

Recycling & recovery end use register 2011/12

In 2011/12, over 45,000 tonnes of Bath & North East Somerset residents waste was reused and recycled.

All of the material shown in this register is collected by Bath & North East Somerset Council and genuinely sent for reuse, recycling, or recovery.

All the material collected for reuse and recycling is sent for recycling within the UK where possible, however, due to demand or market availability, it is sometimes necessary to export some materials overseas. The percentage of materials exported for recycling and reuse 2011/12 was 2%.

In total we exported just over 9% of the 45,000 tonnes diverted away from landfill. The majority of this exported waste has been removed from residents' weekly bin waste at a facility in Avonmouth. We sent 9,100 tonnes of waste to this facility in 2011/12, and after all the recyclable and compostable waste has been taken out, the rest is exported for use in energy recovery.

New for 2011/12 is data on the carbon impact of all the waste we divert away from landfill.

This new data does not represent a detailed carbon impact assessment for waste management in Bath & North East Somerset being based on national average greenhouse gas factors for CO₂ (kg CO₂/tonne savings versus landfill) for England provided by the Waste and Resources Action Programme (WRAP).

These national factors are not calculated from detailed life cycle analysis and do not take into account different collection methods, treatment processes or transport.

In 2011/12, over 28,000 tonnes of CO₂ equivalent in emissions were avoided as a result of efforts made by residents of Bath & North East Somerset residents in diverting waste from landfill.

The following tables show a breakdown of the tonnes of material collected by each service and the carbon impact as described above, the amount sent to individual reprocessors and the materials final end use.

NB. The following represents only the Household Waste (also including C&D waste) diverted from landfill in Bath & North East Somerset

KERBSIDE COLLECTIONS	RECYCLED (TONNES)	ENERGY RECOVERY (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO ₂ EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
Aluminium Foil	1.94	0.00	0.00	17.98	May Gurney Ltd.	Novelis UK Ltd., Warrington	0.00	Remelted for production of new aluminium cans
Aluminium Cans	109.87	0.00	0.00	1018.12	May Gurney Ltd.	Novelis UK Ltd., Warrington	0.00	
Steel Cans	523.86	0.00	0.00	942.52	May Gurney Ltd.	Tata Steel, Port Talbot Works, South Wales	523.86	Used in new steel products
Car Batteries	9.62	0.00	0.00	5.42	May Gurney Ltd.	G&P Batteries, Darlaston, West Midlands	0.00	Separated into fractions and reprocessed into new batteries or reused as raw materials ie. Scrap metal and plastic
Cardboard	2,353.34	0.00	0.00	2104.36	May Gurney Ltd.	DS Smith Recycling (formerly Severnside Recycling Ltd), Keynsham	0.00	Reprocessed into new cardboard
Clothing & Footwear	126.33	0.00	0.00	256.19	May Gurney Ltd.	Wilcox Textile Recycling, Bilston	113.70	Exported to Africa, Eastern Europe and Indian sub-continent
Engine Oil	4.50	0.00	0.00	3.26	May Gurney Ltd.	Eco-Oil Ltd, Avonmouth	0.00	Reprocessed into low-grade fuel oil for asphalt plants and generators
Food Waste	4,295.50	0.00	0.00	2101.68	May Gurney Ltd.	New Earth Solutions, Sharpness Docks, Gloucestershire	0.00	Reprocessed into usable compost, & for agricultural use
Fridges & Freezers	14.88	0.00	0.00	9.76	Bath & North East Somerset Council	CA Recycling, Newport	0.00	Degassed and broken up into separate components for recycling
Garden Waste	3,032.08	0.00	0.00	823.21	Bath & North East Somerset Council	Bracken Down Ltd. On farm composting at Green Ore	0.00	Composted for agricultural use on site
	2,953.64	0.00	0.00	801.91		Hills Waste Management, Calne, Wiltshire	0.00	Reprocessed into usable compost
	216.46	0.00	0.00	58.77		Viridor Waste Ltd, Composting facility at Caste Cary	0.00	
Brown Glass	Combined with the Green glass			0	May Gurney Ltd.	O-I Manufacturing UK., Harlow.	0.00	Reprocessed into new bottles and jars
Clear Glass	508.10	0.00	0.00	199.18			0.00	
Green Glass	4,435.08	0.00	0.00	1738.55			0.00	
Mixed Glass	0.00	0.00	0.00	0			0.00	
Household Batteries	5.56	0.00	0.00	19.74			May Gurney Ltd.	
Paper/Mixed paper	5,646.42	0.00	0.00	4576.5	May Gurney Ltd.	Aylesford Newsprint Ltd. Kent	0.00	Reprocessed into 100% recycled paper for newsprint
Mixed Plastics	1,265.47	0.00	0.00	1537.58	May Gurney Ltd.	Eco Plastics Ltd, Lincolnshire	0.00	Sorted, graded and shredded. Recycled into new plastic items including pipes, films, compost bins and fleece jackets
Mobile Phones	0.00	0.00	0.28	0	May Gurney Ltd.	Greensource Solutions, Bristol	0.00	Reused and recycled by Fonebank
Toner Cartridges			0	0	May Gurney Ltd.	Greensource Solutions, Bristol	0.00	Re-filled and re-used, or recycled.
BRING BANKS	RECYCLED (TONNES)	ENERGY RECOVERY (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO ₂ EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
Aluminium Cans	0.60	0.00	0.00	5.56	May Gurney Ltd.	Novelis UK Ltd., Warrington	0.00	Smelted into aluminium ingots for production of new aluminium cans
Steel Cans	2.95	0.00	0.00	5.31	May Gurney Ltd.	Tata Steel, Port Talbot Works, South Wales	2.95	Used in new steel products
Food & drink cartons	14.06	0.00	0.00	-24.32	Recresco Ltd, on behalf of Tetrapak	Lefarge, Sweden	14.06	Pulped and different materials are separated. Cardboard used to make new paper/cardboard, plastic and aluminium is used in either furniture or burnt for energy or turned into more aluminium products
Brown Glass	0.00	0.00	0.00	0	May Gurney Ltd.	O-I Manufacturing UK., Harlow, Doncaster or Knottingley	0.00	Reprocessed into new bottles and jars
Clear Glass	0.00	0.00	0.00	0			0.00	
Green Glass	0.00	0.00	0.00	0			0.00	
Mixed Glass	14.26	0.00	0.00	3.33			0.00	
Paper	4.10	0.00	0.00	3.32	May Gurney Ltd.	Aylesford Newsprint Ltd. Kent	0.00	Reprocessed into 100% recycled paper for newsprint

RECYCLING CENTRES	RECYCLED (TONNES)	ENERGY RECOVERY (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO ₂ EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
Bicycles	0.00	0.00	1.32	0	Jole Rider, local charity		0.00	Reconditioned for reuse
Bric-a-brac	0.00	0.00	0.00	0	Shaw Trust, local charity		0.00	Sold on for reuse
Books	0.00	0.00	15.54	0	British Heart Foundation		0.00	Sold on in shops for reuse
Aluminium Cans	1.29	0.00	0.00	11.95	May Gurney Ltd.	Novelis UK Ltd., Warrington	0.00	Smelted into aluminium ingots for production of new aluminium cans
Steel Cans	6.39	0.00	0.00	11.5	May Gurney Ltd.	Tata Steel, Port Talbot Works, South Wales	0.00	Used in new steel products
Car Batteries	14.74	0.00	0.00	8.3	Sims Metals, Avonmouth		0.00	Separated into fractions and reprocessed into new batteries or reused as raw materials ie. Scrap metal and plastic
Cardboard	295.77	0.00	0.00	264.48	Bath & North East Somerset Council & May Gurney Ltd.	DS Smith Recycling (formerly Severnside Recycling Ltd), Keynsham	0.00	Reprocessed into new cardboard
Cardboard	318.09	0.00	0.00	284.44	JW Waste Disposal	DS Smith, Watchet, Somerset, TA23 0AY	0.00	Reprocessed into new cardboard
Clothing	176.81	0.00	0.00	1058.56	May Gurney Ltd.	Wilcox Textile Recycling, Bilston	159.13	Exported to Africa, Eastern Europe and Indian sub-continent
Footwear	0.00	0.00	20.88	0	European Recycling Company,		20.88	Exported to developing countries for reuse.
Engine Oil	19.40	0.00	0.00	14.07	West Oils Environmental, Gloucester		0.00	Reprocessed into low-grade fuel oil for asphalt plants and generators
Fluorescent Tubes	2.69	0.00	0.00	0	Mercury Recycling Ltd, Manchester		0.00	Separated into component fractions and recycled
Food & drink cartons	3.79	0.00	0.00	-6.56	Recresco Ltd, on behalf of Tetrapak	Lefarge, Sweden	3.79	Pulped and different materials are separated. Cardboard used to make new paper/cardboard, plastic and aluminium is used in either furniture or burnt for energy or turned into more aluminium products
Fridges & Freezers	170.40	0.00	0.00	111.79	CA Recycling, Newport		0.00	Degassed and broken up into separate components for recycling
Furniture	0.00	0.00	4.12	3.79	Bath & North East Somerset Council	Bath & North East Somerset Council	0.00	Sold on for reuse at low prices to people on low incomes
Garden Waste	2,016.75	0.00	0.00	547.55	Bath & North East Somerset Council	Bracken Down Ltd. On farm composting at Green Ore	0.00	Composted for agricultural use on site
	1,303.34	0.00	0.00	353.86		Viridor Waste Ltd, Composting facility at Caste Cary	0.00	Reprocessed into usable compost
	1,714.98			465.62		Hills Waste Management, Calne, Wiltshire	0.00	
Gas bottles	0.00	0.00	9.43	0	Viridor Waste Ltd, Castle Cary		0.00	Reuse if returnable otherwise materials are recycled
	0.00	0.00	2.60	0	Bale Group Ltd, Honiton			Reuse if returnable otherwise materials are recycled
Mixed Glass	201.98	0.00	0.00	47.14	May Gurney Ltd.	O-I Manufacturing UK., Harlow, Doncaster or Knottingley	0.00	Reprocessed into new bottles and jars
Electricals - White goods	87.82	0.00	0.00	111.15	SIMS Metals, Newport		0.00	Broken down into separate components for recycling
	85.05	0.00	0.00	107.64	SIMS Metals, Avonmouth		0.00	Broken down into separate components for recycling
Electricals - Small mixed goods	537.00	0.00	0.00	795.62	SIMS Metals, Newport		0.00	Broken down into separate components for recycling
Paper	363.44	0.00	0.00	294.57	May Gurney Ltd.	Aylesford Newsprint Ltd. Kent	0.00	Reprocessed into 100% recycled paper for newsprint
Plasterboard / Gypsum based products	270.94	0.00	0.00	37.61	Wiltshire Waste (Recycling) Ltd, Devizes, Wilts		0.00	Shredded and either sent for use in either manufacture of new plasterboard or cement
Mixed Plastics	18.52	0.00	0.00	22.5	May Gurney Ltd.	Eco Plastics Ltd, Lincolnshire		Sorted, graded and shredded.
Rubble	5,714.85	0.00	0.00	51.31	Bath & North East Somerset Council	MJ Church Plant, Star Farm, Marshfield	0.00	Screen and crushed to for resale as aggregates
Scrap Metal	494.92	0.00	0.00	1108.07	Sims Metals, Avonmouth		0.00	Separated by metal type and recycled
	522.02	0.00	0.00	1168.74	Bath & North East Somerset Council	Bidwells	0.00	Separated by metal type and recycled
TV's & Monitors	410.14	0.00	0.00	0	SIMS Metals, Newport		0.00	Broken down into separate components for recycling
Tyres	40.89	0.00	0.00	78.1	RJ Kings, Farrington Gurney	Western Tyres, Avonmouth	0.00	Shredded and used to make new rubber products such as new tyres and running tracks
Vegetable Oil	4.64	0.00	0.00	0	C&D Oils Ltd, Newport		0.00	Reprocessed into Biodiesel and lubricants
Wood	3,194.96	0.00	0.00	4076.66	Bath & North East Somerset Council	Viridor Waste Ltd, Filton Transfer Station, Bristol	0.00	Chipped for reuse in new products

OTHER RECYCLING	RECYCLED (TONNES)	ENERGY RECOVERY (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO ₂ EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
Leaf litter from street sweepings	0.00	0.00	0.00	0	Bath & North East Somerset Council	Bracken Down Ltd. On farm composting at Green Ore	0.00	Composted for agricultural use on site
	223.56	0.00	0.00	0	Bath & North East Somerset Council	Hills Waste Management, Calne, Wiltshire	0.00	Reprocessed into usable compost
	79.36	0.00	0.00	0	Bath & North East Somerset Council	Viridor Waste Ltd, Composting facility at Caste Cary	0.00	
Other mixed items	0.00	0.00	11.31	0	Residents of Bath & North East Somerset	Residents of Bath & North East Somerset	0.00	Reused by residents of Bath & North East Somerset
WASTE RECOVERED FROM WEEKLY COUNCIL BLACK SACK COLLECTION	RECYCLED (TONNES)	ENERGY RECOVERY (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO ₂ EQUIVALENT)	CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
Aluminium	12.43	0.00	0.00	115.16	New Earth Solutions, Avonmouth	Sims Metals, Avonmouth	12.43	Exported for remelting
Aluminium	0.57	0.00	0.00	5.3	New Earth Solutions, Avonmouth	Relaince Scrap Metal Merchants (Parkstone) Ltd, Poole	0.00	Processed for remelting
Aluminium	0.95	0.00	0.00	8.84	New Earth Solutions, Avonmouth	European Metal Recycling, Birmingham	0.95	Exported for remelting
Aluminium	6.31	0.00	0.00	58.51	New Earth Solutions, Avonmouth	Alutrade Limited, Redditch	0.00	Remelted for production of new aluminium products
Steel	252.56	0.00	0.00	454.4	New Earth Solutions, Avonmouth	Sims Metals, Avonmouth	252.56	Exported for remelting
Steel	3.46	0.00	0.00	6.23	New Earth Solutions, Avonmouth	European Metal Recycling, Birmingham	3.46	Exported for remelting
Steel	1.91	0.00	0.00	3.44	New Earth Solutions, Avonmouth	Pontypool Steel Ltd, Pontypool	0.00	Processed for remelting
Mixed Plastics	122.77	0.00	0.00	149.17	New Earth Solutions, Avonmouth	AWS Ecoplastics Limited, Gainsborough	0.00	Reprocessed into new plastic bottles
Mixed Plastics	1.88	0.00	0.00	2.29	New Earth Solutions, Avonmouth	N+P International BV, Netherlands	1.88	Assessment of recycling potential
Mixed Plastics	3.50	0.00	0.00	4.25	New Earth Solutions, Avonmouth	Transwaste Recycling & Aggregates Ltd, North Humberside	0.00	Assessment of recycling potential
Compost like material	697.64	0.00	0.00	0	New Earth Solutions, Avonmouth	Biffa Waste Services Ltd, Swindon	0.00	Used for landfill site restoration
Other	0.00	3,562.23	0.00	131.97	New Earth Solutions, Avonmouth	AVR Afvalverwerking BV, Netherlands	3,562.23	Exported for energy recovery
Other	0.00	518.24	0.00	19.2	New Earth Solutions, Avonmouth	Kent Enviropower Ltd, Maidstone	0.00	Energy recovery
Other	0.00	535.64	0.00	19.84	New Earth Solutions, Avonmouth	Transwaste Recycling & Aggregates Ltd, North Humberside	0.00	Turned into fuel for cement kilns