

SOMERSET WASTE PARTNERSHIP - RECYCLING END-USE REGISTER 2019/20

In 2019/20 Somerset residents reused and recycled 135,420.74 tonnes of waste. 90% was recycled in the UK, with only 10% sent overseas for recycling. By reusing and recycling their waste, Somerset residents avoided paying over £15 million in landfill costs. The amount of CO₂ eq saved by recycling is equal to removing approximately 25,990 cars off the road for a year.

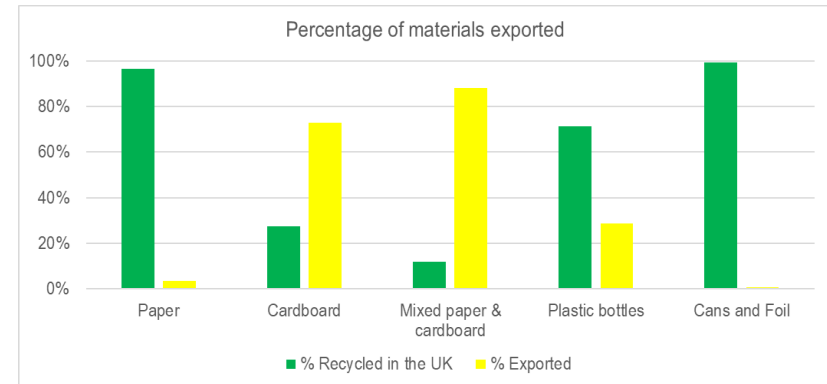
The tables below detail the materials collected in 2019/20 by Somerset Waste Partnership's kerbside collections and recycling sites, together with materials collected by third parties on which the SWP paid Recycling or Reuse Credits. The table shows the tonnages of materials collected, the reprocessor 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 CO₂ eq

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 the UK does not have sufficient reprocessing capacity for everything we produce, and in some cases materials are exported. In 2019/20, some of our paper, cardboard, plastic bottles and cans were exported for recycling. A study commissioned by WRAP (www.wrap.org.uk) found the energy and carbon savings from recycling still outweighed, 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 CO ₂ EQUIVALENT)	SWP WASTE CARBON FOOTPRINT (TONNES CO ₂ EQUIVALENT)	SWP WASTE CARBON FOOTPRINT PER PERSON (TONNES CO ₂ EQUIVALENT)
TOTALS	132,409.81	3,010.93	5,052.38	10.15%	13,742.57	135,420.74	-67,573.77	585,898	1.05
TOTAL LANDFILL COSTS AVOIDED	REFUSE FOR DISPOSAL (KG PER HOUSEHOLD)^		RECYCLING & REUSE (KG PER HOUSEHOLD)^		TOTAL WASTE ARISING (KG PER HOUSEHOLD)^		SWP Household Waste Recycling Rate		
Over £15 million	483.23		524.56		1,007.79		52.86%		

N/A - No figures available for Carbon savings ** Not counted as recycling for National Indicators and excluded from recycled totals ^ Local Authority Collected Waste.
 *** '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))	25.18	0.00	UPM Shotton, Deeside	Reprocessed into 100% recycled paper for newsprint	-5,176.69
		8,194.72	0.00	Palm Paper, Norfolk		
		187.69	0.00	DS Smith, Kent	Reprocessed into new paper and cardboard products.	
		522.38	0.00	Siteserv Recycling, Vale of Glamorgan		
		70.76	70.76	Viridor - Export via Winfibre UK Company Limited to Best Eternity Recycle Technology - Malaysia		
		35.64	35.64	Viridor - Export via Recovered Paper Management to Trapp Handelsgesellschaft GmbH - Germany		
	62.29	62.29	Export via Recovered Paper Management to Trapp Handelsgesellschaft GmbH - Germany			
	153.20	153.20	Export via Winfibre UK Company Limited to Best Eternity Recycle Technology - Malaysia			
	Recycling Centres (Viridor)	17.57	17.57	Export via Total Commodities Ltd to Tirthak Paper Mill PVT. Ltd - India		
		169.28	0.00	DS Smith, Kent		
		17.69	0.00	Essity UK Ltd, Northumberland		
		7.38	0.00	Dorchester Waste Paper, Dorset		
	East Coker Scout Group (Third Parties)					
CARDBOARD	Kerbside Recycling and Schools (Kier)	1,937.46	0.00	Siteserv Recycling, Vale of Glamorgan	Reprocessed into new cardboard products.	-6,686.20
		1,962.98	1,962.98	Hamburger Rieger Gelsenkirchen GmbH & Co. KG - Germany		
		70.60	70.60	Kempenaars Recycling BV - Netherlands		
		22.18	22.18	Klinge Paperwerke GmbH & Co. KG - Germany		
		96.98	96.98	Leipa Georg Leinfelder GmbH - Germany		
		96.12	96.12	Papierfabrik Julius Schulte - Germany		
		2,234.64	2,234.64	Schoellershammer GmbH & Co. KG - Germany		
		227.89	227.89	Solidus Solutions - Netherlands		
		87.11	87.11	Solidus Solutions Board BV - Netherlands		
		105.99	105.99	VG Recycling - Netherlands		
		127.88	127.88	VPK Paper - Netherlands		
		3.30	3.30	Aryan Paper Mills Ltd - India		
		64.14	64.14	Modern Karton Sanayi Ve Ticaret A.S. - Turkey		
		954.17	954.17	Maruti Papers Ltd - India		
		1,038.24	1,038.24	Nikita Papers Limited - India		
		238.06	238.06	Haripur Paper Company - India		
		105.00	105.00	Maheshwari Logistics Ltd - India		
		367.08	367.08	Shree Ajit Pulp & Paper Ltd - India		
		392.52	392.52	Urvashi Pulp & Paper Mill - Gujarat, India		
		463.82	463.82	Century Paper & Board Mills Ltd - Pakistan		
68.24	68.24	Roshan Packages Ltd - Pakistan				

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		115.00	115.00	Visy Recycling Europe Ltd - Thailand		
		40.17	40.17	Visy Recycling Europe Ltd - Vietnam		
		56.58	0.00	Thamesdown Recycling, Wiltshire		
		52.62	0.00	DS Smith, Kent		
		593.59	0.00	Preston Board and Packaging, Cheshire		
		701.04	0.00	Smurfit Kappa, Kent		
MIXED PAPER AND CARDBOARD	Recycling Centres (Viridor)	139.04	139.04	Export via Ekman Recycling Limited to Siam Kraft Industry Company Ltd - Thailand	Reprocessed into new paper and cardboard products.	-2,218.25
		1,930.84	1,930.84	Export via Recovered Paper Management to Siam Kraft Industry Company Ltd - Thailand		
		37.15	37.15	Export via Recovered Paper Management to Elite Kraft Paper Co. Ltd - Thailand		
		13.16	13.16	Export via Winfibre UK Company Limited to Best Eternity Recycle Technology - Malaysia		
		174.80	174.80	Export to Cheng Loong Binh Duong Paper Co. Ltd - Vietnam		
		25.78	25.78	Export to VPK Paper - Dendemonde, Belgium		
		9.57	9.57	Export to VG Recycling - Zutphen, Netherlands		
		27.53	27.53	Export to Modern Karton Sanayi Ve Ticaret. A.S. - Turkey		
		58.15	58.15	Export via VG Recycling Group Ltd to M/S Orazone Paper PVT Ltd - India		
		20.96	20.96	Export via Total Commodities Ltd to Tirthak Paper Mill PVT. Ltd - India		
		84.57	84.57	Export via Vipa Lausanne S.A. to M/S Enami Paper Mills Limited - India		
		259.11	259.11	Export via VG Recycling Group Ltd to M/S Shri Gopinath Paper Mills PVT. Ltd - India		
		175.02	175.02	Export via Recovered Paper Management Ltd to Pt. Lohdjinawi Widjayaji Puspogiwang - Indonesia		
		198.01	198.01	Export via Total Commodities Ltd to Pt. Lohdjinawi Widjayaji Raya Mangkang Wetan - Indonesia		
		114.50	114.50	Export via International Recycling Ltd to Bulleh Shah Packaging (Private) Limited - Pakistan		
		299.67	299.67	Export to Cheng Loong Corporation - Taiwan		
		226.60	1.92	Smurfit Kappa, Kent		
		0.00	0.00	DS Smith, Bristol		
	112.59	0.00	DS Smith, Kent			
	Third Party Recyclers	81.36	0.00	Martock Waste Paper, Somerset		
66.89		0.00	Viridor Waste, Somerset			
GLASS BOTTLES AND JARS	Kerbside Recycling and Schools (Kier)	15,190.48	0.00	Recresco Ltd, South Wales	Sorted and crushed for use in remelt applications such as new glass bottles and jars and fibreglass.	-12,031.24
		1.92	0.00	Viridor Ltd, Sheffield		
	Recycling Centres (Viridor)	743.02	0.00	Viridor Ltd, Sheffield		
		1,542.71	0.00	Morris & Co Ltd, South Yorkshire		
		111.05	0.00	Morris & Co Ltd, South Wales		

MATERIAL	SOURCE	TONNAGE	EXPORTED (TONNES)	WHERE DID IT GO?	WHAT HAPPENED TO IT?	CARBON SAVED (TONNES CO2 EQUIVALENT)
STEEL AND ALUMINIUM CANS AND FOIL	Kerbside Recycling and Schools (Kier)	2.32	0.00	Waste 2 Resource, Shropshire	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 melted into aluminium ingots for production of new aluminium products	-6,318.08
		1.91	0.00	Alutrade Ltd, Gloucestershire		
		2.83	0.00	Alutrade Ltd, Worcestershire		
		745.81	0.00	Novelis UK, Cheshire		
		9.65	0.00	Tata Steel, South Wales		
		16.17	0.00	ASM Metal Recycling Ltd, Buckinghamshire		
		11.15	0.00	Tandom Metallurgical Group Ltd, Cheshire		
		17.30	17.30	Hydro Rolled Aluminium Products GmbH - Germany		
		17.33	0.00	Site details unknown***		
	3.47	0.00	Enablelink Ltd, West Midlands			
	Recycling Centres (Viridor)	2.80	0.00	ASM Metal Recycling Ltd, Buckinghamshire		
PLASTIC BOTTLES	Kerbside Recycling and Schools (Kier)	481.61	0.00	Monoworld Recycling, Northamptonshire	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	-1,760.57
		37.80	37.80	Kruschitz Plastics and Recycling GmbH, Austria		
		275.36	0.00	Roydon Group PLC, Manchester		
		16.93	0.00	Rochester Plastics Recovery Facility, Kent		
		1.36	1.36	Aufderhaar Kunststoff Recycling. - Netherlands		
		691.77	691.77	P.I La Pahilla c/El Blanquizar Paracela 44, Spain		
		30.90	30.90	Berat PET Geri Donusebilen Mad. Am Nak. - Turkey		
		0.29	0.29	Umweltdienste Kedenburg GmbH - Beckum, Germany		
		651.66	0.00	Biffa Polymers, Cleveland		
		19.74	0.00	Biffa GS Environmental Ltd, West Midlands		
		25.79	0.00	BIFFA Seaham PRF - Seaham, County Durham		
		67.87	0.00	Clean Tech Europe Ltd, Lincolnshire		
		559.60	0.00	Berry Recycling, Droitwich		
		83.60	0.00	3R Technology UK Ltd - Preston		
		20.00	0.00	Trading Products Ltd, Scotland		
		35.39	0.00	Pro Environmental Ltd, Kent		
		120.02	120.02	Ecolux Recycling - Serbia		
94.90	0.00	Site details unknown***				
51.78	51.78	PT Harvestindo International - Indonesia				
PLASTIC BOTTLES AND PLASTIC POTS, TUBS AND TRAYS	Recycling Centres (Viridor)	285.98	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.	-154.14
DRINKS CARTONS & TETRA PAK	Recycling Centres (Viridor)	41.00	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	-22.43

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FOOD WASTE	Kerbside Recycling and Schools (Kier)	16,672.67	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	-390.04																																																																																																																																													
		1,900.67	0.00	Swang Farm AD, Bridgwater			GARDEN WASTE	Kerbside Recycling and Schools (Kier)	8,844.53	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	-2,251.98	9,302.10	0.00	Viridor, Dimmer, Castle Cary, Somerset	1,153.74	0.00	Viridor, Priorswood, Taunton, Somerset	Recycling Centres (Viridor)	9,484.08	0.00	Viridor, Walpole, Bridgwater, Somerset	7,611.35	0.00	Viridor, Dimmer, Castle Cary, Somerset	6,094.34	0.00	Viridor, Priorswood, Taunton, Somerset	TEXTILES & SHOES	Kerbside Recycling and Schools (Kier)	244.52	0.00	JMP Wilcox & Co West Midlands	Clothing is sorted and graded in the UK. Good condition is sent for reuse in developing countries. Non-reusable clothing and textiles are shredded to be made into cotton felt/wadding/mops/dusters and industrial wiping cloths. The shoes are sent to developing nations to be refurbished and reused	-13,819.47	Third Party Recycling Banks	1,000.11	0.00	British Heart Foundation. JMP Wilcox & Co, Planet Aid, Salvation Army	TEXTILES	Recycling Centres (Viridor)	1,073.16	0.00	JMP Wilcox & Co West Midlands	Clothing is sorted and graded in the UK. Good condition is sent for reuse in developing countries. Non-reusable clothing and textiles are shredded to be made into cotton felt/wadding/mops/dusters and industrial wiping cloths.		SHOES	Third Party Recycling Banks	7.19	0.00	SOEX UK, Surrey	Shoes are sorted and graded in the UK. Good condition shoes are sent to developing nations to be refurbished and reused. Those not suitable for reuse are sent for recycling where they are broken down into constituent parts and recycled.		Recycling Centres (Viridor)	46.24	0.00	SOEX UK, Surrey		FURNITURE & BRIC-A-BRAC	Third Parties (Furniture Reuse Groups)	131.38	0.00	Furnequip (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)	508.33	0.00	Sent to various local outlets via collection agents at each recycling centre	Sold for reuse	N/A	HOUSEHOLD BATTERIES	Recycling Centres (Viridor)	20.94	0.00	G&P Batteries, West Midlands	Batteries separated into different fractions, i.e. metal and plastic for reuse in manufacturing	-12.12	AUTOMOTIVE BATTERIES	Kerbside Recycling and Schools (Kier)	13.98	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	-79.93	3.98	0.00	A B Metals Ltd, Taunton	Recycling Centres (Viridor)	120.08	0.00	J.C. Thomas & Sons, Somerset	FRIDGES / FREEZERS	Recycling Centres (Viridor)	939.95	0.00	Viridor St Helens, Merseyside	Broken down into separate components for reuse in manufacturing. CFCs extracted for safe disposal	-170.13	ELECTRICAL	Recycling Centres (Viridor)	2,617.51	0.00	J.C. Thomas & Sons, Somerset	Broken down into separate components, baled and recycled	-568.09	61.74	0.00	Newbery Metals Ltd, Somerset	459.36	0.00	Viridor St Helens, Merseyside	SCRAP METAL	Recycling Centres (Viridor)	4,876.36	0.00	J.C. Thomas & Sons, Somerset	Broken down into separate components, baled and recycled	-13,469.66	388.74	0.00	Newbery Metals Ltd, Somerset	29.96	0.00	Newbery Metals Ltd, Devon	1.70	0.00	Sims Group UK Ltd, Somerset	COOKING OIL	Recycling Centres (Viridor)	10.80	0.00	Living Fuels, Norfolk	Turned into biofuel to generate electricity and heat	-0.23	ENGINE OIL	Recycling Centres (Viridor)	78.99	0.00	Slicker Recycling Ltd, Devon	Oils are recovered and blended for use as an alternative fuel	-57.27	PAINT	Recycling Centres (Viridor)	213.95
GARDEN WASTE	Kerbside Recycling and Schools (Kier)	8,844.53	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	-2,251.98																																																																																																																																													
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TEXTILES & SHOES	Kerbside Recycling and Schools (Kier)	244.52	0.00	JMP Wilcox & Co West Midlands	Clothing is sorted and graded in the UK. Good condition is sent for reuse in developing countries. Non-reusable clothing and textiles are shredded to be made into cotton felt/wadding/mops/dusters and industrial wiping cloths. The shoes are sent to developing nations to be refurbished and reused	-13,819.47																																																																																																																																													
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COOKING OIL	Recycling Centres (Viridor)	10.80	0.00	Living Fuels, Norfolk	Turned into biofuel to generate electricity and heat	-0.23																																																																																																																																													
ENGINE OIL	Recycling Centres (Viridor)	78.99	0.00	Slicker Recycling Ltd, Devon	Oils are recovered and blended for use as an alternative fuel	-57.27																																																																																																																																													
PAINT	Recycling Centres (Viridor)	213.95	0.00	Paint 360, West Midlands	Recycled into new paint products	864.14																																																																																																																																													

MATERIAL	SOURCE	TONNAGE	EXPORTED (TONNES)	WHERE DID IT GO?	WHAT HAPPENED TO IT?	CARBON SAVED (TONNES CO2 EQUIVALENT)
WOOD	Recycling Centres (Viridor)	3,061.31	0.00	South West Wood Products, Devon	The wood is chipped and made into a range of products including animal bedding, equestrian surfaces and biofuel.	-1,879.45
		1,127.75	0.00	South West Wood Products, Somerset		
		78.04	0.00	Atlantic Recycling Ltd, Cardiff		
		2,185.41	0.00	South West Wood Products, Wrexham		
		50.79	0.00	South West Wood Products, Gwent		
WOOD**	Recycling Centres (Viridor)	954.83	0.00	South West Wood Products Ltd, Devon	Wood is used as a bio fuel for energy generation **	-1,369.19
		134.44	0.00	South West Wood Products Ltd, Somerset		
		724.92	0.00	I Wood Renewables Ltd, Glamorgan		
		2,246.91	0.00	South West Wood Products Ltd, Gwent		
		991.28	0.00	South West Wood Products Ltd, Swansea		
PLASTER BOARD	Recycling Centres (Viridor)	201.76	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	0.47
		33.72	0.00	New West Gypsum (UK) Ltd, Somerset		
INK & TONER CARTRIDGES	Recycling Centres (Viridor)	1.75	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.	-2.13
FLUORESCENT TUBES AND LAMPS	Recycling Centres (Viridor)	0.80	0.00	Yellowstone Environmental Solutions Ltd, Dorset	The lamps are separated into different components and recycled. Recovered mercury is used in new lamps.	-1.08
		5.19	0.00	Mercury Recycling Ltd, Manchester		
MOBILE PHONES	Recycling Centres (Viridor)	0.04	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.	-0.01
STREET SWEEPINGS	All Somerset Districts	7,005.98	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

MATERIAL	SOURCE	TONNAGE	EXPORTED (TONNES)	WHERE DID IT GO?	WHAT HAPPENED TO IT?	CARBON SAVED (TONNES CO2 EQUIVALENT)
<div data-bbox="846 172 1276 239" data-label="Image"> </div> <p data-bbox="405 261 1765 280">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.</p> <div data-bbox="853 293 1227 416" data-label="Image"> </div> <p data-bbox="389 432 674 451">enquiries@somersetwaste.gov.uk</p> <p data-bbox="1357 432 1503 451">Tel. 01823 625700</p> <p data-bbox="925 477 1312 507">www.somersetwaste.gov.uk</p>						