

UO ZERO WASTE PROGRAM's
Materials Tracking Report
For
Fiscal Year 2016-2017



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FY 17 Report Summary

This report is the annual summary of material recovery from the University of Oregon FY17, compiled by the UO Zero Waste Program.

These numbers are derived from:

- *actual receipts, weights and tallies (with conversions as necessary)
- *information is gathered from: waste haulers, various departments, Zero Waste program staff, and partner organizations
- *weights are all measured in tons or converted tons utilizing conversion formulas established through the EPA (See Materials Tracking Report on page 4)

Each year the tracking is added and compared to previous years. There are many factors that affect the recovery rate and the overall trend is evaluated and analyzed. For the Fiscal Year 2016-2017 the UO material diversion rate was 55.40%. The Fiscal Year 2015-2016 diversion rate was 55.03% (See Total Material Comparison chart on page 5 & 2-year comparison graph on page 6).

In regards to this report for 2016-17:

- *this is the fifth consecutive year with more than 50% of materials diverted from the landfill (See Landfilled vs Diverted Materials graph on page 7) *1832.74 tons of materials were diverted from the landfill for reuse, recycling, & compost
- *over the last two decades the general trend has been an increasing diversion rate (see Total Materials Breakdown graph page 9)

A few influences on the change in material streams included:

- *Major snow and ice storms impacting campus
- *Major book purges continuing
- *EMU Student Union coming online
- *Campus Compost expanded collection by over 40 tons
- *Pallets of bottled Water provided to residents during lead piping abatement in residence halls
- *Oregon Bottle Bill Deposit Increase from \$.05 to \$.10 in April
- *Reuse and donations expanded this year including use of ROSE & general donations

The Program also looks at overall waste generation, population fluctuation and waste reduction trends (see 2-Year Material comparison graph on page 6).

There was an increase in the landfill per-ton tipping fee in 2016 (to \$76.77/ton for commercial haulers) and the county is preparing for another increase in 2017. These increases compound the urgency of solid waste diversion efforts.

In April 2017, Oregon Revised Statutes were amended to expand the Oregon Bottle Bill from \$.05 to a \$.10 deposit and redemption value. In 2018 the Oregon Bottle Bill will expand the materials which receive the deposit to all beverage containers excluding dairy, wine, & hard alcohol.

Materials Tracking Report

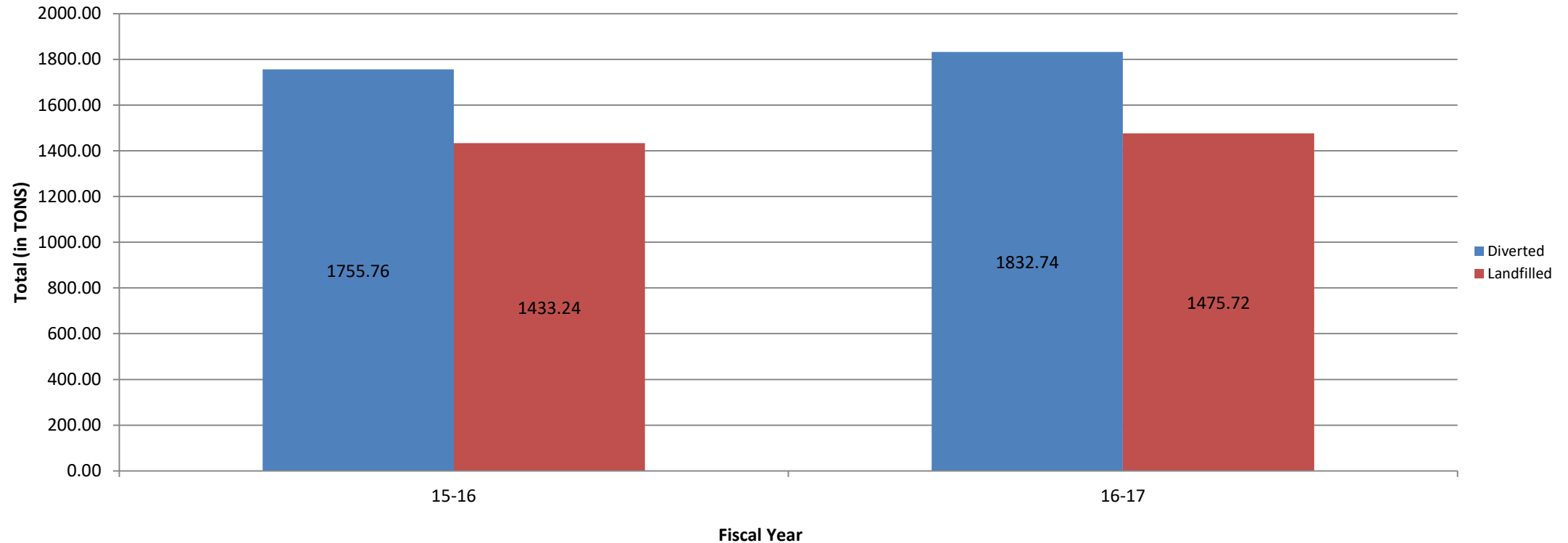
FY 2016-2017

	July	August	September	Summer	October	November	December	Fall	January	February	March	Winter	April	May	June	Spring	Year Total
Paper Products (in TONS)				Paper Products (in TONS)				Paper Products (in TONS)				Paper Products (in TONS)					
WL - White Ledger	2.98	3.46	5.1	11.54 WL - White Ledger	2.07	2.99	2.64	7.7 WL - White Ledger	1.89	2.24	3.14	7.27 WL - White Ledger	1.22	1.58	1.67	4.47	30.98
MIX - Low Grade	7.88	9.14	16.64	33.66 MIX - Low Grade	10.12	13.84	9.43	33.39 MIX - Low Grade	6.12	9.92	19.48	35.52 MIX - Low Grade	8.33	11.29	17.01	36.63	139.20
OCC - Old Cardboard	9.46	10.19	23.86	43.51 OCC - Old Cardboard	22.32	22.47	12.38	57.17 OCC - Old Cardboard	19.23	23.51	22.39	65.13 OCC - Old Cardboard	18.84	25.71	21.49	66.04	231.85
Misc. Paper	1.06	0.32	0.66	2.04 Misc. Paper	1.5	0	0.31	1.81 Misc. Paper	0.17	0	0.4	0.57 Misc. Paper	0	0	0.35	0.35	4.77
PMIX - Printer's Mix	2.2	4.86	3.12	10.18 PMIX - Printer's Mix	0.64	1.38	1.01	3.03 PMIX - Printer's Mix	1.03	1.36	1.64	4.03 PMIX - Printer's Mix	0.61	0.5	0.85	1.96	19.20
Books	24.56	11.58	3.27	39.41 Books	3.87	18.34	6.45	28.66 Books	2.91	9.42	0	12.33 Books	0	4.43	3.99	8.42	88.82
ONP - Newspapers	0	0	0	0 ONP - Newspapers	2.9	0	0	2.9 ONP - Newspapers	0	0	0	0 ONP - Newspapers	0	0	0	0	2.90
Confidential Material	6.56	6.48	7.93	20.97 Confidential Material	5.81	4.51	3.72	14.04 Confidential Material	5.3	4.66	4.5	14.46 Confidential Material	4.81	3.56	7.06	15.43	64.90
Total (in TONS)	54.70	46.03	60.58	161.31 Total (in TONS)	49.23	63.53	35.94	148.70 Total (in TONS)	36.65	51.11	51.55	139.31 Total (in TONS)	33.81	47.07	52.42	133.30	582.62
Kitchen Materials (in TONS)				Kitchen Materials (in TONS)				Kitchen Materials (in TONS)				Kitchen Materials (in TONS)					
Glass	1.04	1.45	1.19	3.68 Glass	2.87	3.67	2.06	8.6 Glass	2.11	2.98	3.92	9.01 Glass	2.65	3.64	5.74	12.03	33.32
Metal/Plastic/Drink Boxes (commingle)	1.6	1.07	1.17	2.24 Metal/Plastic/Drink Boxes (commingle)	4.16	4.16	2.31	10.63 Metal/Plastic/Drink Boxes (commingle)	2.8	2.98	3.38	9.16 Metal/Plastic/Drink Boxes (commingle)	2.48	3.66	3.18	9.32	31.35
Aluminum Cans (deposits)	0.13	0.1	0.32	0.55 Aluminum Cans (deposits)	0.41	0.28	0.35	1.04 Aluminum Cans (deposits)	0.19	0.39	0.51	1.09 Aluminum Cans (deposits)	0.29	0.32	0.41	1.02	3.70
Plastics (deposits)	0.2	0.17	0.44	0.81 Plastics (deposits)	1.28	0.66	0.84	2.78 Plastics (deposits)	0.39	0.71	0.88	1.98 Plastics (deposits)	0.45	0.5	0.69	1.64	7.21
Glass (deposits)	0.44	0.44	0.44	1.32 Glass (deposits)	1.1	0.88	1.27	3.25 Glass (deposits)	0.61	1.21	1.07	2.89 Glass (deposits)	0.88	0.88	1.43	3.19	10.65
Grease	0.87	0.56	0.33	1.76 Grease	2.14	1.80	1.75	5.69 Grease	0.76	2.94	1.83	5.53 Grease	1.69	2.52	1.34	5.55	18.53
Earth Tub Compost	4.59	0	0	4.59 Earth Tub Compost	0.25	0	0	0.25 Earth Tub Compost	0.25	0	0	0.25 Earth Tub Compost	0.25	0	0	0.25	5.34
Campus Compost	27.83	18.77	21.55	68.15 Campus Compost	42.49	44.81	21.48	108.78 Campus Compost	24.61	41.55	38.18	104.34 Campus Compost	35	49.35	28.12	112.47	393.74
Recovered Food Waste	2.99	2.99	3	8.98 Recovered Food Waste	2.99	2.99	3.01	8.99 Recovered Food Waste	2.99	2.99	3.01	8.99 Recovered Food Waste	2.99	2.99	3.1	9.08	36.04
Total (in TONS)	39.16	25.55	28.44	93.15 Total (in TONS)	57.69	59.25	33.07	150.01 Total (in TONS)	34.71	55.75	52.78	143.24 Total (in TONS)	46.68	63.86	44.01	154.55	539.88
Office Materials (in TONS)				Office Materials (in TONS)				Office Materials (in TONS)				Office Materials (in TONS)					
CD's	0	0	0	0 CD's	0	0	0	0 CD's	0	0	0	0 CD's	0	0	0	0	0
Tyvek/Mailing Envelopes	0	0	0	0 Tyvek/Mailing Envelopes	0	0	0	0 Tyvek/Mailing Envelopes	0	0	0	0 Tyvek/Mailing Envelopes	0	0	0	0	0
Transparencies	0	0	0	0 Transparencies	0	0	0	0 Transparencies	0	0	0	0 Transparencies	0	0	0	0	0
Toner/ Ink Jet Cartridges	0.36	0	0	0.36 Toner/ Ink Jet Cartridges	0	0.22	0.35	0.57 Toner/ Ink Jet Cartridges	0.17	0.31	0.22	0.7 Toner/ Ink Jet Cartridges	0.21	0.18	0	0.39	2.02
Total (in TONS)	0.36	0.00	0.00	0.36 Total (in TONS)	0.00	0.22	0.35	0.57 Total (in TONS)	0.17	0.31	0.22	0.70 Total (in TONS)	0.21	0.18	0.00	0.39	2.02
Office Material Revenue	0.00	0.00	0.00	0.00 Office Material Revenue	0.00	0.00	0.00	0.00 Office Material Revenue	0.00	0.00	0.00	0.00 Office Material Revenue	0.00	0.00	0.00	0.00	\$0.00
Reusable Office Supp. Savings	\$1,241.78	\$1,218.14	\$3,475.56	\$ 5,935.48 Reusable Office Supp. Savings	\$923.64	\$730.32	\$1,542.72	\$ 3,196.68 Reusable Office Supp. Savings	\$1,671.02	\$838.06	\$1,370.89	\$ 3,879.97 Reusable Office Supp. Savings	\$1,841.81	\$981.59	\$1,030.62	\$3,854.02	\$ 16,866.15
Other Materials (in TONS)				Other Materials (in TONS)				Other Materials (in TONS)				Other Materials (in TONS)					
Reusables	0	0	0.16	0.16 Reusables	0.43	0.32	0.65	1.4 Reusables	0.91	0.09	0.12	1.12 Reusables	0.21	0	0.39	30.6	33.28
Batteries	0.28	0.29	0.29	0.86 Batteries	0.29	0.02	0.29	0.6 Batteries	0.29	0.29	0.29	0.87 Batteries	0.29	0.29	0.52	1.1	3.43
Tires	0.31	0.16	0.16	0.63 Tires	0.16	0.16	0.16	0.48 Tires	0.16	0.16	0.16	0.48 Tires	0.09	0.16	0.2	0.45	2.04
E H & S misc. (see list)	0	0	0	0 E H & S misc. (see list)	0	0.02	0	0.02 E H & S misc. (see list)	0	0	0	0 E H & S misc. (see list)	0	0	0	0	0.02
E-Waste	4.87	4.87	4.87	14.61 E-Waste	4.87	4.87	4.87	14.61 E-Waste	4.87	4.87	4.87	14.61 E-Waste	4.87	4.87	4.86	14.6	58.43
Mattresses	0	0	0	0 Mattresses	0	0	0	0 Mattresses	0	0	0	0 Mattresses	0	0	0	0	0
Pallets	2	2	2	6 Pallets	2	2	2	6 Pallets	2	2	2	6 Pallets	2	2	2	6	24
Scrap Metal	4.34	4.11		8.45 Scrap Metal	4	3.84	19.5	27.34 Scrap Metal	10.58	6.27	4.84	21.69 Scrap Metal	4.91	0	2.35	7.26	64.74
Shrink Wrap (clean/dirty sheet)	0.26	0.27	0.62	1.15 Shrink Wrap (clean/dirty sheet)	0.5	0.69	0.37	1.56 Shrink Wrap (clean/dirty sheet)	0.15	0.38	0.71	1.24 Shrink Wrap (clean/dirty sheet)	0.13	0.39	0.48	1	4.95
Styrofoam	0.16	0	0.24	0.40 Styrofoam	0.24	0.8	0	1.04 Styrofoam	0.8	0.8	0.8	2.40 Styrofoam	0.8	0.8	0.8	2.4	6.24
Mixed Plastic	0	0	0.16	0.16 Mixed Plastic	0.28	0.22	0.06	0.28 Mixed Plastic	0	0.21	0.29	0.50 Mixed Plastic	0.2	0.25	0.27	0.72	1.66
Wood Waste	0	4.5	5.07	9.57 Wood Waste	4.5	4.5	4.66	13.66 Wood Waste	0	5.16	4.78	9.94 Wood Waste	0.08	4.5	9.27	13.85	47.02
EcoSort Recycling	1.08	1.38	1.66	4.12 EcoSort Recycling	1.83	2.01	1.89	5.73 EcoSort Recycling	0.16	3.63	3.24	7.03 EcoSort Recycling	0.1	3.21	3.24	8.65	25.53
Yardwaste	31	31	31	93 Yardwaste	31	31	52.27	114.27 Yardwaste	52.27	52.27	31	135.54 Yardwaste	31	31	31	93	435.81
Total (in TONS)	44.30	48.58	46.23	139.11 Total (in TONS)	49.82	50.45	86.72	186.99 Total (in TONS)	72.19	76.13	53.10	201.42 Total (in TONS)	44.68	47.47	87.48	179.63	707.15
Glenwood Garbage	83.67	59.06	83.95	226.68 Glenwood Garbage	155.14	137.74	92.62	385.5 Glenwood Garbage	114.63	140.26	146.04	400.93 Glenwood Garbage	136.96	153.12	146.94	437.02	1450.13
EcoSort Garbage	0	1.46	2.48	3.94 EcoSort Garbage	2.74	2.67	2.58	7.99 EcoSort Garbage	0	2.86	3.96	6.82 EcoSort Garbage	0	4.82	2.02	6.84	25.59
Garbage Total (in TONS)	83.67	60.52	86.43	230.62 Garbage Total (in TONS)	157.88	140.41	95.20	393.49 Garbage Total (in TONS)	114.63	143.12	150.00	407.75 Garbage Total (in TONS)	136.96	157.94	148.96	443.86	1475.72
Total Recovered Materials (in TONS)	138.52	120.16	135.25	393.93 Total Recovered Materials (in TONS)	156.74	173.45	156.08	486.27 Total Recovered Materials (in TONS)	143.72	183.30	157.65	484.67 Total Recovered Materials (in TONS)	125.38	158.58	183.91	467.87	1832.74
Total of all collected materials (in TONS)	222.19	180.68	221.68	624.55 Total of all collected materials (in TONS)	314.62	313.86	251.28	879.76 Total of all collected materials (in TONS)	258.35	326.42	307.65	892.42 Total of all collected materials (in TONS)	262.34	316.52	332.87	911.73	3308.46
RECOVERY RATE	62%	67%	61%	63% RECOVERY RATE	50%	55%	62%	55% RECOVERY RATE	56%	56%	51%	54% RECOVERY RATE	48%	50%	55%	51%	55.40%

Total Diversion Rate FY 16-17: 55.40%

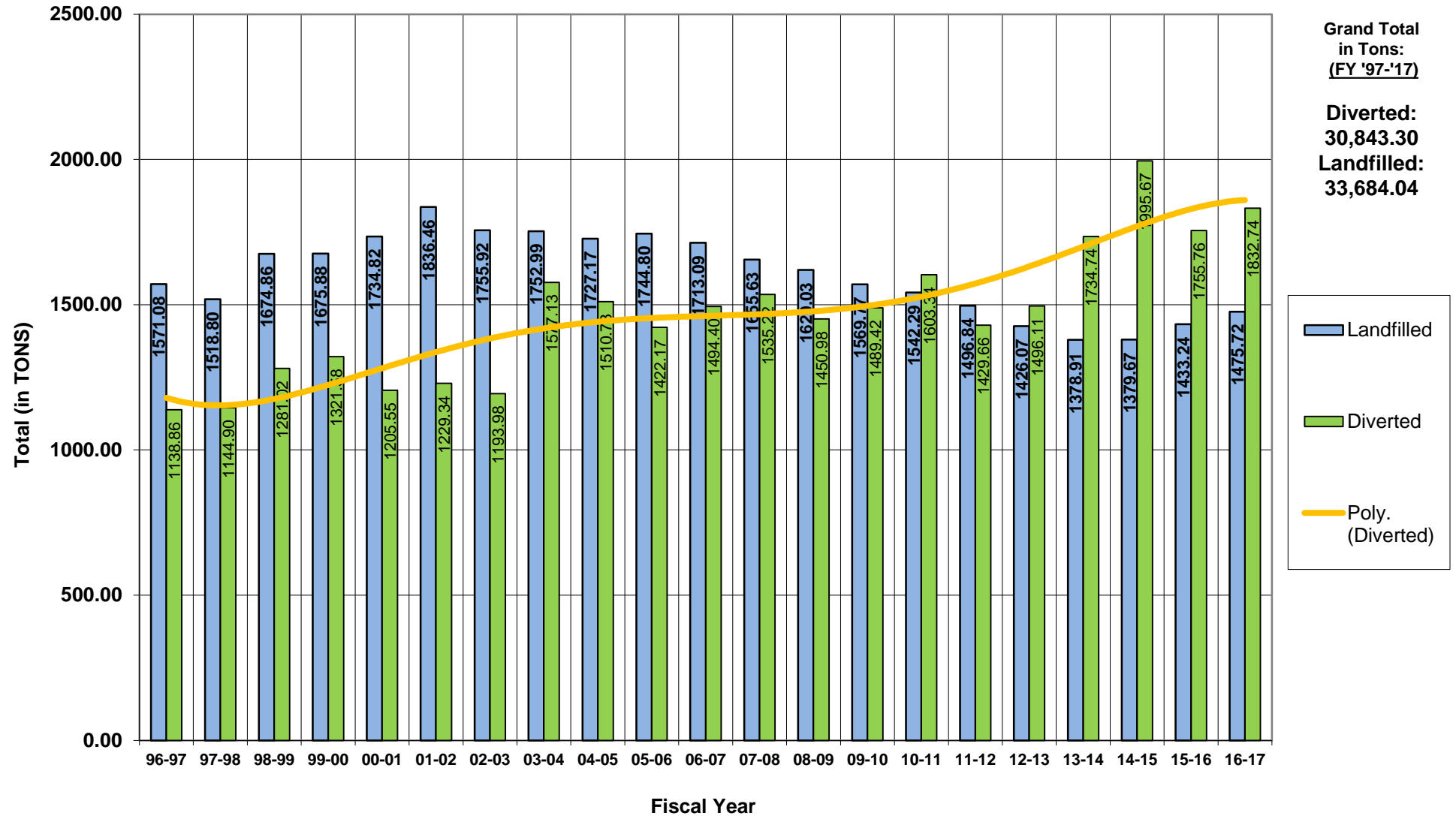
Total Materials Comparison				
Fiscal Year	Total Materials Generated (in Tons)			Other info
	Landfilled	Diverted	TOTAL	Waste Diversion Percentage
92-93	1914.54	846.52	2761.06	30.66%
93-94	1759.75	988.47	2748.22	35.97%
94-95	1641.47	951.67	2593.14	36.70%
95-96	1562.79	1116.05	2678.84	41.66%
96-97	1571.08	1138.86	2709.94	42.03%
97-98	1518.80	1144.90	2663.70	42.98%
98-99	1674.86	1281.02	2955.88	43.34%
99-00	1675.88	1321.58	2997.46	44.09%
00-01	1734.82	1205.55	2940.37	41.00%
01-02	1836.46	1229.34	3065.80	40.10%
02-03	1755.92	1193.98	2949.90	40.48%
03-04	1752.99	1577.13	3330.12	47.36%
04-05	1727.17	1510.73	3237.90	46.66%
05-06	1744.80	1422.17	3166.97	44.91%
06-07	1713.09	1494.40	3207.49	46.59%
07-08	1655.63	1535.22	3190.85	48.11%
08-09	1620.03	1450.98	3071.01	47.25%
09-10	1569.77	1489.42	3059.19	48.69%
10-11	1542.29	1603.34	3145.63	50.97%
11-12	1496.84	1429.66	2926.50	48.85%
12-13	1426.07	1496.11	2922.18	51.20%
13-14	1378.91	1734.74	3113.65	55.71%
14-15	1379.67	1995.67	3375.34	59.12%
15-16	1433.24	1755.76	3189.00	55.06%
16-17	1475.72	1832.74	3308.46	55.40%
Total From 1992-2015	Total Materials Generated (in Tons)			Other info
	Landfilled	Diverted	TOTAL	Grand WDP
	40,562.59	34,746.01	75,308.60	46.14%

2-Year Material Comparison (Fiscal Years 2016-2017)



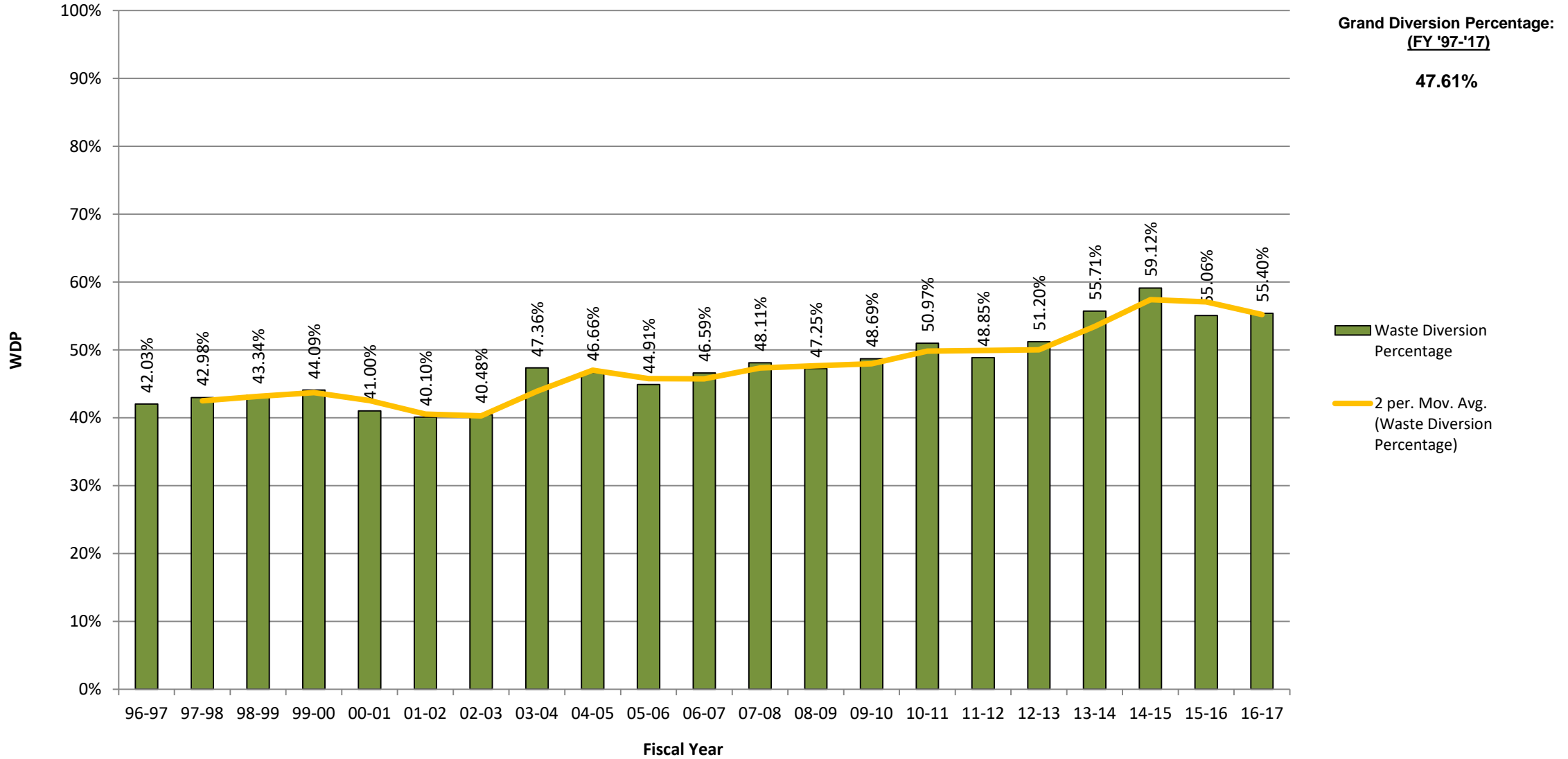
- Increase of diverted materials by 76.9 tons and increase of landfilled materials by 42.4 tons
- This was the result of large snow and ice storms in FY 16-17 as well as increased composting
- The EMU came fully online in FY 16-17, contributing an increase to both landfill and diversion.

Landfilled vs. Diverted Waste Comparison (Fiscal Year 1997-2017)

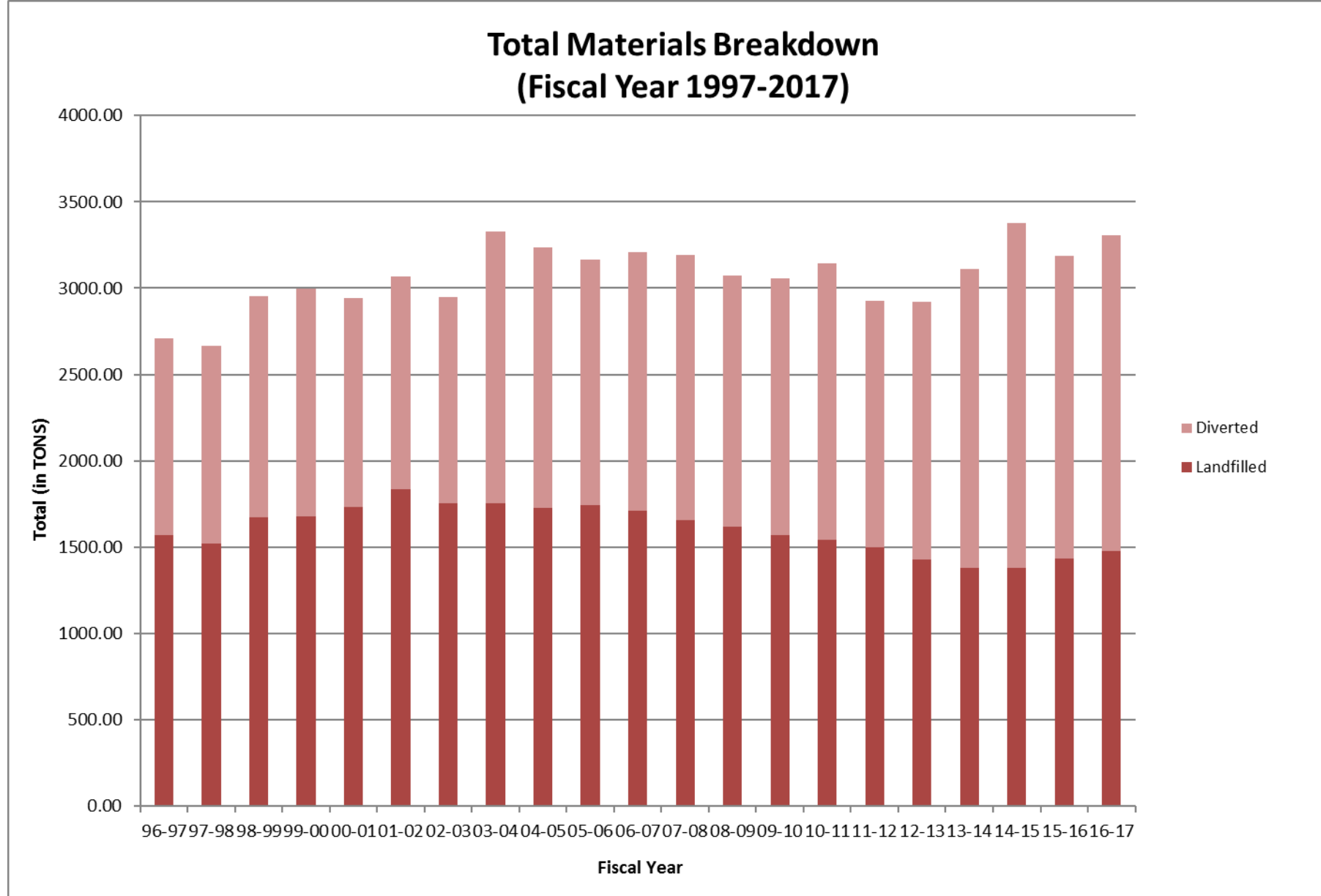


- The general 20 year trend has been increasing diversion with marked growth after 2012.

Waste Diversion Percentage Fiscal Year 1997-2017



- FY 2017 represents the 5th consecutive year of material recovery over 50%.

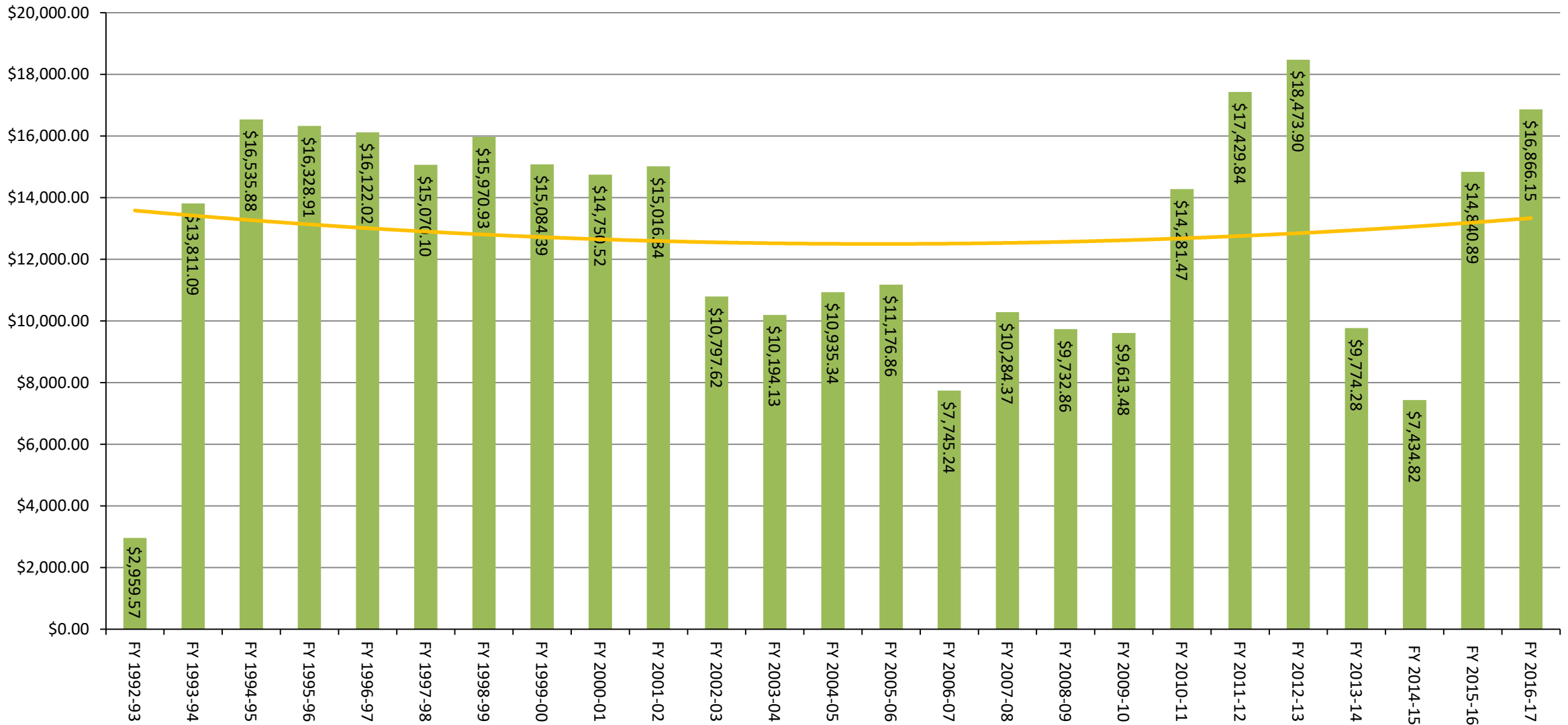


- The overall trend of materials has been an increase of diverted materials.

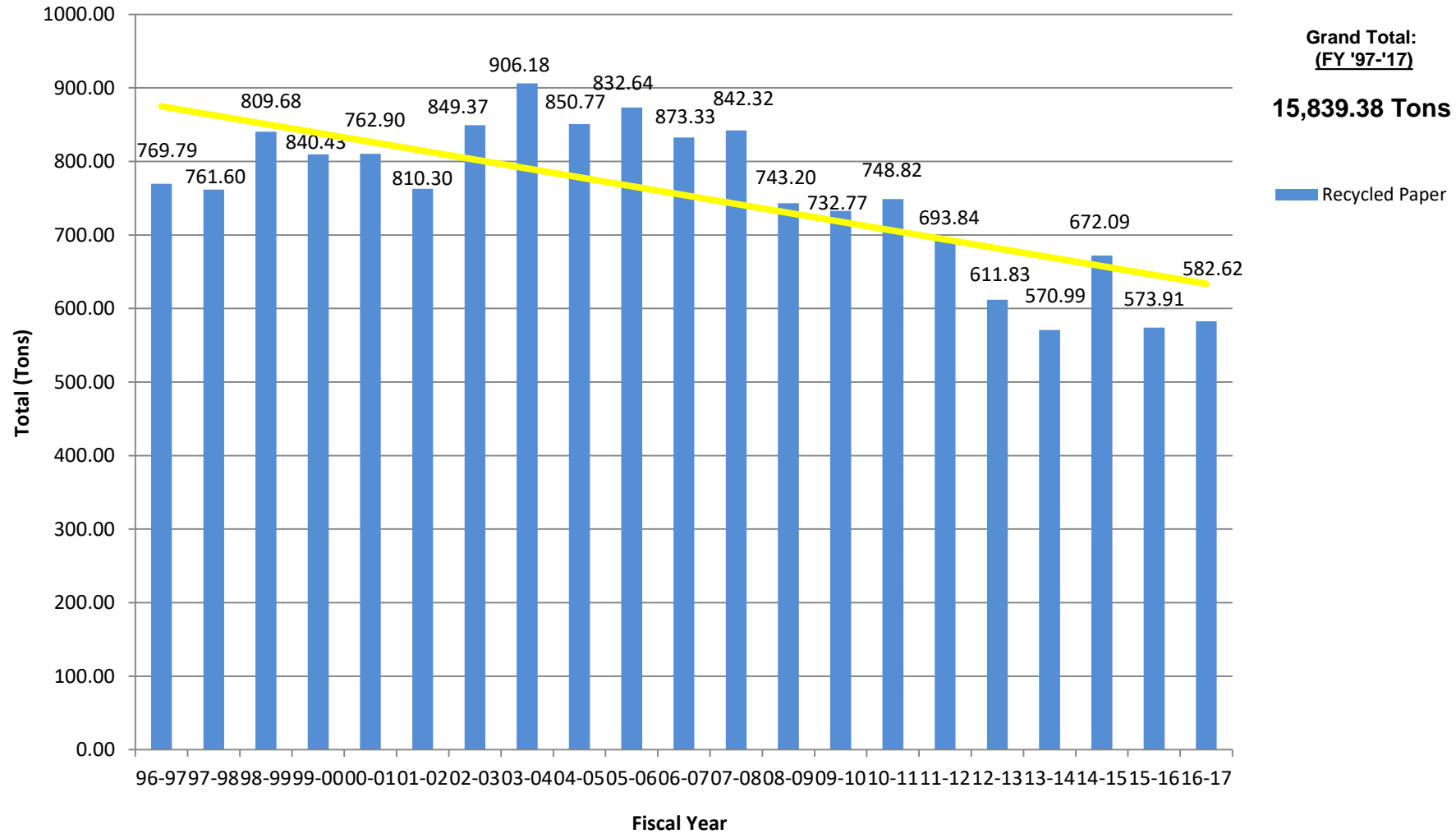
1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
\$1,073.31	\$1,215.89	\$1,250.96	\$962.86	\$1,365.19	\$569.51	\$499.13	\$1,586.24	\$1,182.88	\$366.27	\$901.50	\$1,154.61	\$1,566.38	\$1,605.85	\$1,051.67	\$907.37	\$1,124.80	\$665.25	\$1,520.51	\$1,241.78
\$1,542.33	\$1,399.87	\$1,514.42	\$907.18	\$1,646.58	\$694.70	\$822.01	\$1,286.24	\$783.17	\$1,179.95	\$817.68	\$1,164.56	\$1,075.84	\$1,390.62	\$2,307.74	\$2,134.97	\$682.80	\$1,183.95	\$1,059.05	\$1,218.14
\$1,801.39	\$2,569.51	\$1,660.69	\$1,742.90	\$2,589.57	\$1,859.32	\$1,124.69	\$1,447.95	\$2,037.15	\$814.83	\$1,235.70	\$1,101.53	\$1,182.42	\$2,149.76	\$2,425.78	\$1,189.48	\$1,632.40	\$899.96	\$1,404.40	\$3,475.56
\$1,156.49	\$2,438.45	\$2,222.76	\$1,382.42	\$1,378.90	\$819.44	\$928.87	\$959.12	\$958.10	\$470.95	\$1,481.58	\$565.72	\$599.83	\$822.04	\$1,507.52	\$2,504.11	\$345.85	\$942.81	\$2,412.29	\$923.64
\$976.84	\$538.85	\$960.00	\$1,210.69	\$756.54	\$1,929.32	\$581.23	\$373.46	\$767.06	\$421.29	\$1,018.06	\$482.19	\$833.32	\$1,060.09	\$1,158.54	\$1,354.62	\$289.44	\$131.01	\$229.65	\$730.32
\$477.84	\$881.28	\$775.99	\$1,532.04	\$1,124.31	\$445.93	\$431.61	\$615.06	\$471.55	\$556.59	\$390.38	\$723.27	\$452.35	\$640.15	\$1,437.45	\$956.41	\$270.35	\$247.33	\$620.05	\$1,542.72
\$840.32	\$1,226.49	\$1,168.22	\$1,105.58	\$944.21	\$301.61	\$1,070.11	\$787.35	\$1,136.70	\$831.90	\$1,329.52	\$650.04	\$1,069.24	\$733.12	\$1,642.69	\$1,914.42	\$782.37	\$606.61	\$813.35	\$1,671.02
\$1,287.51	\$1,226.49	\$1,380.50	\$1,507.26	\$621.65	\$1,013.79	\$602.76	\$932.87	\$1,409.26	\$727.05	\$778.21	\$859.16	\$404.25	\$1,404.18	\$1,395.92	\$1,104.40	\$760.84	\$485.24	\$1,030.53	\$838.06
\$1,850.55	\$1,055.01	\$924.39	\$1,074.69	\$961.21	\$696.93	\$1,199.36	\$725.34	\$509.51	\$897.42	\$890.74	\$551.12	\$384.14	\$867.59	\$1,018.52	\$2,000.29	\$1,162.90	\$632.61	\$1,575.69	\$1,370.89
\$1,753.99	\$1,360.15	\$996.11	\$1,103.66	\$948.33	\$614.59	\$1,119.57	\$569.36	\$603.71	\$214.56	\$471.81	\$773.50	\$950.87	\$1,568.94	\$1,072.57	\$1,118.89	\$1,668.55	\$607.84	\$1,084.07	\$1,841.81
\$1,402.55	\$884.17	\$1,213.28	\$779.81	\$1,251.82	\$775.68	\$1,011.50	\$925.74	\$630.10	\$1,029.92	\$464.29	\$310.37	\$355.49	\$1,176.29	\$955.69	\$971.58	\$642.29	\$397.33	\$1,841.37	\$981.59
\$906.98	\$1,174.77	\$1,017.07	\$1,441.43	\$1,428.53	\$1,076.80	\$803.29	\$726.61	\$687.67	\$234.51	\$504.90	\$1,396.79	\$739.35	\$862.84	\$1,455.75	\$2,317.36	\$411.69	\$634.88	\$1,249.93	\$1,030.62
\$15,070.10	\$15,970.93	\$15,084.39	\$14,750.52	\$14,750.52	\$15,016.84	\$10,797.62	\$10,935.34	\$11,176.86	\$7,745.24	\$10,284.37	\$9,732.86	\$9,613.48	\$14,281.47	\$17,429.84	\$18,473.90	\$9,774.28	\$7,434.82	\$14,840.89	\$ 16,866.15

Reusable Office Supply Exchange (ROSE)
Cost Savings History FY 98-17
Total savings: \$321,231.50

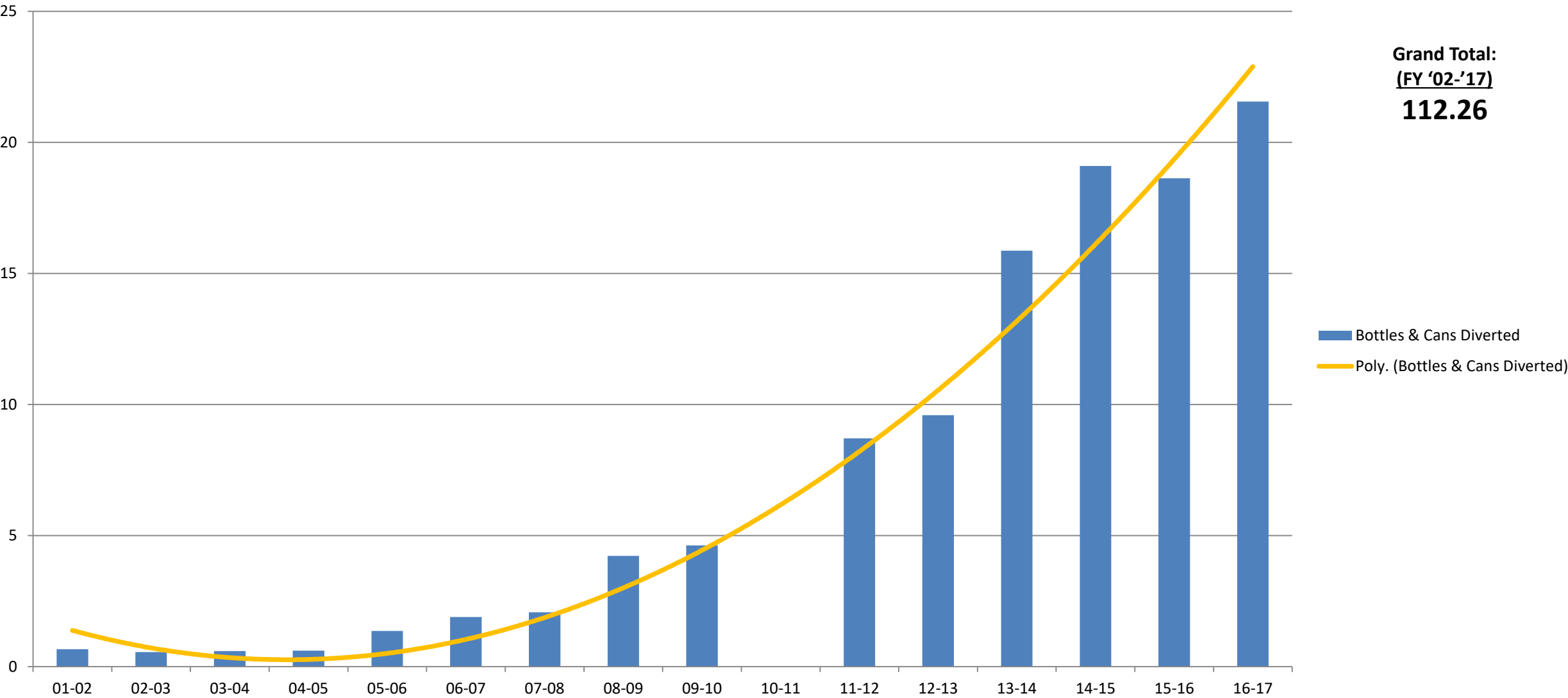
Reusable Office Supply Exchange (R.O.S.E.) SAVINGS



Total Recycled Paper (Fiscal Year 1997-2017)



Bottles & Cans Diverted in Tons



- The Bottles and Cans material stream will almost certainly expand as the Oregon Bottle Bill will begin covering more beverage containers in 2018

Specific Materials Figures

Fiscal Year	Paper	Bottles & Cans	Paper, Bottles, & Cans Tonnage	Total Diversion Rate
92-93	622.57	0	622.57	30.66%
93-94	625.45	0	625.45	35.97%
94-95	585.45	0	585.45	36.70%
95-96	692.32	0	692.32	41.66%
96-97	769.79	0	769.79	42.03%
97-98	761.60	0	761.60	42.98%
98-99	840.43	0	840.43	43.34%
99-00	809.68	0	809.68	44.09%
00-01	810.30	2.23	812.53	41.00%
01-02	762.90	0.66	763.56	40.10%
02-03	849.37	0.55	849.92	40.48%
03-04	906.18	0.59	906.77	47.36%
04-05	850.77	0.61	851.38	46.66%
05-06	873.33	1.36	874.69	44.91%
06-07	832.64	1.89	834.53	46.59%
07-08	842.32	2.07	844.39	48.11%
08-09	743.20	4.22	747.42	47.25%
09-10	732.77	4.62	737.39	48.69%
10-11	748.82	0	748.82	50.97%
11-12	693.84	8.71	702.55	48.85%
12-13	611.83	9.59	621.42	51.20%
13-14	570.99	15.87	586.86	55.71%
14-15	672.09	19.1	691.19	59.12%
15-16	573.91	18.63	592.54	55.06%
16-17	582.62	21.56	604.18	55.40%

**Total From
1992-
2017**

Total Materials Generated

Paper	Bottles & Cans	Total Paper, Bottles, & Cans Tonnage
18365.17	112.26	18477.43

**Total
Diversion
Rate**
45.79%