

## Introduction

Environment protection is one of the main tasks that generally faces governments.

In our country, in Iraq, this task has exceptional importance, due to successive devastating wars for over two decades, which resulted in severe environmental deterioration and major pollution to environment elements, i.e. water, air, and land.

As an active participation on the part of Central Organization for Statistics and Information Technology to take care of Iraqi environment and pin down its problems, the environmental survey of Iraq for the year 2005 was conducted. The survey covered, water, sewage, and municipal services.

### 1. Water sector

The percentage of population covered by drinking water networks forms (73.7%) i.e number of population covered approaches (19202108) out of total population of (26039272) in (16) Governorates except for Erbeel and Dhok. The percentage of population covered in urban areas amounted to (79.9%) while the percentage of population covered in rural areas amounted to (61.6%). shown in table (1).

Table (2) explains that (97.3%) of water resources used in water plants were rivers and streams, while (2.1%) were well water, and that (95.1%) of water resources as rivers and streams were used in water compact units where as (2.5%) of water resources were well water .

Table (3) explains that number of water plants and number of compact units was (240), (1425) respectively, and the total number of both was (1665) in Governorates covered by the survey.

The total design capacity of plants was (346913) m<sup>3</sup> /hr, and the amount of water produced from water plants was (277226) m<sup>3</sup> /hr while the amount of water produced from water compact units only was (77943) m<sup>3</sup>/hr.

The percentage of water produced to design capacity in water plants was (79.9%).

Table (4) explains that number of population covered and their percentages according to rural and urban living areas. Covered population in urban areas within Amanat Baghdad had the highest percentage (100%), while covered population in urban areas in Maysan governorate had the lowest percentage (35.5%). Moreover, for rural areas, Karkuk governorate had the highest percentage (95.1%), where as Sulaimaniya governorate had the lowest percentage (10%).

Table (5) explains that per capita share of drinking water was (0.018) m<sup>3</sup> /hr and that the highest per capita share was in Baghdad outskirts (0.03) m<sup>3</sup> /hr, while the lowest average share was in Muthanna Governorate (0.011) m<sup>3</sup> /hr.

Table (6) shows that desalted water was produced in (Kerbela, Wasit, Qadisiya, Muthanna, Thi-Qar, and Basrah) governorates. The highest production was in Basrah governorate (600) m<sup>3</sup> /hr, while Wasit Governorate had the least amount of production (2) m<sup>3</sup>/hr.

## 2. Sewerage Sector

- Table (7) shows that the percentage of population served by sewerage networks was (25.7%) out of total population of the surveyed Governorates. While percentage of population using septic tanks was (51.2%) out of total population of the surveyed Governorates. The percentage of both population un served by sewerage networks and population using septic tanks to the total population of the surveyed Governorates was (23.1%).
- Table (8) shows that there are (38) main sewerage treatment stations and small sewerage treatment units in the (16) Governorates covered by the survey. There are (14) main sewerage treatment stations and (24) small sewerage treatment units. The table also shows that the percentage of working main sewerage treatment stations and small sewerage treatment units was (31.6%), while (31.6%) partially working, and (36.8%) out of use entirely.
- Table (9) shows that total design capacities for main sewerage treatment stations and small sewerage treatment units were (1038019) m<sup>3</sup> /day. The design capacities for main sewerage treatment stations was (97.1%), while the percentage of design capacities for small sewerage treatment units was (2.9%).The total actual design for both was (317449) m<sup>3</sup> /day, (99.5%) for main sewerage treatment station, and (0.5%) for small sewerage treatment units.
- Table (10) explains that number of population covered by sewerage networks was (6681304) i.e. a percentage of (25.7%) out of total population of the surveyed Governorates. The highest percentage of population served by sewerage networks in Sulaimaniya Governorate, next in Amant Baghdad with percentages of (80%) and (75%) respectively. Table (10) explains also the amount of water discharged from areas covered by sewerage networks which was (1525500) m<sup>3</sup> /day. The highest amount of that water was in Amant Baghdad areas (1100000) m<sup>3</sup> /day, and the lowest amount was in Muthanna governorate, about (1000) m<sup>3</sup> /day. Notice that there isn't any data in Diala and wasit governorate, for these Governorates are not covered by sewerage networks.
- Table (11) shows that the total number of polluting activities; treated and untreated activities drained to the sewage networks were (1271) activities. The total number of activities with treatment units was (111) activities, i.e. with a percentage of (8.7%).While the total number of activities with out treatment units was (1160) activities i.e. with a percentage of (91.3%). Industrial establishments occupied the highest number of polluting activities discharging to sewerage networks (596) activities while slaughterhouses represented the lowest number of polluting activities drained to sewerage networks (11) activities, distributed all over Governorates because most of slaughter operations are carried out outside slaughterhouses.

### 3. Municipality services

- Table (12) shows that total number of municipalities covered by the survey was (284) municipalities, and that a percentage of (43%) of total followed by suffer from debris, waste of war in residential areas, a percentage of (28.2%) in industrial areas, then a percentage of (27.1%) in commercial areas afterwards, a percentage of (26.1%) in public streets and at last a percentage of (19%) in public parks
- Table (13) shows the number of population served by garbage collection services and their percentages. Percentage of population served to total number of population in surveyed Governorates was (55.6%). Percentage of population served in urban areas (79.8%), knowing that residents in rural areas are not covered by garbage collection services. The same table also shows that the quantity of garbage lifted up by the municipality departments was (14920.6) Ton/day.
- Table (14) and (15) show that total number of containers distributed to the surveyed Governorates was (3565) containers excluding distributed barrels and concrete containers.  
Residential areas had the highest number of containers. They were (1807) containers, i.e. a percentage of (50.7%). Percentage of containers distributed in to governmental institutions was (18.1%), containers distributed in to commercial areas (15.2%) in to public streets (11%), in to public parks (2.7%), while number of containers distributed in to industrial areas was the least amounted to (84) containers, i.e. a percentage of (2.3%).
- Tables (16) and (17) show that the total number of pressing trucks was (1558), and only (1232) pressing trucks were working i.e. a percentage of (79.1%), where as (326) pressing trucks are out of use, i.e. a percentage of (20.9%). Amant Baghdad had the highest number of pressing trucks, (379) pressing trucks working which represent a percentage of (82.6%) and (80) pressing truck out of use which represent a percentage of (17.4%).  
  
The number of hired vehicles and facilities that used to cover municipalities services was (1820) vehicles and facilities. Amanat Baghdad had the highest number, that is (970) vehicles and facilities a percentage of (53.3%). Thi-Qar Governorate had the lowest number, that is (2) vehicles and facilities.  
Rate of garbage collection per week was (4.2) in the surveyed governorates. Amant Baghdad had the highest rate of garbage collection (6) times per week and Al-Anbar had the lowest average of garbage collection (1.1) times per week.
- Table (17) also shows that the percentage of number of municipalities having facility for house's garbage collection was (96.8%) at Governorates municipality level, while a percentage of (3.2%) of municipalities didn't have any facilities for house's garbage collection.  
The same table also shows that these owned or hired vehicles and facilities were insufficient to cover the municipalities services, a (89.2%) of municipalities declared that, owned or hired vehicles and facilities were insufficient to cover the municipalities services where as, only a percentage of (10.8%) of municipalities declared that they had enough vehicles and facilities to meet their needs.
- Tables (18) and (19) show that the highest percentage of town cleaning was for main streets (96.1%) that is in (273) municipalities, followed by markets at a percentage of (94.4%) that is in (268) municipalities, public parks having a percentage of (81.3%) that is in (231) municipalities, while the highest rate of cleaning times per week was for cleaning markets (5.3) times, followed by cleaning streets at a rate of (5) times, cleaning public grounds at a rate of (3.1) times per week.

- **Table (20) explains method of garbage treatment and disposing. Disposing of garbage by throwing them in empty lots had the highest percentage of method of disposing (39.4%), followed by disposing to sanitary landfill sites at a percentage of (39.1%). Where as neither recycling nor selling, garbage to non licensed contractors took place.**
- **Table (21) shows that number of sanitary land fill sites is (237) sites. (167) sites, having a percentage of (70.5%) were within the environmental standards, while (70) sites were out of the environmental standards i.e. a percentage of (29.5%). The same table also shows that the number of transferring station (Temporary accumulation stations) is (69) stations, and their total areas equal to (519) Donum. Most of them located within Amant Baghdad area having the number of (12) transferring stations.**
- **Table (22) shows the percentage of garbage landfill sites according to municipality basic design. A percentage of (98.4%) of sites were out of the basic design of municipalities according to the accredited standards. It was noticed that there is one filling site within the basic design of Baghdad city, which represent a percentage of (33.3%).**  
**The table also shows ground water levels in landfills sites. (38.9) m was the highest ground water average depth, which was in Sulaimaniya landfill, next was (22.3) m ground water average depth in Diala landfill, while Al-Muthanna and Maysan landfills had the lowest ground water average depth (1.0) m.**
- **Table (23) shows the main requirements that landfill sites should have such as fence, paved and suitable roads to ensure easy transport of garbage and solid waste, administration, and monitoring offices, toilets, scale, tools, and facilities used for dumping. Percentages showed shortage in meeting the requirements mentioned above. No fences available in most landfill sites, only a percentage of (28.1%) out of total sites, and there is no scale except in (1.6%) out of total landfill sites, while equipments and tools could be found only in (10.9%) of total land fill sites.**

**Table (1)**

**Total population and No. and percentages of population covered by drinking water networks, according to urban and rural areas at national level for the year 2005.**

<b>Area</b>	<b>*Total population</b>	<b>No. of population covered by drinking water networks</b>	<b>Percentage of covered population</b>
<b>Urban</b>	<b>17259925</b>	<b>13795892</b>	<b>79.9</b>
<b>Rural</b>	<b>8779347</b>	<b>5406216</b>	<b>61.6</b>
<b>Total</b>	<b>26039272</b>	<b>19202108</b>	<b>73.7</b>

**\* Population estimates prepared by the( Central Organization for Statistics and Information Technology) for the year 2005- except for Erbeel and Dhok governorates**

**Table (2)**

**Percentage of water resources used in drinking water plants and water compact units at national level for the year 2005.**

<b>Water resources</b>	<b>Water resource used in water plants</b>		<b>Water resource used in water compact units</b>	
	<b>No. of Govrnorates</b>	<b>Percentage%</b>	<b>No. of Govrnorates</b>	<b>Percentage%</b>
<b>Rivers and streams</b>	<b>16</b>	<b>97.3</b>	<b>15</b>	<b>95.1</b>
<b>Wells</b>	<b>5</b>	<b>2.1</b>	<b>4</b>	<b>2.5</b>
<b>Others</b>	<b>3</b>	<b>0.6</b>	<b>2</b>	<b>2.4</b>
<b>Total</b>		<b>100.0</b>		<b>100.0</b>

**Table (3)**

**Number of drinking water plants and water compact units; total design capacities, and amount of produced water at national level for the year 2005\*.**

<b>Classifications</b>	<b>Number</b>	<b>Percentage%</b>	<b>Designed capacity (m3/hr)</b>	<b>Quantity of produced water(m3/hr)</b>	<b>Percentage of produced water to design capacity</b>
<b>Plants**</b>	<b>240</b>	<b>14.4</b>	<b>346913</b>	<b>277226</b>	<b>79.9</b>
<b>Compact units***</b>	<b>1425</b>	<b>85.6</b>		<b>77943</b>	
<b>Total</b>	<b>1665</b>	<b>100.0</b>		<b>355169</b>	

**Note\*** Data concerning the survey of water sector was amended according to data available in Ministry of Municipality and PublicWorks \ General Directorate for Water .

**\*\*** Water plants : is a series of connected units , which start with water withdrawal from different sources (River, lake, well and accumulation tank ) passing through filtration and disinfection processes and pumping major cities directly or by enforcing stations.

**\*\*\*** Compact units: are small purification units, having the same sequences of water plant, their infrastructure is made of galvanized iron to insure easy and fast construction, but still less efficient than water plants, and are used in villages and rural areas.

Table ( 4 )

Total population and no. and percentages of population covered by drinking water networks according to urban and rural areas and Governorate for the year 2005.

Governorate	Total population	No. of population.		No. of covered population*			Percentage of covered population %		
		Urban	Rural	Urban	Rural	Urban & Rural	Urban	Rural	Urban & Rural
Nineveh	2637327	1607788	1029539	1347157	898104	2245261	83.8	87.2	85.1
Sulaimaniya	1773100	1248380	524720	898834	52472	951306	72.0	10.0	53.7
Karkuk	870098	603971	266127	563105	252989	816094	93.2	95.1	93.8
Diala	1464437	608338	856099	556206	768095	1324301	91.4	89.7	90.4
Anbar	1379322	715493	663829	471398	435136	906534	65.9	65.5	65.7
Amant Baghdad	5345099	5345099	0	5345099	0	5345099	100.0	0.0	100.0
Baghdad outskirts	1438888	561511	877377	258295	245666	503961	46.0	28.0	35.0
Babylon	1544679	728068	816611	363435	409831	773266	49.9	50.2	50.1
Kerbela	819376	532756	286620	466245	251055	717300	87.5	87.6	87.5
Wasit	1001615	524453	477162	351586	324540	676126	67.0	68.0	67.5
Salah Al-Deen	1104935	509739	595196	471625	385875	857500	92.5	64.8	77.6
Najaf	1011597	696504	315093	514860	231314	746174	73.9	73.4	73.8
Qadisiya	937261	488615	448646	322823	297911	620734	66.1	66.4	66.2
Muthanna	574351	253596	320755	110660	140840	251500	43.6	43.9	43.8
Thi - Qar	1518962	884079	634883	402670	284646	687316	45.5	44.8	45.2
Maysan	782826	509551	273275	181114	97522	278636	35.5	35.7	35.6
Basrah	1835399	1441984	393415	1170780	330220	1501000	81.2	83.9	81.8
<b>Total</b>	<b>26039272</b>	<b>17259925</b>	<b>8779347</b>	<b>13795892</b>	<b>5406216</b>	<b>19202108</b>	<b>79.9</b>	<b>61.6</b>	<b>73.7</b>

\* No. of population covered by drinking water networks was adjusted according to data received from Ministry of Municipality and Public Works \ General Directorate for Water .

**Table ( 5 )**

**Number of population covered and average per capita amount of drinking water in cubic meters/hr and total design and produce capacities according to Governorate for the year 2005.**

<b>Governorate</b>	<b>No. of population covered by drinking water services</b>	<b>Average capita share of drinking water ( m<sup>3</sup>/hr. )</b>	<b>Total plants design capacities (m<sup>3</sup>/hr. )</b>	<b>Total quantity of produced water from water plants and water compact units (m<sup>3</sup>/hr. )</b>
<b>Nineveh</b>	<b>2245261</b>	<b>0.018</b>	<b>41561</b>	<b>41232</b>
<b>Sulaimaniya</b>	<b>951306</b>	<b>0.018</b>	<b>22000</b>	<b>17000</b>
<b>Karkuk</b>	<b>816094</b>	<b>0.024</b>	<b>23171</b>	<b>19547</b>
<b>Diala</b>	<b>1324301</b>	<b>0.019</b>	<b>16523</b>	<b>24974</b>
<b>Anbar</b>	<b>906534</b>	<b>0.018</b>	<b>19791</b>	<b>16733</b>
<b>Amant Baghdad</b>	<b>5345099</b>	<b>0.017</b>	<b>106000</b>	<b>89000</b>
<b>Baghdad outskirts</b>	<b>503961</b>	<b>0.030</b>	<b>12902</b>	<b>14953</b>
<b>Babylon</b>	<b>773266</b>	<b>0.019</b>	<b>13664</b>	<b>14371</b>
<b>Kerbela</b>	<b>717300</b>	<b>0.018</b>	<b>15753</b>	<b>13164</b>
<b>Wasit</b>	<b>676126</b>	<b>0.019</b>	<b>9832</b>	<b>12711</b>
<b>Salah Al-Deen</b>	<b>857500</b>	<b>0.019</b>	<b>16876</b>	<b>15872</b>
<b>Najaf</b>	<b>746174</b>	<b>0.018</b>	<b>14077</b>	<b>13689</b>
<b>Qadisiya</b>	<b>620734</b>	<b>0.017</b>	<b>9841</b>	<b>10754</b>
<b>Muthanna</b>	<b>251500</b>	<b>0.011</b>	<b>4352</b>	<b>2877</b>
<b>Thi - Qar</b>	<b>687316</b>	<b>0.020</b>	<b>5589</b>	<b>13429</b>
<b>Maysan</b>	<b>278636</b>	<b>0.021</b>	<b>3209</b>	<b>5758</b>
<b>Basrah</b>	<b>1501000</b>	<b>0.019</b>	<b>11773</b>	<b>29105</b>
<b>Total</b>	<b>19202108</b>	<b>0.018</b>	<b>346913</b>	<b>355169</b>

**Table ( 6 )****Quantity of desalted water produced and average per capita amount according to Governorate for the year 2005.**

<b>Governorate</b>	<b>Number of population</b>	<b>Quantity of desalted water produced (m3\hr)</b>	<b>Average capita amount of desalted water (m3\hr.)</b>
<b>Nineveh</b>	<b>2637327</b>	<b>0</b>	<b>0</b>
<b>Sulaimaniya</b>	<b>1773100</b>	<b>0</b>	<b>0</b>
<b>Karkuk</b>	<b>870098</b>	<b>0</b>	<b>0</b>
<b>Diala</b>	<b>1464437</b>	<b>0</b>	<b>0</b>
<b>Anbar</b>	<b>1379322</b>	<b>0</b>	<b>0</b>
<b>Amant Baghdad</b>	<b>5345099</b>	<b>0</b>	<b>0</b>
<b>Baghdad outskirts</b>	<b>1438888</b>	<b>0</b>	<b>0</b>
<b>Babylon</b>	<b>1544679</b>	<b>0</b>	<b>0</b>
<b>Kerbela</b>	<b>819376</b>	<b>25</b>	<b>0.00003</b>
<b>Wasit</b>	<b>1001615</b>	<b>2</b>	<b>0.000002</b>
<b>Salah Al-Deen</b>	<b>1104935</b>	<b>0</b>	<b>0</b>
<b>Najaf</b>	<b>1011597</b>	<b>0</b>	<b>0</b>
<b>Qadisiya</b>	<b>937261</b>	<b>25</b>	<b>0.00003</b>
<b>Muthanna</b>	<b>574351</b>	<b>110</b>	<b>0.0002</b>
<b>Thi - Qar</b>	<b>1518962</b>	<b>80</b>	<b>0.00005</b>
<b>Maysan</b>	<b>782826</b>	<b>0</b>	<b>0</b>
<b>Basrah</b>	<b>1835399</b>	<b>600</b>	<b>0.0003</b>
<b>Total</b>	<b>26039272</b>	<b>842</b>	<b>0.00003</b>

**Table ( 7 )**

**Number of population covered and uncovered by sewerage networks at national level for the year 2005.**

<b>Details.</b>		<b>Data</b>
<b>Existence of sewage networks</b>	<b>No. of population covered by sewage networks</b>	<b>6681304</b>
	<b>Percentage of population covered by sewage networks to total population of the covered governorates</b>	<b>28.3</b>
	<b>Percentage of population covered by sewage networks to total population of the governorates covered by the survey.</b>	<b>25.7</b>
<b>Existence of septic tanks</b>	<b>No. of population using septic tanks</b>	<b>13332107</b>
	<b>Percentage of population covered by septic tanks to total population of the governorates covered by septic tanks</b>	<b>54.9</b>
	<b>Percentage of population covered by septic tanks to total population of the governorates covered by the survey.</b>	<b>51.2</b>
<b>Un existence of sewage networks or septic tanks system</b>	<b>No. of population uncovered by neither networks nor sewage septic tanks system</b>	<b>6025861</b>
	<b>Percentage of population uncovered by niether septic tanks nor sewage networks to total population of the uncovered governorates .</b>	<b>33.2</b>
	<b>Percentage of population uncovered by niether sewage networks nor septic tanks to total population of the governorates covered by the survey.</b>	<b>23.1</b>
<b>Total</b>	<b>NO. of governorates</b>	<b>16</b>
	<b>Total population</b>	<b>26039272</b>

**Table ( 8 )**

**Condition of central sewage treatment stations and small sewage treatment units at national level for the year 2005. \***

Condition of treatment station	Central treatment stations		Small sewage treatment units		Total	Percentage summation%
	No.	Percentage	No.	Percentage%		
Working	8	57.1	4	16.7	12	31.6
Partially working	3	21.4	9	37.5	12	31.6
out of use	3	21.4	11	45.8	14	36.8
<b>Total</b>	<b>14</b>	<b>100.0</b>	<b>24</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>

**Table ( 9 )**

**Total designed and actual capacities of central sewage treatment stations and small sewage treatment units and their percentages at national level for the year 2005.\***

Kind of capacities	Central treatment stations		Small sewage treatment units		Total M3 /day	Percentages%
	M3 /day	Percentage%	M3 /day	Percentage %		
Designed capacity	1008000	97.1	30019	2.9	1038019	100.0
Actual capacity	316000	99.5	1449	0.5	317449	100.0

**\*Data was adjusted after consultation with General Sewage Department / Ministry of Municipality and Public Works**

**Table ( 10 )**

**Number and percentages of population covered by sewerage networks and the quantity of sewage disposed according to Governorate for the year 2005.**

<b>Governorate</b>	<b>Total population</b>	<b>No. of population covered by sewage networks *</b>	<b>Percentage of covered population</b>	<b>Quantity of sewage discharged from covered areas M3 /day</b>
<b>Nineveh</b>	<b>2637327</b>	<b>61500</b>	<b>2.3</b>	<b>15375</b>
<b>Sulaimaniya</b>	<b>1773100</b>	<b>1418480</b>	<b>80.0</b>	<b>112000</b>
<b>Karkuk</b>	<b>870098</b>	<b>9000</b>	<b>1.0</b>	<b>2250</b>
<b>Diala</b>	<b>1464437</b>	<b>0</b>	<b>0.0</b>	<b>0</b>
<b>Anbar</b>	<b>1379322</b>	<b>35500</b>	<b>2.6</b>	<b>8875</b>
<b>Amant Baghdad</b>	<b>5345099</b>	<b>4008824</b>	<b>75.0</b>	<b>1100000</b>
<b>Baghdad outskirts</b>	<b>1438888</b>	<b>12000</b>	<b>0.8</b>	<b>3000</b>
<b>Babylon</b>	<b>1544679</b>	<b>50000</b>	<b>3.2</b>	<b>12500</b>
<b>Kerbela</b>	<b>819376</b>	<b>150000</b>	<b>18.3</b>	<b>37500</b>
<b>Wasit</b>	<b>1001615</b>	<b>0</b>	<b>0.0</b>	<b>0</b>
<b>Salah Al-Deen</b>	<b>1104935</b>	<b>82000</b>	<b>7.4</b>	<b>20500</b>
<b>Najaf</b>	<b>1011597</b>	<b>180000</b>	<b>17.8</b>	<b>45000</b>
<b>Qadisiya</b>	<b>937261</b>	<b>50000</b>	<b>5.3</b>	<b>12500</b>
<b>Muthanna</b>	<b>574351</b>	<b>4000</b>	<b>0.7</b>	<b>1000</b>
<b>Thi - Qar</b>	<b>1518962</b>	<b>95000</b>	<b>6.3</b>	<b>23750</b>
<b>Maysan</b>	<b>782826</b>	<b>75000</b>	<b>9.6</b>	<b>18750</b>
<b>Basrah</b>	<b>1835399</b>	<b>450000</b>	<b>24.5</b>	<b>112500</b>
<b>Total</b>	<b>26039272</b>	<b>6681304</b>	<b>25.7</b>	<b>1525500</b>

**\* Data of population served by sewage networks was according to the data received from general sewage department**

Table (11 )/ to be continued

Type and number of treated and untreated polluting activities which drained to sewerage networks according to Governorate for the year 2005.

Governorates	No. of treated and untreated polluting activities according to type								
	Hospitals			Industrial establishments			Garages services		
	No.	No. of treated activities	No. of untreated activities	No.	No. of treated activities	No. of untreated activities	No.	No. of treated activities	No. of untreated activities
Nineveh	0	0	0	0	0	0	0	0	0
Sulaimaniya	12	12	0	2	2	0	20	15	5
Karkuk	0	0	0	0	0	0	0	0	0
Diala	0	0	0	0	0	0	0	0	0
Anbar	6	1	5	0	0	0	0	0	0
Amant Baghdad	99	0	99	469	10	459	52	52	0
Baghdad outskirts	0	0	0	0	0	0	0	0	0
Babylon	2	0	2	2	0	2	2	0	2
Kerbela	3	3	0	2	2	0	0	0	0
Wasit	0	0	0	0	0	0	0	0	0
Salah Al-Deen	0	0	0	0	0	0	0	0	0
Najaf	3	2	1	1	0	1	0	0	0
Qadisiya	2	0	2	0	0	0	0	0	0
Muthanna	0	0	0	0	0	0	0	0	0
Thi - Qar	2	0	2	0	0	0	0	0	0
Maysan	1	1	0	0	0	0	4	4	0
Basrah	16	0	16	120	0	120	75	0	75
<b>Total</b>	<b>146</b>	<b>19</b>	<b>127</b>	<b>596</b>	<b>14</b>	<b>582</b>	<b>153</b>	<b>71</b>	<b>82</b>

Table ( 11 ) / to be continued

Type and number of treated and untreated polluting activities which drained to sewerage networks according to Governorate for the year 2005.

Governorates	No. of treated and untreated polluting activities according to type											
	Slaughterhouses			Agricultural activities			Others			Total of treated activities	Total of untreated activities	Total activities
	No.	No. of treated activities	No. of untreated activities	No.	No. of treated activities	No. of untreated activities	No.	No. of treated activities	No. of untreated activities			
Nineveh	0	0	0	0	0	0	0	0	0	0	0	0
Sulaimaniya	2	2	0	0	0	0	0	0	0	31	5	36
Karkuk	0	0	0	0	0	0	0	0	0	0	0	0
Diala	0	0	0	0	0	0	0	0	0	0	0	0
Anbar	0	0	0	0	0	0	0	0	0	1	5	6
Amant Baghdad	8	0	8	0	0	0	365	5	360	67	926	993
Baghdad outskirts	0	0	0	0	0	0	0	0	0	0	0	0
Babylon	0	0	0	0	0	0	0	0	0	0	6	6
Kerbela	0	0	0	0	0	0	0	0	0	5	0	5
Wasit	0	0	0	0	0	0	0	0	0	0	0	0
Salah Al-Deen	0	0	0	0	0	0	0	0	0	0	0	0
Najaf	0	0	0	0	0	0	0	0	0	2	2	4
Qadisiya	0	0	0	0	0	0	0	0	0	0	2	2
Muthanna	0	0	0	0	0	0	0	0	0	0	0	0
Thi - Qar	0	0	0	0	0	0	0	0	0	0	2	2
Maysan	0	0	0	0	0	0	0	0	0	5	0	5
Basrah	1	0	1	0	0	0	0	0	0	0	212	212
<b>Total</b>	<b>11</b>	<b>2</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>365</b>	<b>5</b>	<b>360</b>	<b>111</b>	<b>1160</b>	<b>1271</b>

**Table(12)**

**Percentage of municipalities suffering from debris , construction waste and war residues; according to regions at national level for the year 2005.**

<b>Area</b>	<b>Percentage of municipalities suffering from debris , construction waste and war residues</b>				<b>Total</b>
	<b>No. of suffering municipalities</b>	<b>Percentage</b>	<b>No. of municipalities not suffering</b>	<b>Percentage</b>	
<b>Residential</b>	<b>122</b>	<b>43.0</b>	<b>162</b>	<b>57.0</b>	<b>100.0</b>
<b>Commercial</b>	<b>77</b>	<b>27.1</b>	<b>207</b>	<b>72.9</b>	<b>100.0</b>
<b>Industrial</b>	<b>80</b>	<b>28.2</b>	<b>204</b>	<b>71.8</b>	<b>100.0</b>
<b>Public parks</b>	<b>54</b>	<b>19.0</b>	<b>230</b>	<b>81.0</b>	<b>100.0</b>
<b>Main streets</b>	<b>74</b>	<b>26.1</b>	<b>210</b>	<b>73.9</b>	<b>100.0</b>

Table(13)

Number of population served by garbage collection services; garbage quantity collected ; according to Governorate for the year 2005.

Governorate	Total population	No. of urban population	Number of population served by garbage collection services;	Percentage of population served to urban population	Percentage of population served to total population	Quantity of garbage collected ton/day
Nineveh	2637327	1607788	1546692	96.2	58.6	1540.7
Sulaimaniya	1773100	1248380	1188458	95.2	67.0	1275.4
Karkuk	870098	603971	157032	26	18.0	535.7
Diala	1464437	608338	357094	58.7	24.4	759.2
Anbar	1379322	715493	470079	65.7	34.1	497.7
Amant Baghdad	5345099	5345099	4917491	92	92.0	9510.0
Baghdad outskirts	1438888	1438888	890672	61.9	61.9	436.9
Babylon	1544679	728068	557700	76.6	36.1	902.9
Kerbela	819376	532756	531158	99.7	64.8	443.3
Wasit	1001615	524453	346139	66	34.6	497.3
Salah Al-Deen	1104935	509739	445002	87.3	40.3	1146.1
Najaf	1011597	696504	598993	86	59.2	4029.2
Qadisiya	937261	488615	416789	85.3	44.5	2174.8
Muthanna	574351	253596	199834	78.8	34.8	434.4
Thi - Qar	1518962	884079	684277	77.4	45.0	156.2
Maysan	782826	509551	181400	35.6	23.2	186.8
Basrah	1835399	1441984	986317	68.4	53.7	1179.3
<b>Total</b>	<b>26039272</b>	<b>18137302</b>	<b>14475127</b>	<b>79.8</b>	<b>55.6</b>	<b>14920.6</b>

Note: Collected garbage includes solid waste, construction waste and scrub according to general municipality department data

Table(14)

Number of garbage containers distributed to regions according to Governorate for the year 2005.

Governorate	Number of garbage containers distributed according to regions						Total number of containers
	Residential	Commercial	Institutional	Industrial	Public parks	Main streets	
Nineveh	118	57	21	2	0	14	211
Sulaimaniya	58	16	15	8	1	0	98
Karkuk	62	16	34	6	0	12	131
Diala	110	24	13	4	3	15	170
Anbar	94	0	0	11	6	17	128
Amant Baghdad	689	250	426	34	25	202	1626
Baghdad outskirts	25	2	6	2	1	5	41
Babylon	106	48	19	6	1	14	195
Kerbela	37	0	14	2	0	4	57
Wasit	19	9	4	2	2	32	67
Salah Al-Deen	79	15	18	3	1	0	116
Najaf	56	21	9	1	3	17	106
Qadisiya	40	15	21	1	3	15	95
Muthanna	213	30	18	0	43	27	331
Thi - Qar	51	15	18	1	3	15	103
Maysan	39	5	12	0	2	2	60
Basrah	10	20	0	0	0	0	30
<b>Total</b>	<b>1807</b>	<b>542</b>	<b>647</b>	<b>84</b>	<b>95</b>	<b>391</b>	<b>3565</b>

Note: Data was taken from general municipality department .

Table(15)

Percentage of garbage containers distributed to regions according to Governorate for the year 2005.

Governorate	Percentage of garbage containers distributed according to regions						
	Residential	Commercial	Institutional	Industrial	Public parks	Main streets	Percentage
Nineveh	55.7	26.9	9.9	0.8	0.0	6.7	5.9
Sulaimaniya	59.2	16.3	15.3	8.2	1.0	0.0	2.7
Karkuk	47.6	11.9	26.2	4.8	0.0	9.5	3.7
Diala	64.9	14.0	7.9	2.6	1.8	8.8	4.8
Anbar	73.2	0.0	0.3	8.6	4.3	13.6	3.6
Amant Baghdad	42.4	15.4	26.2	2.1	1.5	12.4	45.6
Baghdad outskirts	61.3	5.8	14.3	4.0	3.4	11.3	1.2
Babylon	54.5	24.8	9.6	3.3	0.6	7.2	5.5
Kerbela	65.5	0.0	24.1	3.4	0.0	6.9	1.6
Wasit	27.7	13.4	6.2	2.9	2.7	47.1	1.9
Salah Al-Deen	67.8	13.3	15.6	2.2	1.1	0.0	3.3
Najaf	53.2	19.4	8.1	1.1	2.6	15.6	3.0
Qadisiya	42.4	15.4	22.0	1.1	3.6	15.4	2.7
Muthanna	64.4	9.0	5.3	0.0	13.1	8.2	9.3
Thi - Qar	49.4	14.6	17.1	1.3	3.2	14.6	2.9
Maysan	65.4	7.7	19.2	0.0	3.8	3.8	1.7
Basrah	33.3	66.7	0.0	0.0	0.0	0.0	0.8
Total	50.7	15.2	18.1	2.3	2.7	11.0	100.0

Table(16)

Number of municipalities having instruments to collect garbage ; number of pressing trucks, hired vehicles, sufficiency, and average no. of garbage collection per week according to Governorate for the year 2005.

Governorate	Number of municipalities having instruments and equipments to collect garbage			Number of pressing trucks		Number of hired vehicles	Number of municipalities having sufficient instruments to cover their services			Average of garbage collection per week
	Having facilities	Not having facilities	Total	Working	Out of use		Sufficient facilities	Insufficient facilities	Total	
Nineveh	25	0	25	146	33	76	3	22	25	4.1
Sulaimaniya	53	2	55	127	27	61	16	39	55	4.2
Karkuk	12	0	12	25	3	11	0	12	12	3.8
Diala	21	0	21	83	45	49	3	18	21	4.6
Anbar	6	1	7	71	17	5	0	6	7	1.1
Amant Baghdad	11	0	11	379	80	970	0	11	11	6.0
Baghdad outskirts	11	2	13	30	11	17	2	11	13	4.4
Babylon	15	0	15	41	5	96	2	13	15	5.6
Kerbela	7	0	7	26	4	98	0	7	7	5.3
Wasit	15	2	17	44	9	57	0	15	17	4.7
Salah Al-Deen	17	0	17	40	31	27	3	14	17	3.8
Najaf	9	0	9	47	13	166	1	8	9	4.6
Qadisiya	15	0	15	35	8	17	0	15	15	4.9
Muthanna	11	0	11	15	8	35	0	11	11	4.5
Thi - Qar	19	0	19	36	16	2	0	19	19	3.2
Maysan	13	2	15	37	7	38	0	13	15	3.1
Basrah	15	0	15	50	9	95	0	15	15	3.0
<b>Total</b>	<b>275</b>	<b>9</b>	<b>284</b>	<b>1232</b>	<b>326</b>	<b>1820</b>	<b>30</b>	<b>249</b>	<b>284</b>	<b>4.2</b>

Table(17)

Percentage of municipalities having facilities to collect garbage; number of pressing trucks, vehicles, hired facilities, sufficiency, according to Governorate for the year 2005.

Governorate	Percentage of municipalities having facilities to collect garbage			Percentage of Pressing trucks			Percentage of vehicles and hired facilities	Percentage of municipalities having facilities to collect garbage		
	Having facilities	Not having facilities	Sum.	Working	Out of use	Sum.		Sufficient facility	Insufficient facility	Sum.
Nineveh	100.0	0.0	100.0	81.6	18.4	100.0	4.2	12.0	88.0	100.0
Sulaimaniya	96.4	3.6	100.0	82.5	17.5	100.0	3.4	29.1	70.9	100.0
Karkuk	100.0	0.0	100.0	89.3	10.7	100.0	0.6	0.0	100.0	100.0
Diala	100.0	0.0	100.0	64.8	35.2	100.0	2.7	14.3	85.7	100.0
Anbar	85.7	14.3	100.0	80.7	19.3	100.0	0.3	0.0	100.0	100.0
Amant Baghdad	100.0	0.0	100.0	82.6	17.4	100.0	53.3	0.0	100.0	100.0
Baghdad outskirts	84.6	15.4	100.0	73.2	26.8	100.0	0.9	15.4	84.6	100.0
Babylon	100.0	0.0	100.0	89.1	10.9	100.0	5.3	13.3	86.7	100.0
Kerbela	100.0	0.0	100.0	86.7	13.3	100.0	5.4	0.0	100.0	100.0
Wasit	88.2	11.8	100.0	83.0	17.0	100.0	3.1	0.0	100.0	100.0
Salah Al-Deen	100.0	0.0	100.0	56.3	43.7	100.0	1.5	17.6	82.4	100.0
Najaf	100.0	0.0	100.0	78.3	21.7	100.0	9.1	11.1	88.9	100.0
Qadisiya	100.0	0.0	100.0	81.4	18.6	100.0	0.9	0.0	100.0	100.0
Muthanna	100.0	0.0	100.0	65.2	34.8	100.0	1.9	0.0	100.0	100.0
Thi - Qar	100.0	0.0	100.0	69.2	30.8	100.0	0.1	0.0	100.0	100.0
Maysan	86.7	13.3	100.0	84.1	15.9	100.0	2.1	0.0	100.0	100.0
Basrah	100.0	0.0	100.0	84.7	15.3	100.0	5.2	0.0	100.0	100.0
<b>Total</b>	<b>96.8</b>	<b>3.2</b>	<b>100.0</b>	<b>79.1</b>	<b>20.9</b>	<b>100.0</b>	<b>100.0</b>	<b>10.8</b>	<b>89.2</b>	<b>100.0</b>

Table(18)

Number of municipalities carrying out town cleaning services and average number of cleaning cycles, according to areas and Governorate for the year 2005.

Governorate	Number of municipalities carrying out town cleaning services									Average no.of cleaning cycles		
	Streets			Parks			Markets			Streets	Parks	Markets
	Yes	No	Sum.	Yes	No	Sum.	Yes	No	Sum.			
Nineveh	25	0	25	19	6	25	25	0	25	4.5	2.1	5.9
Sulaimaniya	53	2	55	41	14	55	52	3	55	4.6	4.0	4.2
Karkuk	10	2	12	7	5	12	10	2	12	4.0	1.5	4.8
Diala	19	2	21	13	8	21	19	2	21	4.7	2.0	5.4
Anbar	7	0	7	4	3	7	7	0	7	1.8	0.7	2.4
Amant Baghdad	11	0	11	11	0	11	11	0	11	7.0	5.9	7.0
Baghdad outskirts	11	2	13	10	3	13	11	2	13	4.7	2.2	4.5
Babylon	15	0	15	14	1	15	15	0	15	6.1	2.5	6.7
Kerbela	7	0	7	7	0	7	6	1	7	5.7	4.0	4.0
Wasit	16	1	17	13	4	17	15	2	17	4.0	2.5	5.4
Salah Al-Deen	17	0	17	14	3	17	16	1	17	5.4	1.8	5.8
Najaf	9	0	9	9	0	9	9	0	9	7.6	5.4	6.8
Qadisiya	15	0	15	15	0	15	15	0	15	5.8	3.7	6.2
Muthanna	11	0	11	10	1	11	11	0	11	6.8	4.6	6.8
Thi - Qar	19	0	19	19	0	19	19	0	19	5.4	4.1	6.3
Maysan	14	1	15	14	1	15	14	1	15	3.8	3.0	4.4
Basrah	14	1	15	11	4	15	13	2	15	3.4	2.2	3.8
<b>Total</b>	<b>273</b>	<b>11</b>	<b>284</b>	<b>231</b>	<b>53</b>	<b>284</b>	<b>268</b>	<b>16</b>	<b>284</b>	<b>5.0</b>	<b>3.1</b>	<b>5.3</b>

Table (19)

Percentage of town cleaning services and average no. of cleaning cycles , according to areas and Governorate for the year 2005.

Governorate	Percentage of cleaning services									Average rate of cleaning		
	Streets			Parks			Markets			Streets	Parks	Markets
	Yes	No	Sum.	Yes	No	Sum.	Yes	No	Sum.			
Nineveh	100.0	0.0	100.0	76.0	24.0	100.0	100.0	0.0	100.0	4.5	2.1	5.9
Sulaimaniya	96.4	3.6	100.0	74.5	25.5	100.0	94.5	5.5	100.0	4.6	4.0	4.2
Karkuk	83.3	16.7	100.0	58.3	41.7	100.0	83.3	16.7	100.0	4.0	1.5	4.8
Diala	90.5	9.5	100.0	61.9	38.1	100.0	90.5	9.5	100.0	4.7	2.0	5.4
Anbar	100.0	0.0	100.0	57.1	42.9	100.0	100.0	0.0	100.0	1.8	0.7	2.4
Amant Baghdad	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	7.0	5.9	7.0
Baghdad outskirts	84.6	15.4	100.0	76.9	23.1	100.0	84.6	15.4	100.0	4.7	2.2	4.5
Babylon	100.0	0.0	100.0	93.3	6.7	100.0	100.0	0.0	100.0	6.1	2.5	6.7
Kerbela	100.0	0.0	100.0	100.0	0.0	100.0	85.7	14.3	100.0	5.7	4.0	4.0
Wasit	94.1	5.9	100.0	76.5	23.5	100.0	88.2	11.8	100.0	4.0	2.5	5.4
Salah Al-Deen	100.0	0.0	100.0	82.4	17.6	100.0	94.1	5.9	100.0	5.4	1.8	5.8
Najaf	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	7.6	5.4	6.8
Qadisiya	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	5.8	3.7	6.2
Muthanna	100.0	0.0	100.0	90.9	9.1	100.0	100.0	0.0	100.0	6.8	4.6	6.8
Thi - Qar	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	5.4	4.1	6.3
Maysan	93.3	6.7	100.0	93.3	6.7	100.0	93.3	6.7	100.0	3.8	3.0	4.4
Basrah	93.3	6.7	100.0	73.3	26.7	100.0	86.7	13.3	100.0	3.4	2.2	3.8
Total	96.1	3.9	100.0	81.3	18.7	100.0	94.4	5.6	100.0	5.0	3.1	5.3

Table (20)

Percentage of garbage treatment methods according to Governorate for the year 2005.

Governorate	Transportating to transfer station	Burying in allocated sanitary sites	Disposing in empty lots	Incineration	Disposal to rivers and drains	Recycling	Selling to non Licensed contractors	Others
Nineveh	12.0	100.0	0.0	0.0	12.0	0.0	0.0	0.0
Sulaimaniya	0.0	41.8	58.2	0.0	27.3	3.6	0.0	0.0
Karkuk	8.3	0.0	41.7	0.0	16.7	0.0	0.0	66.7
Diala	42.9	57.1	9.5	0.0	0.0	4.8	0.0	0.0
Anbar	14.3	42.9	71.4	0.0	0.0	0.0	0.0	0.0
Amant Baghdad	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Baghdad outskirts	23.1	0.0	46.2	0.0	7.7	0.0	0.0	15.4
Babylon	53.3	6.7	33.3	0.0	0.0	0.0	0.0	26.7
Kerbela	14.3	85.7	14.3	0.0	0.0	0.0	0.0	14.3
Wasit	23.5	76.5	17.6	0.0	11.8	5.9	0.0	0.0
Salah Al-Deen	0.0	0.0	70.6	0.0	17.6	0.0	0.0	35.3
Najaf	66.7	11.1	11.1	0.0	22.2	0.0	0.0	22.2
Qadisiya	40.0	6.7	46.7	0.0	20.0	0.0	0.0	6.7
Muthanna	0.0	9.1	100.0	0.0	0.0	0.0	0.0	0.0
Thi - Qar	31.6	57.9	36.8	0.0	0.0	0.0	0.0	10.5
Maysan	6.7	6.7	93.3	0.0	20.0	0.0	0.0	0.0
Basrah	6.7	86.7	6.7	0.0	6.7	0.0	0.0	0.0
Total	21.5	39.1	39.4	0.0	12.3	1.4	0.0	9.2

Table(21)

Number of sanitary landfill sites; environmentally conformed and unconformed; and their percentages; number and area of transferring stations according to Governorate for the year 2005.

Governorate	No. of sanitary land fill sites	No. of sites within the environmental standards		No. of sites out of the environmental standards		No. of transferring station	
		No.	Percentage	No.	Percentage	No.	Area (donume)
Nineveh	24	16	66.7	8	33.3	3	29
Sulaimaniya	29	22	75.9	7	24.1	0	0
Karkuk	12	7	58.3	5	41.7	1	25
Diala	19	15	78.9	4	21.1	9	43
Anbar	20	14	70.0	6	30.0	2	7
Amant Baghdad	3	1	33.3	2	66.7	12	20
Baghdad outskirts	10	0	0.0	10	100.0	4	42
Babylon	10	9	90.0	1	10.0	8	68
Kerbela	7	4	57.1	3	42.9	2	18
Wasit	15	9	60.0	6	40.0	3	11
Salah Al-Deen	12	7	58.3	5	41.7	0	0
Najaf	8	5	62.5	3	37.5	6	208
Qadisiya	15	15	100.0	0	0.0	5	36
Muthanna	8	6	75.0	2	25.0	0	0
Thi - Qar	18	16	88.9	2	11.1	10	7
Maysan	12	10	83.3	2	16.7	3	4
Basrah	15	11	73.3	4	26.7	1	1
<b>Total</b>	<b>237</b>	<b>167</b>	<b>70.5</b>	<b>70</b>	<b>29.5</b>	<b>69</b>	<b>519</b>

\* Data was taken from General municipality department /Ministry of Municipalities and Public Works

Table(22)

Percentage of garbage landfill sites, according to municipality's design, and the rates of level of ground water rise at the landfill sites according to the Governorate for the year 2005

Governorate	Percentage of garbage landfills sites, according to municipality's essential design			Average ground water level (1)m
	Within the basic design	Out of the basic design	Total	
Nineveh	4.0	96.0	100.0	13.3
Sulaimaniya	0.0	100.0	100.0	38.9
Karkuk	0.0	0.0	100.0	0.0
Diala	0.0	100.0	100.0	22.3
Anbar	0.0	100.0	100.0	17.3
Amant Baghdad	33.3	66.7	100.0	3.9
Baghdad outskirts	0.0	100.0	100.0	4.0
Babylon	0.0	100.0	100.0	5.0
Kerbela	0.0	100.0	100.0	1.5
Wasit	0.0	100.0	100.0	2.6
Salah Al-Deen	0.0	0.0	100.0	0.0
Najaf	0.0	100.0	100.0	8.0
Qadisiya	0.0	100.0	100.0	1.7
Muthanna	0.0	100.0	100.0	1.0
Thi - Qar	0.0	100.0	100.0	1.3
Maysan	0.0	100.0	100.0	1.0
Basrah	0.0	100.0	100.0	2.2
<b>Total</b>	<b>1.6</b>	<b>98.4</b>	<b>100.0</b>	<b>8.3</b>

Table(23)

Percentage of landfill sites having full necessary facilities according to Governorate for the year 2005.

Governorate	Fence			Suitable roads to ensure easy transport of garbage			Administration and monitoring office			Scale			Equipments and tools used for dumping		
	Yes	No	Sum.	Yes	No	Sum.	Yes	No	Sum.	Yes	No	Sum.	Yes	No	Sum.
Nineveh	4.2	95.8	100.0	76.0	24.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0	20.0	80.0	100.0
Sulaimaniya	6.9	93.1	100.0	93.1	6.9	100.0	0.0	100.0	100.0	0.0	100.0	100.0	6.9	93.1	100.0
Karkuk	8.3	91.7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diala	21.1	78.9	100.0	84.6	15.4	100.0	0.0	100.0	100.0	0.0	100.0	100.0	7.7	92.3	100.0
Anbar	100.0	0.0	100.0	0.0	100.0	100.0	33.3	66.7	100.0	0.0	100.0	100.0	33.3	66.7	100.0
Amant Baghdad	33.3	66.7	100.0	100.0	0.0	100.0	66.7	33.3	100.0	66.7	33.3	100.0	66.7	33.3	100.0
Baghdad outskirts	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0
Babylon	0.0	100.0	100.0	100.0	0.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0
Kerbela	14.3	85.7	100.0	66.7	33.3	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0
Wasit	93.3	6.7	100.0	61.5	38.5	100.0	15.4	84.6	100.0	0.0	100.0	100.0	0.0	100.0	100.0
Salah Al-Deen	25.0	75.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Najaf	0.0	100.0	100.0	100.0	0.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0
Qadisiya	0.0	100.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0
Muthanna	12.5	87.5	100.0	100.0	0.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0
Thi - Qar	5.6	94.4	100.0	72.7	27.3	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0
Maysan	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0
Basrah	33.3	66.7	100.0	84.6	15.4	100.0	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0
Total	28.1	71.9	100.0	74.4	25.6	100.0	5.4	94.6	100.0	1.6	98.4	100.0	10.9	89.1	100.0

\*Data was taken from General municipality department / Ministry of Municipalities and Public works