



# Northern Ireland Local Authority Collected Municipal Waste Management Statistics

Quarterly provisional estimates for April to June 2022



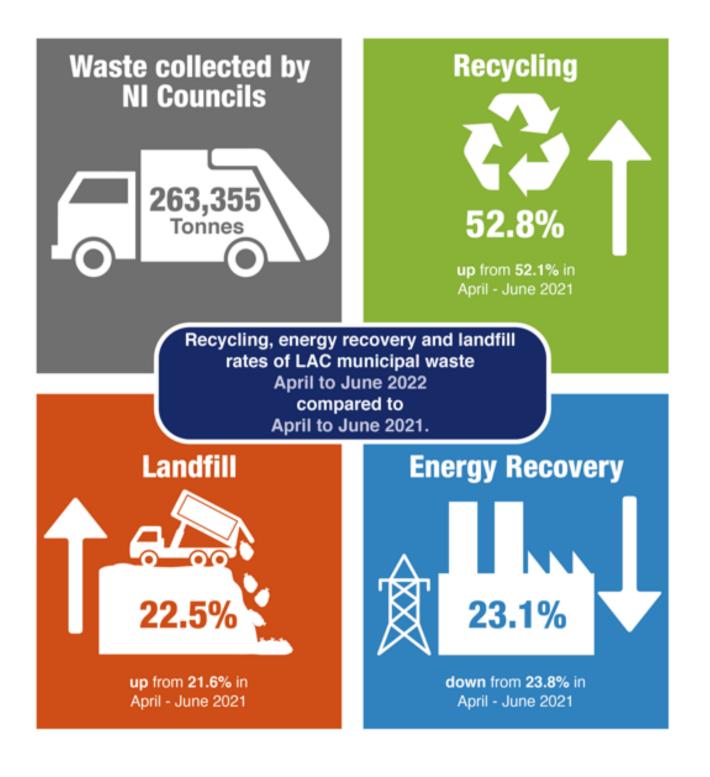


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# Northern Ireland waste management statistics – April to June 2022



# **Key Points**

- Northern Ireland's councils collected 263,355 tonnes of waste during April to June 2022, a 7.5 per cent decrease compared to April to June 2021.
- During April to June 2022, 52.8 per cent of waste collected by councils was sent for recycling, 0.7 per cent higher than the recycling rate for April to June 2021.
- The landfill rate for waste collected by councils was 22.5 per cent in April to June 2022, a fall from 72.5 per cent in April to June 2006, but higher than the 21.6 per cent recorded during April to June 2021.
- Almost a quarter (23.1 per cent) of waste arisings were sent for energy recovery in April to June 2022 which was lower than the 23.8 per cent reported in April to June 2021. In the longer term, energy recovery rates have increased from 0.1 per cent recorded during April to June 2010.
- Household waste accounted for 87.8 per cent of all waste collected during this period.
- The recycling rate for household waste was 53.8 per cent in April to June 2022, higher than the 52.1 per cent recorded during the same quarter of 2021. The landfill rate for household waste was 21.8 per cent, similar to the rate recorded in April to June 2021.

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#### **Reader Information**

This document may be made available in alternative formats, please contact us to discuss your requirements. Definitions of key terms used in this publication are available in <u>Appendix 2 – Glossary</u> of the latest Annual Report.

#### **Purpose**

This is a quarterly publication which reports provisional statistics on the key measurements of local authority collected municipal waste for councils and waste management groups in Northern Ireland.

The data contained are used by local authorities, waste management groups, Devolved Administrations, UK Government and the EU to measure progress towards achieving targets from various waste strategies including:

- The revised Northern Ireland Waste Management Strategy
- The Waste Framework Directive

Data on household recycling was a population indicator for the previous Programme for Government (PfG) and has been proposed as an indicator in the forthcoming PfG.

The data are also used by media, the general public and special interest groups to inform policy and lifestyle choices related to the treatment of waste.

Further details are available in <u>Appendix 1 – Main Uses of Data</u> of the Annual Report.

#### **Next Updates**

- Provisional statistics for July to September 2022 are scheduled for publication in January 2023.
- Finalised data for 2021/22 are scheduled to be published in November 2022 and will supersede previously published data from the four quarterly returns for that financial year.
- The scheduled dates for all upcoming publications are available from the GOV.UK statistics release calendar: www.gov.uk/search/research-and-statistics

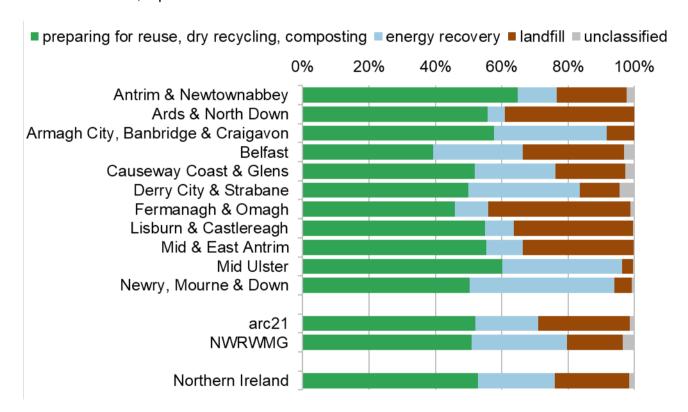
#### **Overview**

This report presents information on the quantities of Local Authority Collected (LAC) municipal waste managed in Northern Ireland between April and June 2022. The report is split into four sections, each of which cover local authority collected municipal waste and, where appropriate, household waste:

- waste arisings (pages 2-3),
- recycling (pages 4-5),
- energy recovery (pages 6-7),
- landfill (pages 8-10).

Figure 1: Waste preparing for reuse, dry recycling, composting, energy recovery and landfill rates by council and waste management group

Northern Ireland, April to June 2022



At the Northern Ireland level, 52.8 per cent of waste collected by councils was sent for preparing for reuse, dry recycling and composting between April and June 2022. Energy recovery accounted for 23.1 per cent and 22.5 per cent was landfilled. The remaining 1.5 per cent unaccounted for is likely to involve moisture and/or gaseous losses. Each of the rates are discussed in detail in the appropriate section of the report.

The rate of waste sent for preparing for reuse, dry recycling and composting was 0.7 per cent higher to that reported in April to June 2021. The energy recovery rate decreased by 0.7 percentage points while the landfill rate increased by 0.9 percentage points from April to June 2021. Household waste accounted for 87.8 per cent of total waste collected by councils. Household waste includes materials collected directly from households via kerbside collections, material taken to bring sites and civic amenity sites as well as several other smaller sources.

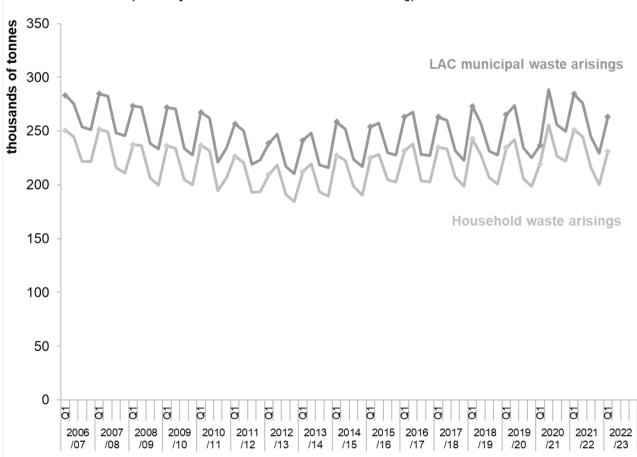
## Waste arisings

Northern Ireland's councils collected 263,355 tonnes of waste between April and June 2022. This was 7.5 per cent lower than the 284,771 tonnes collected during April to June 2021. While there were some relaxations to the Coronavirus Health Regulations during April to June 2021, many people continued to work from home which contributed to an increased tonnage of waste collected during this quarter. Factors affecting LAC municipal waste arisings, the majority of which is household waste, include individual household behaviours, the advice and collection services provided by councils, the state of the economy and weather conditions during that particular quarter.

The total quantity of local authority collected (LAC) municipal waste arisings is a key performance indicator, KPI (j). This indicator is used to monitor performance under the Local Government (Performance Indicators and Standards) Order (Northern Ireland) 2015.

Since 2006/07 household waste has accounted for 86-90 per cent of total waste collected by councils each quarter, apart from April to June 2020 when Covid-19 restrictions resulted in a larger than normal proportion of household waste being collected. During April to June 2022 household waste accounted for 87.8 per cent. The remaining 12.2 per cent was non-household waste such as rubble/soil and commercial/industrial waste.

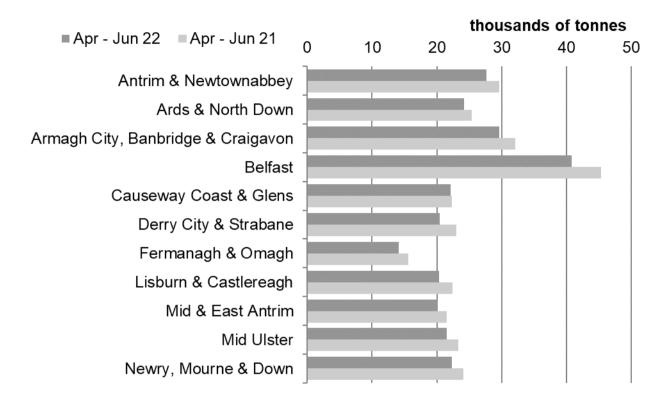
Figure 2: Waste arisings
Northern Ireland, quarterly from 2006/07 to 2022/23 KPI (j)



The longer term trend for April to June saw a gradual reduction in waste arisings of 15.8 per cent across six years, from 283,493 tonnes between April and June 2006 to a low of 238,613 tonnes between the same three months of 2012. Since 2012, arisings have

generally shown an increasing trend until the April to June 2021 quarter (April to June 2020 excepted). Waste arisings in the latest April to June quarter have returned to a level similar to those recorded pre-pandemic.

Figure 3: Waste arisings by council
Northern Ireland, April to June 2021 and April to June 2022, KPI (j)



The proportion of waste collected by each council broadly reflects the population within the councils. Belfast collected the most waste at 40,846 tonnes, whilst Fermanagh and Omagh collected the least at 14,070 tonnes.

All councils reported a decrease in total arisings in April to June 2022 compared to the same period in 2021. The largest percentage decrease was recorded in Derry City & Strabane at 11.3 per cent. The quantity of waste collected at kerbside and civic amenity sites fell by 3.8 and 14.7 per cent respectively compared to April to June 2021.

These statistics can be found in Table 1 accompanying data tables spreadsheet and in the time series dataset.

# Recycling

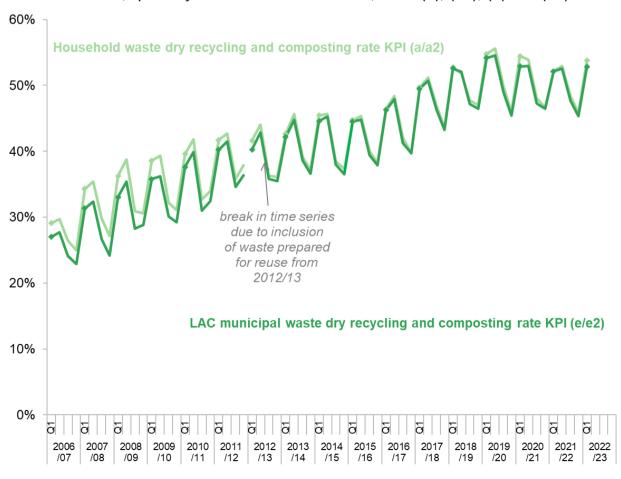
This section of the report looks at local authority collected (LAC) municipal waste and household waste recycling rates, both of which include waste sent for preparing for reuse, dry recycling and composting.

There were 139,106 tonnes of waste sent for preparing for reuse, dry recycling and composting (referred to as 'recycling' for the rest of this section) between April and June 2022. The waste recycling rate was 52.8 per cent. This was slightly higher than the 52.1 per cent of waste sent for recycling between April and June 2021.

The recycling rate for household waste only was 53.8 per cent between April and June 2022, again slightly higher than the 52.1 per cent recorded during the same three months of 2021. The proportion of household waste sent for dry recycling made up 21.5 per cent, composting 32.0 per cent and preparing for reuse 0.3 per cent. Last year the equivalent rate for preparing for reuse was 0.3 per cent, whilst the dry recycling and composting rates were 22.6 per cent and 29.3 per cent respectively.

Waste sent for recycling is included in a number of key performance indicators, KPI (a), (a2), (e), and (e2). These indicators are used to monitor performance under the Local Government (Performance Indicators and Standards) Order (Northern Ireland) 2015. The household waste annual recycling rate was a population indicator for <a href="Programme for Government">Programme for Government (PfG)</a>) 2016-2021 and is being proposed as an indicator for the next PfG.

Figure 4: Waste sent for preparing for reuse, dry recycling and composting Northern Ireland, quarterly from 2006/07 to 2022/23, KPIs (a), (a2), (e) and (e2)

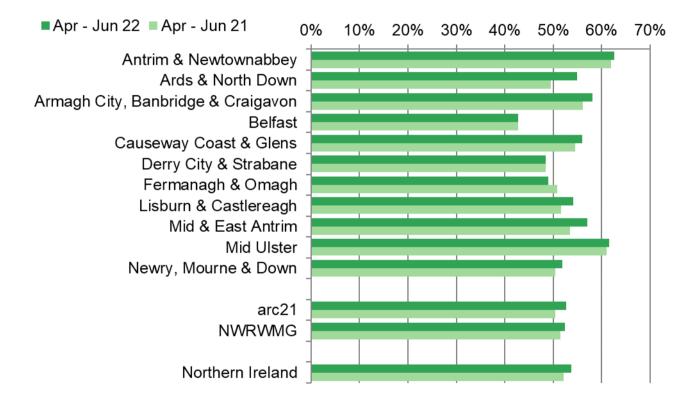


These statistics show seasonal variation which is driven by the quantities of garden waste sent for composting. Greater quantities of garden waste are collected and sent for composting during the spring and summer quarters, April to June and July to September.

The longer term trend for Local Authority Collected municipal waste recycling has been a steady increase from 27.0 per cent in April to June 2006 to 54.2 per cent in April to June 2019. The Local Authority Collected municipal waste recycling rate for Northern Ireland has remained at a similar level in the quarters April to June 2020 until April to June 2022. Waste sent for preparing for reuse (598 tonnes this quarter) has been included since 2012/13 and adds 0.2 percentage points to the overall LAC recycling rate in April to June 2022.

Figure 5: Household waste preparing for reuse, dry recycling and composting rate by council and waste management group

Northern Ireland, April to June 2021 and April to June 2022, KPI (a2)



Ards & North Down reported the largest increase in their household recycling rate compared to April to June 2021 at 5.4 percentage points, with an increase in waste sent for composting the largest contributing factor in this rise. Seven other councils reported increases in their household recycling rates, whilst the rate decreased in Fermanagh & Omagh district council area. Belfast and Derry City & Strabane reported similar rates to those in April to June 2021.

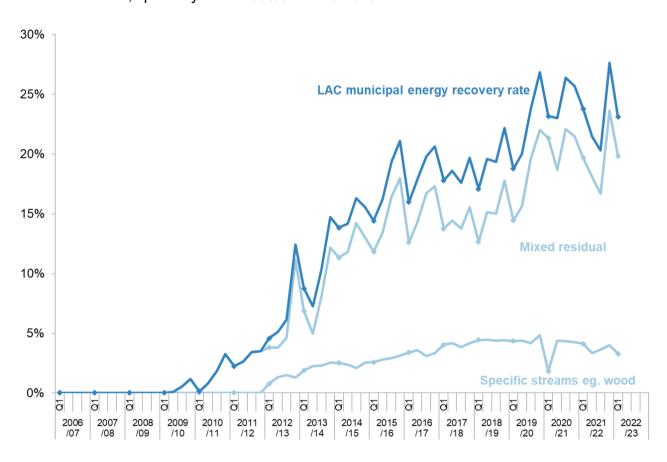
These statistics can be found in Tables 4 and 12 of the accompanying data tables spreadsheet and in the <u>time series dataset</u>.

## **Energy recovery**

This quarterly report includes statistics on energy recovery, which is the term used when value is gained from waste products by converting them into energy. All energy recovery statistics reported in this section are derived from material sent for energy recovery via incineration/gasification, although other technologies exist. Energy recovery via anaerobic digestion is not included in this section and is explained further in <a href="Appendix 1 - Limitations">Appendix 1 - Limitations</a> of Data of the latest Annual Report.

Between April to June 2022, 60,890 tonnes of waste arisings were sent for energy recovery. This produced a waste energy recovery rate of 23.1 per cent, lower than the 23.8 per cent rate reported for the same period in 2021. For each period, the majority of energy recovery was from mixed residual waste, with a smaller proportion from specific streams, e.g. wood.

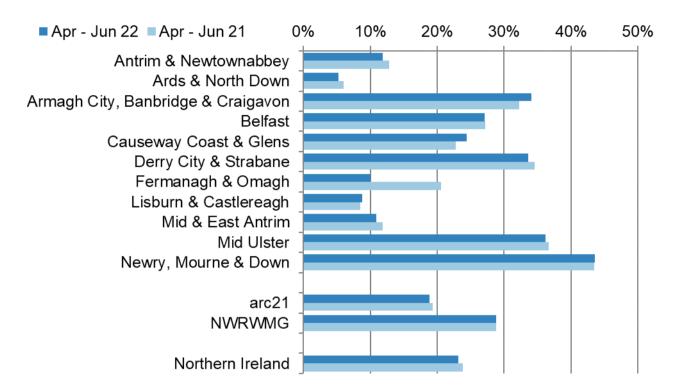
Figure 6: Waste sent for energy recovery via incineration Northern Ireland, guarterly from 2006/07 to 2022/23



There was zero, or very small quantities, of waste sent for energy recovery before 2009/10. Strong growth began during 2009/10 with the energy recovery rate increasing from 0.1 per cent during April to June 2010 to 23.2 per cent for the same three months of 2020. In recent April to June quarters the energy recovery rate has remained at a similar level. Most of the growth since 2010/11 has been driven by mixed residual waste sent for energy recovery (from 0.1 per cent during April to June 2010 to 19.8 per cent in April to June 2022). The specific stream proportion was 3.3 per cent in April to June 2022.

Mixed residual waste sent for energy recovery is combustible residual waste collected from the kerbside and from civic amenity sites which is processed into refuse derived fuel at material recovery facilities. The specific streams element of energy recovery is mostly wood but also includes furniture, carpets and mattresses, mostly collected from civic amenity sites.

Figure 7: Waste energy recovery rate by council and waste management group Northern Ireland, April to June 2021 and April to June 2022



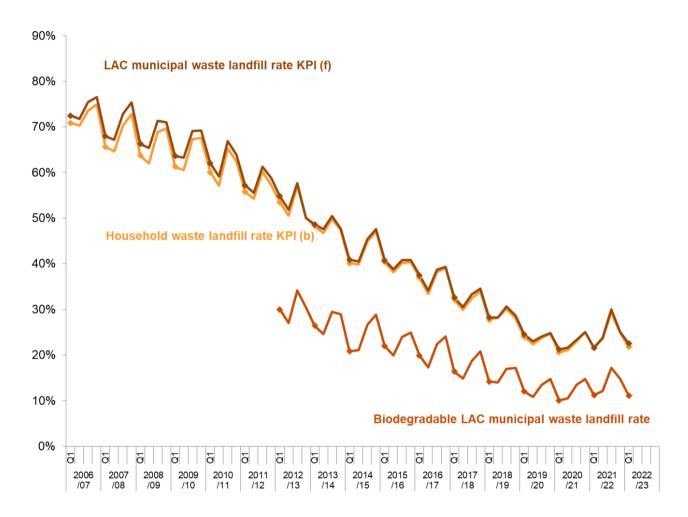
The highest waste energy recovery rate was recorded in Newry, Mourne & Down at 43.6 per cent, whilst the lowest was recorded in Ards & North Down at 5.2 per cent. Two councils recorded an increase in the waste energy recovery rate in April to June 2022 compared to the same quarter in 2021 with the largest increase of 1.8 percentage points in Armagh City, Banbridge and Craigavon. Five councils recorded a decrease in the energy recovery rate while there was little change recorded in four others.

These statistics can be found in Tables 3 and 4 of the accompanying data tables spreadsheet and in the time series dataset.

#### Landfill

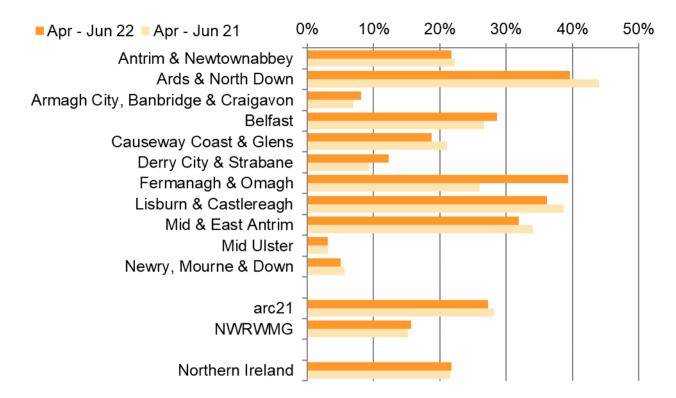
The quantity of LAC municipal waste sent to landfill decreased by 3.6 per cent, from 61,525 tonnes during April to June 2021 to 59,291 tonnes between April to June 2022. This produced a quarterly landfill rate of 22.5 per cent, higher than the 21.6 per cent recorded during the same quarter of 2021. The latest quarterly landfill rate for household waste only is 21.8 per cent.

Figure 8: Waste sent to landfill Northern Ireland, quarterly from 2006/07 to 2022/23, KPIs (b) and (f)



The longer term trend has seen the April to June household waste landfill rate fall from 70.9 per cent in 2006 to a low of 20.6 per cent in 2020. The landfall rate has slightly increased in both the April to June periods since. Note that the landfill rate exhibits seasonality and the April to June and July to September quarters tend to have lower rates than October to December and January to March. The seasonality stems from the higher level of compostable garden waste arising during spring and summer.

Figure 9: Household waste landfilled by council and waste management group Northern Ireland, April to June 2021 and April to June 2022, KPI (b)



The highest household waste landfill rate was recorded in Ards & North Down at 39.7 per cent, whilst the lowest was recorded in Mid Ulster at 3.1 per cent. The household waste landfill rate increased for four councils in April to June 2022 compared to the same three months in 2021, with the largest increase recorded in Fermanagh & Omagh of 13.4 percentage points. Four councils reported a fall in their household waste landfill rates with a further three recording similar household waste landfill rates to April to June 2021.

The statutory requirement for all councils in Northern Ireland to provide households with a container for food to enable its separate collection has contributed to a long-term drop in landfill rates, though increasing energy recovery rates for some councils have also contributed.

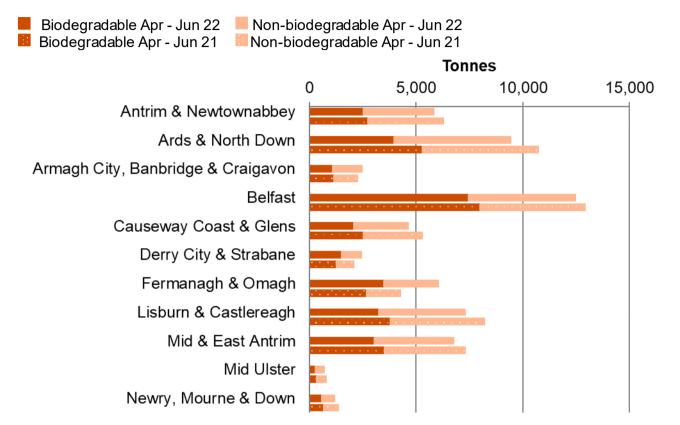
#### Biodegradable waste to landfill

The Landfill Allowance Scheme (NI) Regulations 2004 (as amended) placed a statutory responsibility on councils, in each scheme year, to landfill no more than the quantity of biodegradable waste for which they had allowances. The scheme concluded at the end of the 2019/20 financial year, however the continued monitoring of Biodegradable waste is required for existing target commitments which specify that it must be reduced to 35 per cent of the total amount (by weight) of biodegradable municipal waste produced in 1995.

Northern Ireland's councils sent 29,255 tonnes of biodegradable waste to landfill between April to June 2022, which was 49.3 per cent of all waste sent to landfill. During the same quarter last year, 31,940 tonnes of biodegradable waste was sent to landfill which was 51.9 per cent of all waste sent to landfill.

Figure 10 displays the tonnages of LAC biodegradable and non-biodegradable waste sent to landfill by each council, comparing them with other councils and to the same quarter last year.

Figure 10: Biodegradable and non-biodegradable waste to landfill by council Northern Ireland April to June 2021 and April to June 2022,



There is considerable variation between councils in the quantities of biodegradable waste sent to landfill, as well as the proportion of biodegradable waste in total landfill. In Derry City & Strabane, 61.1 per cent of all waste sent to landfill was biodegradable, whilst in Mid Ulster, 41.1 per cent of all waste sent to landfill was biodegradable.

#### **National Statistics Status**

National Statistics status means that our statistics meet the highest standards of trustworthiness, quality and public value, and it is our responsibility to maintain compliance with these standards.

These statistics were first designated as National Statistics, and underwent a full <u>assessment</u> against the Code of Practice, in January 2014 by the UK Statistics Authority.

A compliance check <u>assessment</u> was completed for the waste statistics produced by each of the UK regions in 2020 with the results of the finding published in October 2020.

The trustworthiness, quality and value of the statistics, including the coherence of the data source, methods and quality assurance (QA) arrangements, and the presentation of the statistics were reviewed with a final outcome that the statistics can continue to be designated as National Statistics.

The conclusion of the compliance check cited the following actions as strengths:

- Ongoing quality assurance of the data contained within the report by reviewing methods on a quarterly basis.
- Improved statistical output by creating a <u>time series</u> of Northern Ireland local authority collected municipal waste management statistics to accompany the report and tables. This <u>dataset</u> is also available on Open Data NI along with a <u>time series</u> of materials collected at Northern Ireland local authority waste management sites.
- Improved statistical output by creating <u>infographics</u> to accompany the report and tables.
- Improved statistical output by creating an <u>interactive dashboard</u> to accompany the report and tables.
- Hosted a workshop with users in February 2020 to review publications and statistical outputs.
- Sought and implemented recommendations from GSS good practice team to improve the publication.

Some areas for minor improvement were also suggested and these will be addressed as we continually improve the statistical output.

One suggestion was to liaise with the other UK regions to produce a guide on how waste is defined as recycled and explain the main definitional differences in recycling rates between countries. The recycling explainer is now available at the following link:

Recycling Explainer

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