

SOMERSET WASTE PARTNERSHIP - RECYCLING END-USE REGISTER 2013/14

In 2013/14 Somerset residents reused and recycled 119,775 tonnes of waste. This saved an estimated 114,915 tonnes of carbon emissions - equivalent to taking 42,561 cars off the road for a year. 96% was recycled in the UK, with only 4% sent overseas for recycling. By reusing and recycling their waste, Somerset residents avoided paying over £11 million in landfill costs.

The tables below detail the materials collected in 2013/14 by Somerset Waste Partnership services: kerbside collections, recycling sites 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 using carbon saving factors from life cycle analysis studies provided by DEFRA (<http://www.defra.gov.uk/publications/2012/05/30/pb13773-2012-ghg-conversion/>), Resource Futures (www.resourcefutures.co.uk) and WRAP (www.wrap.org.uk).

BENEFITS OF RECYCLING - Recycling reduces carbon emissions, both by saving energy in extraction and 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 it can be more economic to export some materials overseas. For example, demand to reuse clothing is much stronger in developing countries than in the UK. In 2013/14, 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 would otherwise return empty, after delivering goods manufactured in China to the UK.

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 CO ² EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
PAPER	12,982.79		16,397.27	May Gurney	Aylesford Newsprint, Aylesford, Kent	0.00	Reprocessed into 100% recycled paper for newsprint
CARDBOARD	9,301.39		11,747.65	May Gurney	D.S. Smith, Various Locations, UK	0.00	Reprocessed into new cardboard
MIXED PAPER & CARDBOARD	876.93		1,107.57	May Gurney	D.S. Smith, Watchet Paper Mill, Somerset	0.00	Reprocessed into new cardboard
BROWN GLASS	55.20		17.94	May Gurney	O-I Manufacturing UK, Harlow Essex	0.00	Reprocessed into new glass bottles and jars
	81.08		26.35	May Gurney	Reuse Glass, Yorkshire	0.00	Reprocessed into new glass bottles and jars
CLEAR GLASS	684.58		222.49	May Gurney	O-I Manufacturing UK, Harlow Essex	0.00	Reprocessed into new glass bottles and jars
	3,985.75		1,295.37	May Gurney	Reuse Glass, Yorkshire	0.00	Reprocessed into new glass bottles and jars

GREEN GLASS	1,265.26		411.21	May Gurney	Reuse Glass, Yorkshire	0.00	Reprocessed into new glass bottles and jars
	7,914.89		2,572.34	May Gurney	O-I Manufacturing UK, Harlow Essex	0.00	Reprocessed into new glass bottles and jars
STEEL CANS	1,882.46		4,653.43	May Gurney	Thamesdown Glass, Wiltshire	0.00	Steel cans are sent to Tata Steel, Port Talbot. The recovered steel is made into a number of materials such as car doors, fridge panels and construction steel
ALUMINIUM CANS	498.30		1,231.81	May Gurney	Thamesdown Glass, Wiltshire	0.00	Aluminium cans are sent to Novelis, Warrington. Aluminium is smelted into aluminium ingots for production of new aluminium cans
ALUMINIUM FOIL	3.34		8.25	May Gurney	Johnson's Metals, Bridgwater	0.00	Aluminium is bulked up and sold onto various aluminium reprocessors in the UK where it is smelted and made into new aluminium products
	17.61		43.54	May Gurney	J.C. Thomas & Sons, Glastonbury	0.00	Aluminium is bulked up and sold onto various aluminium reprocessors in the UK where it is smelted and made into new aluminium products
FOOD WASTE	4,220.41		1,413.84	May Gurney (via Viridor)	Viridor, In-Vessel Composter (IVC), Dimmer, Castle Cary, Somerset	0.00	Mixed with wood waste and composted with food waste in the In-Vessel Composter. Compost used as soil improver by local farmers
	16.62		5.57	May Gurney (via Viridor)	Andigestion, Holsworthy, Devon	0.00	Food waste digested anaerobically to produce a biofertiliser used on agricultural land and biogas used to generate electricity

FOOD WASTE contd..	8,113.41		3,407.63	May Gurney (via Viridor)	Viridor Anaerobic Digestion (AD), Walpole, Bridgwater	0.00	Food waste digested anaerobically to produce a biofertiliser used on agricultural land and biogas used to generate electricity
	474.72		199.38	May Gurney (via Viridor)	Cannington AD, Bridgwater	0.00	Food waste digested anaerobically to produce a biofertiliser used on agricultural land and biogas used to generate electricity
	2,181.36		916.17	May Gurney (via Viridor)	Langage AD, near Plymouth, Devon	0.00	Food waste digested anaerobically to produce a biofertiliser used on agricultural land and biogas used to generate electricity
	54.36		22.83	May Gurney (via Viridor)	Eco-Composting AD, Dorset	0.00	Food waste digested anaerobically to produce a biofertiliser used on agricultural land and biogas used to generate electricity
	740.76		248.16	May Gurney (via Viridor)	EcoSci IVC, near Exeter, Devon	0.00	Mixed with garden waste and composted in In-Vessel Composter. Compost used as a soil improver

GARDEN WASTE	7,272.70		1,112.72	May Gurney (via Viridor)	Viridor, Dimmer, Castle Cary, Somerset	0.00	Composted in Windrows to produce REVIVE compost which is sold at recycling centres for domestic use and in bulk for agricultural use
	915.34		140.05	May Gurney (via Viridor)	Viridor, Priorswood, Taunton, Somerset	0.00	Composted in Windrows to produce REVIVE compost which is sold at recycling centres for domestic use and in bulk for agricultural use
	7,547.54		1,154.77	May Gurney (via Viridor)	Viridor, Walpole, Bridgwater, Somerset	0.00	Composted in Windrows to produce REVIVE compost which is sold at recycling centres for domestic use and in bulk for agricultural use
TEXTILES & FOOTWEAR		456.55	8,674.50	May Gurney	BCR Global Textiles Ltd, West Bromwich	342.41	Direct re-use in developing countries or shredded to be made into cotton felt / wadding / mops / dusters and industrial wiping cloths
PLASTIC BOTTLES	732.35		1,127.82	May Gurney	J&A Young, Northamptonshire	0.00	Plastic bottles are sorted, graded and shredded. Pellets are then sold on to manufacturers for recycling into items such as plastic food packaging, plastic strapping, films, pipes, compost bins and fleece jackets
	2,147.12		3,306.56	May Gurney	Roydon Polythene (Exports) Ltd Rochdale, Lancashire	0.00	Plastic bottles are sorted, graded and shredded. Pellets are then sold on to manufacturers for recycling into items such as plastic food packaging, plastic strapping, films, pipes, compost bins and fleece jackets

PLASTIC BAGS	3.92		4.06	May Gurney	Perry's Recycling, Marston Magna	3.92	Reprocessed into refuse sacks and other films
	29.68		30.72	May Gurney	Roydon Polythene (Exports) Ltd Rochdale, Lancashire	29.68	Reprocessed into refuse sacks and other films
	28.76		29.77	May Gurney	Viridor Resource Management, Kent, then sent to Hong Kong for reprocessing	28.76	Reprocessed into refuse sacks and other films
AUTOMOTIVE BATTERIES	17.27		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
	6.43		N/A*	May Gurney	A.B. Metals, Taunton	0.00	Batteries separated into different fractions, i.e. metal and plastic for reuse in manufacturing

BRING BANKS	RECYCLED (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO2 EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
MIXED PAPER & CARDBOARD	60.27		76.12	DS Smith, (For Tesco)	D.S. Smith, Various Locations, UK	0.00	Reprocessed into new cardboard
	283.32		357.83	DS Smith, (SDC)	D.S. Smith, Various Locations, UK	0.00	Reprocessed into new cardboard
BROWN GLASS	1.58		0.51	Perry's Recycling	O-I Manufacturing UK, Harlow, Essex	0.00	Reprocessed into new glass bottles and jars
CLEAR GLASS	5.30		1.72	Perry's Recycling	O-I Manufacturing UK, Harlow, Essex	0.00	Reprocessed into new glass bottles and jars
	83.02		26.98	DS Smith, (For SDC)	Recresco Ltd, Avonmouth Dock, Bristol	0.00	Reprocessed into new glass bottles and jars
GREEN GLASS	8.26		2.68	Perry's Recycling	Recresco Ltd, Avonmouth Dock, Bristol	8.26	Sent to European markets to be reprocessed into new glass bottles and jars
MIXED CONTAINER GLASS	194.13		1.55	DS Smith, (For SDC)	Recresco Ltd, Avonmouth Dock, Bristol	194.13	Sent to European markets to be reprocessed into new glass bottles and jars

MIXED CANS	9.17		22.68	DS Smith, (For Tesco)	D.S. Smith, Various Locations, UK	0.00	The recovered steel is made into a number of materials such as car doors, fridge panels and construction steel. Aluminium is smelted into aluminium ingots for production of new aluminium cans
	21.75		53.77	DS Smith, (For SDC)	D.S. Smith, Various Locations, UK	0.00	The recovered steel is made into a number of materials such as car doors, fridge panels and construction steel. Aluminium is smelted into aluminium ingots for production of new aluminium cans
PLASTIC BOTTLES	7.28		11.21	DS Smith, (For Tesco)	J&A Young, Northamptonshire	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
	23.34		35.94	DS Smith, (For SDC)	Roydon Polythene (Exports) Ltd Rochdale, Lancashire	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
DRINKS CARTONS & TETRA PAK	5.06		0.91	Recresco	Paper mill in Sweden	5.06	Cartons are pulped, and then aluminium and polythene separated off. The paperboard 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	6.05		7.64	East Coker Scout Group	Dorchester Waste Paper, Dorset	0.00	Reprocessed into new fibres for the paper and board industry
MIXED PAPER & CARDBOARD	25.58		32.31	Donyatt Church Restoration Fund	Martock Waste Paper, Somerset	0.00	Reprocessed into new fibres for the paper and board industry
	24.11		30.45	Dowlish Wake Recreation Field Committee	Martock Waste Paper, Somerset	0.00	Reprocessed into new fibres for the paper and board industry
	28.50		36.00	Seavington News	Martock Waste Paper, Somerset	0.00	Reprocessed into new fibres for the paper and board industry
	120.28		151.91	Gemini Carnival Club	Martock Waste Paper, Somerset	0.00	Reprocessed into new fibres for the paper and board industry
	4.16		5.25	Hinton St George Parochial Church Council	Martock Waste Paper, Somerset	0.00	Reprocessed into new fibres for the paper and board industry
	5.94		7.50	East Coker Scout Group	Dorchester Waste Paper, Dorset	0.00	Reprocessed into new fibres for the paper and board industry

MIXED CONTAINER GLASS	1.74		0.01	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 glass bottles and jars
TEXTILES & FOOTWEAR		414.12	7,868.28	Bag it up, Planet Aid, Salvation Army, British Heart Foundation, European Recycling Co., TR Aid		352.00	Clothing sold to second hand clothing traders in the UK and developing countries for re-use. Around 15% is not reusable and so recycled into wiping cloths or similar
FURNITURE & BRIC A-BRAC		0.90	2.43	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
		18.72	50.54	Twice as Nice (Shepton Mallet)		0.00	Sold on by each organisation for reuse at low prices to people in their areas on benefits or with low incomes
		58.14	156.98	Sedgemoor Furniture Store (Bridgwater)		0.00	Sold on by each organisation for reuse at low prices to people in their areas on benefits or with low incomes
		74.44	200.99	Furnicare (Chard and Yeovil)		0.00	Sold on by each organisation for reuse at low prices to people in their areas on benefits or with low incomes
		44.26	119.50	Home Furniture Services Trust (Taunton)		0.00	Sold on by each organisation for reuse at low prices to people in their areas on benefits or with low incomes
		18.57	50.14	Engage West Somerset (Minehead)		0.00	Sold on by each organisation for reuse at low prices to people in their areas on benefits or with low incomes

BOOKS		2.27	N/A*	British Heart Foundation (BHF)		0.00	Books sold in shops to fund BHF's projects
RECYCLING SITES	RECYCLED (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO2 EQUIVALENT)	COLLECTION CONTRACTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
PAPER	529.98		669.36	Viridor	Aylesford Newsprint, Kent	0.00	Reprocessed into 100% recycled paper for newsprint
CARDBOARD	245.78		310.42	Viridor	Viridor, Kent	0.00	Reprocessed into new cardboard
	263.18		332.40	Viridor	D.S. Smith, Watchet Paper Mill, Somerset	0.00	Reprocessed into new cardboard
	885.77		1,118.73	Viridor	Various reprocessors, China	885.77	Reprocessed into new cardboard
	2,000.01		2,526.01	Viridor	Mark Lyndon Paper Enterprises Ltd, Nottingham - Exported to board mills in China	2,000.01	Reprocessed into new cardboard

MIXED CONTAINER GLASS	69.03		87.18	Viridor	Glass Recycling UK Ltd, South Yorkshire	0.00	Reprocessed into new glass bottles and jars
	41.54		52.47	Viridor	Sheffield Glass, South Yorkshire	0.00	Reprocessed into new glass bottles and jars
	196.36		248.01	Viridor	Sheffield Recycling Services Ltd. South Yorkshire	0.00	Reprocessed into new glass bottles and jars
	48.10		60.75	Viridor	Silica Developments Ltd, Brighton, East Sussex	0.00	Reprocessed into concrete blocks or sold on into the aggregate market
	264.05		21.12	Viridor	Viridor Glass, St Helens for reprocessing, then to glassfibre insulation industry	0.00	Reprocessed into loft insulation
CANS (TINPLATE STEEL & ALUMINIUM)	1.08		2.67	Viridor	Viridor Resource Management, Kent,	0.00	The recovered steel is made into a number of materials such as car doors, fridge panels and construction steel
	3.56		8.80	Viridor	Aleris Recycling, Swansea	0.00	Aluminium is smelted into aluminium ingots for production of new aluminium cans

GARDEN WASTE	7,081.56		1,083.48	Viridor	Viridor, Priorswood, Taunton, Somerset	0.00	Composted in Windrows to produce REVIVE compost which is sold at recycling centres for domestic use and in bulk for agricultural use
	6,486.98		992.51	Viridor	Viridor, Dimmer, Castle Cary, Somerset	0.00	Composted in Windrows to produce REVIVE compost which is sold at recycling centres for domestic use and in bulk for agricultural use
	8,693.34		1,330.08	Viridor	Viridor, Walpole, Bridgwater, Somerset	0.00	Composted in Windrows to produce REVIVE compost which is sold at recycling centres for domestic use and in bulk for agricultural use
	1,300.83		199.03	Viridor	Monksham Farm, Somerset	0.00	Composted for agricultural use on site
TEXTILES		703.58	13,368.02	Viridor	JMP Wilcox, Birmingham	527.69	Direct re-use in developing world or shredded to be made into cotton felt / wadding / mops / dusters and industrial wiping cloths
SHOES		52.54	N/A*	Viridor	European Recycling Company, Croydon	52.54	The shoes are sent to developing nations to be refurbished and reused

PLASTIC BOTTLES	8.56		13.18	Viridor	Viridor Kent	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
	10.38		15.99	Viridor	AWS Eco Plastics Ltd, Lincolnshire	0.00	Plastic bottles are sorted, graded and shredded. Pellets are then sold on to manufacturers for recycling into items such as plastic bottles, or other food packaging
	19.04		29.32	Viridor	Wai Sang (Europe) Recycle Ltd, Manchester - Exported to China	19.04	Plastic bottles are exported to China for reprocessing into various items
	72.27		111.30	Viridor	Roydon Polythene (Exports) Ltd Rochdale, Lancashire	0.00	Plastic bottles are sorted, graded and shredded. Pellets are then sold on to manufacturers for recycling into items such as pipes, plastic bottles or other food packaging
DRINKS CARTONS & TETRA PAK	33.95		6.11	Viridor	Collected by Recresco on behalf of Tetra Pak and sent to paper mill in Sweden	33.95	Cartons are pulped, and then aluminium and polythene separated off. The paperboard 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	770.32		N/A*	Viridor	Electrical Recycling, St Helens	0.00	Broken down into separate components for reuse in manufacturing. CFCs extracted for safe disposal

ELECTRICAL	835.63		1,119.74	Viridor	Sims Metals, Taunton	0.00	Broken down into separate components, baled and recycled
	975.36		1,306.98	Viridor	Sims Metals, South Wales	0.00	Broken down into separate components, baled and recycled
	5.24		7.02	Viridor	E.B. Janes, Tiverton	0.00	Broken down into separate components, baled and recycled
	1,036.72		1,389.20	Viridor	J.C. Thomas & Sons, Glastonbury, Somerset	0.00	Broken down into separate components, baled and recycled
BRIC-A-BRAC		332.71	2,927.85	Viridor	Sent to various local outlets via collection agents at each recycling centre	0.00	Sold for reuse
HOUSEHOLD BATTERIES	13.60		N/A*	Viridor	G&P Batteries, Darlaston, West Midlands	0.00	Batteries separated into different fractions, i.e. metal and plastic for reuse in manufacturing
AUTOMOTIVE BATTERIES	85.01		N/A*	Viridor	J.C. Thomas & Sons, Glastonbury, Somerset	0.00	Batteries separated into different fractions, i.e. metal and plastic for reuse in manufacturing

COOKING OIL	11.10		N/A*	Viridor	Living Fuels, Norfolk	0.00	Turned into Biofuel to generate electricity and heat
ENGINE OIL	31.50		59.85	Viridor	Augean Plc, Avonmouth	0.00	Oils are recovered and blended for use as an alternative fuel
PLATE GLASS	218.53		32.78	Viridor	Viridor Glass, St Helens for reprocessing, then to insulation industry	0.00	Reprocessed into glassfibre loft insulation
	26.52		3.98	Viridor	Peterborough Glass, Peterborough	0.00	Reprocessed into glassfibre loft insulation
SCRAP METAL	513.97		688.72	Viridor	Sims Metals, Taunton	0.00	Broken down into separate components, baled and recycled
	56.36		75.52	Viridor	J.W. Ransome & Sons, Frome	0.00	Broken down into separate components, baled and recycled
	468.47		627.75	Viridor	E.B. Janes, Tiverton	0.00	Broken down into separate components, baled and recycled
	4,346.93		5,824.89	Viridor	J.C. Thomas & Sons, Glastonbury, Somerset	0.00	Broken down into separate components, baled and recycled

**WOOD (CLEAN &
LOW GRADE
TIMBER)**

884.06		1,087.39	Viridor	Kronospan, Wrexham	0.00	The wood is chipped and made into chipboard products
672.76		102.93	Viridor	Whitemoss Horticulture Ltd, Kirkby, Liverpool	0.00	Wood is mixed with garden waste and composted
10.31		N/A*	Viridor	Longman Wood Recycling, Shepton Mallet, Somerset	0.00	Wood is chipped and made into chipboard, animal bedding and sold for biomass fuel.
188.29		N/A*	Viridor	UK Wood Recycling Ltd, Middlesbrough	0.00	Wood is chipped and made into chipboard, animal bedding and sold for biomass fuel.
1,250.89		191.39	Viridor	Viridor, Dimmer, Castle Cary, Somerset	0.00	Wood is mixed with food waste and composted
1,255.46		192.09	Viridor	South Wales Wood Recycling Ltd, Bridgend, South Wales	0.00	The wood is chipped and made into chipboard products
636.06		97.32	Viridor	Wood Yew Waste Ltd, Exeter, Devon	0.00	Wood is used as a bio fuel for energy generation **
962.21		1,183.52	Viridor	South Wales Wood Recycling Ltd, Bridgend, South Wales	0.00	Wood is used as a bio fuel for energy generation **

WOOD (CLEAN & LOW GRADE TIMBER) contd...	229.42		282.19	Viridor	South West Wood Products Ltd. Meare, Glastonbury	0.00	Wood is used as a bio fuel for energy generation **
	3,484.04		4,285.37	Viridor	UK Wood Recycling Ltd, Middlesbrough	0.00	Wood is used as a bio fuel for energy generation **
PLASTERBOARD	169.04		N/A*	Viridor	Boomeco, Avonmouth, Bristol	0.00	Processed to separate the gypsum and paper. Gypsum is reprocessed into new plasterboard and paper is reprocessed into a variety of new paper materials
	333.79		N/A*	Viridor	Mid UK Recycling Ltd, Lincolnshire	0.00	Processed to separate the gypsum and paper. Gypsum is reprocessed into new plasterboard and paper is reprocessed into a variety of new paper materials
	211.57		N/A*	Viridor	Wood Yew Waste Ltd, Exeter, Devon	0.00	Processed to separate the gypsum and paper. Gypsum is reprocessed into new plasterboard and paper is reprocessed into a variety of new paper materials.

* No figures available for Carbon savings

** Not counted as recycling for National Indicators and excluded from recycled totals

SOMERSET WASTE PARTNERSHIP	RECYCLED (TONNES)	REUSED (TONNES)	RECOVERED (TONNES)**	CARBON SAVED COMPARED WITH LANDFILL (TONNES CO2 EQUIVALENT)	EXPORTED (%)	EXPORTED (TONNES)	TOTAL RECYCLING AND REUSE (TONNES)
TOTALS	117,598	2,177	5,312	114,915	4%	4,483	119,775
TOTAL LANDFILL COSTS AVOIDED				Over £11 million			



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