

SOMERSET WASTE PARTNERSHIP - RECYCLING END-USES REGISTER 2007/08

In 2007/08, Somerset residents reused and recycled 161,803 tonnes of waste, which saved an estimated 117,934 tonnes of carbon emissions - equivalent to taking 32,750 cars off the road for a year. 92% was recycled in the UK, with only 8% sent overseas for recycling. 50.9% of Somerset's total household waste was recycled - the highest rate in England for a county or unitary authority area.

This is the first annual register to be published by Somerset Waste Partnership of what happens to materials collected for recycling and reuse from Somerset residents. All materials collected for recycling by Somerset Waste Partnership are sent for recycling. Only contaminated loads may have to be rejected, but there were no rejected loads in 2007/08, due to the high quality of recycling from Somerset's kerbside recycling collections and Household Waste Recycling Centres.

The table below details the materials collected in 2007/08 by Somerset Waste Partnership services: kerbside collections, Household Waste Recycling Centres and bring banks, together with materials collected by third parties on which the SWP paid Recycling or Reuse Credits. The table shows the tonnages of materials collected, the collection contractor, the reprocessor and the final end use of materials. Also shown are estimates of the carbon saved (Carbon Dioxide equivalent) by recycling and reuse, which have been calculated by Resource Futures (www.resourcefutures.co.uk) using the latest carbon saving factors available from life cycle analysis studies.

BENEFITS OF RECYCLING - Recycling reduces carbon emissions, both by saving energy in manufacturing processes and by avoiding the powerful greenhouse gas (methane) emitted from landfilled biodegradable waste, such as paper and food. Recycling also leads to other environmental benefits, such as conserving natural resources from forestry and mining and reducing other forms of pollution.

EXPORTS - Somerset Waste Partnership prefers its recycling contractors to supply local UK markets, but sometimes it is more economic to export some materials overseas for recycling. For example, demand to reuse clothing is much stronger in developing countries than in the UK. In 2007/08, Viridor and Perrys exported some mixed paper and cardboard collected in Somerset to China. A study commissioned by WRAP (www.wrap.org.uk) found the energy and carbon savings from recycling still out-weighed, by at least 3 to 1, the energy use and carbon emissions from shipping to China. The situation is further improved as the container ships used for these exports would otherwise return empty, after delivering goods manufactured in China to the UK.

NOTE: All materials listed are officially defined as household waste except hardcore, which is defined as municipal waste.

SOMERSET WASTE PARTNERSHIP manages waste and recycling services on behalf of all local authorities in Somerset: Mendip District Council, Sedgemoor District Council, Somerset County Council, South Somerset District Council, Taunton Deane Borough Council and West Somerset Council.



KERBSIDE COLLECTIONS	RECYCLED (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO2 EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
PAPER	19,058.58	0.00	25,157.33	May Gurney	Aylesford Newsprint, Kent.	0.00	Reprocessed into 100% recycled paper for newsprint
MIXED PAPER AND CARDBOARD	1,765.82	0.00	2,330.88	May Gurney	Sevenside Recycling, Watchet, Somerset	0.00	Reprocessed into new cardboard
YELLOW PAGES	180.49	0.00	238.25	May Gurney	Aylesford Newsprint, Kent	0.00	Reprocessed into 100% recycled paper for newsprint
BROWN GLASS	578.89	0.00	185.24	May Gurney	O-I Manufacturing UK, Harlow Essex	0.00	Reprocessed into new glass bottles and jars
CLEAR GLASS	3,873.72		1,239.59				
GREEN GLASS	6,842.01		2,189.44				
MIXED GLASS	811.77		259.77		Recresco Ltd, Avonmouth Dock, Bristol	811.77	Sent to European markets to be recycled into new bottles and jars
CANS (TINPLATE STEEL AND ALUMINIUM) AND ALUMINIUM FOIL	2,239.86	0.00	5,536.93	May Gurney	AMG Limited, Llanelli, South Wales	0.00	AMG separate metals from cans. Steel is sold to Corus for a number of end uses, such as car doors, fridge panels and construction steel. Aluminium is smelted into sheets and sold to Novelis to be made into new aluminium cans. Tin is sold for high quality end use in the electronic and aerospace industries.

FOOD WASTE	10,473.11	0.00	1,989.89	May Gurney	Viridor, In-Vessel Composter (IVC), Dimmer, Nr Castle Cary, Somerset	0.00	Mixed with garden waste and composted. Compost used as soil improver by local farmers.
	1,981.36		376.46		Eco-Composting IVC, Dorset		Mixed with garden waste and composted in the In-vessel composter. Compost used on turf growing fields to replenish soil.
	2,052.00		861.84		Greenfinch AD, Shropshire		Anaerobic digestion (AD) of food waste to produce a biofertiliser used on agricultural land, and biogas used to generate electricity.
	349.98		146.99		Holsworthy AD, Devon		
GARDEN WASTE	3,411.08	0.00	648.11	May Gurney	Viridor, Priorswood, Taunton, Somerset	0.00	Composted in Windrows to produce REVIVE compost which is sold at HWRCs for domestic use and in bulk for agricultural use
	4,211.46		800.18		Viridor, Dimmer, Castle Cary, Somerset		
	3,905.62		742.07		Viridor, Walpole, Bridgwater, Somerset		
TEXTILES AND FOOTWEAR	0.00	694.25	13,190.75	May Gurney	MJ Bowers, Limington near Yeovil, Somerset	520.69	Direct re-use in developing countries or shredded to be made into cotton felt/ wadding/ mops/dusters and industrial wiping cloths.
PLASTIC BOTTLES AND PLASTIC BAGS	129.46	0.00	194.19	May Gurney	AWS Eco-plastics, Leicester	0.00	Plastic bottles are sorted, graded and shredded. Pellets are then sold on to manufacturers for recycling into items such as films, pipes, compost bins and fleece jackets.
					J&A Young, Leicester		Reprocessed into refuse sacks and other films

AUTOMOTIVE BATTERIES	65.67	0.00	N/A*	May Gurney	G&P Batteries, Darlaston, West Midlands	0.00	Separated into fractions and re-processed into new batteries or reused as raw material i.e. scrap metal and plastic
ENGINE OIL	4.67	0.00	8.87	May Gurney	Chemical Recoveries, Avonmouth	0.00	Reprocessed into low-grade fuel oil for asphalt plants and generators.
BRING BANKS	RECYCLED (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO2 EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
PAPER	827.83	0.00	1,092.74	Perry's Recycling	Aylesford Newsprint, Kent	0.00	Reprocessed into 100% recycled paper for newsprint
MIXED PAPER AND CARDBOARD	1,733.75	0.00	2,288.55	Perry's Recycling	Paper and Board mills in China	1,733.75	Recycled into corrugated packaging or liner paper on plaster board for the building industry.
	471.04		621.77	Sevenside Recycling	Watchet Paper Mill, Somerset	0.00	Reprocessed into new cardboard
BROWN GLASS	46.22	0.00	14.79	Perry's Recycling	O-I Manufacturing UK, Harlow, Essex	0.00	Recycled into new bottles and jars.
CLEAR GLASS	98.68		31.58				Recycled into new bottles and jars.
GREEN GLASS	162.72		52.07		Recresco Ltd, Avonmouth Dock, Bristol	162.72	Sent to European markets to be recycled into new bottles and jars
MIXED CONTAINER GLASS	100.92	0.00	32.29	Burnham Waste Disposal	Recycled Glass, Highbridge	0.00	Reprocessed into new glass products
	926.99		296.64	Thamesdown Recycling	Berrymans various locations UK	0.00	Reprocessed into new bottles and jars
	1,132.04		362.25	May Gurney	O-I Manufacturing UK, Harlow, Essex		Reprocessed into new bottles and jars

CANS (TINPLATE STEEL AND ALUMINIUM)	52.59	0.00	130.00	Thamesdown Recycling	Steel cans are sent to Corus South Wales	0.00	Reprocessed into a number of materials such as car doors, fridge panels and construction steel.
					Aluminium cans are sent to Novelis. Warrington		Smelted into aluminium ingots for production of new aluminium cans
	53.20	0.00	131.51	May Gurney	AMG Limited, Llanelli, South Wales		AMG separate metals from cans. Steel is sold to Corus for a number of end uses, such as car doors, fridge panels and construction steel. Aluminium is smelted into sheets and sold to Novelis to be made into new aluminium cans. Tin is sold for high quality end use in the electronic and aerospace industries.
PLASTIC BOTTLES	601.36	0.00	902.04	Veolia Environmental Services (deliver for baling to Viridor, Priorswood, Somerset)	AWS Eco-plastics, Leicester	0.00	Plastic bottles are sorted, graded and shredded. Pellets are then sold on to manufacturers for recycling into items such as films, pipes, compost bins and fleece jackets.
					J&A Young, Leicester		Reprocessed into refuse sacks and other films
DRINKS CARTONS AND TETRA PAK	9.40	0.00	N/A*	Recresco	Paper mill in Sweden	9.40	Cartons are pulped, and then aluminium and polythene separated off. The cardboard fibre is recycled into new paper and cardboard products. The remaining mix of plastic and aluminium is used in furniture, to generate energy or separated into pure aluminium.

THIRD PARTIES	RECYCLED (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO2 EQUIVALENT)	COLLECTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
PAPER	132.21	0.00	174.52	Haselbury Plucknett Parochial Church	Martock Waste Paper, Somerset	0.00	Reprocessed into new fibres for the paper and board industry
			0.00	Field Studies Council	Severnside, Watchet Paper Mill, Somerset		Reprocessed into new cardboard
CARDBOARD	133.08	0.00	175.67	Dowlish Wake Recreation Field Committee	Martock Waste Paper, Somerset	0.00	Reprocessed into new fibres for the paper and board industry
			0.00	Donyatt Church Restoration Fund	Martock Waste Paper, Somerset		Reprocessed into new fibres for the paper and board industry
MIXED PAPER AND CARDBOARD	66.71	0.00	88.06	Seavington News	Martock Waste Paper, Somerset	0.00	Reprocessed into new fibres for the paper and board industry
			0.00	First Williton Scouts	Severnside, Watchet Paper Mill, Somerset		Reprocessed into new cardboard
MIXED CONTAINER GLASS	11.06	0.00	1.66	Yeovil Town Council	Viridor Glass, St Helens	0.00	Glass is processed and sold for manufacture of flat glass, fibreglass for insulation and for making new bottles and jars.
TEXTILES AND FOOTWEAR	35.99	618.41	11,749.79	Bag it up, Green World, Salvation Army, British Heart Foundation, European Recycling Co.		556.24	Clothing is sold to second hand clothing traders in the UK and developing countries for re-use. Around 15% of clothing collected is unwearable so is recycled into wiping cloths or similar.

FURNITURE	0.00	60.99	164.67	Furnequip (Frome and Glastonbury)	0.00	Sold on by each organisation for reuse at low prices to people in their areas on benefits or with low incomes.
		216.53	584.63	Furnicare (Chard and Yeovil)		
		87.62	236.57	Home Furniture Services Trust, Taunton		
		7.08	19.12	Engage West Somerset		
FRIDGES/ FREEZERS	0.00	0.42	3.32	Furnequip (Frome and Glastonbury)		
		1.69	13.35	Furnicare (Chard and Yeovil)		
		0.86	6.79	Home Furniture Services Trust, Taunton		
OTHER WHITE GOODS	0.00	0.18	1.42	Furnequip (Frome and Glastonbury)		
		2.59	20.46	Furnicare (Chard and Yeovil)		
		1.15	9.09	Home Furniture Services Trust, Taunton		
ELECTRICAL	0.00	0.48	3.79	Furnequip (Frome and Glastonbury)		
		3.25	25.68	Furnicare (Chard and Yeovil)		
		0.86	6.79	Home Furniture Services Trust, Taunton		
OTHER SCRAP METAL	19.28	0.00	N/A*	South Somerset Scrap metal merchant	0.00	Reprocessed into new metal items
BOOKS	0.00	20.30	N/A*	Salvation Army	0.00	Books sold in shops to fund Salvation Army's projects
		2.00	N/A*	British Heart Foundation (BHF)		Books sold in shops to fund BHF's projects

HOUSEHOLD WASTE RECYCLING CENTRES	RECYCLED (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO2 EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
PAPER	1,556.86	0.00	2,055.06	Viridor	Aylesford Newsprint, Kent.	0.00	Reprocessed into 100% recycled paper for newsprint
CARDBOARD	7,990.23	0.00	10,547.10	Viridor	Paper & board mills in China: Qingdao Yijia Huayi, Qingdao / MCC Paper Yinhe, Ningbo / Xiamen ITG Group, Haicang / Tianjin, Xingang	7,990.23	Reprocessed into new cardboard
MIXED CONTAINER GLASS	1,521.53	0.00	228.23	Viridor	Viridor Glass in St Helens for reprocessing, then passed on to glassfibre insulation industry	0.00	Reprocessed into loft insulation
CANS (TINPLATE STEEL AND ALUMINIUM) AND ALUMINIUM FOIL	100.40	0.00	248.19	Viridor	Sims Metals, South Wales	0.00	Sims sort and bale. Steel is transported to Corus for recycling, and aluminium sent to Novelis in Warrington and Alutrade in Birmingham. The recovered steel is made into a number of materials such as car doors, fridge panels, construction steel. The aluminium is smelted into ingots and made into new aluminium cans.

GARDEN WASTE	7,395.73	0.00	1,405.19	Viridor	Viridor, Priorswood, Taunton, Somerset	0.00	Composted in Windrows to produce REVIVE compost which is sold at HWRCs for domestic use and in bulk for agricultural use
	5,312.47		1,009.37	Viridor	Viridor, Dimmer, Nr Castle Cary, Somerset		
	3,109.09		590.73	Viridor	Viridor, In-Vessel Composter (IVC), Dimmer, Nr Castle Cary, Somerset		Mixed with food waste and composted in the In-Vessel Composter for agricultural use
	7,818.90		1,485.59	Viridor	Viridor, Walpole, Bridgwater, Somerset		Composted in Windrows to produce REVIVE compost which is sold at HWRCs for domestic use and in bulk for agricultural use
	5,375.23		1,021.29	Viridor	Cricket St Thomas, Somerset		Composted for agricultural use on site
	1,668.22		316.96	Viridor	Monksham Farm, Somerset		
	511.26		97.14	Viridor	Smokey Farm, Somerset		
TEXTILES AND FOOTWEAR	220.90	662.72	4,197.10	Viridor	JMP Wilcox, Birmingham	662.72	Direct re-use in developing world or shredded to be made into cotton felt/wadding/mops/dusters and industrial wiping cloths.
PLASTIC BOTTLES AND PLASTIC BAGS	843.01	0.00	1,264.52	Viridor (baled at Priorswood MRF, Somerset)	AWS Eco-plastics, Leicester	0.00	Plastic bottles are sorted, graded and shredded. Pellets are then sold on to manufacturers for recycling into items such as films, pipes, compost bins and fleece jackets.
					J&A Young, Leicester		Reprocessed into refuse sacks and other films

DRINKS CARTONS AND TETRA PAK	9.40	0.00	N/A*	Viridor	Collected by Recresco on behalf of Tetra Pak and sent to Sweden paper mill	9.40	Cartons are pulped, and then aluminium and polythene separated off. The cardboard fibre is recycled into new paper and cardboard products. The remaining mix of plastic and aluminium is used in furniture, to generate energy or separated into pure aluminium.
FRIDGES/ FREEZERS	1,133.99	0.00	N/A*	Viridor	Viridor Electrical Recycling in St Helens	0.00	Broken down into separate components for reuse in manufacturing
ELECTRICAL	3,366.75	0.00	4,511.45	Viridor	Sims Metals, South Wales	0.00	Broken down into separate components, baled and recycled
BRIC A BRAC	0.00	225.18	1,981.58	Viridor	Sent to various local outlets via collection agents at each HWRC	0.00	Sold for reuse
SPECTACLES	0.00	0.01 [†]	N/A*	Viridor	Red Cross	0.01	Cleaned, graded and exported to Africa for re-use.
TONER CARTRIDGES	0.1 [†]	N/A*	N/A*	Viridor	Recycle Now, Scotland with funds raised going to Childrens Hospice South West	0.00	Separated out into individual varieties and either re-used or deconstructed and recycled.
FLUORESCENT TUBES AND CFLS	14.00	N/A*	N/A*	Viridor	Lampcare Complete Lamp Recycling, Harlow	0.00	Lamps are deconstructed into glass, mercury, gas and metals and different components recycled.
AUTOMOTIVE AND HOUSEHOLD BATTERIES	277.88	0.00	N/A*	Viridor	Bidwell Metals Ltd, Radstock, Bath & NE Somerset	0.00	Batteries separated into different fractions, i.e. metal and plastic for reuse in manufacturing.

ENGINE OIL	298.76	0.00	567.64	Viridor	Chemical Recoveries, Avonmouth	0.00	Reprocessed into low-grade fuel oil for asphalt plants and generators.
PLATE GLASS	11.28	0.00	1.69	Viridor	Viridor Glass in St Helens for reprocessing, then passed on to glassfibre insulation industry	0.00	Reprocessed into loft insulation
SCRAP METAL	7,408.94	0.00	9,927.98	Viridor	Sims Metals, South Wales	0.00	Broken down into separate components, baled and recycled
TYRES	156.14	0.00	N/A*	Viridor	Chipped in Somerset and then sent to Plymouth for recycling	0.00	Chips are made into fine powder for reuse into new rubber products
WOOD	2,103.00	0.00	10.52	Viridor	Kronospan, Wrexham	0.00	Made into new wood panels such as MDF and chipboard
	2,103.00	0.00	399.57	Viridor	Viridor composting sites in Somerset (see above)	0.00	Clean, untreated wood is composted in Windrows to produce REVIVE compost which is sold at HWRCs for domestic use and in bulk for agricultural use
	2,804.00	0.00	0.00	Viridor	Chipped by Viridor into wood chips	0.00	Used as landfill engineering product
HARDCORE AND SOIL	23,700.00	0.00	0.00	Viridor	Reprocessed by Viridor	0.00	Used in landscaping or track construction on landfill sites
STREET SWEEPINGS (MDC & SSDC)	3,834.65	0.00	728.58	Viridor	Viridor, Dimmer, Nr Castle Cary, Somerset	0.00	Composted and used as cover over landfill

* No figures available for Carbon savings † Estimated weights

SOMERSET WASTE PARTNERSHIP	RECYCLED (TONNES)	REUSED (TONNES)	CARBON SAVED COMPARED WITH LANDFILL (TONNES CO2 EQUIVALENT)	EXPORTED (%)	EXPORTED (TONNES)	TOTAL RECYCLING AND REUSE (TONNES)
TOTALS	159,196	2,607	117,934	8%	12,457	161,803



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