



Republika e Kosovës/Republika Kosova/Republic of Kosovo  
*Qeveria - Vlada - Government*  
*Ministria e Administratës Publike - Ministarstvo Javne Uprave -*  
*Ministry of Public Administration*

## Series 2: Agriculture and Environment Statistics

# Survey on Municipal Waste 2008



Enti i Statistikës së Kosovës  
Zavod za Statistiku Kosova  
Statistical Office of Kosovo





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**Series 2: Agriculture and Environment  
Statistics**

**Survey on Municipal Waste  
2008**



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Publisher: Statistical Office of Kosovo ( SOK)  
Publication date: March 2010  
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Printed by: K.G.T Prishtina, Kosovo

A great deal of information is available on internet  
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## **P r e f a c e**

This is the second time that Statistical Office of Kosovo completed a survey on municipal waste.

The main objective of this survey was to provide sustainable data on the municipality waste in Kosovo. The result presented in this publication is very modest, but they present an important source of information on municipal waste.

The statistical instrument used during this survey is in line with European Union recommendations and the Law on Waste in Kosovo, (No.02/L-30) designed according to European Union regulations.

Special acknowledgement goes to Statistics Sweden for the technical assistance provided and to Sida which made this publication possible, and and to Long-Term Consultant of Statistics Sweden to the Statistical Office of Kosovo Mrs. Milva Ekonomi.

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March 2010

Chief Executive of, SOK

Avni Kastrati

## **Abbreviations and Acronyms**

EU	European Union
SOK	Statistical Office of Kosova
MMPH	Ministry of Environment and Spatial Planning
KEPA	Kosovo Environment Protection Agency
SIDA	Swedish International Development Cooperation Agency
WWRO	Water and Waste Regulatory Office
MPK	Municipal Public Company
DTD	Door to Door
CD	Collectiv Dwellings
SL, 2007	Statistics of Births in Kosovo, 2007
DSBA	Department of Agriculture and Environment Statistics
DPSIR	Driving forces, Pressure, State, Impact and Respons
OECD	Organisatiofor Economic Co-operation and Development
EEA	European Environment Agency
KEPA	Kosovo Environmental Protection Agency

## **Key to Symbols**

Kg/person	Kilogram per person
kg	Kilogram
t	Tonne
%	Percent

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## **General Information**

The municipal waste survey in Kosovo was conducted according to DPSIR model, used by all OECD countries, Eurostat and in line with Environment European Agency list of indicators.

### **1. Objectives and methodology of survey**

#### **1.1 Objective**

Objective of the municipal waste survey 2008 was to obtain, information on waste by kind of waste collection and quantity.

Also the survey aimed to continue the time series on municipal waste, started in 2007 for the coming years.

#### **1.2 Methodology**

##### **1.2.1 Frame survey**

All the survey procedures were prepared during July – August 2008. Activities such as questionnaire preparation, instruction book, questionnaire test, and the list of municipal companies that do treat waste were finalized before the starting date of the survey.

There were companies listed to collect the information. Also other sources WWRO and MESP-KEPA were used to check the soundness of data.

The prepared material was distributed to all regional statistical offices to insure complete coverage.

## **1.2.2 Data collection**

The data collection was completed through regional staff face to face interviews with the managers of the waste treatment companies operating in the respective region.

All the questionnaires were checked according to :

- i. Completeness of all the questions and the average values per question.
- ii. Check completed by the staff of Agriculture and Environment Department
- iii. Professional support offered by Swedish experts.

## **2. Definition**

**Municipal waste** is considered the waste collected and treated from the companies, which their primary duty is to execute the territorial management of the municipal waste. As municipal waste is considered waste from households, waste from other activities as retail trade activity, street garbage, waste produced by institutions and similar activities, and waste from the wholesale trade and construction.

In the municipal waste are included waste from city sewage system and food remains from kindergartens and canteens.

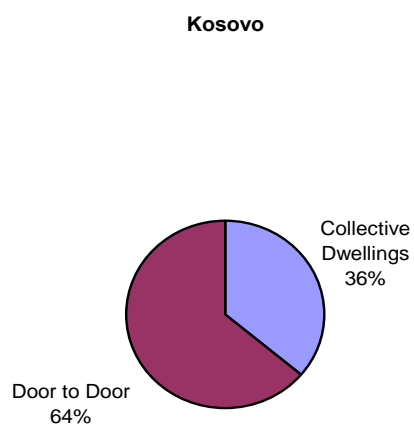
### 3. Results

**Table 1: Amounts of municipal waste collected in Kosovo 2008 by kind of waste collection.**

Collection place	Collective Dwellings	Door to Door	Total
Unit	100 tonnes	1000 tonnes	
Pristina <sup>1</sup> and region	82	116	198
Other regions in Kosovo	45	108	153
<b>Total</b>	<b>127</b>	<b>224</b>	<b>351</b>

The total amount of municipal waste in Kosovo for 2008 is a little more than 350 000 tonnes.

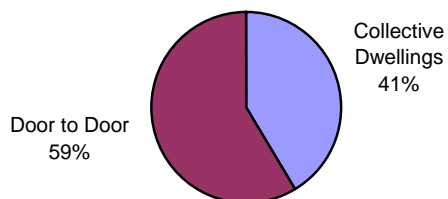
**Chart 1: Structure of waste collected, 2008**



<sup>1</sup> Prishtina, Obiliq, Glllogoci, Fushë Kosova, Lipjani & Podujeva

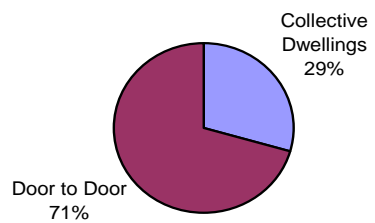
**Chart 2: Structure of waste collected in Prishtina and region, 2008**

**Prishtina and region**



**Chart 3: Structure of waste collected for other regions in Kosovo.**

**Other regions in Kosovo**



**Table 2: Amounts of municipal waste collected in Kosovo 2008 per person.**

Region	Collected amounts	Populations <sup>2</sup>	kg/capita	Waste /person and day
Unit	1000 tonnes			kg /capita
Prishtina and region	198	500 000	396	1.1
Other regions in Kosovo	153	1 600 000	92	0.3
<b>Total Kosovo</b>	<b>351</b>	<b>2 100 000</b>	<b>167</b>	<b>0.5</b>

In Kosovo the door to door collection is just above 64 %. However, if you consider Prishtina and region and the rest of Kosovo the door to door collection is more dominant in the rest of Kosovo.

The 2008 data indicate that the municipal waste was 167 kg per person. However, it differs very much regionally. In Prishtina and regions it was 1.1 kg per person and day. For the other regions of Kosovo, it was much less.

In 2007 the municipal waste in Kosovo was 157 kg per person. In Prishtina and region it was 0.9 kg per person and day (table 4).

<sup>2</sup> Estimation: SOK- DPS

## 4: COMPARING DATA 2007 AND 2008 ON MUNICIPAL WASTE

**Table 3: Amount of municipal waste collected in Kosovo, in 2007-2008**

	2007			2008		
Collection place	Collective Dwellings	Door to Door	Total	Collective Dwellings	Door to Door	Total
Unit	1000 tonnes			1000 tonnes		
Prishtina and region	88	94	182	82	116	198
Other regions in Kosovo	56	92	148	45	108	153
<b>Total Kosovo</b>	<b>144</b>	<b>186</b>	<b>330</b>	<b>127</b>	<b>224</b>	<b>351</b>

The amount of waste collected by municipal companies during 2008 has increased by 6.4 percent.

The performance of waste collection is better in Prishtina and region than in other regions of Kosovo. Prishtina's companies managed to collect 8.8 percent more waste during 2008.

In the other regions the waste collection was increased by 3.4 percent.

**Table 4: Amount of municipal waste collected per person, in 2007-2008**

Collection place	2007				2008		
	Collection amounts	Population	kg/capita	waste/person/day	Collection amounts	kg/capita	waste/person/day
Unit	1000 tonnes			kg/capita	1000 tonnes		kg/capita
Pristina and region	182	500 000	332	0.9	198	396	1.1
Other regions in Kosovo	148	1 600 000	95	0.3	153	92	0.3
<b>Total Kosovo</b>	<b>330</b>	<b>2 100 000</b>	<b>157</b>	<b>0.4</b>	<b>351</b>	<b>167</b>	<b>0.5</b>

The daily per capita waste collection in Prishtina was 1.1 kg, meanwhile in the other regions of Kosovo the figure remains quite the same 0.3 kg.

Comparing the figures of 2007 and 2008 in general we can agree that Kosovo is improving the waste collection.

The number of companies is bigger and their performance is better. But still a lot remains to do.

**Table 5: Municipal waste generated EU-27**

	kg per person per year					
	1995	1997	1999	2001	2003	2006
<b>EU-27</b>	<b>474</b>	<b>499</b>	<b>511</b>	<b>522</b>	<b>519</b>	<b>517</b>
Belgium	453	467	465	467	451	475
Bulgaria	693	577	503	491	499	446
Czech Republic	302	318	327	273	280	296
Denmark	567	588	627	658	672	737
Germany	624	658	638	633	601	566
Estonia	368	422	413	372	418	466
Ireland	514	547	581	705	736	804
Greece	302	363	393	417	428	443
Spain	510	561	615	658	655	583
France	476	497	509	528	535	553
Italy	454	468	498	516	524	548
Cyprus	600	650	670	703	724	745
Latvia	263	254	244	302	298	411
Lithuania	424	421	350	377	383	390
Luxembourg	592	607	650	650	684	702
Hungary	460	487	482	451	463	468
Malta	332	354	467	542	581	652
Netherlands	549	590	599	615	610	625
Austria	438	532	563	578	609	617
Poland	285	315	319	290	260	259
Portugal	385	405	442	472	447	435
Romania	350	333	332	345	350	385
Slovenia	596	589	551	479	418	432
Slovakia	295	275	261	239	297	301
Finland	414	448	485	466	460	488
Sweden	386	417	428	442	471	497
United Kingdom	499	533	570	592	594	588
Iceland	427	445	457	469	485	534
Norway	626	619	596	635	696	793
Switzerland	598	606	640	659	662	715
Croatia	:	:	:	:	:	:
Turkey	445	503	463	457	445	434

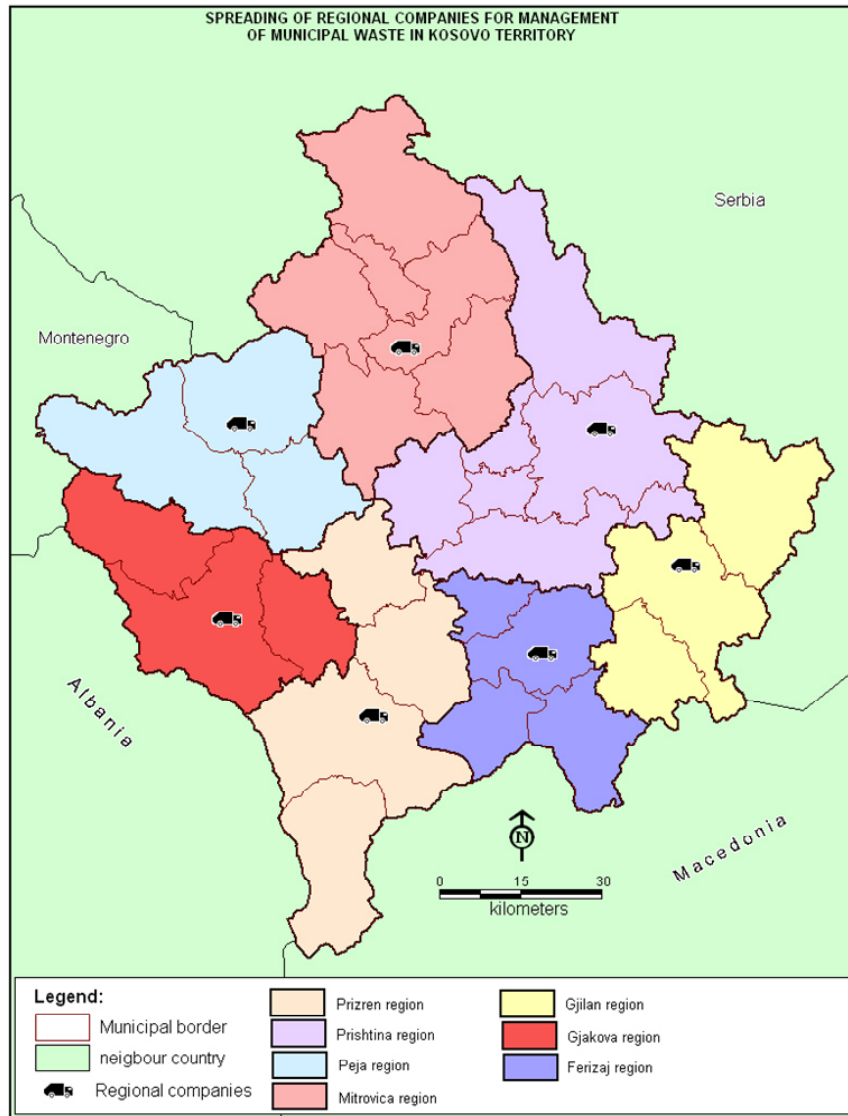
Data source: Eurostat (Energy, Transport and Environment Indicators 2008)



The total amount of municipal waste generated has been continuously growing between 1995 and 2002 in the European Union (EU-27, 517 kg per person in 2006).

Ireland in 2006 has the highest per capita generation of municipal waste in the European Union, 804 kg/ per person per year. The lowest generation per capita has Poland, 259 kg/per person per year.

## Map of Kosovo



Source: SOK, Cartography and GIS

## Annex 1. Questionnaire



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## QUESTIONNAIRE

### Survey on Municipal Waste 2008

#### Reporting units – Public and Private Communal Enterprises

The questionnaire is filled in by all Public and Private Communal Enterprise in the Republic of Kosovo.

Data refer to the period from 01.01 - 31.12.2008.

This survey is based on UNMIK Regulation 2001/14 according to which you should fulfil the requested information. The personal data are confidential and will be published in groups, by protecting your interests. These data will not be used for other purposes.

Thank you!

**IDENTIFICATION DATA**

1.1 BUSINESS SUBJECT /NAME	_____										
1.2 BUSINESS SUBJECT NUMBER	_____ <table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>										
1.3 MUNICIPALITY	_____ Settlement _____										
1.4 ADDRESS	_____										
TELEPHONE	_____ FAX _____										
E-MAIL	_____ WEB PAGE _____										
This questionnaire is fulfilled by the Operational Director of the Enterprise											

**TABELE 1: COLLECTED MUNICIPAL WASTE ACCORDING TO THE PLACE OF GENERATION, 01.01-31.12.2008**

**Place of waste generation**

Municipality (name)	Municipal Code (filled in by SOK)	Number of settlements that use public services	Amount of municipal waste collected by place of generation*			
			amount (tonnes)			
			KD	DTD	TOTAL	
a	1	2	3	4	5	6
01						
02						
03						
04						
05						
06						
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09						
10						
11						
12						
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25						
26						
27						
28						
29						
30						
	<b>TOTAL</b>					

**Note\***

1. Tick in column 5, waste collected from „Collectiv Dwellings ”
2. Tick in column 6, waste collected „Doot to Door ” estimate with 0, 2 ton 1 m<sup>3</sup> waste

