

The University of North Carolina at Chapel Hill

Office of Waste Reduction and Recycling



2018-19 Fiscal Year Waste Recovery



Prepared by Heather Campbell and BJ Tipton

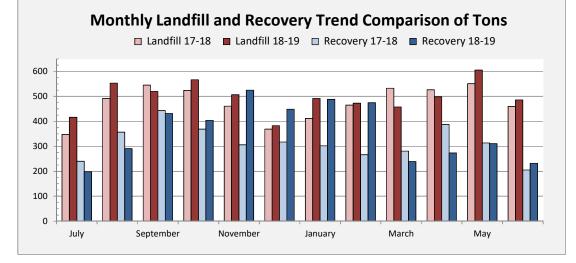
Office of Waste Reduction and Recycling Fiscal Year 2018-19 Trend Report

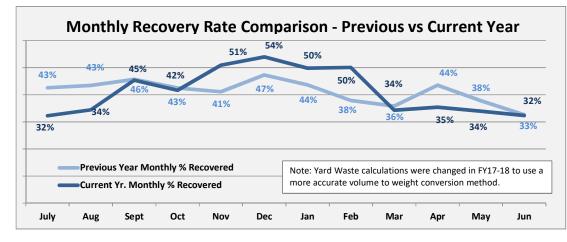
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UNC-Chapel Hill FY 2018-19

Using the EPA Waste Reduction Model (WARM versio	n 15), the total change in energy use due to campus													
(46,719.69)															
	his is equivalent to conserving:														
	510	Households' annual energy consumption													
	8,041	Barrels of oil													
	387,869	Gallons of oil													
Using EPA WARM, the total change in GI	HG emissions	due to campus recycling (MTCO2E):													
(6,474.52) This is equivalent to removing annual emissions from:															
This is equivalent to removing annual emissions from: 1,375 Passenger vehicles															
	•	Gallons of gasoline													
	269,772	Cylinders of propane used for home barbecues													
	0.000369/	Annual CO2 amissions from US transportation soster													
		Annual CO2 emissions from US transportation sector Annual CO2 emissions from US electricity sector													
Total Tons Recovered =	4,314.9														
https://www.epa.gov/warm/versions-waste-reduction-mo	•														
PAPER recycling at UNC Chapel H	lill saves.	Recycling 1 ton of paper saves:													
Trees:	19,099	17 trees													
Gallons of water:	7,811,661	6,953 gallons of water													
Cubic yards of landfill space:	3,370	3 cubic yards of landfill space (uncompacted)													
Kilowatt hours of energy:	4,580,489	4,077 kilowatt hours of energy													
Total Tons Fiber Recycled =	1,123.5														





June		Month (in tor	is)	June	Yea	n tons)	
	2018-19 2017-18 decreas		% increase or decrease		2018-19	2017-18	% increase or decrease
Landfill	486	460	6%	Landfill	5,957	5,685	5%
Recycling	201	190	6%	Recycling	3,669	3,236	13%
Compost	31	32	-4%	Compost	646	761	-15%
Total Waste	718	682	5%	Total Waste	10,271	9,682	6%
% Recovered	32.3%	32.6%	-0.9%	% Recovered	42.0%	41.3%	1.8%



In FY18-19, Grounds processed large batches of mulch from November thru February. This contributes to spikes in recycling data for those months.

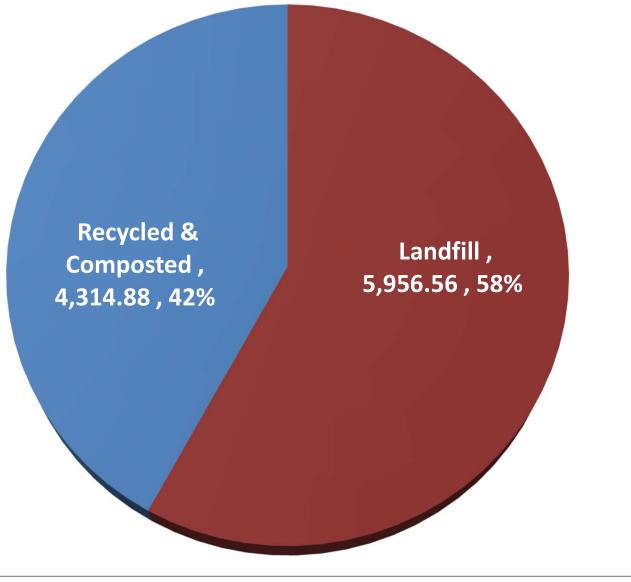
May/June 2019 MSW spike due to Housing project (bed ends): May (23 rolloff hauls, 89.41 tons)

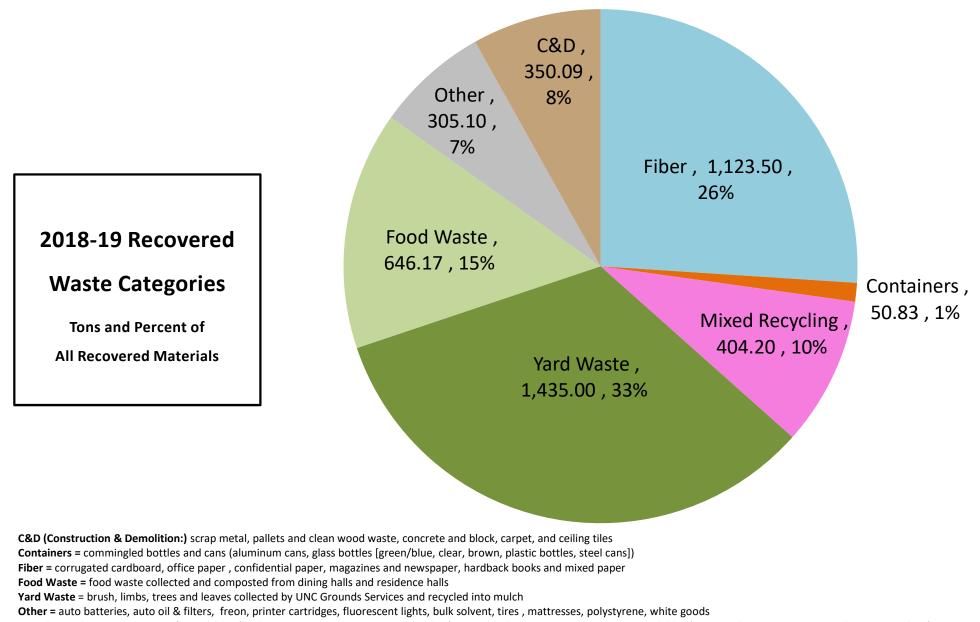
Correction(s): Sept. 2017 MSW was reduced by 74.6 due to data entry error. The overall annual recycling rate was still 40%.

From FY17-18 forward, cubic yards of mulch made by Grounds is used (600 lbs./yard from limbs & branches and 800 lbs/yard from leaves).

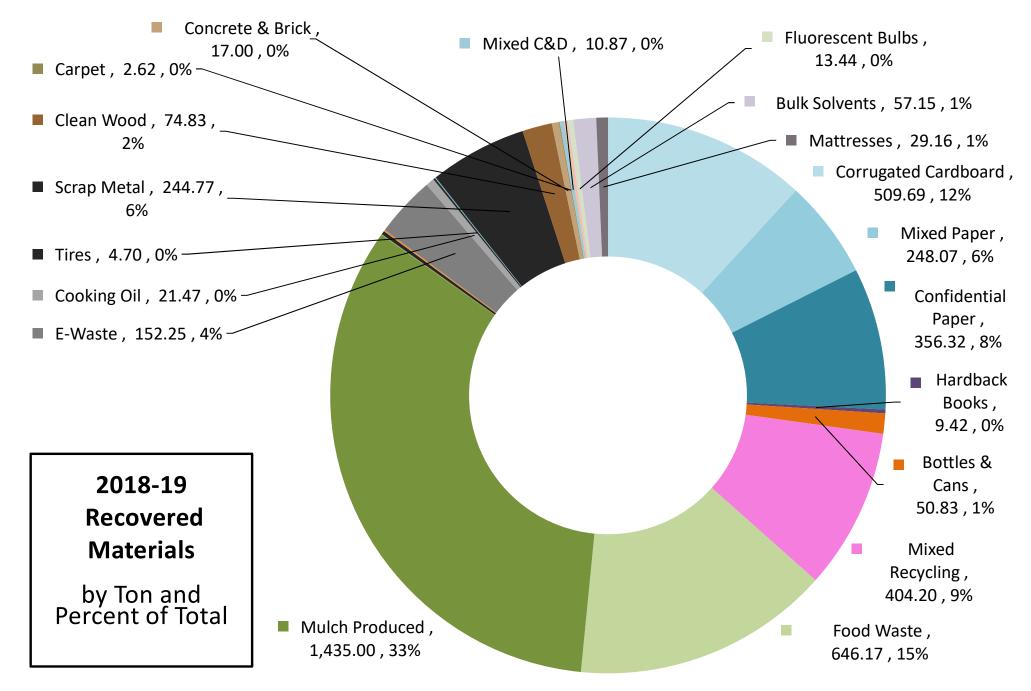
Amount Landfilled & Recovered 2018-19 (tons)

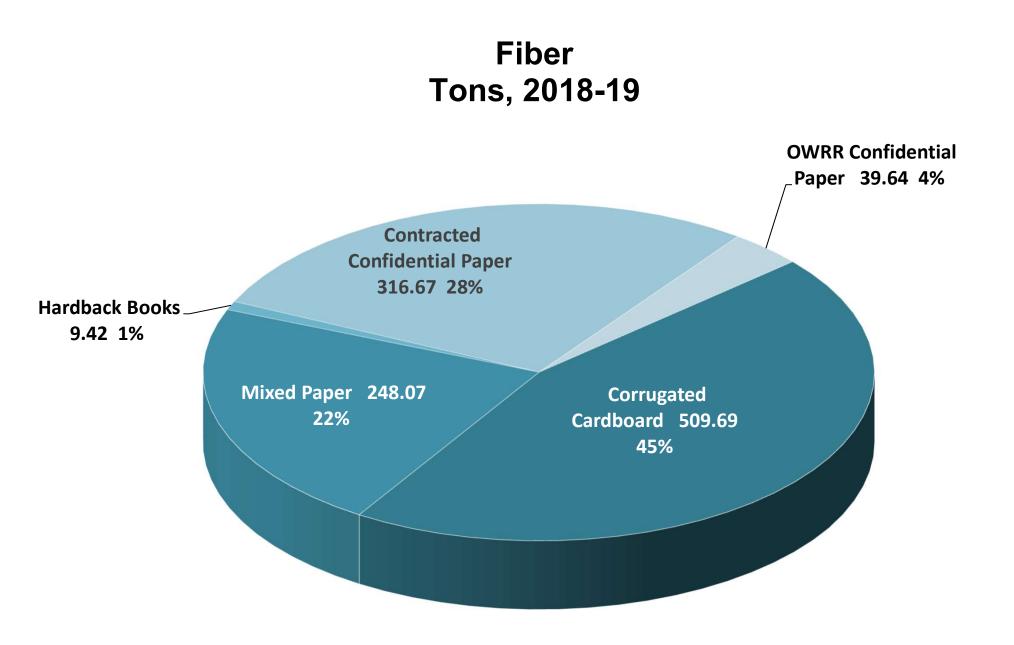
Does Not Include Coal Ash

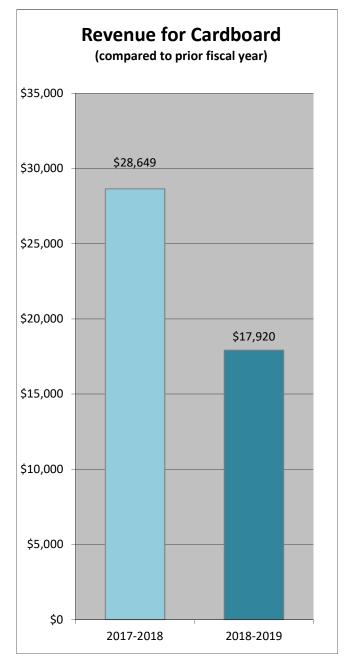


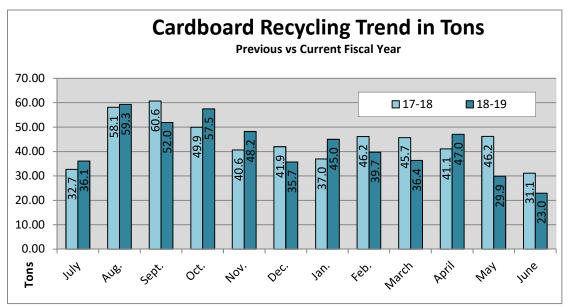


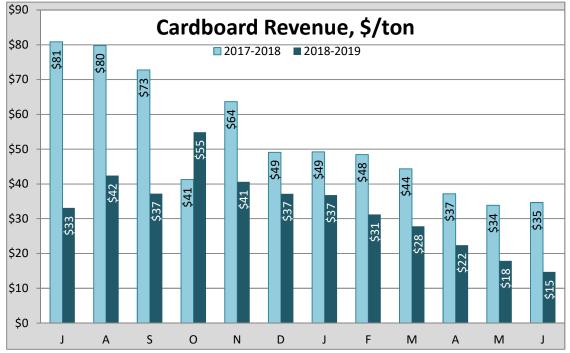
Mixed Recycling = one stream of recyclables (both containers and paper mixed together) as opposed to separate dual stream recyclables (paper and containers separated in separate bins)



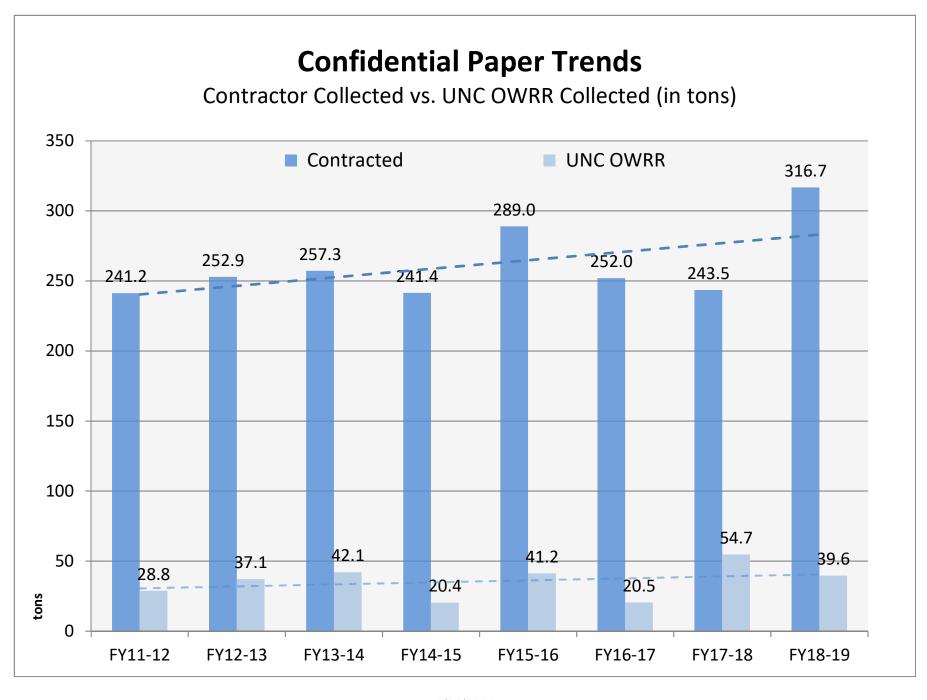








9/24/2019 OWRR 18-19, Cardboard Tons and Revenue



9/24/2019 OWRR 18-19, Confidential Paper

	FIBER														
	CORRUGATED CARDBOARD														
CORRUGATED CARDBOARD	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19			
Monthly Tons	36.14	59.28	51.95	57.47	48.21	35.72	44.95	39.73	36.38	47.04	29.86	22.96			
Y-T-D Tons	36.14	95.42	147.37	204.84	253.05	288.77	333.72	373.45	409.83	456.87	486.73	509.69			
Last Year Monthly Tons	32.71	58.13	60.63	49.94	40.64	41.93	36.97	46.16	45.67	41.05	46.19	31.12			
% Incr./Decr. Monthly	10%	2%	-14%	15%	19%	-15%	22%	-14%	-20%	15%	-35%	-26%			

		MIXED PAPER														
Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19						
18.20	12.87	21.07	17.03	13.46	25.02	24.09	24.21	23.69	25.96	24.01						
18.20	12.87	21.07	17.03	13.46	25.02	24.09	24.21	23.69	25.96	24.01						
36.66	49.53	70.60	87.63	101.09	126.11	150.20	174.41	198.10	224.06	248.07						
21.31	15.90	18.49	15.75	13.62	17.06	17.21	15.99	17.84	21.38	17.61						
-15%	-19%	14%	8%	-1%	47%	40%	51%	33%	21%	36%						
	18.20 18.20 36.66 21.31	18.20 12.87 18.20 12.87 18.20 12.87 36.66 49.53 21.31 15.90	18.20 12.87 21.07 18.20 12.87 21.07 36.66 49.53 70.60 21.31 15.90 18.49	18.20 12.87 21.07 17.03 18.20 12.87 21.07 17.03 36.66 49.53 70.60 87.63 21.31 15.90 18.49 15.75	18.20 12.87 21.07 17.03 13.46 18.20 12.87 21.07 17.03 13.46 36.66 49.53 70.60 87.63 101.09 21.31 15.90 18.49 15.75 13.62	18.20 12.87 21.07 17.03 13.46 25.02 18.20 12.87 21.07 17.03 13.46 25.02 36.66 49.53 70.60 87.63 101.09 126.11 21.31 15.90 18.49 15.75 13.62 17.06	18.20 12.87 21.07 17.03 13.46 25.02 24.09 18.20 12.87 21.07 17.03 13.46 25.02 24.09 36.66 49.53 70.60 87.63 101.09 126.11 150.20 21.31 15.90 18.49 15.75 13.62 17.06 17.21	18.20 12.87 21.07 17.03 13.46 25.02 24.09 24.21 18.20 12.87 21.07 17.03 13.46 25.02 24.09 24.21 18.20 12.87 21.07 17.03 13.46 25.02 24.09 24.21 36.66 49.53 70.60 87.63 101.09 126.11 150.20 174.41 21.31 15.90 18.49 15.75 13.62 17.06 17.21 15.99	18.20 12.87 21.07 17.03 13.46 25.02 24.09 24.21 23.69 18.20 12.87 21.07 17.03 13.46 25.02 24.09 24.21 23.69 36.66 49.53 70.60 87.63 101.09 126.11 150.20 174.41 198.10 21.31 15.90 18.49 15.75 13.62 17.06 17.21 15.99 17.84	18.20 12.87 21.07 17.03 13.46 25.02 24.09 24.21 23.69 25.96 18.20 12.87 21.07 17.03 13.46 25.02 24.09 24.21 23.69 25.96 18.20 12.87 21.07 17.03 13.46 25.02 24.09 24.21 23.69 25.96 36.66 49.53 70.60 87.63 101.09 126.11 150.20 174.41 198.10 224.06 21.31 15.90 18.49 15.75 13.62 17.06 17.21 15.99 17.84 21.38						

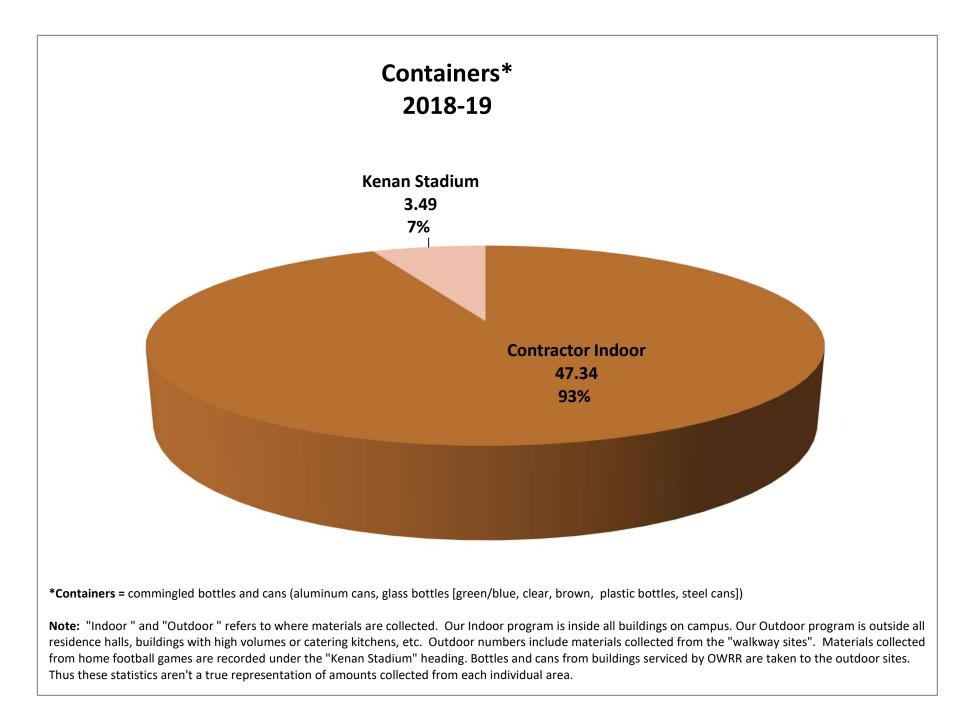
CONFIDENTIAL PAPER	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
CP-OWRR Collected	0.00	0.00	0.00	0.00	19.90	0.00	0.00	0.00	0.00	0.00	0.00	19.74
CP-SOM Contractor Collected	25.22	30.18	24.99	26.86	26.53	23.14	28.63	22.90	23.64	23.37	27.69	22.78
CP - Contractor Collected	0.60	0.71	0.62	0.95	0.89	1.77	0.78	0.89	0.83	1.12	0.94	0.66
Monthly Tons	25.82	30.89	25.61	27.81	47.32	24.91	29.41	23.79	24.47	24.49	28.63	43.18
Y-T-D Tons	25.82	56.70	82.31	110.12	157.43	182.34	211.75	235.54	260.01	284.50	313.13	356.32
Last Year Monthly Tons	21.10	22.15	22.80	20.10	18.90	19.65	20.35	18.85	34.81	19.35	20.45	20.00
% Incr./Decr. Monthly	22%	39%	12%	38%	150%	27%	45%	26%	-30%	27%	40%	116%

'18-19 was first year to have comprehensive School of Medicine (SOM) totals AND totals from other UNC-CH locations

HARDBACK BOOKS	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	3.26	1.47	1.71	1.22	0.00	0.00	0.00	0.00	0.38	0.00	0.82	0.56
Y-T-D Tons	3.26	4.73	6.44	7.66	7.66	7.66	7.66	7.66	8.04	8.04	8.86	9.42
Last Year Monthly Tons	0.84	1.31	1.01	0.61	0.79	1.31	0.42	0.79	0.44	0.71	0.22	0.32
% Incr./Decr. Monthly	288%	12%	69%	100%	N/A	N/A	N/A	N/A	-14%	N/A	273%	75%

MIXED PAPER TOTAL TONS	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	47.54	50.56	40.19	50.10	64.35	38.37	54.43	47.88	49.06	48.18	55.41	67.75
Y-T-D Tons	47.54	98.09	138.28	188.38	252.72	291.09	345.52	393.40	442.46	490.64	546.05	613.81
Last Year Monthly Tons	39.71	44.77	39.71	39.20	35.44	34.58	37.83	36.85	51.24	37.90	42.05	37.93
% Incr./Decr. Monthly	20%	13%	1%	28%	82%	11%	44%	30%	-4%	27%	32%	79%

	TOTAL FIBER TONS														
TOTAL FIBER	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19			
Monthly Tons	83.68	109.84	92.14	107.57	112.56	74.09	99.38	87.61	85.44	95.22	85.27	90.71			
Y-T-D Tons	83.68	193.51	285.65	393.22	505.77	579.86	679.24	766.85	852.29	947.51	1,032.78	1,123.50			
Last Year Monthly Tons	90.19	124.21	116.24	107.63	91.83	90.13	91.86	100.22	112.90	96.79	109.62	86.66			
% Incr./Decr. Monthly	-7%	-12%	-21%	0%	23%	-18%	8%	-13%	-24%	-2%	-22%	5%			

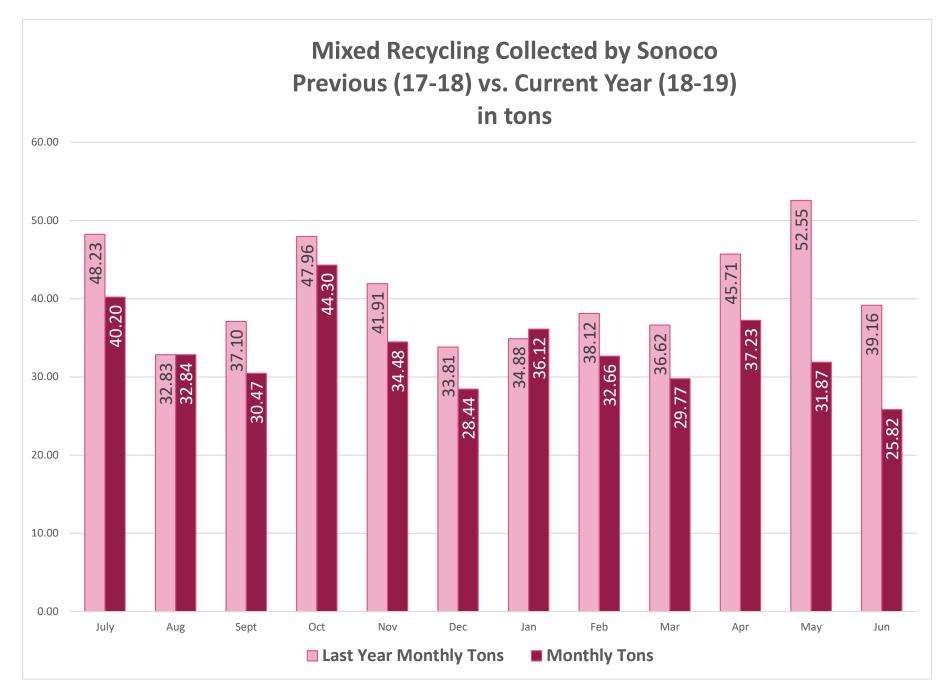


	CONTAINERS (BOTTLES AND CANS)														
CONTAINERS	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19			
Indoor Recycling	3.10	3.30	2.90	4.12	4.34	2.77	4.87	4.74	3.84	4.43	4.12	4.81			
Football Recycling*			0.92	0.80	1.77										

	TOTAL CONTAINERS														
TOTAL CONTAINERS	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19			
Monthly Tons	3.10	3.30	3.82	4.92	6.11	2.77	4.87	4.74	3.84	4.43	4.12	4.81			
Y-T-D Tons	3.10	6.40	10.22	15.14	21.25	24.02	28.89	33.63	37.47	41.90	46.02	50.83			
Last Year Monthly Tons	2.92	4.11	6.97	6.64	3.24	2.65	2.52	3.44	3.40	3.44	3.04	3.48			
% Incr./Decr. Monthly	6%	-20%	-45%	-26%	89%	5%	93%	38%	13%	29%	36%	38%			

*Football statistics are from Kenan Stadium. Tailgate recyclables are included in the single stream statistics.

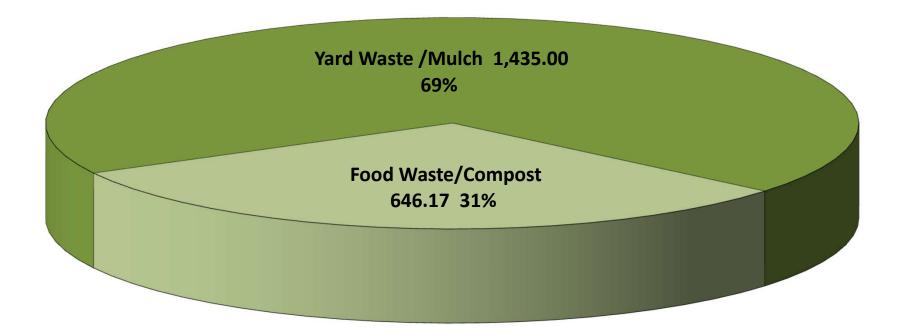




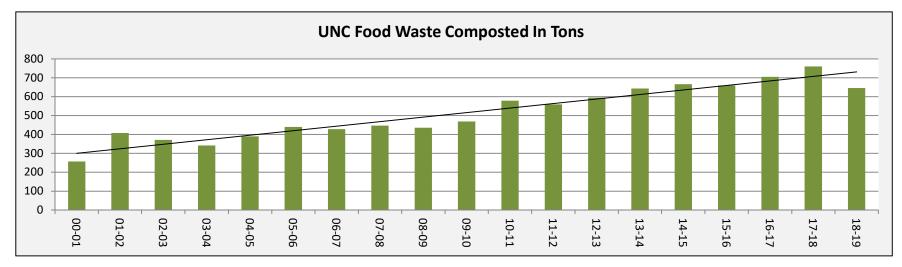
	MIXED RECYCLING - CARTS													
MIXED RECYCLING (Outdoor Carts)	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19		
Monthly Tons	40.20	32.84	30.47	44.30	34.48	28.44	36.12	32.66	29.77	37.23	31.87	25.82		
Y-T-D Tons	40.20	73.04	103.51	147.81	182.29	210.73	246.85	279.51	309.28	346.51	378.38	404.20		
Last Year Monthly Tons	48.23	32.83	37.10	47.96	41.91	33.81	34.88	38.12	36.62	45.71	52.55	39.16		
% Incr./Decr. Monthly	-17%	0%	-18%	-8%	-18%	-16%	4%	-14%	-19%	-19%	-39%	-34%		

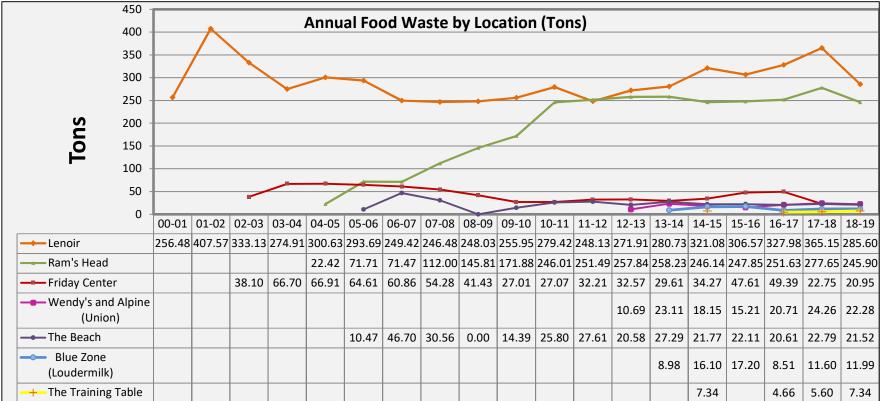


Recovered Organic Material 2018-19

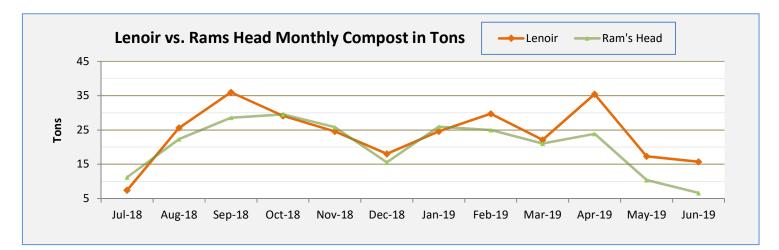


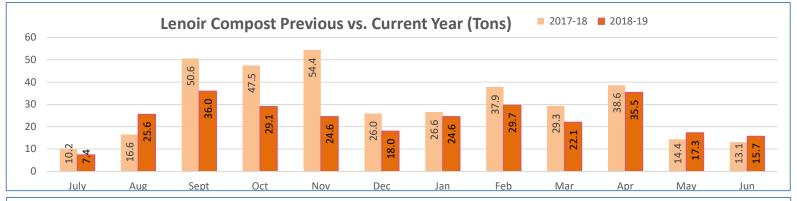
NOTE: Prior to FY 17-18, yard waste totals were based on volume-to-weight conversions that were calculated based on estimated truck loads of leaves, limbs, and branches (with varying contents, truck sizes, and % full.)

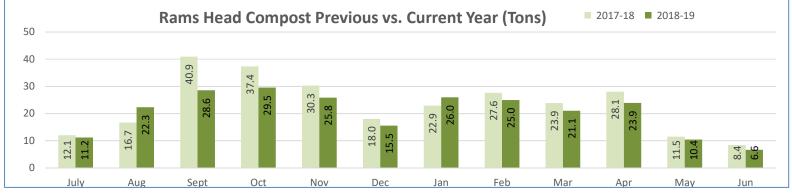




2018-19 Food Waste (tons)	Jul-18 23.05	Aug-18 59.29	Sep-18 74.11	Oct-18 71.50	Nov-18 58.51	Dec-18 39.85	Jan-19 59.23	Feb-19 65.81	Mar-19 52.96	Apr-19 72.57	May-19 38.41	Jun-19 30.87	Year To Date: 646.17
Blue Zone (Loudermilk)	0.17	1.03	0.73	1.17	0.73	0.72	0.78	2.11	0.66	1.99	1.06	0.84	11.99
Consolidated Pickups*	0.97	0.99	0.78	1.15	0.97	0.81	0.55	1.31	1.58	2.21	1.33	0.63	13.28
Friday Center	0.18	3.54	0.67	3.14	1.82	1.62	0.73	1.84	1.68	1.89	2.25	1.59	20.95
Hyde Hall		0.01	0.03	0.05	0.01	0.01	0.02	0.04	0.02	0.05	0.04	0.00	0.29
Greenhouse (Genome Building)	0.78	1.14	1.08	2.64	0.71	0.64	1.12	0.73	1.83	1.05	1.57	2.20	15.49
Lenoir	7.41	25.59	35.98	29.10	24.60	18.03	24.59	29.71	22.09	35.46	17.30	15.74	285.60
Ram's Head (Chase Hall)	11.20	22.32	28.56	29.54	25.84	15.54	25.95	24.96	21.05	23.88	10.42	6.64	245.90
The Beach Cafe (Brinkhous- Bullitt)	1.54	1.81	1.68	1.84	1.06	1.04	1.44	1.77	1.59	2.16	3.29	2.30	21.52
The Mean Time (Campus Y)							0.14	0.42	0.24	0.54	0.13	0.06	1.53
The Training Table (Football)	0.18	0.73	1.20	1.20	0.53	0.45	0.47	0.60	0.49	1.32	0.02	0.15	7.34
Wendy's and Alpine (Union)	0.62	2.13	3.40	1.67	2.24	0.99	3.44	2.32	1.73	2.02	1.00	0.72	22.28
Rizzo Center b	* This includes compost from Residence Halls and several special collection points (Bot Garden, EHS, SOG, TTK).												
Carolina Inn be	-				ersity.								
Hospital began *The Special Ev					itions on can	npus such as i	the Botanical	Gardens. S	chool of Gov	vernment, Gl	obal Educat	tion Cente	r. and
individual even													,







9/24/2019 OWRR 18-19, Compost Collection

2010 15	mush, curuk	Joara, ana e	ompost at E		Incua Din	ing nano	
Lenoir					**Used	Total	
Waste by				Mixed	Cooking	Recycled	Recovery
Ton	Trash	Cardboard	Compost	Recycling	Grease	Tons	Rate
Jul-18	4.19	1.85	7.41	0.28	**	9.54	69.5%
Aug-18	10.66	4.54	25.59	0.26	**	30.39	74.0%
Sep-18	21.99	7.80	35.98	0.28	**	44.06	66.7%
Oct-18	27.11	9.07	29.10	0.33	**	38.50	58.7%
Nov-18	15.33	6.49	24.60	0.17	**	31.26	67.1%
Dec-18	16.62	6.16	18.03	0.19	**	24.38	59.5%
Jan-19	17.87	5.93	24.59	0.26	**	30.78	63.3%
Feb-19	25.45	7.99	29.71	0.40	**	38.10	60.0%
Mar-19	18.48	7.04	22.09	0.26	**	29.39	61.4%
Apr-19	26.01	13.26	35.46	0.36	**	49.08	65.4%
May-19	8.43	4.04	17.30	0.24	**	21.58	71.9%
Jun-19	4.78	2.84	15.74	0.20	**	18.78	79.7%
	196.92	77.01	285.60	3.23	0.00	365.84	65.0%

2018-19 Trash, Cardboard, and Compost at Lenoir and Rams Head Dining Halls

2018-19

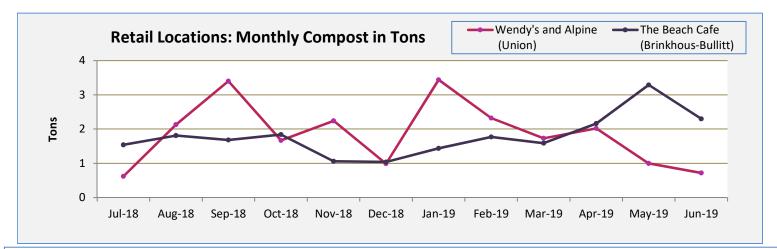
Rams Head					**Used	Total	
Waste by				Mixed	Cooking	Recycled	Recovery
· · ·	Tarah		C		Ŭ	'	,
Ton	Trash	Cardboard	Compost	Recycling	Grease	Tons	Rate
Jul-18	6.09	0.57	11.20	0.23	**	12.00	66.3%
Aug-18	7.12	5.37	22.32	0.23	**	27.92	79.7%
Sep-18	16.64	6.05	28.56	0.28	**	34.89	67.7%
Oct-18	15.2	3.85	29.54	0.25	**	33.64	68.9%
Nov-18	6.15	4.1	25.84	0.17	**	30.11	83.0%
Dec-18	11.6	1.80	15.54	0.19	**	17.53	60.2%
Jan-19	9.17	3.68	25.95	0.23	**	29.86	76.5%
Feb-19	13.11	5.69	24.96	0.27	**	30.92	70.2%
Mar-19	10.92	3.81	21.05	0.21	**	25.07	69.7%
Apr-19	9.05	5.27	23.88	0.41	**	29.56	76.6%
May-19	6.16	2.97	10.42	0.24	**	13.63	68.9%
Jun-19	2.75	1.12	6.64	0.12	**	7.88	74.1%
	113.96	44.28	245.90	2.83		293.01	72.0%

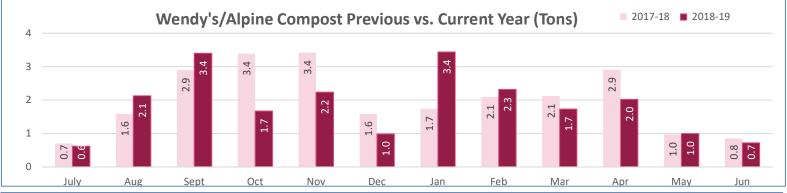
** There are not individual cooking grease weights for each building, but cooking

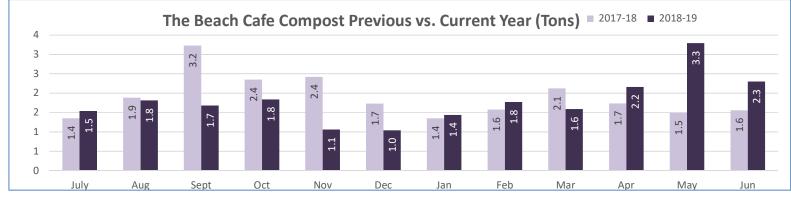
grease is collected and recovered from each. See "Other" sheet for monthly totals.

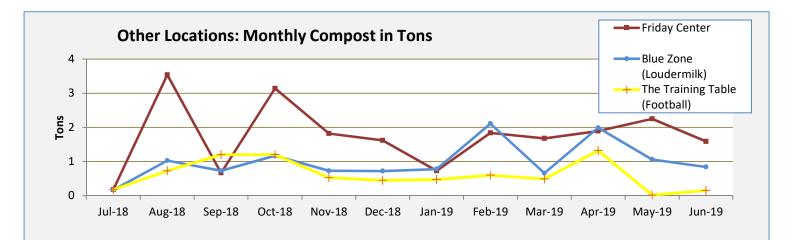
Food Waste Composted since 2000:

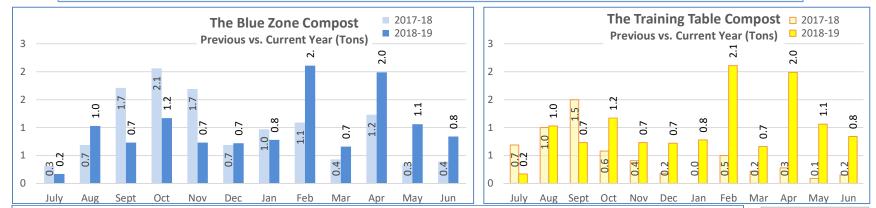
9,795 Tons 19,590,747 Pounds

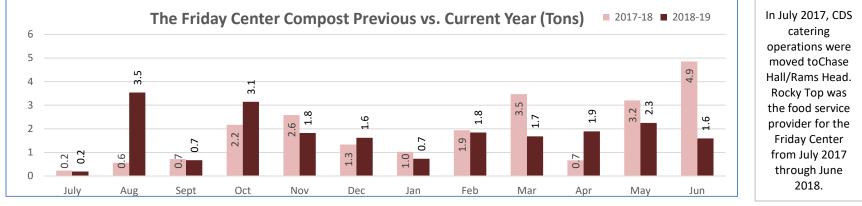




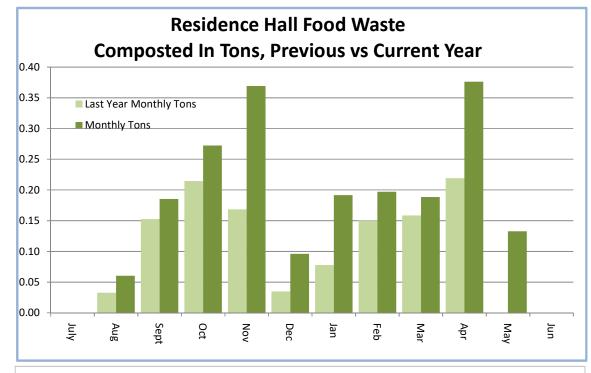








					ORGANIC							
RESIDENTIAL COMPOST	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.06	0.19	0.27	0.37	0.10	0.19	0.20	0.19	0.38	0.13	0.00
Y-T-D Tons	0.00	0.06	0.25	0.52	0.89	0.98	1.17	1.37	1.56	1.94	2.07	2.07
Last Year Monthly Tons	0.00	0.03	0.15	0.21	0.17	0.03	0.08	0.15	0.16	0.22	0.00	0.00
% Incr./Decr. Monthly	0%	84%	21%	27%	119%	176%	146%	31%	19%	72%	N/A	0%





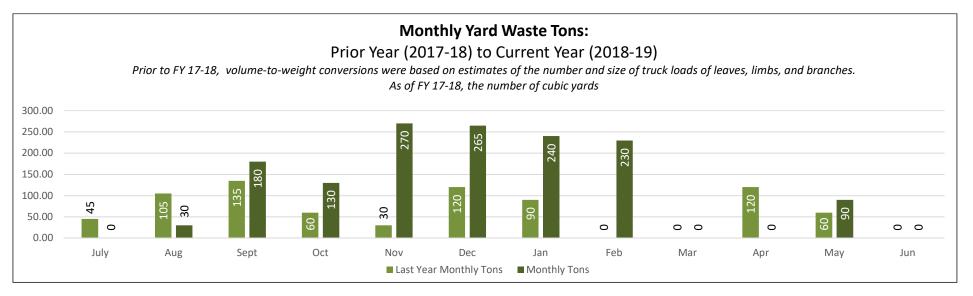
Note: The program is put on hold and carts are removed during summer school and camp season (late May through mid-August). Kickoff programs happen in August. In 2018, carts were pulled at the end of April, before exams were over. In 2019, carts were removed in May, after graduation.

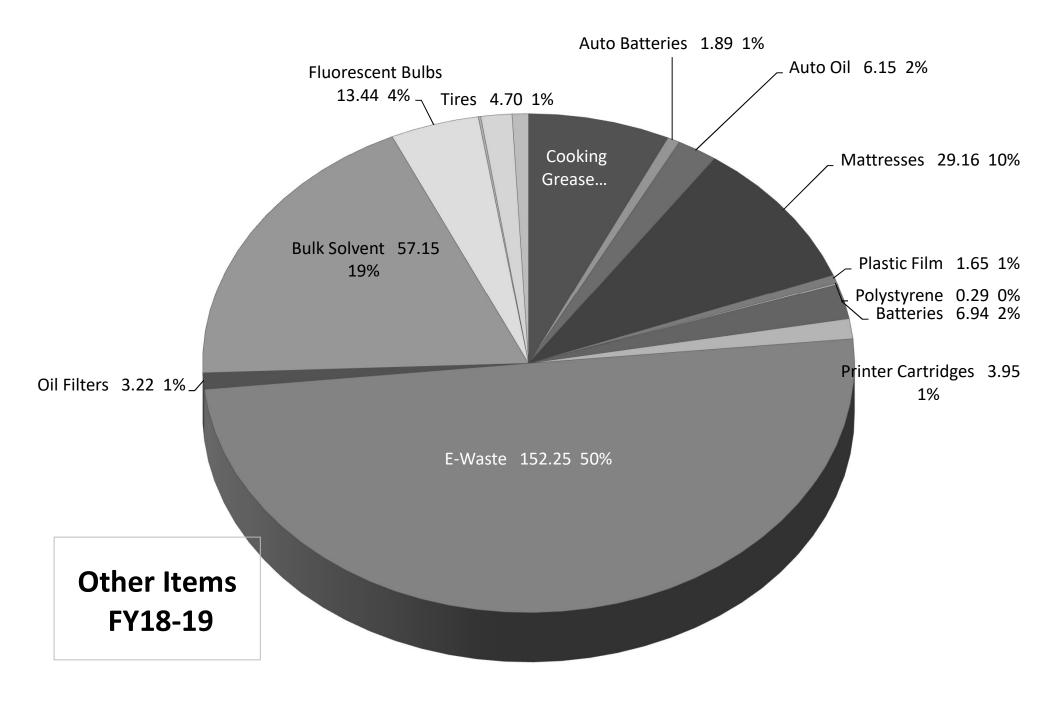
	ORGANIC												
FOOD WASTE (Dining, Residential & Special Events)													
FOOD WASTE	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	
Monthly Tons	23.05	59.29	74.11	71.50	58.51	39.85	59.23	65.81	52.96	72.57	38.41	30.87	
Y-T-D Tons	23.05	82.34	156.45	227.94	286.46	326.31	385.54	451.35	504.32	576.89	615.30	646.17	
Last Year Monthly Tons	27.70	41.85	104.44	99.03	97.41	51.53	56.41	74.52	64.65	76.24	34.75	32.21	
% Incr./Decr. Monthly	-17%	42%	-29%	-28%	-40%	-23%	5%	-12%	-18%	-5%	11%	-0.04	

MULCH PRODUCED FROM YARD WASTE AND TRIMMINGS

MULCH PRODUCED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	30.00	180.00	130.00	270.00	265.00	240.00	230.00	0.00	0.00	90.00	0.00
Y-T-D Tons	0.00	30.00	210.00	340.00	610.00	875.00	1,115.00	1,345.00	1,345.00	1,345.00	1,435.00	1,435.00
Last Year Monthly Tons	45.00	105.00	135.00	60.00	30.00	120.00	90.00	0.00	0.00	120.00	60.00	0.00
% Incr./Decr. Monthly	ne ThisMon	-71%	33%	117%	800%	121%	167%	ast Year This	0%	N/A	50%	0.00

	TOTAL ORGANIC TONS											
note: Pallets have been moved to the C&D page.												
TOTAL ORGANIC	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	23.05	89.29	254.11	201.50	328.51	304.85	299.23	295.81	52.96	72.57	128.41	30.87
Y-T-D Tons	23.05	112.34	366.45	567.94	896.46	1,201.31	1,500.54	1,796.35	1,849.32	1,921.89	2,050.30	2,081.17
Last Year Monthly Tons	72.70	146.85	239.44	159.03	127.41	171.53	146.41	74.52	64.65	196.24	94.75	32.21
% Incr./Decr. Monthly	-68%	-39%	6%	27%	158%	78%	104%	297%	-18%	-63%	36%	-0.04





			FISCA	L YEAR 201	L8-19 WAST	E RECOVEI	RY TREND RI	EPORT			
					OTHEF	R ITEMS					
					SPECIAL	WASTES					
AUTO BATTERIES	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
Monthly Tons	0.05	0.25	0.20	0.20	0.16	0.16	0.18	0.14	0.14	0.16	0.18
Y-T-D Tons	0.05	0.29	0.49	0.69	0.85	1.01	1.19	1.33	1.46	1.62	1.80
Last Year Monthly Tons	0.18	0.23	0.41	0.18	0.14	0.16	0.43	0.23	0.32	0.25	0.18
% Incr./Decr. Monthly	-75%	10%	-51%	11%	19%	2%	-58%	-41%	-57%	-35%	0%
									-		
AUTO OIL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
Monthly Tons	0.55	0.00	1.15	0.52	0.52	0.00	0.82	0.00	0.86	0.52	0.00
Y-T-D Tons	0.55	0.55	1.70	2.22	2.74	2.74	3.56	3.56	4.42	4.94	4.94
Last Year Monthly Tons	1.15	0.91	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.93
% Incr./Decr. Monthly	-52%	N/A	N/A	N/A	N/A	N/A	N/A	0%	N/A	N/A	N/A
										-	
AUTO OIL FILTERS	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
Monthly Tons	0.00	0.00	0.90	0.00	0.52	0.00	0.00	0.90	0.90	0.00	0.00
Y-T-D Tons	0.00	0.00	0.90	0.90	1.42	1.42	1.42	2.32	3.22	3.22	3.22
Last Year Monthly Tons	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.90	0.00	0.00
% Incr./Decr. Monthly	0%	0%	N/A	0%	-42%	0%	0%	N/A	0%	0%	0%
P		-									
AUTO COOLANT	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
Monthly Tons	0.00	0.00	0.18	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
Y-T-D Tons	0.00	0.00	0.18	0.18	0.18	0.18	0.37	0.37	0.37	0.37	0.37
Last Year Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Incr./Decr. Monthly	0%	0%	ast Year This.	0%	0%	0%	ast Year This	0%	0%	0%	0%
BATTERIES	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
Monthly Tons	0.00	1.56	0.00	0.45	0.08	0.00	0.05	3.82	0.02	0.25	0.56
Y-T-D Tons	0.00	1.56	1.56	2.01	2.09	2.09	2.14	5.96	5.98	6.23	6.79
Last Year Monthly Tons	0.00	0.68	0.00	0.93	0.00	0.00	0.00	3.72	0.27	6.35	0.00
% Incr./Decr. Monthly	0%	129%	0%	-52%	N/A	0%	N/A	3%	-93%	-96%	N/A
					1				1		
BULK SOLVENT	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
Monthly Tons	0.00	0.00	11.43	0.00	0.00	11.43	0.00	11.43	11.43	0.00	11.43
Y-T-D Tons	0.00	0.00	11.43	11.43	11.43	22.86	22.86	34.29	45.72	45.72	57.15
Last Year Monthly Tons	0.00	8.49	0.00	0.00	7.51	0.00	0.00	9.10	9.37	6.89	0.00

% Incr./Decr. Monthly

N/A

0%

N/A

0%

N/A

0%

26%

22%

N/A

N/A

N/A

Jun-19

0.09

1.89

0.16

-43%

Jun-19

1.21

6.15 0.00

N/A

Jun-19

0.00

3.22 0.00

0%

Jun-19

0.00

0.37

0.00

0%

Jun-19 0.15

6.94

0.00 N/A

Jun-19

0.00

57.15

5.97

N/A

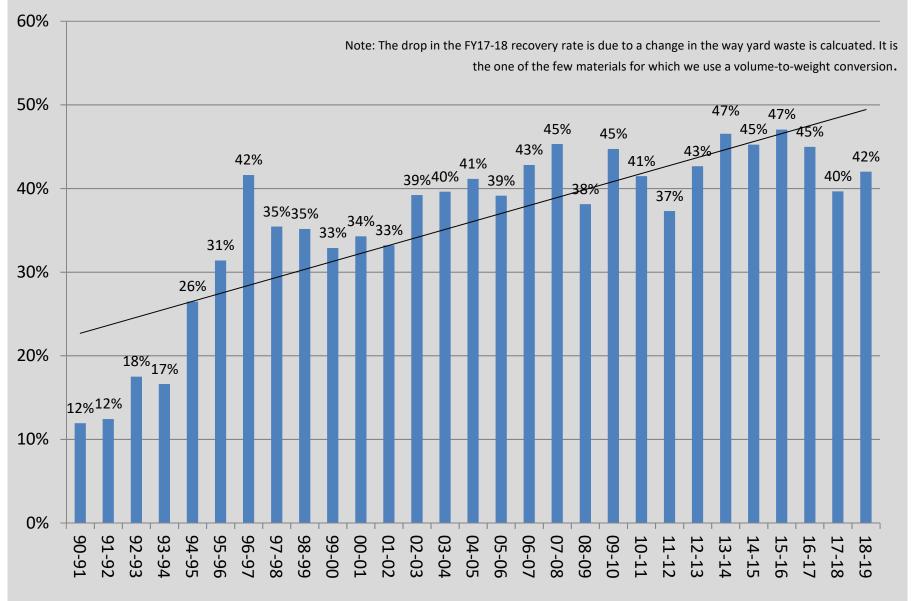
COOKING OIL (biodiesel)	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	1.40	0.81	0.86
Y-T-D Tons	0.00	2.30	4.60	6.90	9.20	11.50	13.80	16.10	18.40	19.80	20.61	21.47
Last Year Monthly Tons	0.81	1.33	2.75	2.36	1.82	1.33	1.60	2.39	2.36	2.75	1.67	0.82
	one ThisMont	73%	-16%	-3%	26%	73%	44%	-4%	-3%	-49%	-51%	5%
yo mony been monenty		, 6, 6	20/0	370	20/0	,0,0	11/0	170	370	1070	01/0	370
E-WASTE	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	14.51	14.67	7.85	15.56	10.54	0.79	11.74	10.93	13.68	18.46	15.93	17.59
Y-T-D Tons	14.51	29.18	37.03	52.59	63.13	63.92	75.66	86.59	100.27	118.73	134.66	152.25
Last Year Monthly Tons	9.90	9.42	12.63	23.90	8.60	3.90	11.59	12.46	15.99	9.00	10.91	10.90
% Incr./Decr. Monthly	47%	56%	-38%	-35%	23%	-80%	1%	-12%	-14%	105%	46%	61%
FLUORESCENT BULBS	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	2.20	1.54	0.00	2.54	1.10	1.98	1.98	0.00	0.50	0.88	0.28	0.44
Y-T-D Tons	2.20	3.74	3.74	6.28	7.38	9.36	11.34	11.34	11.84	12.72	13.00	13.44
Last Year Monthly Tons	2.20	1.54	0.00	2.54	1.10	1.98	0.00	1.15	2.48	0.49	1.54	1.39
% Incr./Decr. Monthly	0%	0%	0%	0%	0%	0%	N/A	N/A	-80%	80%	-82%	-68%
MATTRESSES	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
Y-T-D Tons	0.00	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	29.16
Last Year Monthly Tons	0.05	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16	0.00
% Incr./Decr. Monthly	N/A	-16%	0%	0%	0%	0%	0%	0%	0%	N/A	N/A	N/A
METAL ITEMS	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.24	0.31	0.00	0.26	0.00	0.12	0.18	0.28	0.29	0.27	0.27	0.25
Y-T-D Tons						0 0 2			1 6 0			2.47
	0.24	0.55	0.55	0.81	0.81	0.93	1.11	1.39	1.68	1.95	2.22	
Last Year Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Last Year Monthly Tons % Incr./Decr. Monthly	0.00 N/A	0.00 N/A	0.00 0%	0.00 N/A	0.00 0%	0.00 N/A	0.00 N/A	0.00 N/A	0.00 N/A	0.00 N/A	0.00 N/A	0.00 N/A
Last Year Monthly Tons % Incr./Decr. Monthly PLASTIC FILM	0.00 N/A Jul-18	0.00 N/A Aug-18	0.00 0% Sep-18	0.00 N/A Oct-18	0.00 0% Nov-18	0.00 N/A Dec-18	0.00 N/A Jan-19	0.00 N/A Feb-19	0.00 N/A Mar-19	0.00 N/A Apr-19	0.00 N/A May-19	0.00 N/A Jun-19
Last Year Monthly Tons % Incr./Decr. Monthly PLASTIC FILM Monthly Tons	0.00 N/A Jul-18 0.00	0.00 N/A Aug-18 0.00	0.00 0% Sep-18 0.00	0.00 N/A Oct-18 0.00	0.00 0% Nov-18 0.00	0.00 N/A Dec-18 0.00	0.00 N/A Jan-19 0.00	0.00 N/A Feb-19 0.32	0.00 N/A Mar-19 0.00	0.00 N/A Apr-19 0.76	0.00 N/A May-19 0.00	0.00 N/A Jun-19 0.57
Last Year Monthly Tons % Incr./Decr. Monthly PLASTIC FILM Monthly Tons Y-T-D Tons	0.00 N/A Jul-18 0.00 0.00	0.00 N/A Aug-18 0.00 0.00	0.00 0% Sep-18 0.00 0.00	0.00 N/A Oct-18 0.00 0.00	0.00 0% Nov-18 0.00 0.00	0.00 N/A Dec-18 0.00 0.00	0.00 N/A Jan-19 0.00 0.00	0.00 N/A Feb-19 0.32 0.32	0.00 N/A Mar-19 0.00 0.32	0.00 N/A Apr-19 0.76 1.08	0.00 N/A May-19 0.00 1.08	0.00 N/A Jun-19 0.57 1.65
Last Year Monthly Tons % Incr./Decr. Monthly PLASTIC FILM Monthly Tons	0.00 N/A Jul-18 0.00	0.00 N/A Aug-18 0.00	0.00 0% Sep-18 0.00	0.00 N/A Oct-18 0.00	0.00 0% Nov-18 0.00	0.00 N/A Dec-18 0.00	0.00 N/A Jan-19 0.00	0.00 N/A Feb-19 0.32	0.00 N/A Mar-19 0.00	0.00 N/A Apr-19 0.76	0.00 N/A May-19 0.00	0.00 N/A Jun-19 0.57

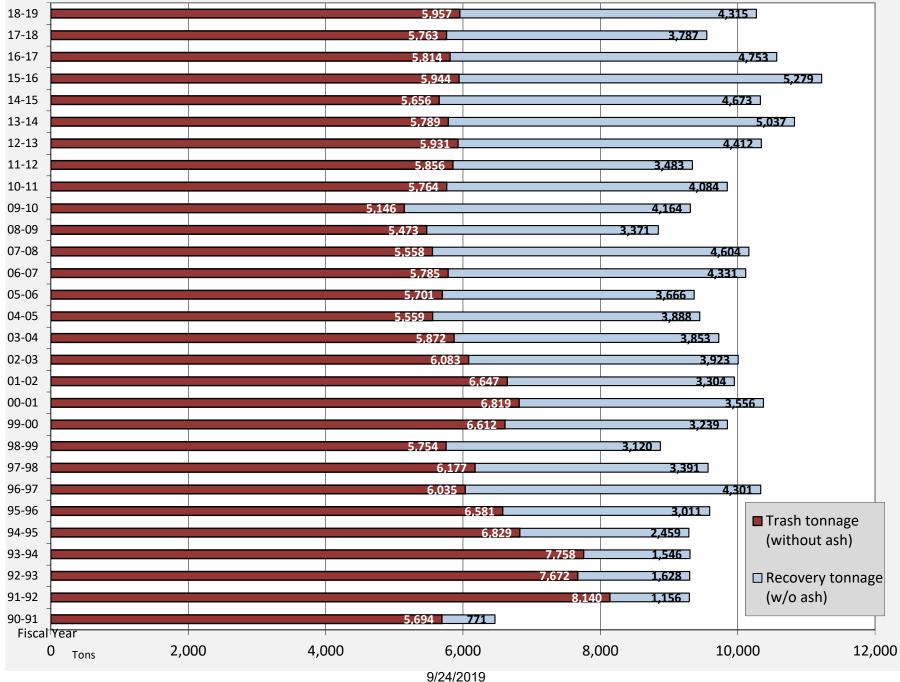
POLYSTYRENE (loose)	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Y-T-D Tons	0.00	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Last Year Monthly Tons	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Incr./Decr. Monthly	0%	N/A	N/A	0%	0%	0%	0%	0%	0%	0%	0%	0%
		•		-			•		-			
PRINTER CARTRIDGES	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	0.00	0.19	0.07	0.13	0.83	1.09	0.80	0.64	0.20
Y-T-D Tons	0.00	0.00	0.00	0.00	0.19	0.26	0.39	1.22	2.31	3.11	3.75	3.95
Last Year Monthly Tons	0.00	4.40	0.00	0.00	5.60	0.00	0.00	5.20	0.00	0.00	3.20	0.00
% Incr./Decr. Monthly	0%	N/A	0%	0%	-97%	N/A	N/A	-84%	N/A	N/A	-80%	N/A

TIRES	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	1.44	0.00	0.00	1.48	0.00	1.78	0.00	0.00	0.00	0.00	0.00
Y-T-D Tons	0.00	1.44	1.44	1.44	2.92	2.92	4.70	4.70	4.70	4.70	4.70	4.70
Last Year Monthly Tons	1.28	1.73	1.26	1.24	0.00	0.00	1.72	0.00	0.00	0.43	0.00	0.00
% Incr./Decr. Monthly	N/A	-17%	N/A	N/A	N/A	0%	3%	0%	0%	N/A	0%	0%

	OTHER TOTALS													
(note: scrap metal, surplus and concrete/brick have been moved to the C&D page)														
OTHER TOTAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19		
Monthly Tons	17.55	22.52	24.01	21.83	16.89	16.85	19.35	30.95	31.21	23.50	30.10	50.36		
Y-T-D Tons	17.55	40.06	64.07	85.90	102.79	119.64	138.99	169.94	201.14	224.64	254.74	305.10		
Last Year Monthly Tons	15.78	29.12	17.29	32.20	25.67	8.05	15.73	34.25	31.69	26.44	18.59	19.24		
% Incr./Decr. Monthly	11%	-23%	39%	-32%	-34%	109%	23%	-10%	-2%	-11%	62%	162%		

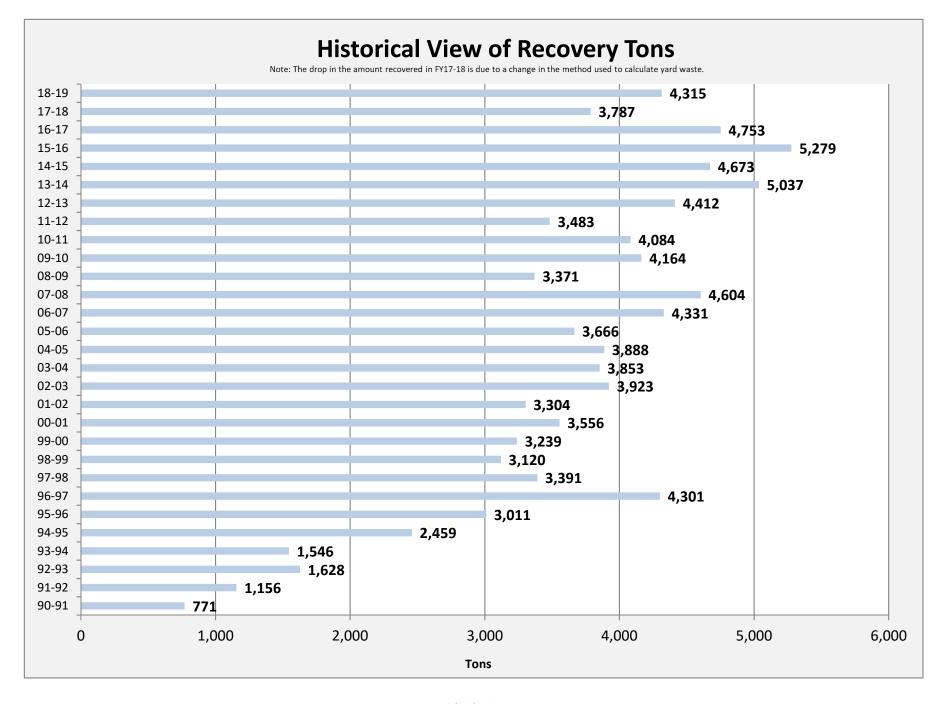
Recovery Rate History





UNC-Chapel Hill Waste Landfill & Recovery Trends (without Coal Ash)

OWRR 18-19, Landfill and Recovery Trend



9/24/2019 OWRR 18-19, Recovery Tons History

	FISCAL TEAR 2018-19 WASTE RECOVERT TREND REPORT											
					SOLID WAS							
MSW FRONT LOAD	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	199.81	288.84	252.76	301.38	272.96	209.42	232.64	242.68	238.38	263.87	258.27	187.54
Y-T-D Tons	199.81	488.65	741.41	1,042.79	1,315.75	1,525.17	1,757.81	2,000.49	2,238.87	2,502.74	2,761.01	2948.55
Last Year Monthly Tons	177.6	235.16	274.21	277.69	239.92	199.4	217.16	238.79	252.95	294.07	288.61	212.32
% Incr./Decr. Monthly	13%	23%	-8%	9%	14%	5%	7%	2%	-6%	-10%	-11%	-12%
MSW ROLLOFF	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Waste Industries Hauled	132.97	195.71	197.41	213.54	175.43	124.07	177.67	177.52	151.29	180.42	267.01	239.34
OWRR Hauled	0.00	0.69	2.16	0.48	0.00	0.00	0.00	0.00	0.67	0.00	24.79	2.57
Monthly Tons	132.97	196.40	199.57	214.02	175.43	124.07	177.67	177.52	151.96	180.42	291.80	241.91
Y-T-D Tons	132.97	329.37	528.94	742.96	918.39	1,042.46	1,220.13	1,397.65	1,549.61	1,730.03	2,021.83	2,263.74
Last Year Monthly Tons	124.75	199.01	201.75	187.49	169.83	138.24	153.28	174.77	209.88	178.33	212.42	178.33
% Incr./Decr. Monthly	7%	-1%	-1%	14%	3%	-10%	16%	2%	-28%	1%	37%	36%
ι			* 9/17 tons a	djusted. Data e	ntry error.							
MSW REAR LOAD	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	4.01	0.00	11.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Y-T-D Tons	0.00	0.00	4.01	4.01	15.58	15.58	15.58	15.58	15.58	15.58	15.58	15.58
Last Year Monthly Tons	0	0	14.96	6.83	4.3	0	0	0	0	0	0	0
% Incr./Decr. Monthly	0%	0%	-73%	N/A	169%	0%	0%	0%	0%	0%	0%	0%
·		•					•					
ANIMAL BEDDING	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons Gen Med	15.77	18.06	18.83	16.97	14.17	13.35	18.21	19.41	24.98	19.09	22.78	18.60
Bingham Facility	4.37	4.95	5.39	4.09	3.92	3.73	4.27	4.71	3.94	3.59	3.58	5.21
MEJ Facility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Monthly Tons Rear Load	22.00	23.48	26.87	25.00	22.57	21.55	26.26	22.71	23.59	24.54	19.68	21.24
Monthly Tons	42.14	46.49	51.09	46.06	40.66	38.63	48.74	46.83	52.51	47.22	46.04	45.05
Y-T-D Tons	42.14	88.63	139.72	185.78	226.44	265.07	313.81	360.64	413.15	460.37	506.41	551.46
Last Year Monthly Tons	40.58	46.51	47.9	40.47	40.73	28.38	36.85	37.1	63.98	49.72	43.39	50.55
% Incr./Decr. Monthly	4%	0%	7%	14%	0%	36%	32%	26%	-18%	-5%	6%	-11%
MSW TOTAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	374.92	531.73	507.43	561.46	500.62	372.12	459.05	467.03	442.85	491.51	596.11	474.50
Y-T-D Tons	374.92	906.65	1,414.08	1,975.54	2,476.16	2,848.28	3,307.33	3,774.36	4,217.21	4,708.72	5,304.83	5,779.33
Last Year Monthly Tons	342.93	480.68	538.82	512.48	454.78	366.02	407.29	450.66	526.81	522.12	544.42	441
% Incr./Decr. Monthly	9%	11%	-6%	10%	10%	2%	13%	4%	-16%	-6%	9%	8%
			-									

					COAL	ASH						
RECYCLED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Y-T-D Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Last Year Monthly Tons	0	0	0	0	0	0	0	0	0	0	0	0
% Incr./Decr. Monthly	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	-							-			-	
COMPOSTED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Y-T-D Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Last Year Monthly Tons	0	0	0	0	0	0	0	0	0	0	0	0
% Incr./Decr. Monthly	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
REUSED*	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	1,218.51	1,316.14	1,357.40	1,546.81	1,851.31	2,126.23	3,145.30	2,503.36	2,353.65	1,787.22	1,290.66	27.97
Y-T-D Tons	1,218.51	2,534.65	3,892.05	5,438.86	7,290.17	9,416.40	12,561.70	15,065.06	17,418.71	19,205.93	20,496.59	20,524.56
Last Year Monthly Tons	1,272.87	1,460.93	1,222.60	1,285.74	1,802.07	2,275.77	3,336.04	2,142.61	1,832.03	1,053.59	1,100.33	1,532.67
% Incr./Decr. Monthly	-4%	-10%	11%	20%	3%	-7%	-6%	17%	28%	70%	17%	-0.98
P												
LANDFILLED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Y-T-D Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Last Year Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Incr./Decr. Monthly	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
COAL ASH TOTAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	1,218.51	1,316.14	1,357.40	1,546.81	1,851.31	2,126.23	3,145.30	2,503.36	2,353.65	1,787.22	1,290.66	27.97
Y-T-D Tons	1,218.51	2,534.65	3,892.05	5 <i>,</i> 438.86	7,290.17	9,416.40	12,561.70	15,065.06	17,418.71	19,205.93	20,496.59	20,524.56
Last Year Monthly Tons	1,272.87	1,460.93	1,222.60	1,285.74	1,802.07	2,275.77	3,336.04	2,142.61	1,832.03	1,053.59	1,100.33	1,532.67
% Incr./Decr. Monthly	-4%	-10%	11%	20%	3%	-7%	-6%	17%	28%	70%	17%	-0.98
Last Y-T-D Tons	1,272.87	2,733.80	3,956.40	5,242.14	7,044.21	9,319.98	12,656.02	14,798.63	16,630.66	17,684.25	18,784.58	20,317.25
% Incr./Decr. YTD	-4%	-7%	-2%	4%	3%	1%	-1%	2%	5%	9%	9%	1%

Recycled: Made into new products like concrete or absorbant (Mintek)

*Reused: Can be used for structural fill, alternative daily cover at landfills, sand replacement in boiler start up, and sometimes beneficial fill.

Composted: Made into a new product via decomposition or compost processing.

Landfilled: Buried as waste.

	TOTAL SOLID WASTE LANDFILLED (MSW and C&D)													
TOTAL SW LANDFILLED														
MSW and C&D	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19		
Monthly Tons	416.26	553.26	519.34	566.67	506.64	382.82	491.53	472.82	457.62	498.32	605.53	485.77		
Last Year Monthly Tons	347.70	491.92	545.36	524.09	461.12	368.60	411.88	464.96	532.35	526.43	550.86	459.81		
% Incr./Decr. MONTH	20%	12%	-5%	8%	10%	4%	19%	2%	-14%	-5%	10%	6%		
Y-T-D Tons	416.26	969.52	1,488.86	2,055.53	2,562.17	2,944.98	3,436.51	3,909.33	4,366.94	4,865.26	5,470.79	5,956.56		
Last Y-T-D Tons	347.70	839.62	1,384.98	1,909.07	2,370.19	2,738.79	3,150.67	3,615.63	4,147.98	4,674.41	5,225.27	5,685.08		
% Incr./Decr. YTD	20%	15%	8%	8%	8%	8%	9%	8%	5%	4%	5%	5%		

	TOTAL WASTE RECYCLED (ALL SOURCES, EXCEPT COAL ASH)													
TOTAL SW RECYCLED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19		
Monthly Tons	175.09	231.40	357.06	332.38	466.34	408.84	428.60	408.81	185.92	200.79	272.46	201.03		
Last Year Monthly Tons	230.23	335.91	354.57	288.40	224.41	279.40	262.58	208.88	232.13	329.23	299.96	190.23		
% Incr./Decr. MONTH	-24%	-31%	1%	15%	108%	46%	63%	96%	-20%	-39%	-9%	6%		
Y-T-D Tons	175.09	406.49	763.55	1,095.93	1,562.27	1,971.10	2,399.70	2,808.51	2,994.43	3,195.22	3,467.68	3,668.72		
Last Y-T-D Tons	230.23	566.14	920.71	1,209.11	1,433.52	1,712.92	1,975.49	2,184.37	2,416.50	2,745.73	3,045.69	3,235.92		
% Incr./Decr. YTD	-24%	-28%	-17%	-9%	9%	15%	21%	29%	24%	16%	14%	13%		

	TOTAL WASTE GENERATED = LANDFILLED + RECYCLED (not including coal ash)														
TOTAL SW COMPOSTED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19			
Monthly Tons	23.05	59.29	74.11	71.50	58.51	39.85	59.23	65.81	52.96	72.57	38.41	30.87			
Last Year Monthly Tons	27.70	41.85	104.44	99.03	97.41	51.53	56.41	74.52	64.65	76.24	34.75	32.21			
% Incr./Decr. MONTH	-17%	42%	-29%	-28%	-40%	-23%	5%	-12%	-18%	-5%	11%	-4%			
Y-T-D Tons	23.05	82.34	156.45	227.94	286.46	326.31	385.54	451.35	504.32	576.89	615.30	646.17			
Last Y-T-D Tons	27.70	69.55	173.99	273.02	370.43	421.96	478.37	552.89	617.54	693.78	728.53	760.75			
% Incr./Decr. YTD	-17%	18%	-10%	-17%	-23%	-23%	-19%	-18%	-18%	-17%	-16%	-15%			

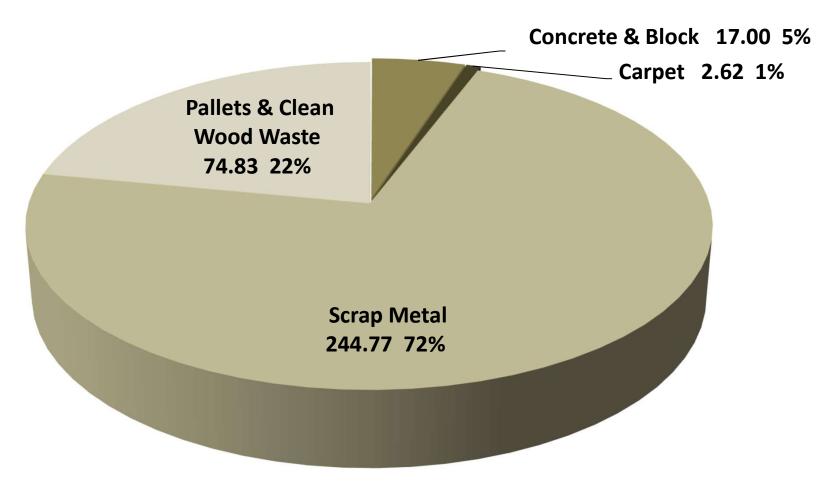
	TOTAL WASTE GENERATED = LANDFILLED + RECYCLED (not including coal ash)													
TOTAL WASTE GENERATED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19		
Monthly Tons	614.40	843.95	950.50	970.54	1031.49	831.50	979.36	947.44	696.50	771.69	916.40	717.67		
Last Year Monthly Tons	605.63	869.68	1004.37	911.52	782.94	699.53	730.87	748.36	829.13	931.90	885.57	682.26		
% Incr./Decr. MONTH	1%	-3%	-5%	6%	32%	19%	34%	27%	-16%	-17%	3%	5%		
Y-T-D Tons	614.40	1,458.35	2,408.86	3,379.40	4,410.89	5,242.39	6,221.76	7,169.19	7,865.69	8,637.37	9,553.77	10,271.45		
Last Y-T-D Tons	605.63	1,475.31	2,479.68	3,391.21	4,174.14	4,873.67	5,604.54	6,352.89	7,182.02	8,113.92	8,999.50	9,681.75		
% Incr./Decr. YTD	1%	-1%	-3%	0%	6%	8%	11%	13%	10%	6%	6%	6%		

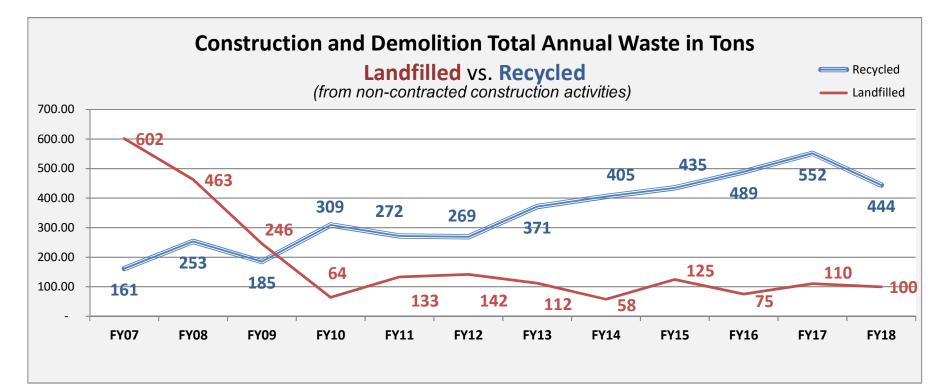
	% RECOVERED = (Recycled+Composted)/Total Waste Generated (not including coal ash)													
MONTHLY % RECOVERED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19		
Monthly Tons	198.14	290.69	431.16	403.87	524.86	448.69	487.83	474.62	238.88	273.37	310.87	231.90		
Last Year Monthly Tons	257.93	377.76	459.01	387.43	321.82	330.93	318.99	283.40	296.78	405.47	334.71	222.45		
Current Yr. Monthly % Recovered	32%	34%	45%	42%	51%	54%	50%	50%	34%	35%	34%	32%		
Previous Year Monthly % Recovered	43%	43%	46%	43%	41%	47%	44%	38%	36%	44%	38%	33%		
% Incr./Decr. MONTH	-24%	- 2 1%	-1%	-2%	24%	14%	14%	32%	-4%	-19%	-10%	-1%		
Current YTD % Recovered	32%	34%	38%	39%	42%	44%	45%	45%	44%	44%	43%	42%		
Last YTD % Recovered	43%	43%	44%	44%	43%	44%	44%	43%	42%	42%	42%	41%		
% Incr./Decr. YTD	-24%	-22%	-13%	-10%	-3%	0%	2%	6%	5%	3%	2%	2%		

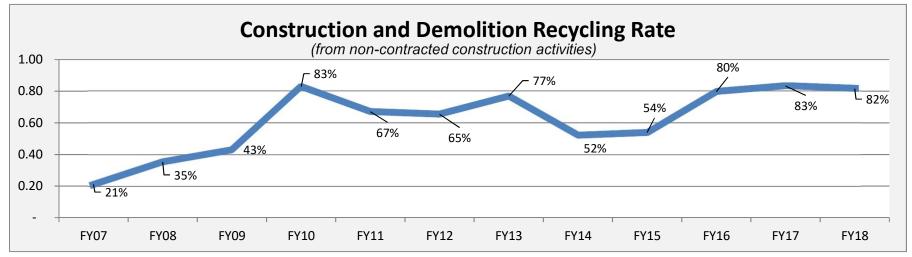
2018-19

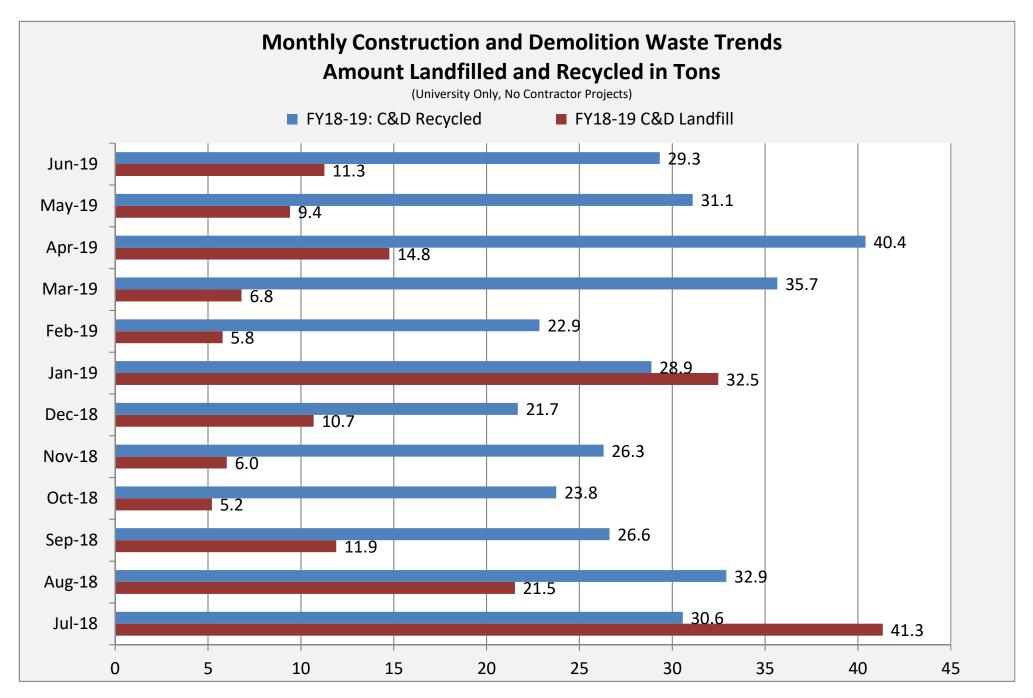
Source Separated Construction and Demolition Recycling

(from non-contracted construction activities)



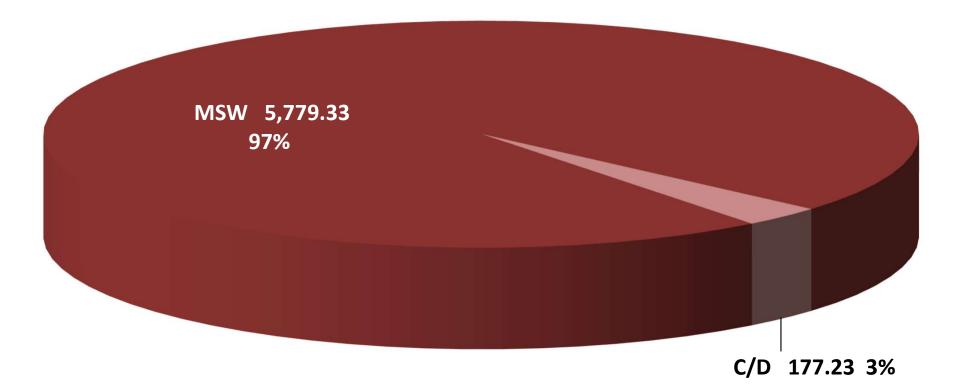






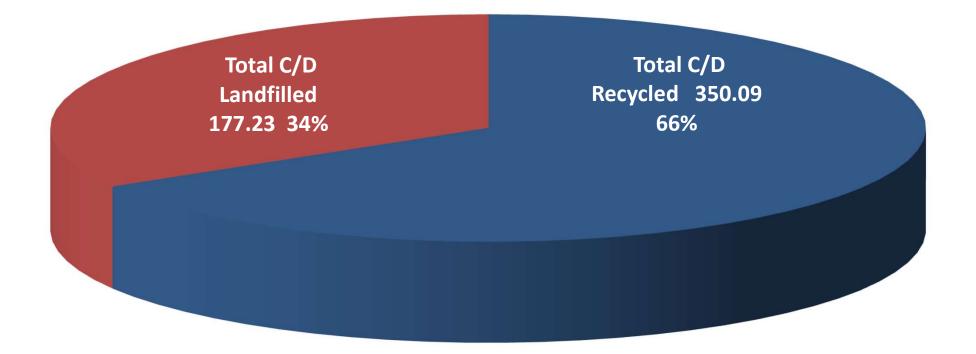
C/D Waste Landfilled, tons 2018-19

Note: The Construction and Demolition Landfill figure includes the amount disposed by Material Recovery Facilities (MRFs) based on the overall disposal percentages reported by the facilities used.

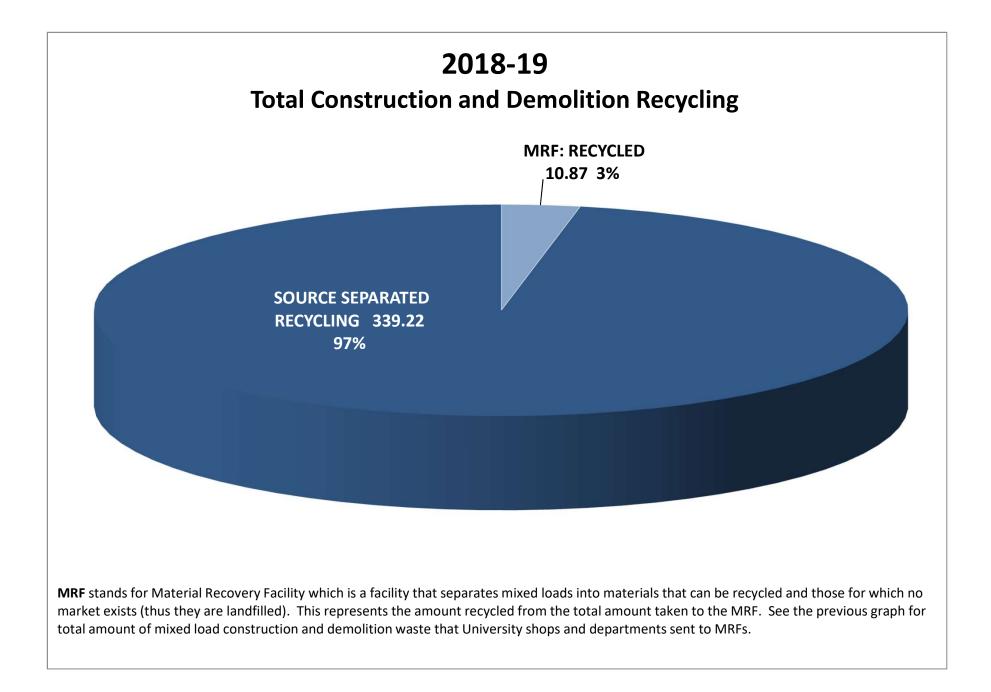


(from non-contracted construction activities)

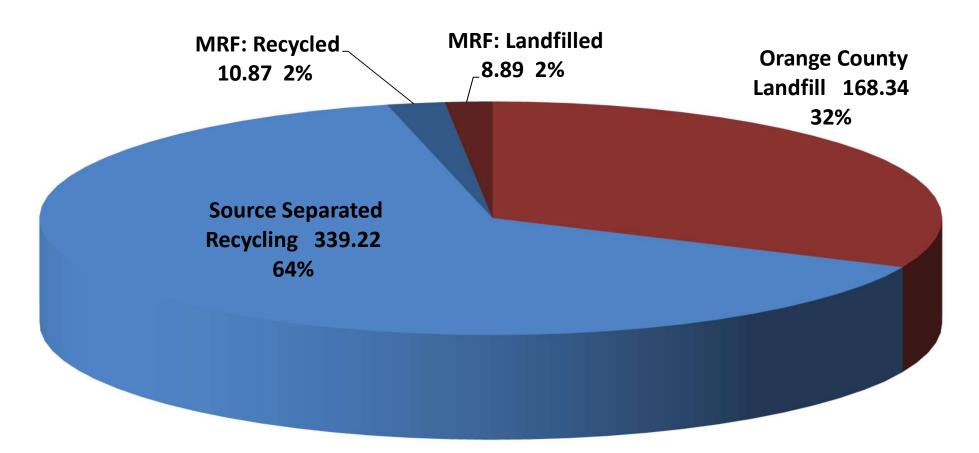
2018-19 Construction and Demolition Waste *in tons* Campus Operations, Maintenance, Repair and In-House Construction Activities



(from non-contracted construction activities)

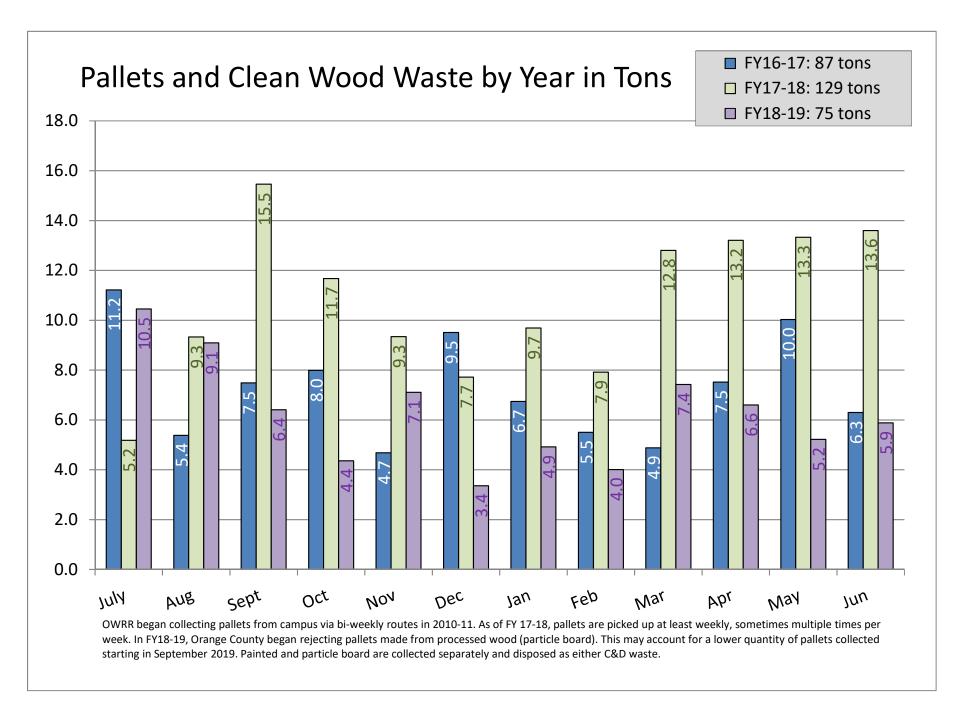


Construction and Demolition Waste Management Source Separation, Mixed Load Processing (MRF), & Landfill



MRF stands for Material Recovery Facility which is a facility that separates mixed loads into materials that can be recycled and those for which no market exists (thus they are landfilled).

Note: A mixed load may contain construction and demolition waste (which is landfilled) AND materials that can be recycled (clean wood waste, pallets, scrap metal, concrete and brick, and other materials of value.) *(from non-contracted construction activities)*



					SCRAP MET	AL						
BALLASTS	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	1.22	0.00	1.06	0.00	0.00	0.00	0.83	0.00	0.00	2.68	0.00	0.00
Y-T-D Tons	1.22	1.22	2.28	2.28	2.28	2.28	3.11	3.11	3.11	5.79	5.79	5.79
Last Year Monthly Tons	0.84	0.00	1.32	0.00	0.00	0.00	0.00	2.90	0.00	0.00	1.24	0.00
% Incr./Decr. Monthly	45%	0%	-20%	0%	0%	0%	N/A	N/A	0%	N/A	N/A	0%
	-	-	-									
SCRAP METAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	18.90	23.82	19.15	18.20	16.94	8.84	21.53	17.76	17.79	31.13	22.47	22.45
Y-T-D Tons	18.90	42.72	61.87	80.07	97.01	105.85	127.38	145.14	162.93	194.06	216.53	238.98
Last Year Monthly Tons	22.09	29.89	25.19	22.30	21.42	15.20	17.90	20.15	32.28	20.85	38.89	25.05
% Incr./Decr. Monthly	-14%	-20%	-24%	-18%	-21%	-42%	20%	-12%	-45%	49%	-42%	-10%
		-										
METAL TOTAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	20.12	23.82	20.21	18.20	16.94	8.84	22.36	17.76	17.79	33.81	22.47	22.45
Y-T-D Tons	20.12	43.94	64.15	82.35	99.29	108.13	130.49	148.25	166.04	199.85	222.32	244.77
Last Year Monthly Tons	22.93	29.89	26.51	22.30	21.42	15.20	17.90	23.05	32.28	20.85	40.13	25.05
% Incr./Decr. Monthly	-12%	-20%	-24%	-18%	-21%	-42%	25%	-23%	-45%	62%	-44%	-10%
			PALL	ETS AND CLE	AN WOOD	SOURCE SEP	ARATED					
PALLETS & CLEAN WOOD	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	10.45	9.09	6 4 1	4 36	7 1 1	3 36	4 92	4 01	7 4 2	6 60	5 2 2	5.88

FISCAL YEAR 2018-19 WASTE RECOVERY TREND REPORT

SOURCE SEPARATED CONSTRUCTION AND DEMOLITION MATERIALS (RECYCLED)

PALLETS AND CLEAN WOODSOURCE SEPARATED												
PALLETS & CLEAN WOOD	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	10.45	9.09	6.41	4.36	7.11	3.36	4.92	4.01	7.42	6.60	5.22	5.88
Y-T-D Tons	10.45	19.54	25.95	30.31	37.42	40.78	45.70	49.71	57.13	63.73	68.95	74.83
Last Year Monthly Tons	5.18	9.33	15.46	11.67	9.34	7.72	9.69	7.92	12.80	13.21	13.33	13.60
% Incr./Decr. Monthly	102%	-3%	-59%	-63%	-24%	-56%	-49%	-49%	-42%	-50%	-61%	-57%

CONCRETE AND BRICKSOURCE SEPARATED												
CONCRETE & BRICK	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	8.00	0.00	0.00	1.00
Y-T-D Tons	0.00	0.00	0.00	0.00	0.00	8.00	8.00	8.00	16.00	16.00	16.00	17.00
Last Year Monthly Tons	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	2.79	0.00	0.00
% Incr./Decr. Monthly	0%	0%	0%	0%	N/A	N/A	0%	0%	N/A	N/A	0%	N/A

MISCELLANEOUSSOURCE SEPARATED												
CARPET	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.62	0.00
Y-T-D Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.62	2.62
Last Year Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Incr./Decr. Monthly	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	ast Year This	0%
CEILING TILES	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Y-T-D Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Last Year Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Incr./Decr.	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MISC TOTAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.62	0.00
Y-T-D Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.62	2.62
Last Year Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Incr./Decr. Monthly	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	ast Year This	0%
SOURCE SEPARATED TOTAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	30.57	32.91	26.62	22.56	24.05	20.20	27.28	21.77	33.21	40.41	30.31	29.33
Y-T-D Tons	30.57	63.48	90.10	112.66	136.71	156.91	184.19	205.96	239.17	279.58	309.89	339.22
Last Year Monthly Tons	28.11	39.22	41.97	33.97	31.76	22.92	27.59	30.97	45.08	36.85	53.46	38.65
% Incr./Decr. Monthly	9%	-16%	-37%	-34%	-24%	-12%	-1%	-30%	-26%	10%	-43%	-24%

		NON-MS	W LANDFILL	S (Construct	ion/Demoliti	on or Land C	learing and I	nert Debris)				
			CONSTRUCT	ION AND DE	MOLITION L	ANDFILL (OR	ANGE COUN	TY)				
WI	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-1
Monthly Tons	1.75	0.00	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Y-T-D Tons	1.75	1.75	1.75	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.5
Last Year Monthly Tons	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12	0.00	0.00	0.0
% Incr./Decr. Monthly	N/A	0%	0%	N/A	0%	0%	0%	0%	N/A	0%	0%	0%
UNC												
(UNC trucks & rolloffs)	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-
Monthly Tons	39.59	21.53	11.91	1.41	4.17	9.48	31.17	4.90	12.76	6.81	8.77	11.2
Y-T-D Tons	39.59	61.12	73.03	74.44	78.61	88.09	119.26	124.16	136.92	143.73	152.50	163.
Last Year Monthly Tons	4.77	10.08	6.54	11.61	6.34	2.12	4.59	8.47	2.42	4.31	5.44	17.6
% Incr./Decr. Monthly	730%	114%	82%	-88%	-34%	347%	579%	-42%	427%	58%	61%	-369
		•		•					•			
TOTAL Orange County C&D												
Landifill	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-:
Monthly Tons	11 21	21 52	11.01	1 22	117	0.49	21 17	1 00	12.76	6.01	0 77	11.2

Landifill	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	41.34	21.53	11.91	4.23	4.17	9.48	31.17	4.90	12.76	6.81	8.77	11.27
Y-T-D Tons	41.34	62.87	74.78	79.01	83.18	92.66	123.83	128.73	141.49	148.30	157.07	168.34
Last Year Monthly Tons	4.77	10.08	6.54	11.61	6.34	2.12	4.59	8.47	4.54	4.31	5.44	17.61
% Incr./Decr. Monthly	767%	114%	82%	-64%	-34%	347%	579%	-42%	181%	58%	61%	-36%

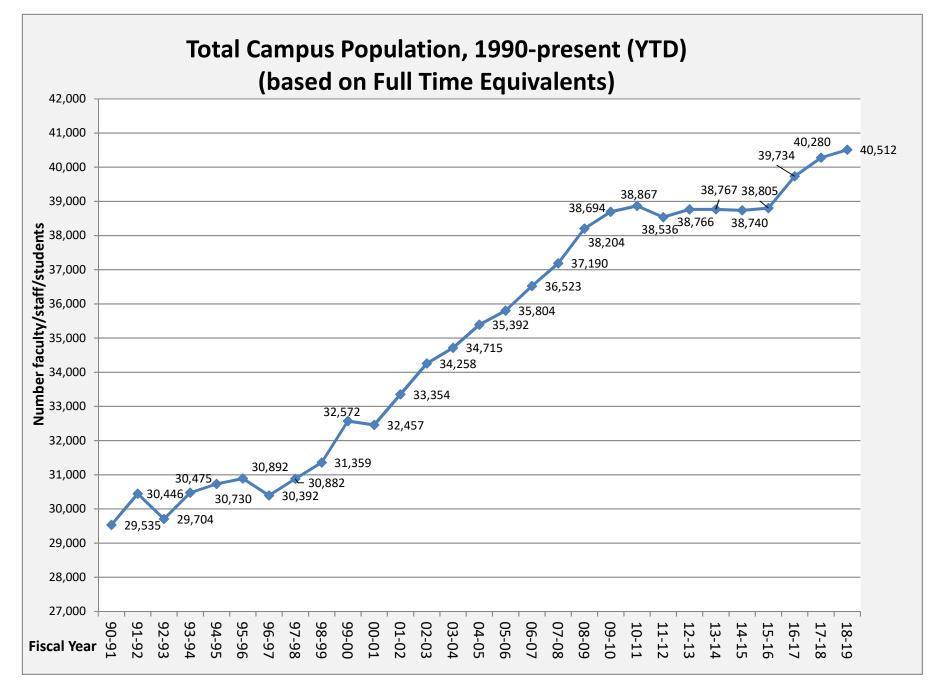
2018-19 note: ME room clean up project. Also, Orange County rejects particle board pallets for recycling and directs them to the C&D landfill for disposal.

MIXED LOAD CONSTRUCTION WASTE PROCESSING FACILITIES (MRF)												
Wake Reclamation (Owned by Waste Industries) - 421 Raleigh View Rd., Raleigh												
Wake ReclamationMRF	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	2.18	4.10	2.70	2.91	1.97	4.46	0.00	1.44	0.00
Y-T-D Tons	0.00	0.00	0.00	2.18	6.28	8.98	11.89	13.86	18.32	18.32	19.76	19.76
Last Year Monthly Tons	0.00	2.58	0.00	0.00	0.00	2.30	0.00	7.71	2.44	0.00	8.04	3.58
% Incr./Decr. Monthly	0%	N/A	0%	N/A	N/A	17%	N/A	-74%	83%	0%	-82%	N/A

RECYCLING (55% of total)	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	1.20	2.26	1.49	1.60	1.08	2.45	0.00	0.79	0.00
Y-T-D Tons	0.00	0.00	0.00	1.20	3.45	4.94	6.54	7.62	10.08	10.08	10.87	10.87
Last Year Monthly Tons	0.00	1.42	0.00	0.00	0.00	1.84	0.00	1.88	1.44	0.00	7.04	2.58
% Incr./Decr. Monthly	0%	N/A	0%	N/A	N/A	-19%	N/A	-42%	70%	0%	-89%	N/A

LANDFILL (45% of total)	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	0.98	1.85	1.22	1.31	0.89	2.01	0.00	0.65	0.00
Y-T-D Tons	0.00	0.00	0.00	0.98	2.83	4.04	5.35	6.24	8.24	8.24	8.89	8.89
Last Year Monthly Tons	0.00	1.16	0.00	0.00	0.00	0.46	0.00	5.83	1.00	0.00	1.00	1.00
% Incr./Decr. Monthly	0%	N/A	0%	N/A	N/A	164%	N/A	-85%	101%	0%	-35%	N/A

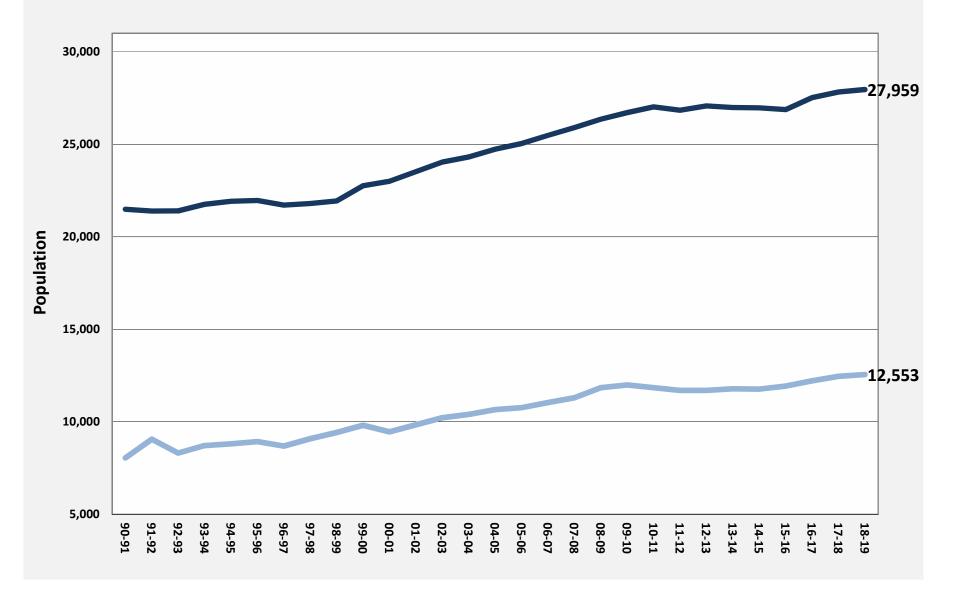
			MIXE		STRUCTION	WASTE PRO	CESSING					
	This section t	otals all C&D	MRFs used.	If others are	used, expan	d section abo	ove and ente	r data for th	e specific fac	ility.)		
				TOTAL RE	CYCLED AND	LANDFILLED)					
TOTAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Tons	0.00	0.00	0.00	2.18	4.10	2.70	2.91	1.97	4.46	0.00	1.44	0.00
Y-T-D Tons	0.00	0.00	0.00	2.18	6.28	8.98	11.89	13.86	18.32	18.32	19.76	19.76
% Incr./Decr. Monthly	0%	0%	0%	N/A	N/A	N/A	N/A	N/A	N/A	0%	N/A	0%
Last Year Monthly Tons	0.00	2.58	2.58	2.58	2.58	4.88	4.88	12.59	15.03	15.03	23.07	26.65
MRF RECYCLE TOTAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-1
Monthly Tons	0.00	0.00	0.00	1.20	2.26	1.49	1.60	1.08	2.45	0.00	0.79	0.00
Y-T-D Tons	0.00	0.00	0.00	1.20	3.45	4.94	6.54	7.62	10.08	10.08	10.87	10.8
Last Year Monthly Tons	0.00	1.42	0.00	0.00	0.00	1.84	0.00	1.88	1.44	0.00	7.04	2.58
% Incr./Decr. Monthly	0%	N/A	0%	N/A	N/A	-19%	N/A	-42%	70%	0%	-89%	N/A
	·	-				-						
MRF LANDFILL TOTAL	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-1
Monthly Tons	0.00	0.00	0.00	0.98	1.85	1.22	1.31	0.89	2.01	0.00	0.65	0.00
Y-T-D Tons	0.00	0.00	0.00	0.98	2.83	4.04	5.35	6.24	8.24	8.24	8.89	8.89
Last Year Monthly Tons	0.00	1.16	0.00	0.00	0.00	0.46	0.00	5.83	1.00	0.00	1.00	1.00
% Incr./Decr. Monthly	0%	N/A	0%	N/A	N/A	164%	N/A	-85%	101%	0%	-35%	N/A
		-										
		CONSTRUCT	ION AND DE	MOLITION W	ASTE TOTAL	SAMOUNT	RECYCLED A	ND LANDFILI	LED			
TOTAL C&D LANDFILLED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-1
Monthly Tons	41.34	21.53	11.91	5.21	6.02	10.70	32.48	5.79	14.77	6.81	9.42	11.27
Y-T-D Tons	41.34	62.87	74.78	79.99	86.01	96.70	129.18	134.97	149.73	156.54	165.96	177.2
Last Year Monthly Tons	4.77	11.24	6.54	11.61	6.34	2.58	4.59	14.30	5.54	4.31	6.44	18.63
% Incr./Decr. Monthly	767%	92%	82%	-55%	-5%	315%	608%	-60%	167%	58%	46%	-39%
	_											
TOTAL C&D RECYCLED	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-1
Monthly Tons	30.57	32.91	26.62	23.76	26.31	21.69	28.88	22.85	35.66	40.41	31.10	29.3
Y-T-D Tons	30.57	63.48	90.10	113.86	140.16	161.85	190.73	213.58	249.25	289.66	320.76	350.0
Last Year Monthly Tons	28.11	40.64	41.97	33.97	31.76	24.76	27.59	32.85	47.52	36.85	56.16	41.69
% Incr./Decr. Monthly	9%	-19%	-37%	-30%	-17%	-12%	5%	-30%	-25%	10%	-45%	-30%



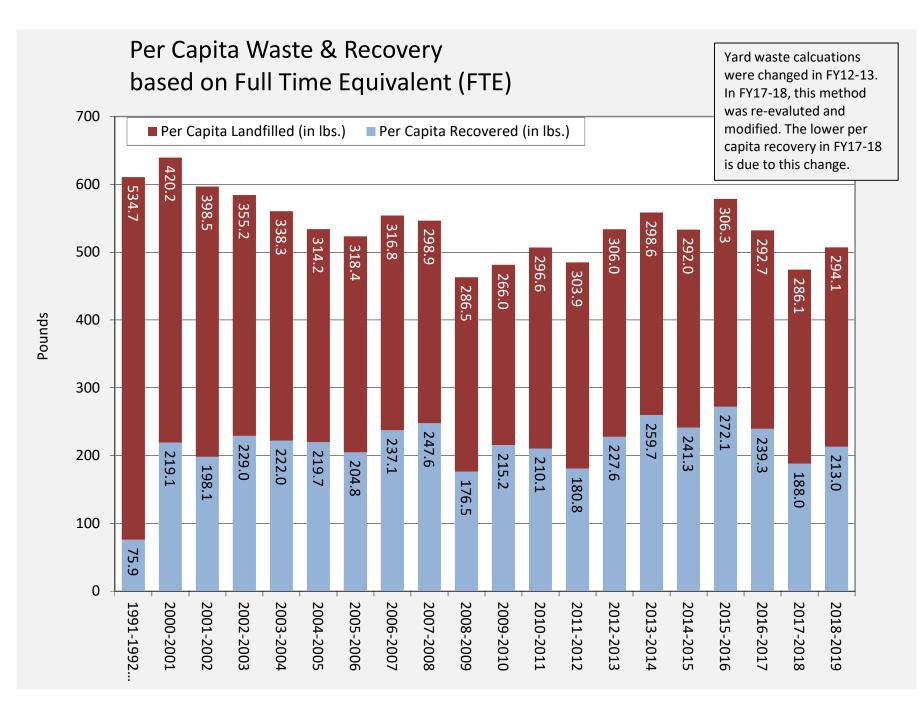
9/24/2019 OWRR 18-19, Total Campus Population

Students (Full Time Equivalent) and Employees FY90-91 to Present

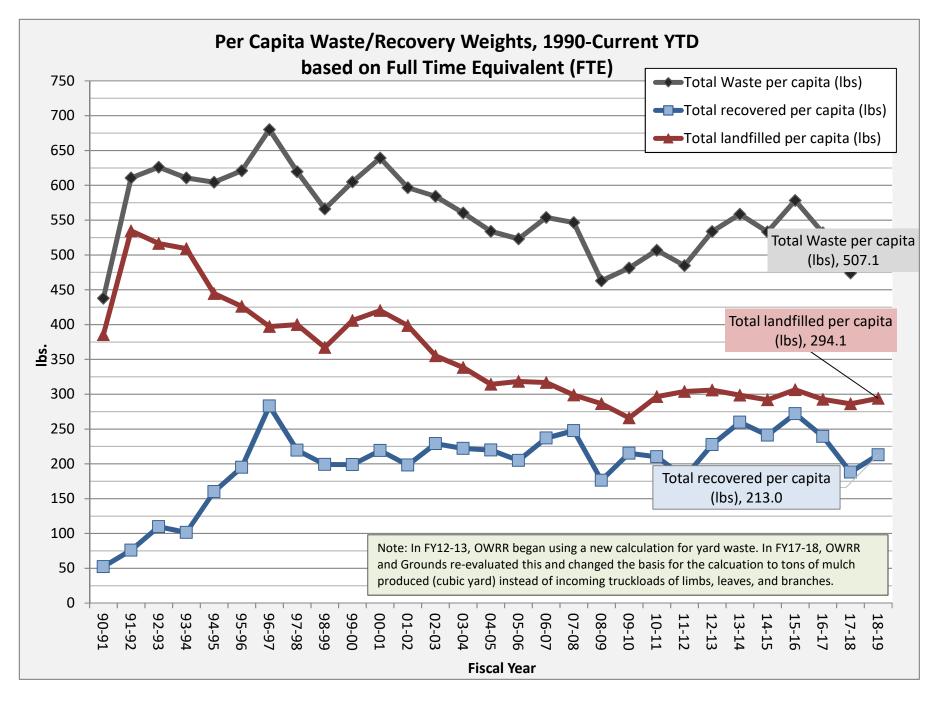
(Source: UNC Office of Institutional Research and Assessment https://oira.unc.edu/reports/)



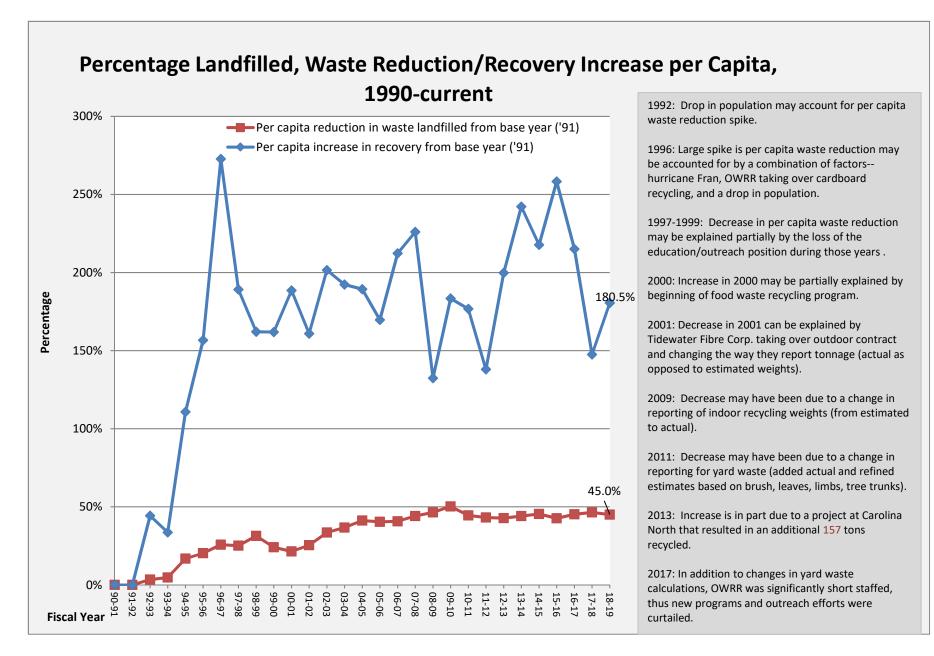
9/24/2019 OWRR 18-19, Employees vs. Students

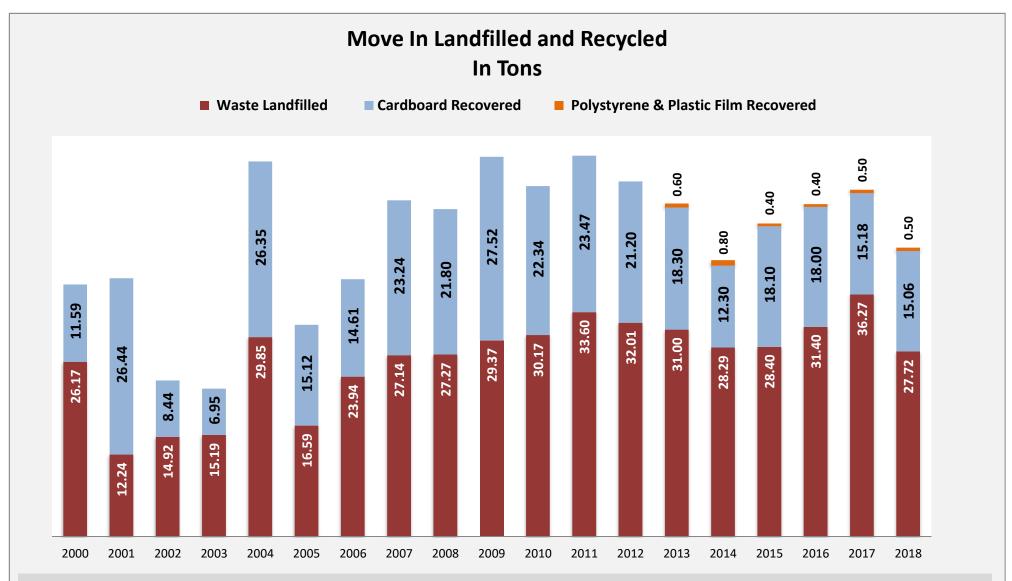


9/24/2019 OWRR 18-19, Per Capita LF and Recovery



9/24/2019 OWRR 18-19, Per Capita Weights



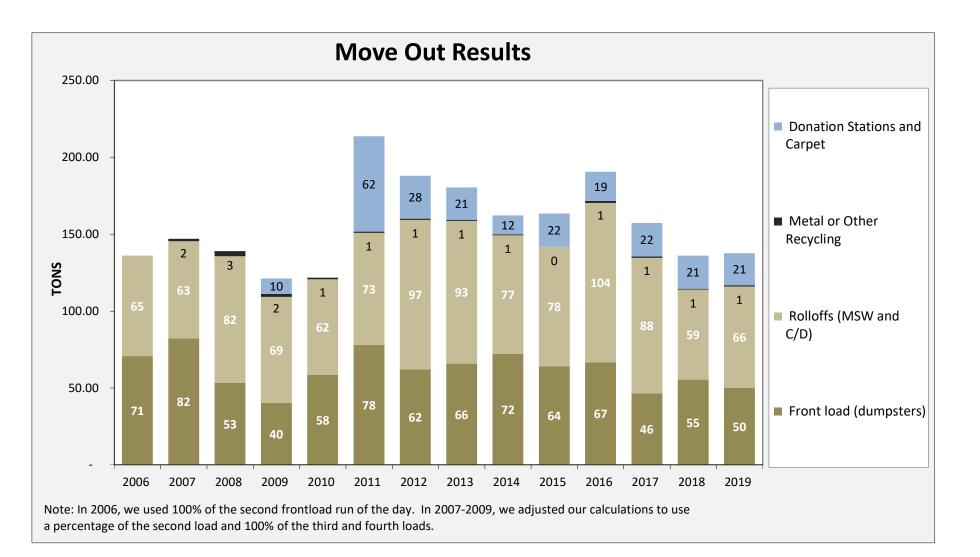


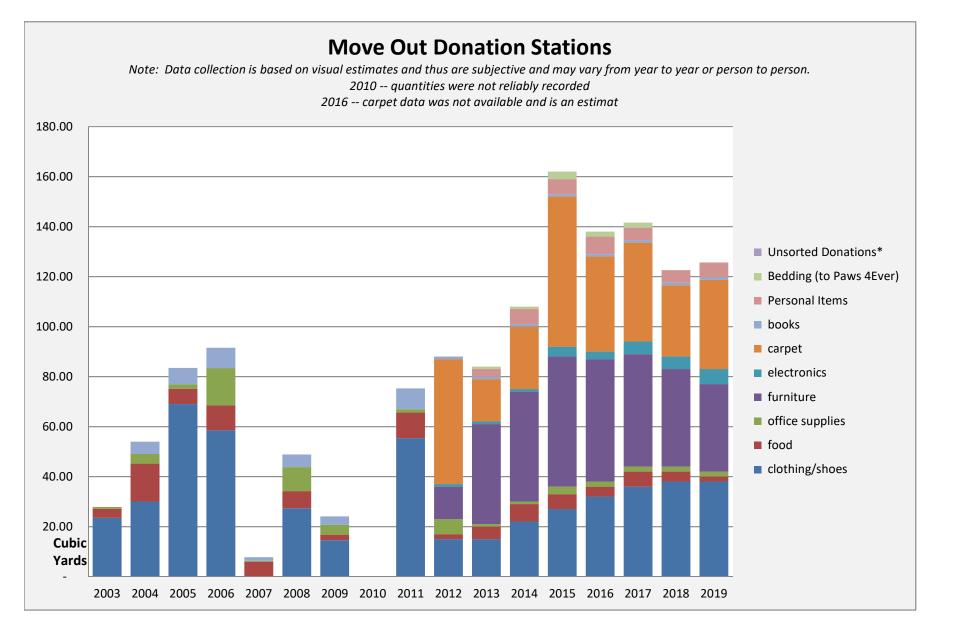
*Tonnages (Landfilled and Cardboard) = all move-in rolloff hauls and front load hauls from second haul during move-in days.

**2000 and 2001 statistics compiled by Matt Todd; 2002-2006 stats compiled by Amy Preble and Jen Maxwell. 2007 & 2008 stats compiled by BJ Tipton

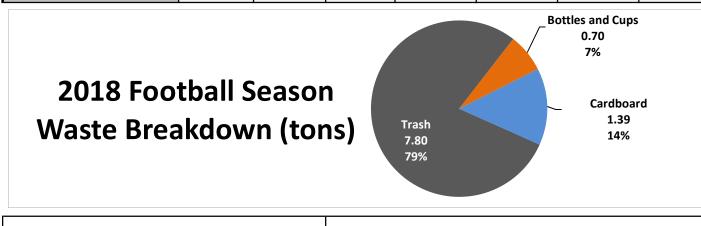
***More data was reported in 2004, due to changes in Waste Industries reporting and their truck making a second route specifically for move-in.

****A standardized formula was used to calculate move-in figures for 2006 - 2008.



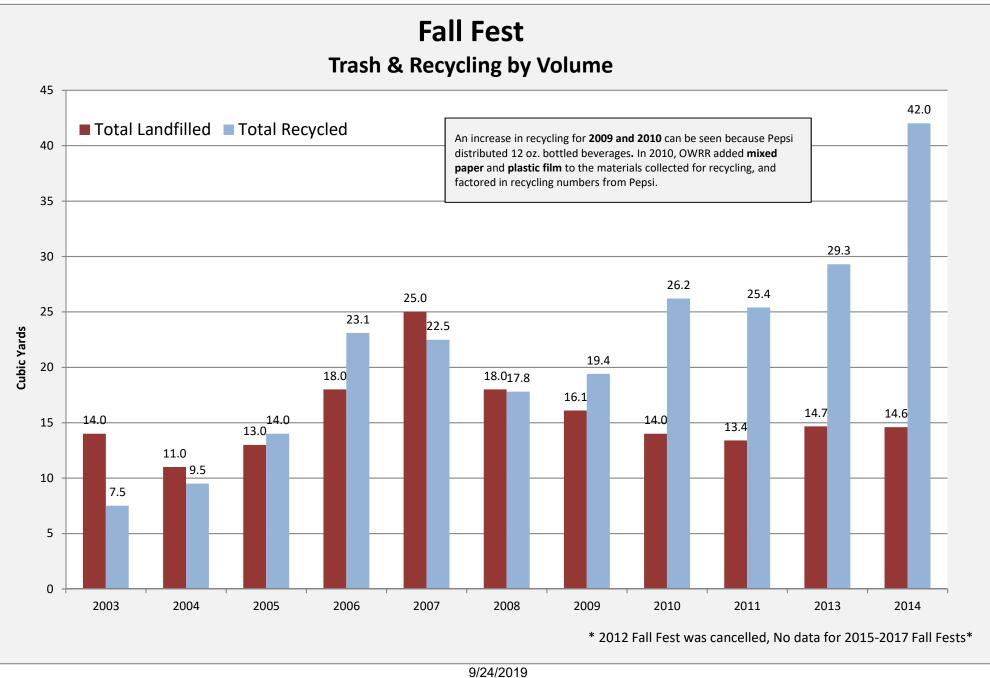


Kenan Football Stadium, Fall 2018: Game Day Waste & Recycling										
Playing Against: Game Time: Approx. Attendance:	UCF cancelled 0	Pitt 12:20 PM 44,168	VT 7:00 PM 50,500	Georgia Tech 12:15 PM 40,782	WCU 3:00 PM 41,151	NC State 12:20 PM 41,510				
Game Date: Kenan Stadium, Loudermilk and Rams Club	9/15/2018	9/22/2018	10/13/2018	,	11/17/2018	11/24/2018		For the Season	Season Average	Season Total
Trash:	0.00	8.53	5.43	8.33	7.46	9.23		Trash	7.80	38.98
Bottles/Cups:	0.00	0.92	0.80	0.60	1.00	0.17		Bottles & Cups:	0.70	3.49
Cardboard:	0.00	0.24	0.38	0.75	1.74	3.86		Cardboard:	1.39	6.97
Total Waste	0.00	9.69	6.61	9.68	10.20	13.26		Total Waste	9.89	49.44
Total Recycled	0.00	1.16	1.18	1.35	2.74	4.03		Recycled	2.09	10.46
% Recycled by Weight		11.97%	17.85%	13.95%	26.86%	30.39%		% Recycled by Weight	20%	21%
Game Day Waste Disposed per Person (in pounds)**		0.44	0.26	0.47	0.50	0.64				

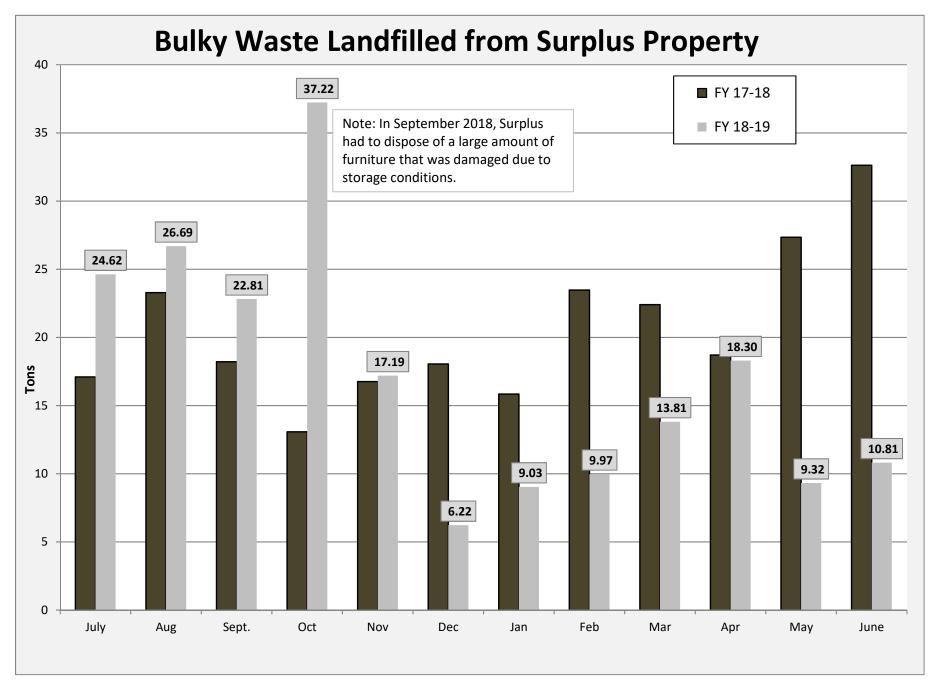


*Data was unavailable for games listing "0 tons recycled"

**"Per person" accounts for stadium fans only - staff, press, team, etc not included in total attendance count.



9/24/2019 OWRR 18-19, Fall Fest



EPA College & University(C/U) Sector Year-to-Date EPA WARM Input Information

			
Material Category As Defined by the US EPA's WARM Model	EPA WARM Definition: http://epa.gov/epawaste/conserve/tools/warm/materials.html	Tons	UNC's Waste Material within EPA Categories:
Corrugated Containers	Corrugated cardboard boxes made from containerboard (liner and corrugating medium) used in packaging applications.	509.7	Corrugated Cardboard collected by Waste Industries
Mixed Paper (primarily from offices)	Office mixed paper is assumed to be 21% newspaper, 5% corrugated cardboard, 36% magazines, and 38% office paper.	571.4	Mixed Paper collected from Shimar, OWRR and Sonoco
Office Paper	Office paper represents paper made from uncoated bleached chemical pulp.	356.3	Confidential Paper as collected by OWRR & Hospital Contractor
Textbooks	Textbooks represent books made from paper produced from chemical pulp.	9.4	Hardback books are collected across campus by OWRR & Shimar
Mixed Plastics	Mixed plastics are made up of 39% HDPE and 61% PET plastic.	83.8	Mixed Plastics collected from Shimar, OWRR and Sonoco
Glass	Glass represents glass containers (e.g., soft drink bottles and wine bottles)	26.6	Glass colected from Shimar, OWRR, and Sonoco
Aluminum Cans	Aluminum cans represent cans produced out of sheet rolled aluminum ingot.	11.0	Aluminum Cans collected from Shimar, OWRR, and Sonoco
Mixed Metals	Mixed metals are made up of 35% aluminum cans and 65% steel cans.	259.4	Mixed Metals collected by EHS, Surplus, Shimar, OWRR and Sonoco
Food Waste	Food waste consists of uneaten food and wasted, prepared food from residences, commercial establishments such as grocery stores and restaurants, institutional sources such as school cafeterias, and industrial sources such as factory lunchrooms. This emission factor contains a weighted average of all food types in the waste stream currently modeled in WARM, including beef, poultry, grains, fruits and vegetables, and dairy products. The mix is assumed to be 9% beef, 11% poultry, 13% grains, 49% fruits and vegetables, and 18% dairy products.	667.6	Food Waste collected by Brooks Contractors *Also includes Cooking Oil from Carolina Dining Services
Yard Trimmings	Yard trimmings are assumed to be 50% grass, 25% leaves, and 25% tree and brush trimmings from residential, institutional, and commercial sources.	855.0	Yard waste, limbs, brush and leaves as collected by UNC's Grounds department and made into mulch.
Leaves	Leaves consist of fallen leaves from deciduous trees recovered from residential, institutional and commercial sources.	580.0	Leaves are ground into a compost/mulch by Grounds.
LDPE	No longer included in warm. Added to Mixed Plastics.	0.0	Plastic Film as collected in the Student Union by OWRR
Polystyrene	No longer included in warm. Added to Mixed Plastics.	0.0	Polystyrene as collected by OWRR during Student Move-In events and processed by Shimar Recycling Services
Mixed Electronics	Mixed electronics consist of desktop CPUs (11%), Portable electronic devices (5%), flat panel displays (23%), CRTs (44%), peripherals (2%), hard copy devices (15%)	165.0	E-Waste, Printer Cartridges and Batteries as collected by Surplus and EHS

EPA College & University(C/U) Sector Year-to-Date EPA WARM Input Information

Material Category As Defined by the US EPA's WARM Model	EPA WARM Definition: http://epa.gov/epawaste/conserve/tools/warm/materials.html	Tons	UNC's Waste Material within EPA Categories:
Tires	Tires represent scrap tires that have been disposed of by consumers and have several end uses in the U.S. market including as a fuel, in civil engineering, and in various ground rubber applications such as running tracks and molded products.	4.7	Tires as collected by UNC and processed at Orange County Landfill
Fly Ash	Fly ash is a byproduct of coal combustion that is used as a cement replacement in concrete.	0.0	Coal Ash that is processed and recycled from UNC's CoGen Plant
Concrete	Concrete is a high-volume building material produced by mixing cement, water, and coarse and fine aggregates. In WARM, concrete is assumed to be recycled into aggregate, so the GHG benefits are associated with the avoided emissions associated with mining and processing aggregate.	17.0	Concrete as collected by Waste Industries from UNC Operations
Dimensional Lumber	Lumber includes wood used for containers, packaging, and building and includes crates, pallets, furniture and dimensional lumber like two by fours.	74.8	Pallets and Clean Wood Waste as collected by UNC and Waste Industrise
Carpet	Carpet represents broadloom residential carpet containing a mix of nylon, PET and PP components within the face fiber, primary and secondary backing, and latex used for attaching the backings.	2.6	Carpet as collected by UNC
Sum of data for WARM model			
Misc not included in warm		120.4	Mattresses, batteries, bulbs, solvents, motor oil and filters
Total Recovered Tons		4,314.9	(including coal ash actually recycled vs. beneficial fill)
Solid Waste (Trash) to Landfill		5,956.6	(not including standard coal ash used for beneficial fill or landfilled)
Total Solid Waste Managed		10,271.4	
Recovery Percentage		42.01%	