

SOMERSET WASTE PARTNERSHIP - RECYCLING END-USE REGISTER 2016/17

In 2016/17 Somerset residents reused and recycled 128,154 tonnes of waste. This saved an estimated 122,638 tonnes of carbon emissions. 96% was recycled in the UK, with only 4% sent overseas for recycling. By reusing and recycling their waste, Somerset residents avoided paying over £13.5 million in landfill costs.

The tables below detail the materials collected in 2016/17 by Somerset Waste Partnership's kerbside collections and recycling sites, 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 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).

ENVIRONMENTAL 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.

DISPOSAL - Currently the majority of waste for disposal is sent to landfill at Broadpath, Dimmer and Walpole landfill sites. Rubbish sent to landfill sites costs Somerset tax payers over £12.5m every year, much of which could be saved by recycling.

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 2016/17, some of our paper, cardboard, cans and plastic bottles were exported for recycling. 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 overseas. The situation is further improved as the container ships used would otherwise return empty, after delivering goods manufactured in countries such as 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 AND RECYCLING CENTRES	RECYCLED (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO ² EQUIVALENT)	SOURCE	REPROCESSOR	EXPORTED (TONNES)	END USE
PAPER	5,933.97		7,494.60	Kerbside collections and recycling centres	Palm Paper, Kings Lynn, Norfolk	0.00	Reprocessed into 100% recycled paper for newsprint
	4,546.12		5,741.75	Kerbside collections	UPM, Shotton, UK	0.00	Reprocessed into new paper and board products
	281.78		355.89	Kerbside collections and recycling centres	Various reproprocessors, UK	0.00	
	12.17		15.37	Recycling centres	Paper and board mills in France	12.17	
	155.68		196.62	Recycling centres	Paper and board mills in China	155.68	
CARDBOARD	7,756.17		9,796.04	Kerbside collections	D.S. Smith, Various Locations, UK	0.00	Reprocessed into new paper and board products
	6,640.03		8,386.36	Kerbside collections and recycling centres	Various reproprocessors, China	2,871.82	
	538.95		680.69	Kerbside collections	Lovell Recycling Ltd, Shropshire	0.00	
	347.37		438.73	Kerbside collections and recycling centres	Various reproprocessors, UK	0.00	
	3.64		4.60	Kerbside collections	Reprocessor in India	3.64	
GLASS BOTTLES AND JARS	14,472.81		4,703.66	Kerbside collections	Recresco Ltd, Various locations, UK	0.00	Reprocessed into new glass bottles and jars
	577.54		187.70	Recycling centres	Viridor Ltd, Sheffield	0.00	
	70.20		22.82	Recycling centres	Beatson Clark, Yorkshire	0.00	
	44.07		14.32	Recycling centres	Glass Recycling (UK) Ltd, South Yorkshire	0.00	
	11.18		3.63	Recycling centres	Perry's Recycling, Marston Magna	0.00	

CANS AND FOIL	1,397.24		3,453.98	Kerbside collections	Morris & Co Ltd, South Yorkshire	0.00	Cans are baled and sold to reprocessors. 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 products
	375.78		928.93	Kerbside collections	Novelis UK, Cheshire	0.00	
	289.66		716.04	Kerbside collections and recycling centres	Various reprocessors, UK	0.00	
	43.32		107.09	Kerbside collections	Reprocessor in Netherlands	43.32	
	5.19		12.83	Kerbside collections	Reprocessor in Belgium	5.19	
OTHER SCRAP METAL (WHEELED BINS)	4.14		5.55	Kerbside collections	Johnson's Metals, Bridgwater	0.00	Broken down into separate components, baled and recycled
FOOD WASTE	11,530.31		4,842.73	Kerbside collections	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
	6,408.75		2,691.68	Kerbside collections	Cannington AD, Bridgwater	0.00	
GARDEN WASTE	19,118.93		2,925.20	Kerbside collections and recycling centres	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
	15,832.50		2,422.37	Kerbside collections and recycling centres	Viridor, Dimmer, Castle Cary, Somerset	0.00	
	7,536.02		1,153.01	Kerbside collections and recycling centres	Viridor, Priorswood, Taunton, Somerset	0.00	
	1,686.30		258.00	Recycling centres	Monksham Farm, Somerset	0.00	Composted for agricultural use on site
TEXTILES & SHOES		1,222.51	23,227.69	Kerbside collections and recycling centres	JMP Wilcox & Co Bilston, West Midlands	916.88	Direct re-use in developing countries or shredded to be made into cotton felt / wadding / mops / dusters and industrial wiping cloths
SHOES		45.38	N/A*	Recycling centres	European Recycling Company, Croydon	34.04	The shoes are sent to developing nations to be refurbished and reused
PLASTIC BOTTLES	1,642.12		2,528.86	Kerbside collections	Roydon Group PLC, Swinton, Manchester	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
	686.82		1,057.70	Kerbside collections	Lovell Recycling Ltd, Shropshire	0.00	
	601.28		925.97	Kerbside collections	J&A Young, Leicester	0.00	
	487.43		750.64	Kerbside collections and recycling centres	Various reprocessors, UK	0.00	
	5.08		7.82	Kerbside collections	Export to Netherlands	5.08	
	9.77		15.05	Kerbside collections	Export to China	9.77	
	7.45		11.47	Kerbside collections	Export to Indonesia	7.45	
DRINKS CARTONS & TETRA PAK	23.30		4.19	Recycling centres	Sonoco Recycling, West Yorkshire	0.00	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
AUTOMOTIVE BATTERIES	24.04		N/A*	Kerbside collections	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
	3.56			Kerbside collections	A B Metals Ltd, Taunton	0.00	
	121.82			Recycling centres	J.C. Thomas & Sons, Glastonbury, Somerset	0.00	

FRIDGES / FREEZERS	982.71		N/A*	Recycling centres	Electrical Recycling, St Helens	0.00	Broken down into separate components for reuse in manufacturing. CFCs extracted for safe disposal
ELECTRICAL	1,344.23		1,801.27	Recycling centres	Sims Metals, Taunton	0.00	Broken down into separate components, baled and recycled
	1,255.82		1,682.80		J.C. Thomas & Sons, Glastonbury, Somerset	0.00	
	150.65		201.87		MDJ Light Bros (SP) Ltd, Lewes, East Sussex	0.00	
	37.42		50.14		G H Newbery & Son Ltd - Exeter, Devon	0.00	
	615.99		825.43		Viridor St Helens, Merseyside	0.00	
BRIC-A-BRAC		422.61	3,718.97	Recycling centres	Sent to various local outlets via collection agents at each recycling centre	0.00	Sold for reuse
HOUSEHOLD BATTERIES	9.10		N/A*	Recycling centres	G&P Batteries, Darlaston, West Midlands	0.00	Batteries separated into different fractions, i.e. metal and plastic for reuse in manufacturing
COOKING OIL	8.91		N/A*	Recycling centres	Living Fuels, Norfolk	0.00	Turned into biofuel to generate electricity and heat
ENGINE OIL	36.00		68.41	Recycling centres	Yellowstone Environmental Solutions Ltd, Dorset	0.00	Oils are recovered and blended for use as an alternative fuel
PAINT	47.19		N/A*	Recycling centres	Paint 360 - Dudley, West Midlands	0.00	Recycled into new paint products
SCRAP METAL	4,453.44		5,967.61	Viridor	J.C. Thomas & Sons, Glastonbury, Somerset	0.00	Broken down into separate components, baled and recycled
	496.56		665.39	Viridor	Sims Metals, Taunton	0.00	
	268.42		359.68	Viridor	G H Newbery & Son Ltd, Exeter	0.00	
	18.02		24.15	Viridor	E B James, Tiverton	0.00	
WOOD	5,427.45		6,675.76	Viridor	Nigel Dunn Forest Products, Trull, Somerset	0.00	The wood is chipped and made into a range of products including animal bedding, equestrian surfaces and biofuel.
	296.85		365.13	Viridor	Wood Yew Waste Ltd, Exeter, Devon	0.00	
	418.28		514.48	Viridor	South West Wood Products Ltd, Glastonbury	0.00	
	4,134.29		632.55		Nigel Dunn Forest Products, Trull, Somerset		Wood is used as a bio fuel for energy generation **
	409.44		62.64	Viridor	Wood Yew Waste Ltd, Exeter, Devon	0.00	
PLASTER BOARD	104.01		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
	126.69		N/A*	Viridor	Mid UK Recycling Ltd, Lincolnshire	0.00	

THIRD PARTIES	RECYCLED (TONNES)	REUSED (TONNES)	CARBON SAVED (TONNES CO2 EQUIVALENT)	COLLECTOR	REPROCESSOR	EXPORTED (TONNES)	END USE
PAPER	21.23		26.81	East Coker Scout Group	Dorchester Waste Paper, Dorset	0.00	Reprocessed into new fibres for the paper and board industry
MIXED PAPER & CARDBOARD	194.91		246.17	Third party recyclers in South Somerset	Martock Waste Paper, Somerset	0.00	Reprocessed into new fibres for the paper and board industry
MIXED CONTAINER GLASS	7.96		0.06	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		626.21	11,897.99	Bag it up, Planet Aid, Salvation Army, British Heart Foundation, European Recycling Co		532.28	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		282.06	761.56	Furnequip (Glastonbury), Sedgemoor Furniture Store (Bridgwater, Furnicare (Yeovil), Furnitrust (Taunton), 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		0.98	N/A*	British Heart Foundation (BHF)		0.00	Books sold in shops to fund BHF's projects

* 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	125,554	2,600	4,544	122,638	4%	4,597	128,154
TOTAL LANDFILL COSTS AVOIDED				Over £13.5 million			



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