



MUNICIPAL WASTE MANAGEMENT IN MAZOWIECKIE VOIVODSHIP IN 2014

When publishing the Statistical Office data please indicate the source.

A source of information on municipal waste in 2014 are data based on the reports of the Central Statistical Office on the form: M-09 – Report on transport and disposal of municipal waste, The attachment to the SG-01 report – Statistics of gmina: housing and municipal economy. Maintaining cleanliness and order in a gmina. Due to the electronic mode of data processing, in some cases sums of figures (expressed in absolute and relative numbers) might slightly differ from the amount given in a 'total' item. The figures are content-wise correct.

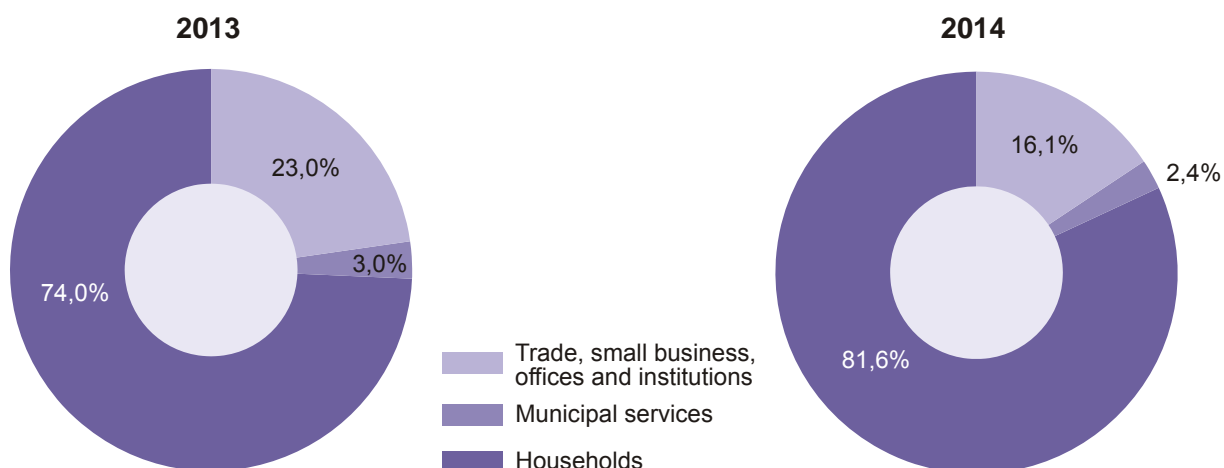
In 2014, 1398.8 thous. t of waste were collected in Mazowieckie voivodship, which represented 13.5% of total municipal waste collected in the country. There was an average of 263 kg of municipal waste per 1 inhabitant (at 251 kg in 2013). Private companies collected 65.4% of municipal waste (compared to 67.4% in 2013); in this group dominated units with predominance of private ownership representing 61.3% of this sector. While public companies collected the remaining 34.6% of municipal waste (at 32.6% in 2013). Among these companies the highest share had units with municipal (local government) ownership – 97.0%.

Table 1. Municipal waste collected

Specification	2013	2014	2013=100
	in thousand tonnes		
Total	1331.6	1398.8	105.0
collected by the units of:			
public sector	434.6	483.7	111.3
private sector	897.1	915.0	102.0
collected from:			
Trade, small business, offices and institutions	306.2	224.6	73.3
Municipal services	39.9	33.1	83.1
Households	985.5	1141.0	115.8

Compared with 2013 the amount of municipal waste collected from households increased by 15.8%, at a decrease from trade, small business, offices and institutions and municipal services by 26.7% and 16.9% respectively.

Sources of collected municipal waste



In the structure of collected municipal waste in 2014 dominated waste from households (81.6%). Compared with 2013 their share increased by 7.6%. There were 214.3 kg of this type of waste per 1 inhabitant (by 28.6 kg more than in 2013). In 2014 the share of municipal waste collected from trade, small business, offices and institutions decreased by 6.9 p. p., and from municipal services by 0.6 p. p.

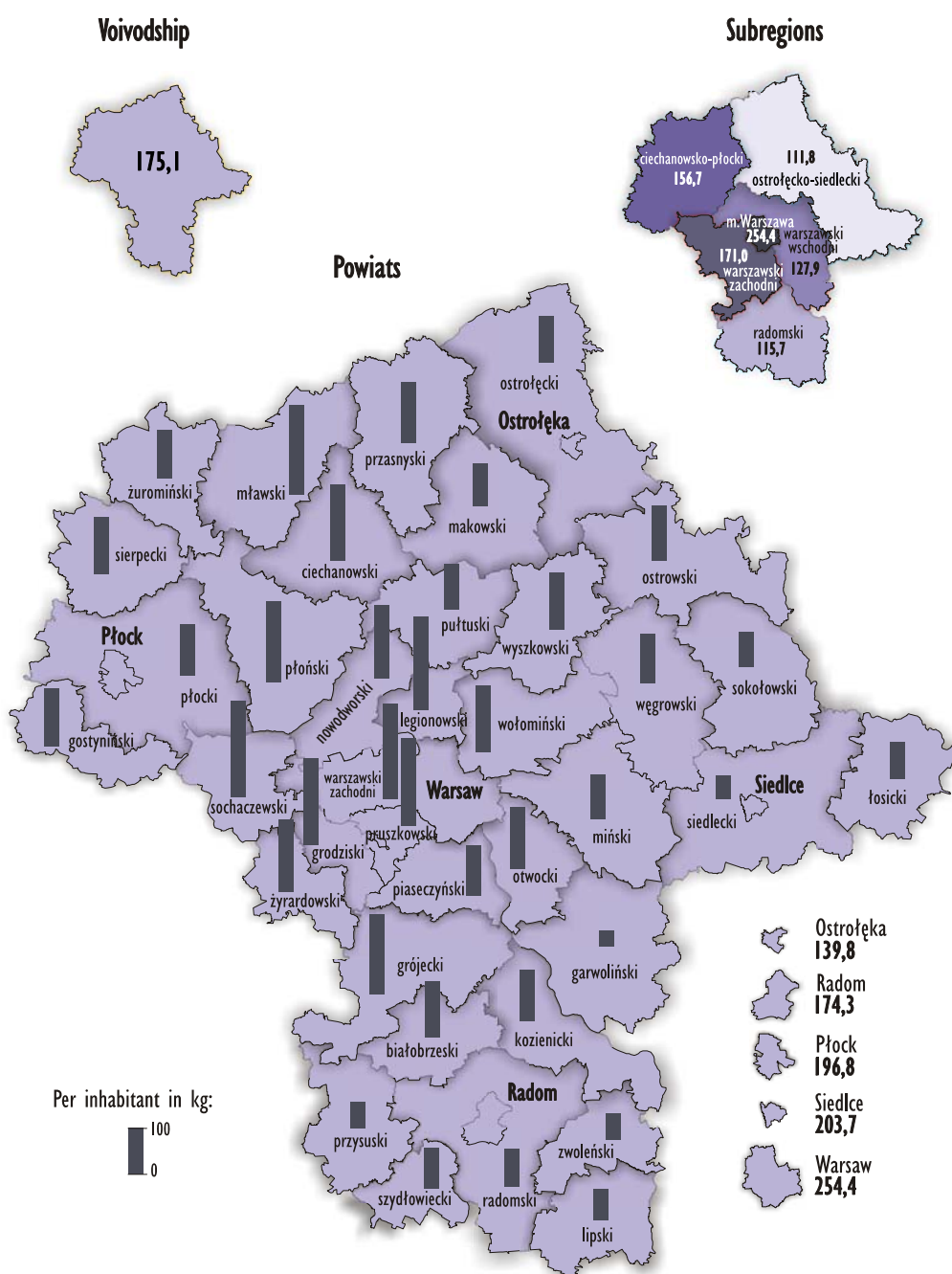
The weight of municipal waste collected from Mazowieckie voivodship included: municipal waste mixed and waste collected separately. In 2014 the share of municipal waste mixed in the total weight of municipal waste constituted 82.3% (at 85.4% in 2013).

Table 2. **Municipal waste mixed in 2014**

Specification	Total	Collected from			
		trade, small business, offices and institutions	municipal services	households	
				total	per 1 inhabitant in kg
in thousand tonnes					
Total	1150.7	193.8	24.7	932.1	175.1
urban areas	913.0	153.6	20.4	739.0	216.0
rural areas	237.7	40.2	4.3	193.1	101.4
subregions:					
Ciechanowsko-płocki	126.3	25.2	2.9	98.2	156.7
Ostrołęcko-siedlecki	109.8	21.3	4.2	84.3	111.8
Radomski	87.5	13.5	2.3	71.7	115.7
M.st. Warszawa	520.7	74.4	6.5	439.8	254.4
Warszawski wschodni	131.1	25.3	3.2	102.6	127.9
Warszawski zachodni	175.3	34.1	5.7	135.5	171.0

Main source generating mixed municipal waste are households. In 2014, 932,1 thous. t of this waste were collected, which represented 81.0% of total weight of municipal waste mixed in the voivodship. In urban areas of the voivodship 739.0 thous. t were collected, while in rural areas 193.1 thous. t (in 2013 accordingly 668.3 thous. t and 168.6 thous. t). Compared with the previous year the amount of waste collected from households in the voivodship increased by 95.2 thous. t, i.e. 11,4% (in urban areas by 10.6%, in rural areas by 14.6%). In 2014 among subregions, most municipal waste mixed were collected from households in m.st. Warszawa subregion (439.8 thous. t), the least in radomski subregion (71.7 thous. t).

Mixed municipal waste collected from households per inhabitant in 2014



Compared with 2013, by 17.4 kg increased the amount of mixed municipal waste collected from households per inhabitant and was as high as 175.1 kg, (in urban areas – 216.0 kg, in rural areas – 101.4 kg). Most municipal waste mixed from households per inhabitant were collected in m.st. Warszawa subregion (254.4 kg), the least in ostrołęcko-siedlecki subregion (111.8 kg), and among powiats (excluding Warsaw) the most in sochaczewski (209.5 kg) and warszawski zachodni (204.3 kg), and the least in garwoliński (31.6 kg) and siedlecki (50.3 kg).

Another significant source of mixed municipal waste is waste collected from trade, small business, offices and institutions. In 2014 from this source in Mazowieckie voivodship were collected 193.8 thous. t of waste, which made up 16.8% of total weight of collected municipal waste mixed. In comparison with 2013 there was a decrease of their weight by 84.5 thous. t, i.e. 30.4%. In 2014 the share of mixed municipal waste collected from municipal services such as cleaning of streets and squares, maintaining parks and cemeteries represented 2.2% of total municipal waste mixed (by 0.2 p. p. more than in 2013). Compared with the previous year the weight of municipal waste from municipal services increased by 10.5%.

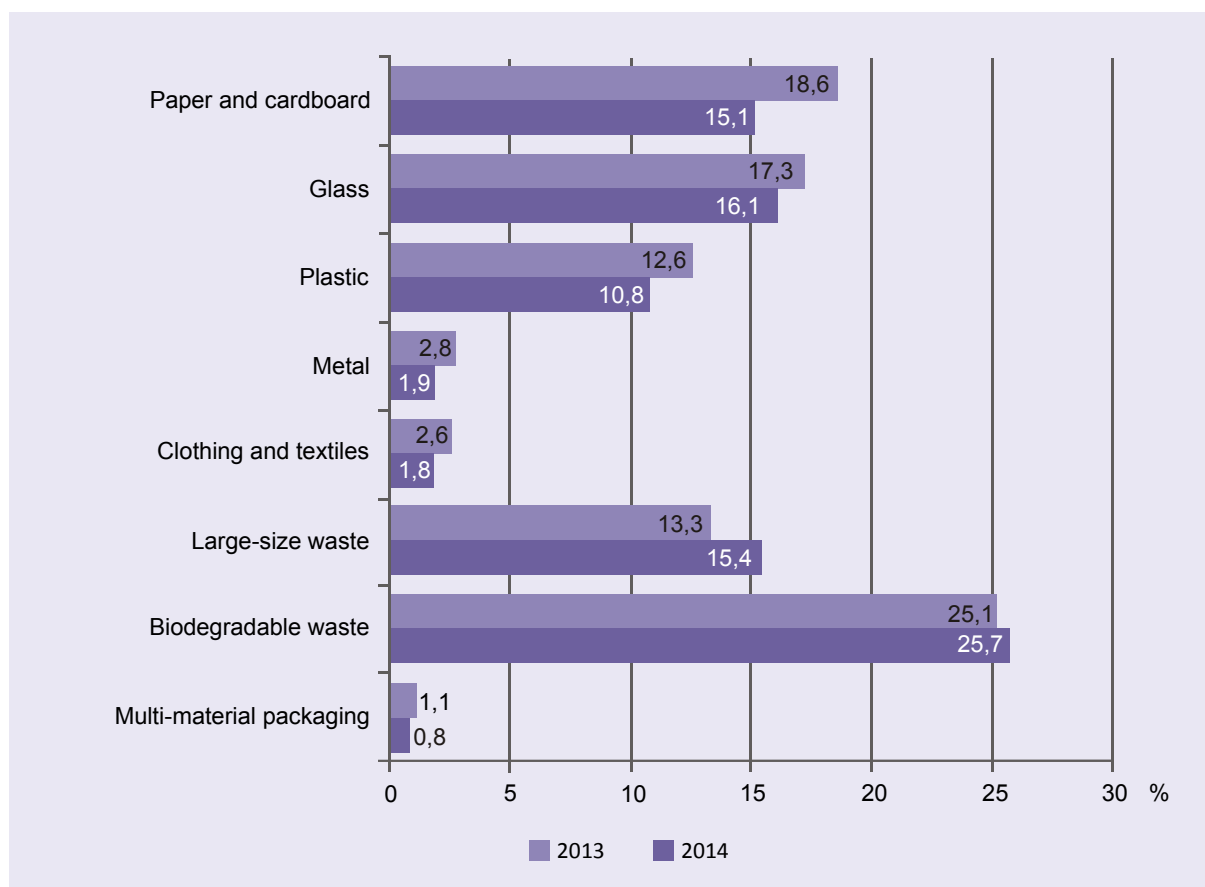
A significant impact on the reduction of collected municipal waste mixed has an increase of the waste collected separately. In 2014 in Mazowieckie voivodship there were 248.1 thous. t of municipal waste collected separately and segregated from dry waste. The share of waste collected separately in the total weight of collected municipal waste made up 17.7% (by 3.1 p. p. more than in 2013). In comparison with the previous year the weight of waste collected separately increased by 54.0 thous. t., i.e. 27.8%.

Table 3. Municipal waste collected separately and segregated from dry waste

Specification	2013	2014	2013=100
	in thousand tonnes		
T o t a l	194.1	248.1	127.8
collected by units of:			
public sector	45.5	55.6	122.2
private sector	148.6	192.5	129.5
collected from:			
Trade, small business, offices and institutions	27.9	30.8	110.2
Municipal services	17.5	8.4	48.0
Households.....	148.7	208.9	140.5

In 2014 the majority of waste collected separately was from households, its share was 84.2% and was by 7.6 p. p. higher than in the previous year. In comparison with 2013 the share of waste collected separately from municipal services decreased by 5.6 p. p. and from trade, small business, offices and institutions by 2.0 p. p.

**Selected wastes in % of total municipal waste collected separately
in Mazowieckie voivodship**

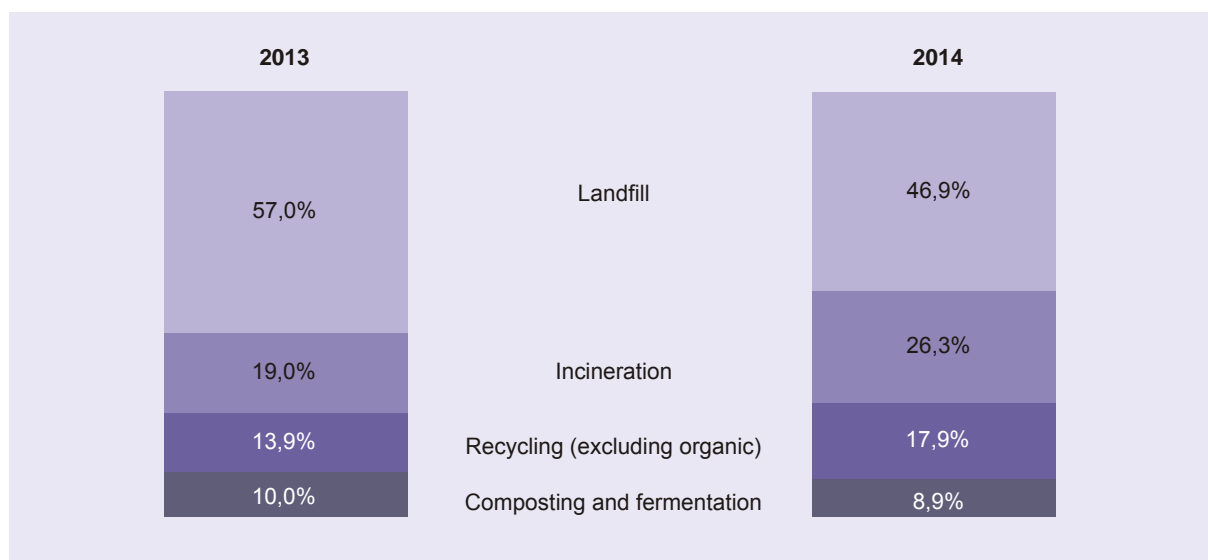


In 2014 the structure of waste collected separately was similar to that of 2013, biodegradable waste (25.7%) still dominated. In comparison with 2013 there was a significant increase in the amount of collected large-size waste (by 48.9%) and biodegradable waste (by 30.9%). There was also an increase in the amount of collected glass (by 18.8%), plastic (by 10.1%), paper and cardboard (by 4.1%). A decrease was observed in the amount of hazardous waste collected separately (69.4%), metal (by 15.3%), clothing and textiles (by 13.5%), multi-material packaging (by 7.6%).

Management of collected municipal waste includes landfill, incineration and recycling. In 2014 there were 724.3 thous. t of recyclable municipal waste collected, which made up 51.8% of total weight of municipal waste collected in the voivodship. Compared with 2013 there were 283.5 thous. t more of recyclable municipal waste collected (an increase by 64.3%). In 2014, 349.7 thous. t of collected municipal waste were incinerated with energy recovery, which represented 25.0% of total weight of collected municipal waste. Compared with 2013 it was an increase of the share by 15.8 p. p. Whereas 17.9 thous. t of waste were incinerated without energy recovery, which made up 1.3% of total weight of municipal waste collected in the voivodship (a 8.6 p. p. decrease compared with 2013). The share of collected recyclable municipal waste increased from 13.9% to 17.9%. Whereas biological reprocessing (fermentation and composting) included by 6.8% less of collected municipal waste than

in 2013. The share of this form of waste disposal decreased by 1.1 p. p. In 2014, despite the amendment of the law on maintaining order and cleanliness in a gmina, still majority of municipal waste collected in the voivodship went to controlled landfill sites. The share of this form of waste disposal made up 46.9% (by 10.1 p. p. less than in 2013).

Management of collected municipal waste



At the end of 2014 in Mazowieckie voivodship operated 53 (at 57 in 2013) landfill sites with a total area of 196.1 ha (compared with 200.2 ha in 2013).

Table 4. Landfill sites in 2014

Specification	In operation		Closed	
	number	area in ha	number	area in ha
	as of 31 XII		during a year	
Total	53	196.1	7	10.9
urban areas	13	64.4	2	3.6
rural areas	40	131.7	5	7.3
subregions:				
Ciechanowsko-płocki	11	44.4	1	2.9
Ostrołęcko-siedlecki	20	58.0	2	3.6
Radomski	8	25.1	1	1.6
M.st. Warszawa	—	—	—	—
Warszawski wschodni	9	27.7	2	1.0
Warszawski zachodni	5	40.9	1	1.8

From the total number of landfill sites in operation the majority (75.5%) were located in rural areas. In 2014, 43 landfill sites, i.e. 81.1% were equipped with a pyrolysis plant, of which 28 with gas directly emitted to the atmosphere. Illegal waste dumping is still an alarming phenomena. At the end of 2014 there were 161 illegal dumping sites in Mazowieckie voivodship, of these 81.4% were located in rural areas. A total area of illegal dumping sites amounted to 71.7 thous. m². Compared to the end of December 2013, the number of illegal dumping sites went up by 18.4%; in rural areas it increased by 26.0%, whereas in urban areas decreased by 6.3%. During 2014, 1526 illegal dumping sites were liquidated in the voivodship (by 20.5% less than in 2013), from which a total of 7.9 thous. t of waste were removed (by 12.4% more compared with 2013). The majority, i.e. 80.5% of liquidated illegal dumping sites were located in urban areas, most of them in Warsaw – 49.1%.

Mazowieckie voivodship against the background of the country in 2014 – selected data

Specification	Poland	Voivodship	
		total	Poland=100
Municipal waste collected in thous. t	10330.4	1398.8	13.5
of which by public sector units	3756.4	483.7	12.9
mixed	8281.2	1150.7	13.9
collected from:			
trade, small business, offices and institu-			
tions	1511.1	193.8	12.8
municipal services	274.4	24.7	9.0
households	6495.8	932.1	14.3
per inhabitant in kg	168.8	175.1	x
collected separately and segregated from dry			
waste	2049.2	248.1	12.1
intended for recovery and disposal			
landfill	5436.9	656.5	12.1
incineration			
with energy recovery	1162.1	349.7	30.1
without energy recovery	398.0	17.9	4.5
composting or fermentation	1153.6	124.6	10.8
recycling (excluding organic)	2179.9	250.1	11.5
Controlled landfill sites in operation (as of 31			
XII)			
number	394	53	13.5
area in ha	1927.0	196.1	10.2
Illegal dumping sites			
in operation (as of 31 XII)	2371	161	6.8
liquidated (during a year)	12707	1526	12.0

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