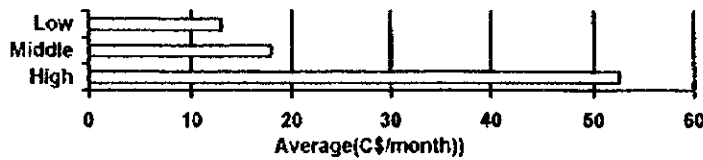
	Total(C\$)	q'ty	Average(C\$/month)
Leon	187	7	26.71
Chinandega	235	11	21.36
Granada	135	12	11.25
<b>Grand total</b>	<b>557</b>	<b>30</b>	<b>18.57</b>



Sampling Area	Total(C\$)	q'ty	Average(C\$/month)
Urban	155	5	31.00
Semi-Urban	372	21	17.71
Commercial	30	4	7.50
<b>Grand total</b>	<b>557</b>	<b>30</b>	<b>18.57</b>



Income Level	Total(C\$)	q'ty	Average(C\$/month)
High	105	2	52.50
Middle	322	18	17.89
Low	130	10	13.00
<b>Grand total</b>	<b>557</b>	<b>30</b>	<b>18.57</b>



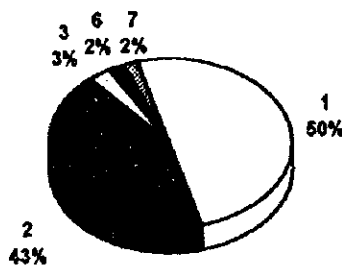
4.-Q-8 Do you have appropriate sewerage service?

Question	Answer			Total	%			
	Yes	No	Other					
4-Q-8	89	37%	149	62%	2	1%	240	100%

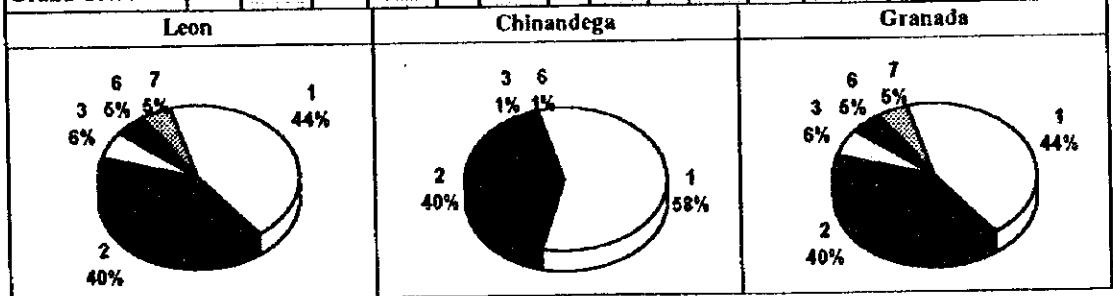
4.-Q-9 The present budget of sewerage management is not sufficient for maintaining the sufficient sewerage services of the City. Who do you think should bear the extra cost?

Answer	
1.	Central government
2.	City Council
3.	Citizens by means of collection fee increase
4.	Citizens by means of cooperation in minimizing the use of water, etc.
5.	Others
6.	I don't know
7.	No answer

Question	Answer							Total	%					
	1	2	3	4	6	7								
Q-409	120	50%	102	43%	8	3%	1	0%	5	2%	4	2%	240	100%

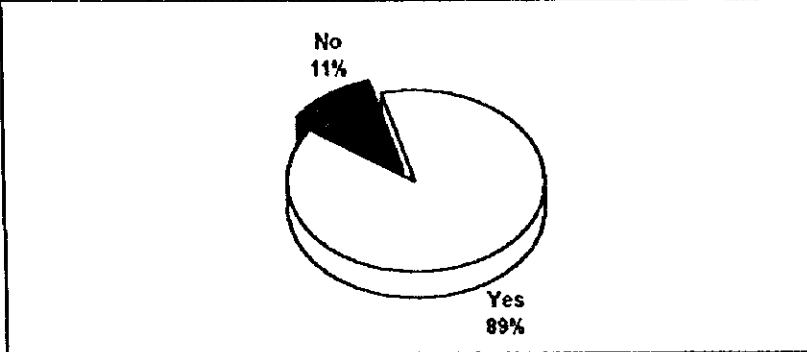


City	Answer							Total	%					
	1	2	3	5	6	7								
Leon	35	44%	32	40%	5	6%	0	0%	4	5%	4	5%	80	100%
Chinandega	46	58%	32	40%	1	1%	0	0%	1	1%	0	0%	80	100%
Granada	39	49%	38	48%	2	3%	1	1%	0	0%	0	0%	80	100%
Grand Total	120	50%	102	43%	8	3%	1	0%	5	2%	4	2%	240	100%

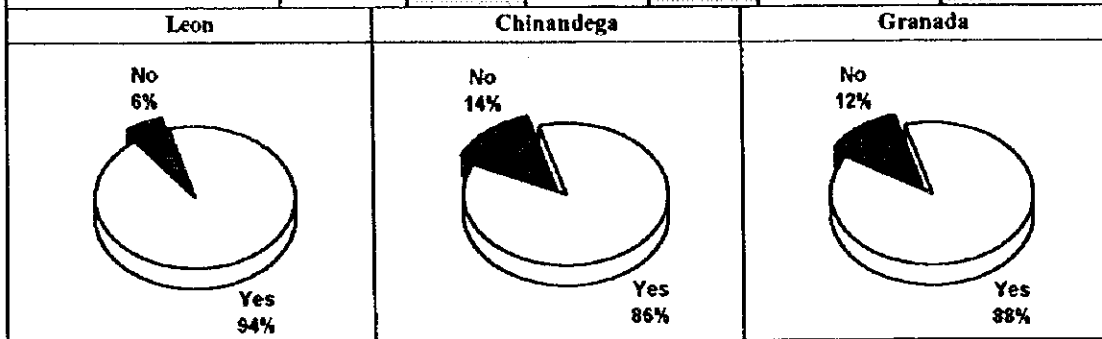


4.-Q-10 Do you want to receive appropriate sewerage service?

Question	Answer		Total	%
	Yes	No		
4-Q-10	133	16	149	100%



City	Answer		Total	%
	Yes	No		
Leon	47	3	50	100%
Chinandega	36	6	42	100%
Granada	50	7	57	100%
Grand Total	133	16	149	100%



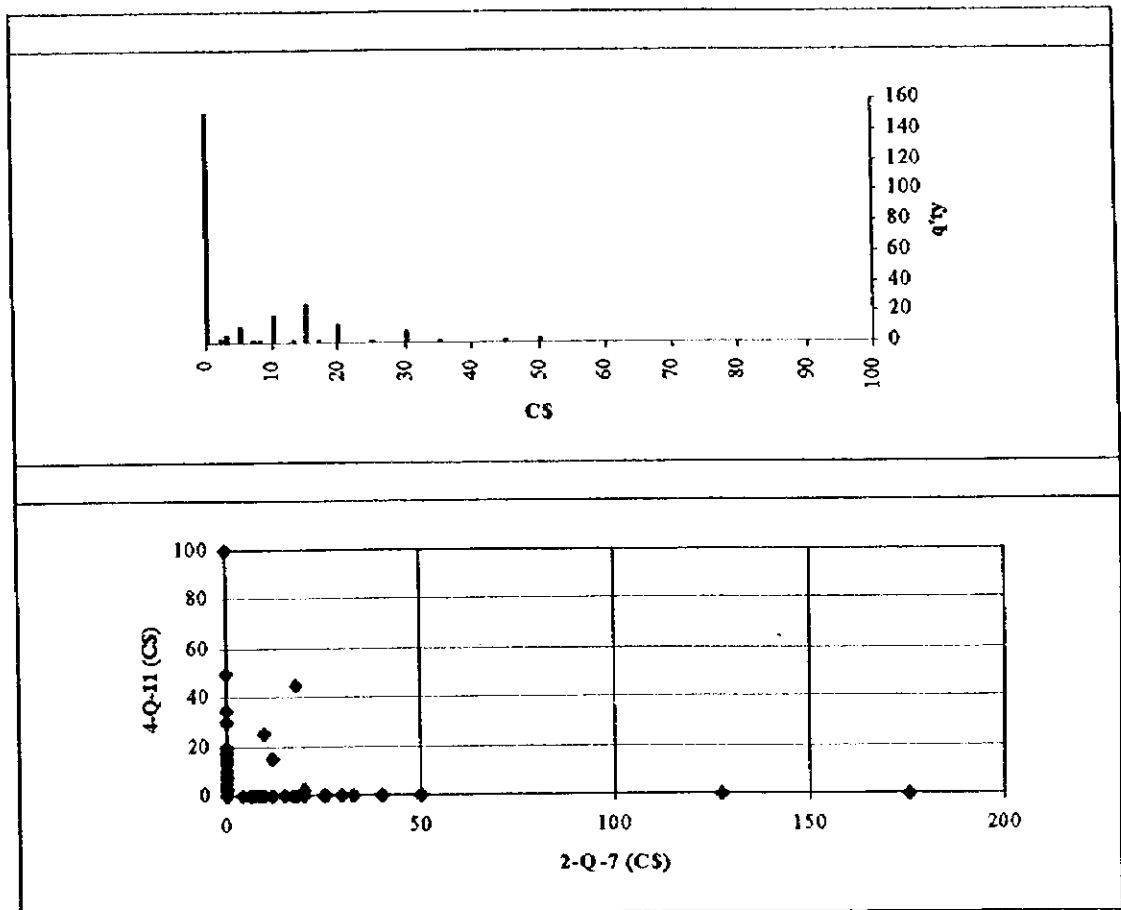


4.-Q-11 Willingness to pay

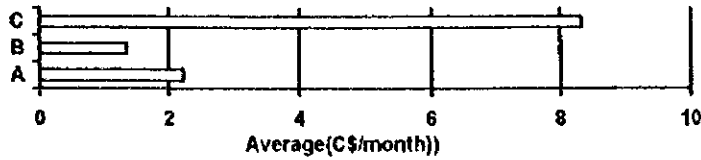
Suppose that present sewerage service will be improved as what you are waiting for.

Please imagine the maximum (additional) amount of money that your family/shop would be able to pay each month as fees of sewerage services. If the cost burden to your family/shop was more than this amount, your family/shop could not pay and would not be able to receive the sewerage service ?

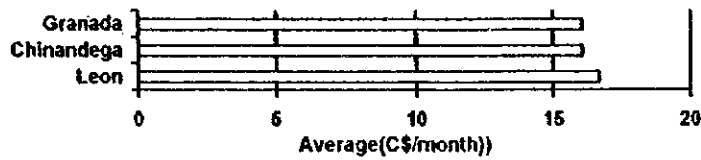
1. maximum additional amount of money ..... C\$
2. I don't know



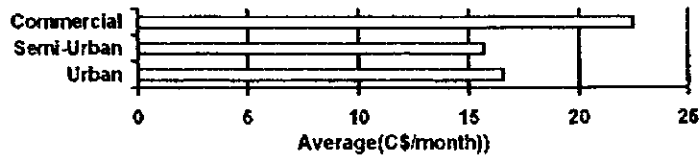
Category	Total(C\$)	q'ty	Average(C\$)
A. Receive service and presently pay	87	39	2.23
B. Receive service but presently no pay	60	44	1.36
C. No receive service	1,307	157	8.32
<b>Grand Total</b>	<b>1,454</b>	<b>240</b>	<b>6.06</b>



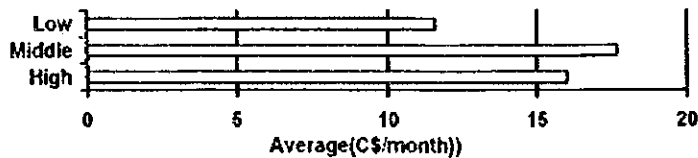
City	Total(C\$)	q'ty	Average(C\$)
Leon	600	36	16.67
Chinandega	450	28	16.07
Granada	404	25	16.16
<b>Grand Total</b>	<b>1,454</b>	<b>89</b>	<b>16.34</b>



Sampling Area	Total(C\$)	q'ty	Average(C\$)
Urban	315	19	16.58
Semi-Urban	1,004	64	15.69
Commercial	135	6	22.50
<b>Grand Total</b>	<b>1,454</b>	<b>89</b>	<b>16.34</b>



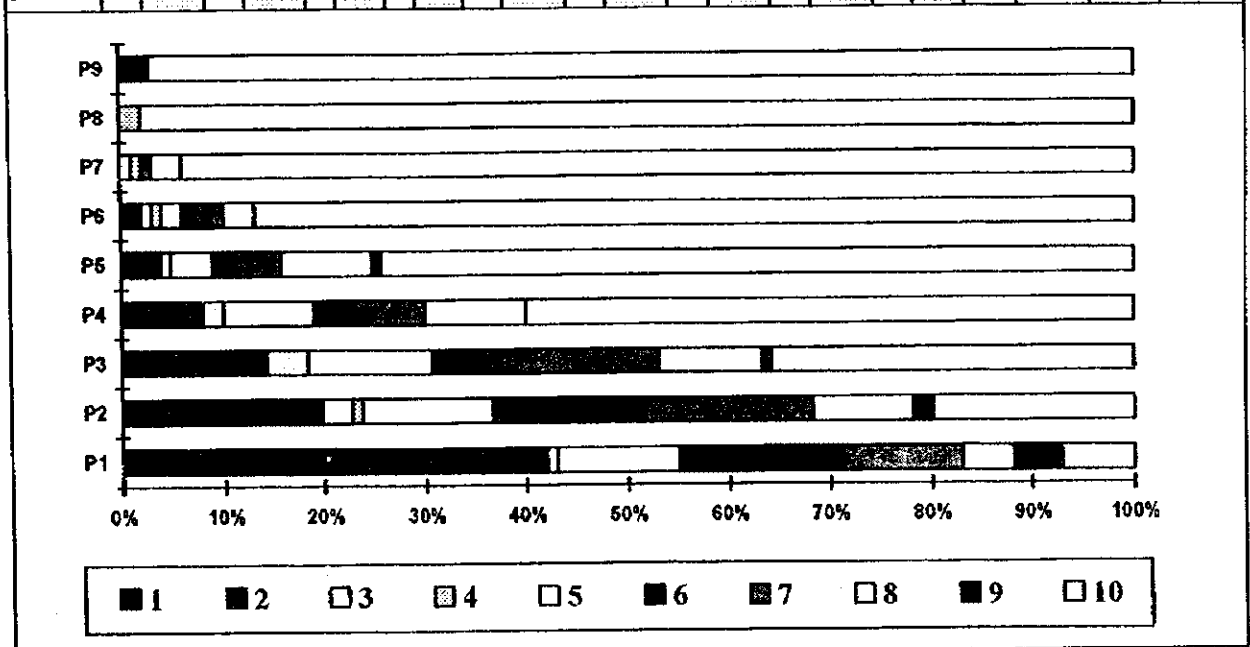
Income Level	Total(C\$)	q'ty	Average(C\$)
High	192	12	16.00
Middle	1,077	61	17.66
Low	185	16	11.56
<b>Grand Total</b>	<b>1,454</b>	<b>89</b>	<b>16.34</b>



4.-Q-12 Please specify the priority for your daily life regarding the improvement of the following aspects ?

Priority	Answer
1st.	1. Water supply
2nd.	2. Sewerage system
3rd.	3. No need to be sewerage system, but "nightsoil collection"
4th.	4. No need to be sewerage system, but "domestic waste water disposal (nightsoil and sullage)"
5th.	5. Solid waste collection
6th.	6. Electricity supply
7th.	7. Access road to my house
8th.	8. Rain water drainage
9th.	9. Others
	10. No answer

Priority	Answer																				Total	%
	1	2	3	4	5	6	7	8	9	10												
1 <sup>st</sup>	36	15%	65	27%	3	1%	1	0%	29	12%	38	16%	28	12%	11	5%	12	5%	17	7%	240	100%
2 <sup>nd</sup>	17	7%	30	13%	7	3%	3	1%	31	13%	36	15%	40	17%	24	10%	4	2%	48	20%	240	100%
3 <sup>rd</sup>	8	3%	27	11%	9	4%	1	0%	29	12%	13	5%	41	17%	24	10%	3	1%	85	35%	240	100%
4 <sup>th</sup>	5	2%	14	6%	4	2%	0	0%	22	9%	9	4%	17	7%	23	10%	1	0%	145	60%	240	100%
5 <sup>th</sup>	5	2%	4	2%	3	1%	1	0%	9	4%	4	2%	11	5%	21	9%	3	1%	179	75%	240	100%
6 <sup>th</sup>	1	0%	4	2%	3	1%	2	1%	4	2%	3	1%	8	3%	8	3%	0	0%	207	86%	240	100%
7 <sup>th</sup>	0	0%	1	0%	2	1%	3	1%	1	0%	0	0%	3	1%	6	3%	0	0%	224	93%	240	100%
8 <sup>th</sup>	0	0%	0	0%	0	0%	4	2%	0	0%	1	0%	0	0%	0	0%	0	0%	235	98%	240	100%
9 <sup>th</sup>	0	0%	0	0%	0	0%	0	0%	0	0%	1	0%	0	0%	1	0%	6	3%	232	97%	240	100%



## 5. GENERAL DATA OF INTERVIEWEE

5.-Q-1 How many persons are there in your house ?

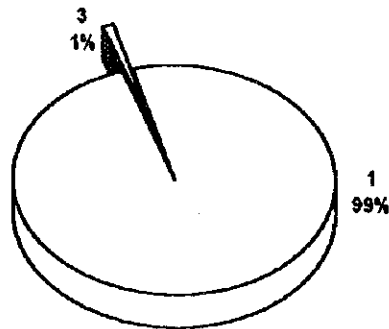
Family : \_\_\_\_\_ persons, Employee : \_\_\_\_\_ persons

	Answer (persons)																		Total	%
	1		2		3		4		5		6		7		>7		No answer			
Family	2	1%	16	7%	19	8%	41	17%	34	14%	40	17%	23	10%	64	27%	1	0%	240	100%
Employee	48	20%	26	11%	13	5%	2	1%	2	1%	1	0%	0	0%	0	0%	148	62%	240	100%

5.-Q-2 What category is your building ?

Answer
1. Detached house
2. Apartment building
3. Commercial building

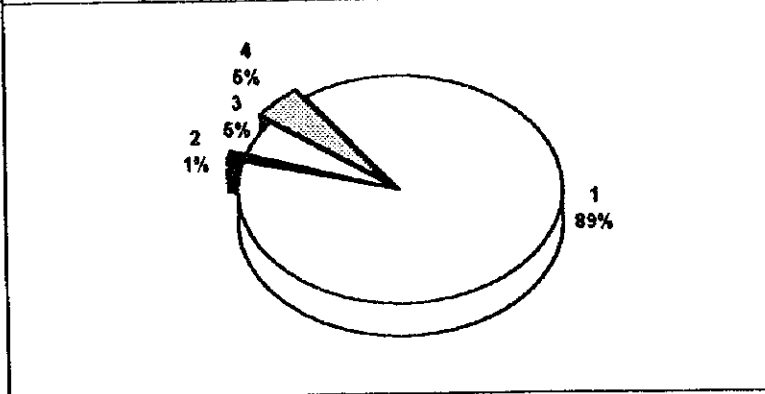
Question	Answer			Total	%			
	1	2	3					
5-Q-2	236	98%	1	0%	3	1%	240	100%



5.-Q-3 What is the business Category of the House ?

Answer	
1.	Residence
2.	Restaurant/catering shop
3.	Shops other than restaurants/catering shops
4.	Others (please specify):

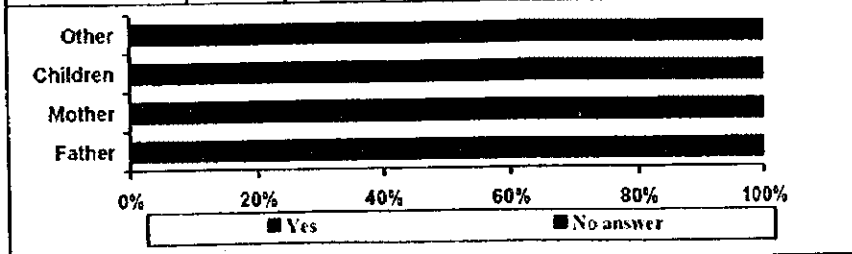
Question	Answer				Total	%
	1	2	3	4		
5-Q-3	214	3	12	11	240	100%



5.-Q-4 Who earns in your family ? (plural answer)

Answer	
1.	Father
2.	Mother
3.	Children (please specify, how many children earns ?)
4.	Other family member (please specify)

Income Level	Answer		Total	%
	1	No answer		
Father	177	63	240	100%
Mother	99	141	240	100%
Children	4	236	240	100%
Other	35	205	240	100%



5.-Q-5 How much is total expenditure of your family per month ?

Answer	
1.	Less than 500 C\$ (Cordoba)/month
2.	500 - 1,500 C\$/month
3.	1,501 - 2,000 C\$/month
4.	2,001 - 5,000 C\$/month
5.	5,001 - 10,000 C\$/month
6.	10,001 - 20,000 C\$/month
7.	More than 20,000 C\$/month

Question	Answer							Total	%
	1	2	3	4	5	6	7		
5-Q-5	50	112	45	25	6	1	1	240	100%

