SOMERSET WASTE PARTNERSHIP - RECYCLING END-USE REGISTER 2018/19

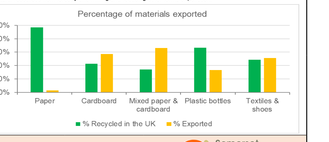
In 2018/19 Somerset residents reused and recycled 133,734.78 tonnes of waste. 91% was recycled in the UK, with only 9% sent overseas for recycling. By reusing and recycling their waste, Somerset residents avoided paying over £15 million in landfill costs. The amount of CO2eq saved by recycling is equal to removing approximately 25,837 cars off the road for a year.

The tables below detail the materials collected in 2018/19 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. Carbon savings and impacts have been calculated using Zero Waste Scotland's Carbon Metric (2016 factors) https://www.zerowastescotland.org.uk/content/scotland%E2%80%99s-carbon-metric-impact. The carbon impact of the household waste in Somerset gives each person a waste carbon footprint of approximately of 1 tonne CO2eq

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 Dimmer, Walpole and Broadpath landfill sites. Rubbish sent to landfill sites costs Somerset tax payers over £15m every year, much of which could be saved by recycling. Waste composition analysis conducted by SWP in 2018 indicates that approximately 50% of the contents of the refuse bin could be recycled using the existing kerbside recycling services.

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 2018/19, some of our paper, cardboard 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, Somerset West and Taunton Council.

SOMERSET WASTE PARTNERSHIP	RECYCLED (TONNES)	REUSED (TONNES)	RECOVERED (TONNES)**	EXPORTED (%)	EXPORTED (TONNES)	TOTAL RECYCLING AND REUSE (TONNES)	CARBON SAVED BY RECYCLING (TONNES CO2 EQUIVALENT)	SWP WASTE CARBON FOOTPRINT (TONNES CO2 EQUIVALENT)	SWP WASTE CARBON FOOTPRINT PER PERSON (TONNES CO2 EQUIVALENT)
TOTALS	130,804.30	2,929.39	4,858.45	8.45%	11,301.91	133,733.69	-65,275	574,971	1.04

TOTAL LANDFILL COSTS AVOIDED	REFUSE FOR DISPOSAL (KG PER HOUSEHOLD)	RECYCLING & REUSE (KG PER HOUSEHOLD)	TOTAL WASTE ARISINGS (KG PER HOUSEHOLD)	SWP Recycling Rate
Over £15 million	470.31	491.27	961.58	52.41%

N/A - No figures available for Carbon savings ** Not counted as recycling for National Indicators and excluded from recycled totals *** "Site details unknown" used when material has been sent to an external MRF and no end destination is available.

MATERIAL	SOURCE	TONNAGE	EXPORTED (TONNES)	WHERE DID IT GO?	WHAT HAPPENED TO IT?	CARBON SAVED (TONNES CO2 EQUIVALENT)
PAPER	Kerbside Recycling and Schools (Kier)	7,381.96	0.00	UPM Shotton, Deeside	Reprocessed into 100% recycled paper for newsprint	-5,443.77
		1,835.44	0.00	Palm Paper, Norfolk		
		136.63	0.00	DS Smith, Kent	Reprocessed into new paper and cardboard products.	
		94.02	0.00	DS Smith, Bristol		
	Recycling Centres (Viridor)	97.73	97.73	Viridor - Export via Recovered Paper Management Ltd to Trapp Handelsgesellschaft GmbH, Germany		
		182.43	182.43	Viridor - Export via Recovered Paper Management Ltd to Trapp Handelsgesellschaft GmbH, Germany		
		9.61	9.61	Viridor - Export to PT Mekabox International, Indonesia		
		104.58	0.00	DS Smith, Kent		
		107.82	0.00	DS Smith, Bristol		
	East Coker Scout Group (Third Parties)	9.17	0.00	Dorchester Waste Paper, Dorset		
CARDBOARD	Kerbside Recycling and Schools (Kier)	683.22	0.00	Sitesery Recycling, Vale of Glamorgan	Reprocessed into new cardboard products.	-6,126.48
		555.12	555.12	Hamburger Rieger Gebsenkirchen GmbH & Co. KG - Germany		
		121.10	121.10	Kingele Papierwerke GmbH & Co. KG - Germany		
		46.98	46.98	Leipe Georg Leinfelder GmbH - Germany		
		23.80	23.80	Papierfabrik Niederauer Muhle - Germany		
		45.52	45.52	RDM Blendecques - France		
		25.20	25.20	Schoellershammer GmbH & Co. KG - Germany		
		27.16	27.16	Smurfit Kappa - Netherlands		
		193.20	193.20	Solidus Solutions - Netherlands		
		2,914.36	2,914.36	Trapp Handelsgesellschaft GmbH - Germany		
		1,126.28	1,126.28	VG Recycling - Netherlands		
		131.22	131.22	Dhruv Craft Mill Pvt Ltd - India		
		262.94	262.94	Hariprut Paper Company - India		
		52.00	52.00	M/S Krishna Tissues Pvt Ltd - India		
		130.10	130.10	M/S Ramaa Shyama Papers - India		
		180.82	180.82	M/S Such Pkage Mills Ltd - India		
		50.40	50.40	Orazone Paper Ltd - India		
		52.32	52.32	Parawara Papers Ltd - India		
		77.32	77.32	PT Sinar Indah Paper - Indonesia		
		386.80	386.80	PT Surabaya Mekabox - Indonesia		
		701.46	0.00	Edwards Waste Paper, Essex		
		24.26	0.00	Thamesdown Recycling, Wiltshire		
		2,872.69	0.00	DS Smith, Kent		
		27.50	0.00	Preston Board and Packaging, Cheshire		
		496.64	0.00	Smurfit Kappa, Kent		
MIXED PAPER AND CARDBOARD	Recycling Centres (Viridor)	156.89	156.89	Viridor - Export to Chen Tsun Paper Mill Industrial Co, Ltd, Taiwan	Reprocessed into new paper and cardboard products.	-1,410.75
		55.99	55.99	Viridor - Export to Cheng Loong Corporation - Taiwan		
		70.13	70.13	Viridor - Export to Hangzhou Fuyang Xinyuan Paper Co Ltd - China		
		71.38	71.38	Viridor - Export to Hangzhou Sanxin Paper Co Ltd - China		
		46.04	46.04	Viridor - Export to Jiangmen Xinghui Paper Mill Co Ltd - China		
		68.79	68.79	Viridor - Export to PT Indah Kiat Pulp And Paper TBK - Indonesia		
		513.17	513.17	Viridor - Export to PT Pakerin - Indonesia		
		127.08	127.08	Viridor - Export to Chadha Papers Ltd - India		
		184.52	184.52	Viridor - Export via Jordan Trading Inc to Sharying International Holdings Co., Ltd - China		
		40.79	40.79	Viridor - Export via Jordan Trading Inc to Siam Kraft Industry Co. Ltd., Bangkok - Thailand		
		303.29	303.29	Viridor - Export via Mark Lyton Paper Enterprises Ltd to Guangdong Lee & Man Paper mfg. Ltd - China		
		372.75	372.75	Viridor - Export via Mark Lyton Paper Enterprises Ltd to Jiangsu Lee & Man Paper mfg Co. Ltd - China		
		108.15	108.15	Viridor - Export to Balkrishna Paper Mills Ltd - India		
		182.67	182.67	Viridor - Export via Recovered Paper Management to Siam Kraft - Ratchaburi - Thailand		
		6.06	6.06	Viridor - Export via Recovered Paper Management to Elite Kraft Paper Co., Ltd - Thailand		
		20.31	20.31	Viridor - Export via VG Recycling Group Ltd to M/S Orazone Paper PVT Ltd - India		
		7.11	7.11	Viridor - Export via VG Recycling Group Ltd to Gayatri Shakti Paper & Board Mills - India		
		1,027.23	0.00	Smurfit Kappa, Devon		
		118.17	0.00	DS Smith, Bristol		
		270.25	0.00	DS Smith, Kent		
	Third Party Recyclers	164.97	0.00	Martock Waste Paper, Somerset		
GLASS BOTTLES AND JARS	Kerbside Recycling and Schools (Kier)	15,490.85	0.00	Recresco Ltd, South Wales	Sorted and crushed for use in remelt applications such as new glass bottles and jars and fibreglass.	-12,237.01
		1.28	0.00	Viridor Ltd, Sheffield		
	Recycling Centres (Viridor)	716.63	0.00	Viridor Ltd, Sheffield		
STEEL AND ALUMINIUM CANS AND FOIL	Kerbside Recycling and Schools (Kier)	1,433.83	0.00	Morris & Co Ltd, West Yorkshire	Cans are sorted, 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	-5,262.22
		538.46	0.00	Novelis UK, Cheshire	Aluminium cans are smelted into sheet aluminium ready for use in new cans.	
		52.95	0.00	Ward Brothers (Steel) Ltd, County Durham	Cans are sorted, 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	
		14.78	0.00	ASM Metal Recycling Ltd, Buckinghamshire		
		1.38	0.00	Site details unknown***		
		21.85	0.00	Enablelink Ltd, West Midlands		
	Recycling Centres (Viridor)	5.86	0.00	ASM Metal Recycling Ltd, Buckinghamshire		
PLASTIC BOTTLES	Kerbside Recycling and Schools (Kier)	4.88	0.00	Lovell Recycling Ltd, Shropshire	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	-1,751.77
		81.18	0.00	Sitesery Recycling, Vale of Glamorgan		
		30.11	0.00	Monoworld Recycling, Northamptonshire		
		524.84	0.00	Roydon Group PLC, Manchester		
		223.80	0.00	J&A Young, Leicester		
		11.63	0.00	Rochester Plastics Recovery Facility, Kent		
		16.92	16.92	Tenarry Slovakia s.r.o. - Slovakia		
		15.02	15.02	Vanheede Environmental Logistics - Belgium		
		15.78	15.78	Beraf PET Geri Donusebilen Mad. Am Nak. - Turkey		
		232.26	232.26	Korfez Cam Kirigi - Turkey		
		34.48	34.48	Infinity Recycling Sdn Bhd - Malaysia		
		175.30	0.00	Rainham Plastics Recovery Facility, Kent		
		101.33	0.00	Site details unknown***		
		126.58	0.00	Biffa Polymers, Cleveland		
		73.56	0.00	Clean Tech Europe Ltd, Lincolnshire		
		229.84	0.00	Berry Recycling, Droitwich		
		582.37	0.00	Plastcity Worldwide Ltd, Staffordshire		
		769.19	769.19	PT Harvestindo International - Indonesia		
PLASTIC BOTTLES AND PLASTIC POTS, TUBS AND TRAYS	Recycling Centres (Viridor)	193.88	0.00	Rochester Plastic Recovery Facility, Kent	Plastic bottles and pots, tubs and trays are sorted into different polymer types. The different types are shredded and sold on to manufacturers for recycling into new plastic items.	-104.53
DRINKS CARTONS & TETRA PAK	Recycling Centres (Viridor)	35.39	0.00	Sonoco Recycling, West Yorkshire	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	-19.34
FOOD WASTE	Kerbside Recycling and Schools (Kier)	16,109.14	0.00	Viridor Anaerobic Digestion (AD), Walpole, Bridgwater	Food waste digested anaerobically to produce a biofertiliser used on agricultural land and biogas used to generate electricity	-377.68
		1,875.44	0.00	Swang Farm AD, Bridgwater		
GARDEN WASTE	Kerbside Recycling and Schools (Kier)	8,324.48	0.00	Viridor, Walpole, Bridgwater, Somerset	Composted in Windrows to produce REVIVE compost which is sold at recycling centres for domestic use and in bulk for agricultural use	-2,249.73
		9,112.14	0.00	Viridor, Dimmer, Castle Cary, Somerset		
		1,227.00	0.00	Viridor, Priorswood, Taunton, Somerset		
	Recycling Centres (Viridor)	10,173.83	0.00	Viridor, Walpole, Bridgwater, Somerset		
		6,067.01	0.00	Viridor, Dimmer, Castle Cary, Somerset		
		5,690.22	0.00	Viridor, Priorswood, Taunton, Somerset		
		1,800.71	0.00	Monkspham Farm, Somerset	Composted for agricultural use on site	
TEXTILES & SHOES	Kerbside Recycling and Schools (Kier)	317.40	158.70	JMP Wilcox & Co West Midlands	Clothing is sorted and graded. Good condition is sent for reuse in developing countries (approx 50%). Non-reusable clothing and textiles (approx 50%) are shredded to be made into cotton fellwadding/mops/cluisters and industrial wiping cloths. The shoes are sent to developing nations to be refurbished and reused	-13,571.34
	Third Party Recycling Banks	955.51	477.76	British Heart Foundation. Bag It Up, Planet Aid, Salvation Army		
TEXTILES	Recycling Centres (Viridor)	1,002.90	501.45	JMP Wilcox & Co West Midlands	Clothing is sorted and graded. Good condition is sent for reuse in developing countries (approx 50%). Non-reusable clothing and textiles (approx 50%) are shredded to be made into cotton fellwadding/mops/cluisters and industrial wiping cloths.	
SHOES	Third Party Recycling Banks	7.71	7.71	SOEX UK, Surrey	The shoes are sent to developing nations to be refurbished and reused	
	Recycling Centres (Viridor)	45.11	45.11	SOEX UK, Surrey		
FURNITURE & BRIC-A-BRAC	Third Parties (Furniture Reuse Groups)	150.23	0.00	Furneuqip (Glastonbury), Furnicare (Yeovil), Furnitrust (Taunton), Engage West Somerset (Minehead), Fair Frome Furniture Bank (Frome)	Sold on by each organisation for reuse at low prices to people in their areas on benefits or with low incomes	N/A
BRIC-A-BRAC	Recycling Centres (Viridor)	450.53	0.00	Sent to various local outlets via collection agents at each recycling centre	Sold for reuse	N/A
HOUSEHOLD BATTERIES	Recycling Centres (Viridor)	10.32	0.00	G&P Batteries, West Midlands	Batteries separated into different fractions, i.e. metal and plastic for reuse in manufacturing	-5.97
AUTOMOTIVE BATTERIES	Kerbside Recycling and Schools (Kier)	13.76	0.00	HJ Enthoven Ltd, West Midlands	Separated into fractions and re-processed into new batteries or reused as raw material i.e. scrap metal and plastic	-100.99
		2.84	0.00	Manbat Ltd, Bristol		
		2.84	0.00	A B Metals Ltd, Taunton		
	Recycling Centres (Viridor)	155.09	0.00	J.C. Thomas & Sons, Somerset		
FRIDGES / FREEZERS	Recycling Centres (Viridor)	943.92	0.00	Viridor St Helens, Merseyside	Broken down into separate components for reuse in manufacturing. CFCs extracted for safe disposal	-170.40
ELECTRICAL	Recycling Centres (Viridor)	2,641.87	0.00	J.C. Thomas & Sons, Somerset	Broken down into separate components, baled and recycled	-599.24
		183.50	0.00	Newbery Metals Ltd, Somerset		
		7.46	0.00	G H Newbery & Son Ltd, Devon		
		486.62	0.00	Viridor St Helens, Merseyside		
SCRAP METAL	Recycling Centres (Viridor)	4,806.62	0.00	J.C. Thomas & Sons, Somerset	Broken down into separate components, baled and recycled	-13,279.47
		352.62	0.00	Newbery Metals Ltd, Somerset		
		13.14	0.00	Newbery Metals Ltd, Devon		
		49.12	0.00	G H Newbery & Son, Devon		
SCRAP METAL (WHEELED BINS)	Kerbside Recycling and Schools (Kier)	0.86	0.00	Johnson's Metals, Somerset	Broken down into separate components, baled and recycled	-11.29
		3.58	0.00	A B Metals Ltd, Taunton		
COOKING OIL	Recycling Centres (Viridor)	0.80	0.00	M&B (Edible) Oils Ltd, Devon	Turned into biofuel to generate electricity and heat	-0.23
		10.21	0.00	Living Fuels, Norfolk		
ENGINE OIL	Recycling Centres (Viridor)	17.27	0.00	Slicker Recycling Ltd, Gwent	Oils are recovered and blended for use as an alternative fuel	-54.59
		58.03	0.00	Slicker Recycling Ltd, Devon		
PAINT	Recycling Centres (Viridor)	172.83	0.00	Paint 360, West Midlands	Recycled into new paint products	698.01
WOOD	Recycling Centres (Viridor)	4,528.13	0.00	South West Wood Products, Devon	The wood is chipped and made into a range of proucts including animal bedding, equestrian surfaces and biofuel.	-1,877.16
		361.71	0.00	South West Wood Products, Swansea		
		1,268.86	0.00	South West Wood Products, Somerset		
		244.23	0.00	Crapper & Sons, Wiltshire		
		70.81	0.00	Wood Yew Waste Ltd , Devon		
WOOD**	Recycling Centres (Viridor)	2,237.92	0.00	South West Wood Products Ltd, Devon	Wood is used as a bio fuel for energy generation **	-1,315.55
		357.53	0.00	South West Wood Products Ltd, Somerset,		
		67.97	0.00	Crapper & Sons, Wiltshire		
		149.89	0.00	Wood Yew Waste Ltd , Devon		
		165.06	0.00	South West Wood Products Ltd, Gwent		
		1,880.08	0.00	South West Wood Products Ltd, Swansea		
PLASTER BOARD	Recycling Centres (Viridor)	279.26	0.00	Mid UK Recycling Ltd, Lincolnshire	Processed to separate the gypsum and paper. Gypsum is reprocessed into new plasterboard and paper is reprocessed into a variety of new paper materials	0.62
INK & TONER CARTRIDGES	Recycling Centres (Viridor)	2.55	0.00	Ink and Toner Recycling, Buckinghamshire	Sorted into different types and sent to remanufacturers to be refilled. Broken cartridges are repaired so they can be refilled.	-3.10
FLUORESCENT TUBES AND LAMPS	Recycling Centres (Viridor)	5.10	0.00	Yellowstone Environmental Solutions Ltd, Dorset	The lamps are separated into different components and recycled. Recovered mercury is used in new lamps.	-1.50
		3.22	0.00	Mercury Recycling Ltd, Manchester		
MOBILE PHONES	Recycling Centres (Viridor)	0.01	0.00	ICT Reverse, Lancashire	Phones are tested and data securely erased. Suitable phones are refurbished for reuse or parts and damaged/unsalvageable ones are recycled	0.00
STREET SWEEPINGS	All Somerset Districts	6,867.40	0.00	Neal Soil Supplies, Cardiff.	De-watered by Viridor. Sent to Neal Soil Supplies who extract and recycle soil and aggregate, and send litter and the remainder to be used as refuse derived fuel.	N/A

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This document is also available in Braille, large print, on tape and on disc and we can translate it into different languages. We can provide a member of staff to discuss the details.

Somerset Waste Partnership

enquiries@somersetwaste.gov.uk

Tel. 01823 625700

www.somersetwaste.gov.uk