

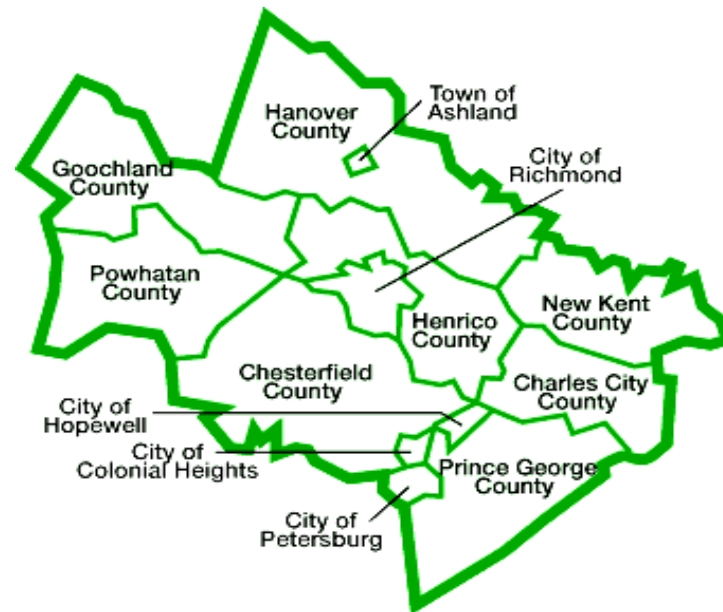
# 5. 2018 Regional Recycling Rate Report



## 2018 RECYCLING RATE REPORT

# 5. 2018 RECYCLING RATE REPORT

Serving the Cities of Colonial Heights, Hopewell, Petersburg, and Richmond, the Town of Ashland, and the Counties of Charles City, Chesterfield, Goochland, Hanover, Henrico, New Kent, Powhatan and Prince George



# 5. 2018 Regional Recycling Rate Report

## Recycling Rate Mandate for Virginia Solid Waste Planning Units

- Solid Waste Planning and Recycling Regulations (9VAC20-130.125) requires Solid Waste Planning Units to maintain either a 15% or 25% recycling rate
- Legislation from the 2012 General Assembly requires a recycling rate report every 4 years from SWPU's with populations less than 100,000 and every year for SWPU's with populations greater than 100,000.

# 5. 2018 Regional Recycling Rate Report

## Base Recycling Rate

PRM (Principal Recycling Materials)

MSW (Municipal Solid Waste)

## Adjusted Recycling Rate

PRM + Credit Tonnage

Credit Tonnage + MSW

\* The adjusted recycling rate can not exceed 5 percentage points of the base recycling rate

# 5. 2018 Regional Recycling Rate Report

## MSW Generated in Region

- EPA estimated pounds per person per day waste generation rate (PPD).
- 2018 Population Estimate obtained from Weldon Cooper Center for Public Service for the CVWMA Region

$$2018 \text{ Population} \times \text{PPD} \times 365 / 2000 = \text{MSW}$$

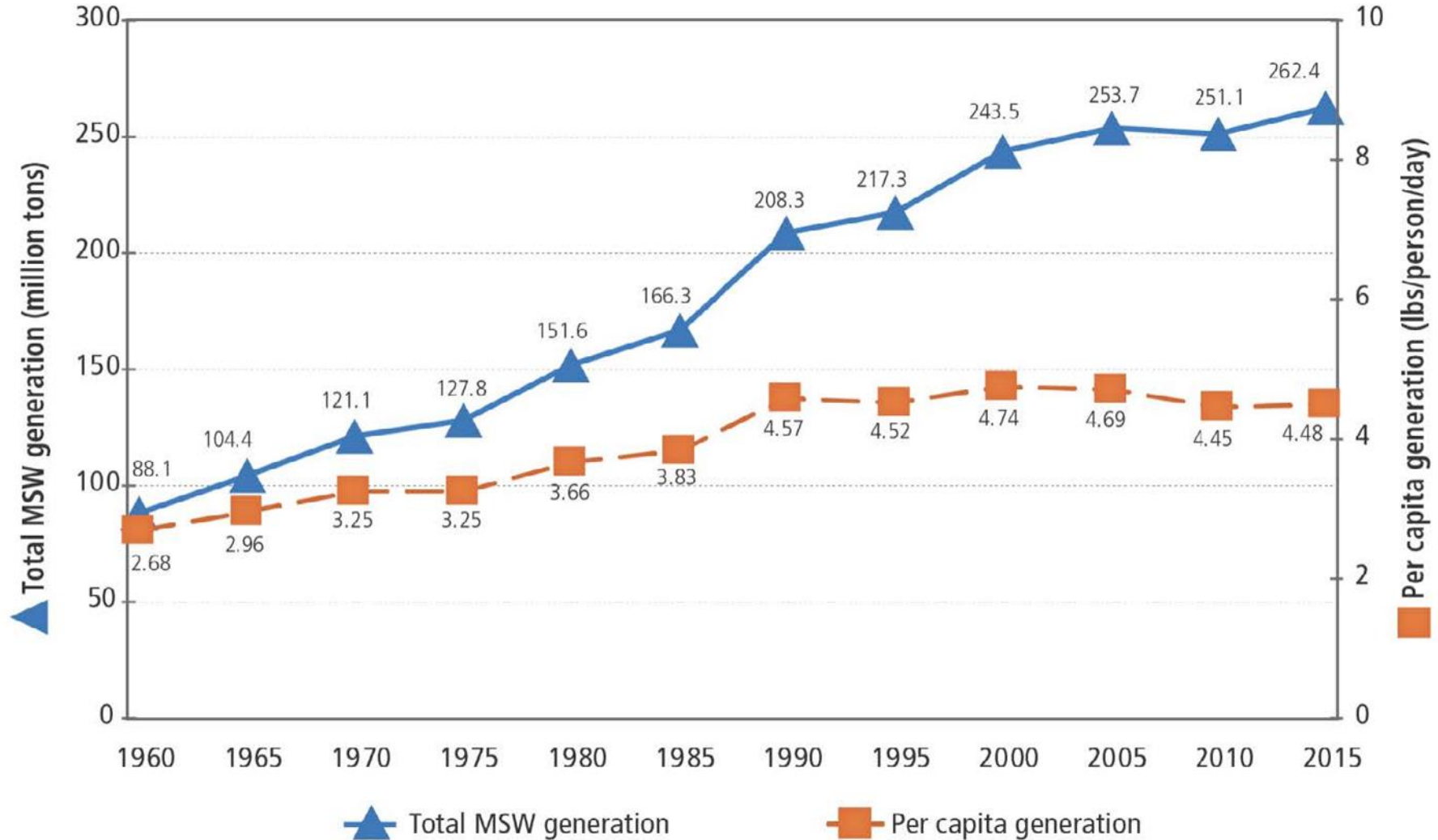
# 5. 2018 Regional Recycling Rate Report

## WELDON COOPER POPULATION ESTIMATES

Locality	July 1, 2017 Estimate	July 1, 2018 Estimate
<b>Charles City County</b>	7,256	7,017
<b>Chesterfield County</b>	316,236	346,357
<b>Goochland County</b>	21,717	23,176
<b>Hanover County</b>	99,863	107,357
<b>Henrico County</b>	306,935	326,993
<b>New Kent County</b>	18,429	22,462
<b>Powhatan County</b>	28,046	29,524
<b>Prince George County</b>	35,725	37,212
<b>Colonial Heights City</b>	17,411	17,562
<b>Hopewell City</b>	22,591	22,767
<b>Petersburg City</b>	32,420	31,746
<b>Richmond City</b>	204,214	226,919
	<b>1,110,843</b>	<b>1,199,092</b>

# 5. 2018 Regional Recycling Rate Report

## EPA Waste Generation Rate



## 5. 2018 Regional Recycling Rate Report MSW Generated in Region

$$2018 \text{ MSW} = \frac{\text{POP} \times \text{PPD} \times 365}{2000}$$

$$= \frac{1,199,092 \times 4.48 \times 365}{2000} = 980,378$$

980,378 tons of MSW in CVWMA Region



# 5. 2018 Regional Recycling Rate Report

## Recycling Rate Data Development

- Survey major recycling processors from our region
- Recycling Processors under Contract are Required to Report
- Data is submitted voluntarily by all others

# 5. 2018 Regional Recycling Rate Report

## 2018 PRM Tonnage

- Paper: 109,318
- Metal: 137,831
- Plastic: 4,798
- Glass: 8,908
- Commix: 15,820
- Y&W: 211,354
- Textiles: 9,098
- Tires: 3,682
- Used Oil: 11,165
- Oil Filters: 624
- Antifreeze: 563
- Batteries: 2,359
- E-Waste: 796
- Food: 6,015

**Total PRM Tonnage: 526,015**

# 5. 2018 Regional Recycling Rate Report

## 2018 PRM Tonnage

	<b>2017 Tonnage</b>	<b>2018 Tonnage</b>	<b>Difference</b>
Paper	81,529	109,318	27,789
Metal	131,986	132,257	271
Yard/Wood	207,672	211,354	3,682

# 5. 2018 Regional Recycling Rate Report

## Commix Notes & Adjustments

	2017	2018	Difference
Paper	81,529	109,318	27,789
Plastic	2,047	4,752	2,705
Glass	74	8,908	8,834
Comingled *	80,690	15,815	-64,875

**CY 2017 Included 18,536 tons of material from outside of our region.**

**CY 2018 – first full year of 1-7 plastics in CVWMA Curbside and Drop-Off Programs**

# 5. 2018 Regional Recycling Rate Report

## 2018 Base Recycling Rate

$$\text{Recycling Rate} = \frac{\text{PRM}}{\text{MSW}}$$

$$= \frac{526,015}{980,378} = 53.65\%$$

# 5. 2018 Regional Recycling Rate Report

## Credit Tonnage

- Source Reduction
- Recycling Residue
- Solid Waste Reused
- Non MSW Recycled

Solid Waste Reused 125,117\*

\*Construction Demolition and Debris Tonnage

# 5. 2018 Regional Recycling Rate Report

## 2018 Adjusted Recycling Rate

$$\text{Recycling Rate} = \frac{\text{PRM} + \text{Credits}}{\text{MSW} + \text{Credits}}$$

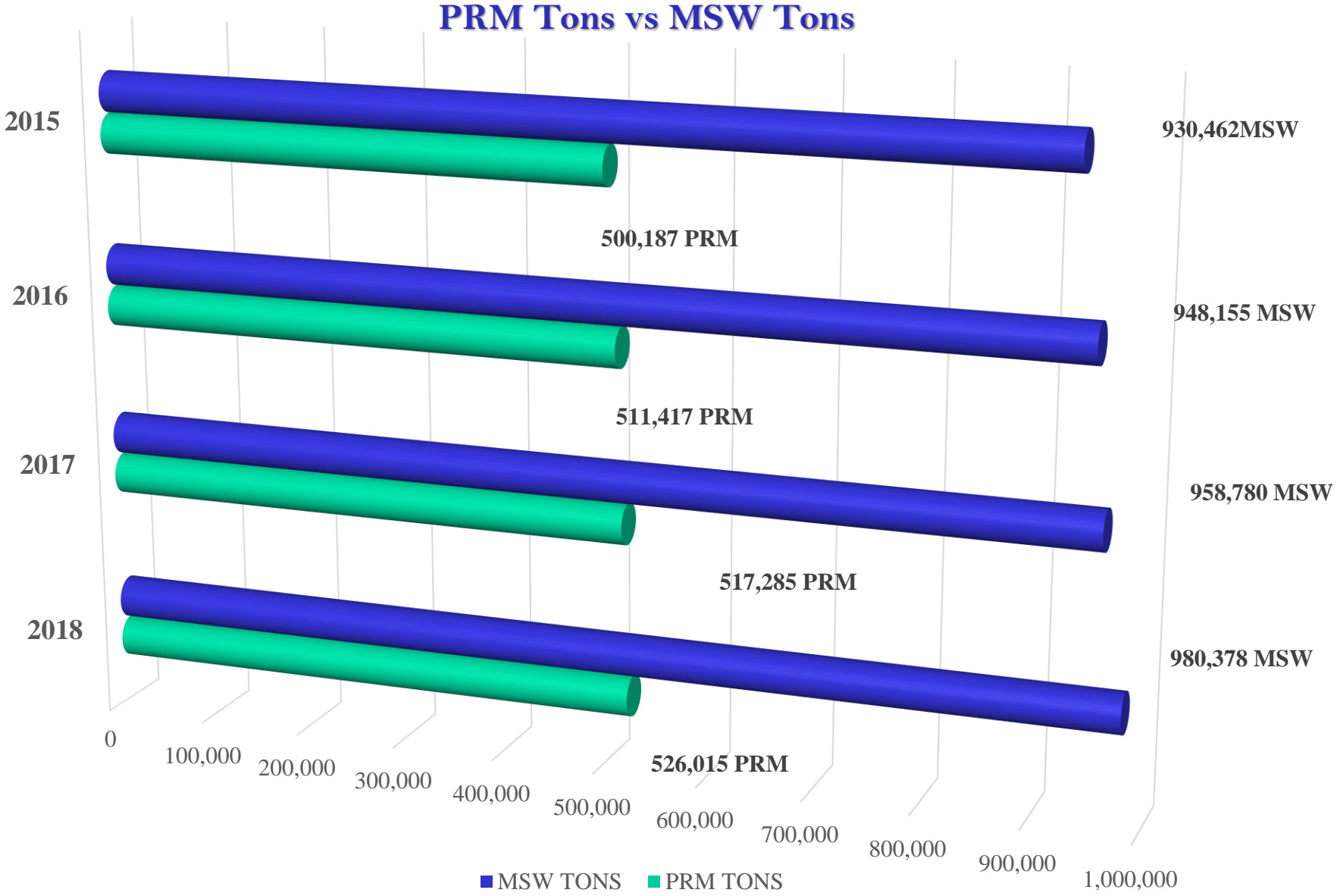
$$= \frac{526,015 + 125,117}{125,117 + 980,378} = 58.9\%^*$$

\* Final recycling rate cannot exceed 5 percentage points of the base recycling rate of 53.3%

$$53.65\% + 5\% \text{ credit} = 58.7\%$$

**58.7% Final Adjusted Recycling Rate**

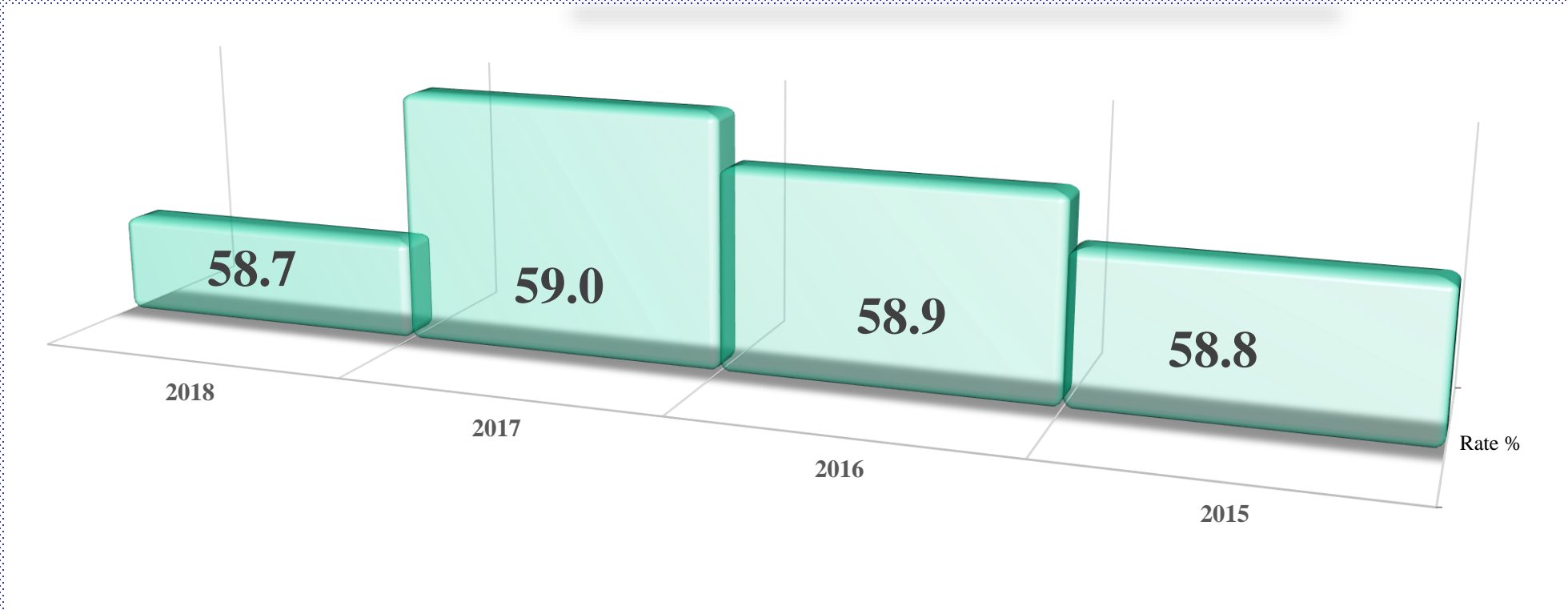
# 5. 2018 Regional Recycling Rate Report





# 5. 2018 Regional Recycling Rate Report

## CVWMA Recycling Rates %



Questions?

**Reduce ! Reuse !  
Recycle !**

