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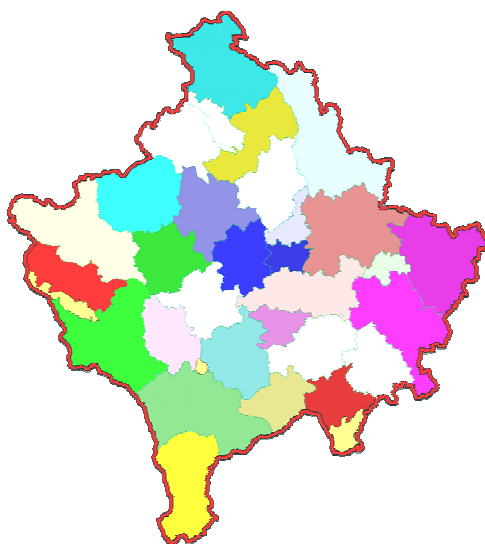
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Series 2: Agriculture and Environment Statistics

Survey on Municipal Waste 2009



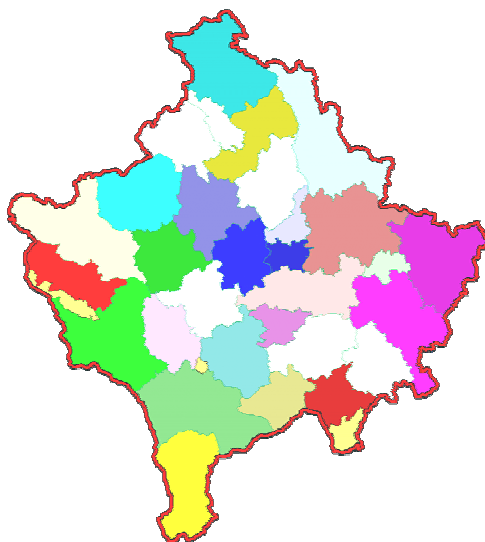
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Survey on Municipal Waste 2009



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P r e f a c e

This is the third 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 based on data collection from companies which have licence for dealing with municipal waste, in seven regions in Kosova.

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.

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December 2010

Acting Chief Executive of, SOK

Nait Vrenezi

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 Dwelings |
| SL, 2007 | Statistics of Births in Kosovo, 2007 |
| DSBA | Department of Agriculture and Environment Statistics |
| DPSIR | Driving forces, Pressure, State, Impact and Respons |
| OECD | Organisation for 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 and the Waste Law in Kosovo No.02/L-30, July 2005 (which is implemented according to European standards on waste managements).

1. Objectives and methodology of survey

1.1 Objective

Objective of the municipal waste survey 2009 was to obtain, information on waste by kind of waste and quantity in Kosova territory.

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 tools for annual survey on municipal waste were prepared during September 2009. Activities such as questionnaire preparation, instruction book, and training for enumerators, questionnaire, and the list of municipal companies that do treat waste were finalized before the starting date of the survey.

Reporting units are public and private companies which deal with waste in seven regions in Kosovo (according with our business register).

Data presented in municipal waste survey does not include waste generated in areas not covered by a collected system (rural areas).

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

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. Municipal waste is considered to be 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 savage system and foods remains from kindergartens and cantinas.

3. Results

Table 1: Amounts of municipal waste collected in Kosovo 2009 by kind of waste collection.

| Regions | Collective Dwellings | Door to Door | Total |
|-----------------------------------|----------------------|--------------|-------|
| Unit | 1000 tonnes | | |
| Prishtina and region ¹ | 98 | 120 | 218 |
| Other regions in Kosova | 76 | 111 | 187 |
| Total | 174 | 231 | 405 |

The total amount of municipal waste in Kosova for 2009 is a little more than 400 000 tonnes.

In Kosovo the door to door collection is just above 57%, meantime in the collective dwellings was 43 %.

In Prishtina and regions waste collections door to door was 55 %, meantime in collective dwellings was 45%.

In other regions in Kosova waste collection in, collection dwellings was 41%, meantime in door to door was 59%

¹Prishtina, Obiliq, Glllogoci, Fushë Kosova, Drenas, Graçanica, Lipjani & Podujeva

Chart 1: Structure of waste collected, 2009

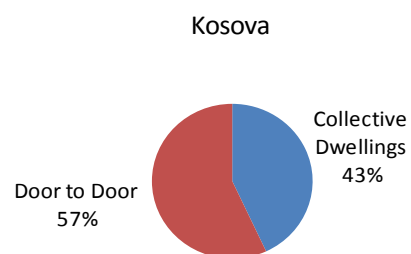


Chart 2: Structure of waste collected in Prishtina and region, 2009

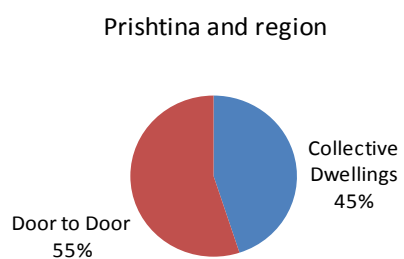


Chart 3: Structure of waste collected for other regions in Kosova

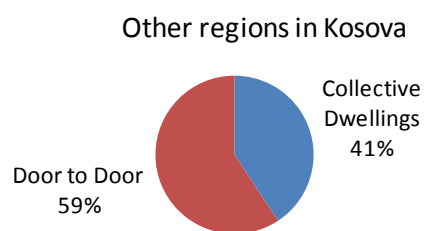


Table 2: Amounts of municipal waste collected in Kosova 2009 per person.

| Collection place | Collection amounts | Populations ² | kg /capita/year | Waste /person and day |
|-------------------------|--------------------|--------------------------|-----------------|-----------------------|
| Unit | 1000/tonnes | | | kg/capita |
| Prishtina and region | 218 | 500.000 | 436 | 1,2 |
| Other regions in Kosova | 187 | 1.600.000 | 117 | 0,3 |
| Total | 405 | 2.100.000 | 193 | 0,5 |

Table 2. presents the 2009 data. It indicates that the municipal waste was 193 kg per person as an average for Kosovo. However, it differs very much regionally. In Prishtina and regions it was 1.2 kg per person and day. For the other regions of Kosova, it was much less.

² Estimation: SOK- DPS

4: COMPARING DATA 2007- 2009 ON MUNICIPAL WASTE

Table 3: Amount of municipal waste collected in Kosova, in 2007-2009

| Collection place | 2007 | | | 2008 | | | 2009 | | |
|-------------------------|----------------------|--------------|-------|----------------------|--------------|-------|----------------------|--------------|-------|
| | Collective Dwellings | Door to Door | Total | Collective Dwellings | Door to Door | Total | Collective Dwellings | Door to Door | Total |
| Unit | 1000 tonnes | | | | | | | | |
| Prishtina and region | 88 | 94 | 182 | 82 | 116 | 198 | 98 | 120 | 218 |
| Other regions in Kosova | 56 | 92 | 148 | 45 | 108 | 153 | 76 | 111 | 187 |
| Total Kosova | 144 | 186 | 330 | 127 | 224 | 351 | 174 | 231 | 405 |

In 2009 in Prishtina and region the amount of waste collected by municipalities during 2009 has increased by 10%, as well amount of waste collected in other regions in Kosova has increased by 22 %, and total Kosova has increased by 15%.

Based on comparing the figures of 2009-2007 is observable in general we can agree that Kosovo is improving the waste collection, we have increased by 23 %.

In 2008 the amount of waste collected by municipal companies has increased by 6.4 percent.

Furthermore 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 2007-2009

| Collection place | 2007 | | | | 2008 | | | 2009 | | |
|-------------------------|--------------------|------------|-----------|-------------------|--------------------|-----------|-------------------|--------------------|-----------|-------------------|
| | Collection amounts | Population | Waste | Waste /person/day | Collection amounts | Waste | Waste /person/day | Collection amounts | Waste | Waste /person/day |
| Unit | 1000/tonnes | | kg/capita | | 1000/tonnes | kg/capita | | 1000/tonnes | kg/capita | |
| Prishtina and region | 182 | 500.000 | 332 | 0.9 | 198 | 396 | 1.1 | 218 | 436 | 1.2 |
| Other regions in Kosova | 148 | 1.600.000 | 95 | 0.3 | 153 | 92 | 0.3 | 187 | 117 | 0.3 |
| Total Kosova | 330 | 2.100.000 | 157 | 0.4 | 351 | 167 | 0.5 | 405 | 193 | 0.5 |

Table 4.presents data from 2007-2009 data of the municipal waste. The municipal waste per person in Kosovo, as an average, was 2007 157 kg, 2008 was 167 kg, 2009 was 193 kg.

In 2007 data shows that in the municipal waste per person and day in Prishtina and region it was 0.9 kg per person and day, 2008 was 1.1 and 2009 was 1.2 kg per person and day (table 4). In 2007-2009 data for the other regions of Kosovo the figure remains quite the same 0.3 kg.

5. Comparing data EU-27

Table 5: Present the total amount of municipal waste generated which has been continuously growing between 1995 and 2007. In 2007 total amount of waste generated was 522 kg per person per year.

Norway in 2007 has the highest per capita generation of municipal waste in the European Union, 824 kg/ per person per year. The lowest generation per capita has Czech Republic, 294 kg/per person per year.

Kosova in 2007 has 157 kg per person per year, 2008 167 kg and 2009 193 kg.

Table 5: Municipal waste generated EU-27

(kg per person per year)

| | 1995 | 2000 | 2005 | 2006 | 2007 |
|----------------|------------|------------|------------|------------|------------|
| EU-27 | 474 | 524 | 517 | 523 | 522 |
| Belgium | 452 | 474 | 482 | 483 | 492 |
| Bulgaria | 693 | 516 | 475 | 446 | 468 |
| Czech Republic | 302 | 334 | 289 | 896 | 294 |
| Denmark | 567 | 665 | 737 | 741 | 801 |
| Germany | 624 | 643 | 564 | 563 | 564 |
| Estonia | 368 | 440 | 436 | 466 | 536 |
| Ireland | 514 | 603 | 740 | 804 | 788 |
| Greece | 302 | 408 | 438 | 443 | 448 |
| Spain | 510 | 662 | 597 | 599 | 588 |
| France | 476 | 516 | 532 | 538 | 541 |
| Italy | 454 | 509 | 542 | 553 | 550 |
| Cyprus | 600 | 680 | 739 | 745 | 754 |
| Latvia | 263 | 270 | 310 | 411 | 377 |
| Lithuania | 424 | 363 | 376 | 390 | 400 |
| Luxembourg | 592 | 658 | 678 | 684 | 694 |
| Hungary | 460 | 445 | 460 | 468 | 456 |
| Malta | 388 | 535 | 624 | 624 | 652 |
| Netherland | 549 | 616 | 624 | 622 | 630 |
| Austria | 438 | 581 | 620 | 653 | 597 |
| Poland | 285 | 316 | 319 | 321 | 322 |
| Portugal | 385 | 472 | 446 | 454 | 472 |
| Romania | 350 | 363 | 377 | 388 | 379 |
| Slovenia | 596 | 513 | 423 | 432 | 441 |
| Slovakia | 295 | 254 | 289 | 301 | 309 |
| Finland | 414 | 503 | 479 | 495 | 507 |
| Sweeden | 386 | 428 | 482 | 497 | 518 |
| United Kingdom | 499 | 578 | 585 | 587 | 572 |
| Iceland | 427 | 466 | 521 | 570 | 566 |
| Norway | 626 | 615 | 759 | 793 | 824 |
| Switzerland | 601 | 657 | 663 | 711 | 724 |
| Croatia | : | : | : | : | : |
| Turkey | 445 | 458 | 438 | 415 | 430 |

Data source: Eurostat, Pocketbooks Energy, transport and environment indicators 2009

Map of Kosovo



Source: SOK, Cartography and GIS

Annex 1. Questionnaire



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QUESTIONNAIRE

Survey on Municipal Waste 2009

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 - 31.12.2009.

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!

TABELE 1: COLLECTED MUNICIPAL WASTE ACCORDING TO THE PLACE OF GENERATION, 01.01-31.12.2009

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 | | | | | | |
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| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| TOTAL | | | | | | |

Note*

1. Tick in column 5, waste collected from „Collectiv Dwellings”
2. Tick in column 6, waste collected „Door to Door” estimate with 0, 2 ton 1 m³ waste

