



**Commonwealth of Virginia  
Locality Recycling Rate Report  
For Calendar Year 2009**

**Contact Information**

**Reporting Solid Waste Planning Unit: Southeastern Public Service Authority of Virginia** \_\_\_\_\_

**Person Completing This Form: John M. Carlock**  
\_\_\_\_\_

**Title: Deputy Executive Director, Hampton Roads Planning District Commission**  
\_\_\_\_\_

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\_\_\_\_\_

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\_\_\_\_\_

**Member Governments** (The local governments identified in your regional solid waste management plan and whose data is included in this report):

**Cities of Chesapeake, Franklin, Norfolk, Portsmouth, Suffolk & Virginia Beach  
Counties of Isle of Wight and Southampton**

**Towns of Boykins, Branchville, Capron, Courtland, Ivor, Newsoms, Smithfield & Windsor**

Due to the complexity and difficulty in obtaining data, this report reflects the best efforts of the solid waste planning unit to represent its recycling efforts for **CY 2009**. I certify that I have personally examined and am familiar with the information submitted in this form and any attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. These records will be made available for auditing purposes, if requested.

_____	Rowland L. Taylor_____	
Authorized Signature	Title	Date

Return completed form by April 30, 2010 to: Virginia DEQ, Attn: Recycling Rates, P.O. Box 1105, Richmond, VA 23218.

# Locality Recycling Rate Report

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**PART A: Recycling Rate Calculation** - Using the formulae provided below and the information reported on Pages 3, 4 and 5 to calculate your recycling rates.

**Step 1:  $[(PRMs) / (PRMs + MSW Disposed)] \times 100 = \text{Base Recycling Rate } \%$**

$$\boxed{422025} / \boxed{422,025} + \boxed{1,033,613} \times 100 = \boxed{28.9} \%$$

**Step 2: CREDITS calculation**

a. Total Recycling Residue	_____ tons
b. Total Solid Waste Reused	117,238.81 tons
c. Total Non-MSW Recycled	_56,996.16 tons
<b>CREDITS</b>	<b>174,233.97 tons</b>

**Adjusted**

**Step 3:  $[(PRMs + CREDITS) / (PRMs + CREDITS + MSW Disposed)] \times 100 = \text{Recycling Rate } \#1^*$**

$$\boxed{422,025} + \boxed{161,845} / \boxed{422,025} + \boxed{161,845} + \boxed{1,033,613} \times 100 = \boxed{36.1} \%$$

**Step 4:**  **Source Reduction Credit does not apply; or**

**Adjusted Recycling Rate #1 + 2% SRP Credit = Adjusted Recycling Rate #2\***

$$\boxed{\phantom{000}} \% + 2\% = \boxed{\phantom{000}} \%$$

**Step 5: Final Recycling Rate\* for Solid Waste Planning Unit =** 33.9 %

**\* Total credits resulting from Steps 3 and 4 may not exceed 5 percentage points above the Base Recycling Rate achieved by the Solid Waste Planning Unit.**

**Locality Recycling Rate Report**  
**PART B: DATA**

**For Calendar Year 2009**

**Part I: Principal Recyclable Materials (PRMs):** Report only PRM material generated within the reporting SWPU and recycled, NOT imported PRMs for recycling.

<u>PRM TYPE</u>	<u>RECYCLED AMOUNT (TONS)</u>
Paper	85,137.29
Metal	245,866.01
Plastic	38,476.28
Glass	893.89
Commingled	0.00
Yard Waste (composted or mulched)	35,038.81
Waste wood (chipped or mulched)	420.32
Textiles	0.00
Tires	4,519.05
Used Oil	7,470.80
Used Oil Filters	148.10
Used Antifreeze	334.86
Batteries	2,436.83
Electronics	76.36
Inoperative Motor Vehicles (see guidance)	0.00
Other (specify:)	
Other (specify: SBC OCC – Walmart)	1,206.24
<b>TOTAL PRMs</b>	<b>422,024.84</b> (PRMs)
	<b>(Enter Total on Page 2, Step 1)</b>

**Part II: Credits by Category (see Credits Worksheet, Page 5)**

**A. Recycling Residue** – “Recycling residue” means the (i) nonmetallic substances, including but not limited to plastic, rubber, and insulation, which remain after a shredder has separated for purposes of recycling the ferrous and nonferrous metal from a motor vehicle, appliance, or other discarded metallic item and (ii) organic waste remaining after removal of metals, glass, plastics and paper which are to be recycled as part of a resource recovery process for municipal solid waste resulting in the production of a refuse derived fuel. (§ 10.1-1400 of the *Code of Virginia*) (use only SWPU generation)

<u>MATERIAL DESCRIPTION</u>	<u>FACILITY/OPERATION</u>	<u>TONS OF MATERIAL</u>
_____ from _____	_____	_____
_____ from _____	_____	_____
_____ from _____	_____	_____
<b>TOTAL RECYCLING RESIDUE</b>		<b>0.00</b>
		<b>(Enter Total on Page 2, Step 2 a)</b>

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**B. Solid Waste ReUsed**

<u>MATERIAL DESCRIPTION</u>	<u>REUSE METHOD</u>	<u>TONS OF MATERIAL</u>
Asphalt _____	Road Construction _____	86,277.81 _____
Concrete _____	Road Construction _____	30,961.00 _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
<b>TOTAL SOLID WASTE REUSED</b>		<b>117,238.81</b> _____

**(Enter Total on Page 2, Step 2 b)**

**C. Non-Municipal Solid Waste (MSW) Recycled**

<u>MATERIAL DESCRIPTION</u>	<u>RECYCLING METHOD</u>	<u>TONS OF MATERIAL</u>
_____	Alternative Daily Cover _____	44,605.73 _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
<b>TOTAL NON-MSW RECYCLED</b>		<b>44,605.73</b> _____

**(Enter Total on Page 2, Step 2 c)**

**D: A credit of two (2) percentage points may be added to the Adjusted Recycling Rate #1 if the Solid Waste Planning Unit has implemented a Source Reduction Program (SRP). Examples of SRPs include Grasscycling, Home Composting, Clothing Reuse, Office Paper Reduction (duplexing), Multi-Use Pallets, or Paper Towel Reduction. The SRP must be included in the Solid Waste Management Plan on file with the Department:**

SRP description: \_\_\_\_\_

\_\_\_\_\_

SRP description: \_\_\_\_\_

\_\_\_\_\_

SRP description: \_\_\_\_\_

\_\_\_\_\_

SRP description: \_\_\_\_\_

\_\_\_\_\_

**(Certify on Page 2, Step 4)**

**Exclusions:** For the purposes of this report, the following materials are not considered solid wastes, and should not be included in any of the data categories utilized in calculating the recycling rate.

1. Biosolids –industrial sludge, animal manures; sewage sludge, unless composted
2. Automobiles – unless part of the Inoperable Vehicle Program (DMV)
3. Leachate
4. Soils – contaminated soils, soil material from road maintenance
5. Household hazardous waste
6. Hazardous waste
7. Medical waste

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**Part III: Total Municipal Solid Waste (MSW) Disposed\*\*** - Report only MSW generated within the reporting jurisdiction(s), NOT imported wastes or industrial wastes.

<u>MSW TYPE</u>	<u>TOTAL AMOUNT DISPOSED (TONS)</u>
Household	_____
Commercial	_____
Institutional	_____
Other (DO NOT INCLUDE INDUSTRIAL WASTES)	_____
<b>TOTAL MSW DISPOSED</b>	<b><u>1,033,613</u></b>
	<b>(Enter Total on Page 2, Step 1 and Step 3)</b>

*\*\*MSW DISPOSED for the purpose of this report means delivered to a permitted sanitary landfill, transfer station, or waste incinerator for disposal.*

**Credits Worksheet**

**I. Reuse of any Solid Waste**

√	Material description	Tons	
<input type="checkbox"/>	PRM	_____	_____
<input type="checkbox"/>	PRM	_____	_____
<input type="checkbox"/>	PRM	_____	_____
<input type="checkbox"/>	Industrial	_____	_____
<input type="checkbox"/>	Construction	_____	_____
<input type="checkbox"/>	Demolition	_____	_____
<input type="checkbox"/>	Debris	_____	_____
<input type="checkbox"/>	Other Asphalt	_____	86,277.81
<input type="checkbox"/>	Other Concrete	_____	30,961.00
<input type="checkbox"/>	Other	_____	_____
	<b>TOTAL TONS</b>	<b>117,238.81</b>	<b>(enter data on Page 4, Solid Waste ReUsed)</b>

**II. Recycling of any Non-Municipal Solid Waste**

√	Material description	Tons	
<input type="checkbox"/>	Industrial	_____	_____
<input type="checkbox"/>	Construction	_____	_____
<input type="checkbox"/>	Demolition	_____	_____
<input type="checkbox"/>	Debris	_____	_____
<input type="checkbox"/>	Other	_____	_____
<input type="checkbox"/>	Other Alt. Daily Cover(ash, tire chips, etc.	_____	44,605.73
<input type="checkbox"/>	Other	_____	_____
	<b>TOTAL TONS</b>	<b>44,605.73</b>	<b>(enter data on Page 4, Non-MSW Recycled)</b>

**III. Inoperable Vehicles Removed and Demolished** – include number of vehicles that the localities received reimbursement from DMV under §46.2-1207 of the Code of Virginia.

# of vehicles removed/reimbursement received \_\_\_\_\_  
 Average tonnage per vehicle X 1 Ton each

**Total Tons** \_\_\_\_\_ **(enter data on Page 3, PRMs, Inoperative Motor Vehicle Program)**

**NOTE:** Check “Exclusions” on Page 4 to avoid listing of those materials on this worksheet and/or in the data fields of this report.

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## Part C: Recycling Rate Report Instructions

Amended Regulations for the Development of Solid Waste Management Plans (9 VAC 20-130-10 et seq.) require that Solid Waste Planning Units in the Commonwealth develop complete, revised solid waste management plans. Section 9 VAC 20-130-120 B & C of the Regulations requires that a minimum recycling rate of the total municipal solid waste generated annually in each solid waste planning unit be maintained. It also requires that the plan describe how this rate shall be met or exceeded and requires that the calculation methodology be included in the plan. Section 9 VAC 20-130-165 D establishes that every solid waste management planning unit shall submit to the department by April 30 of each year, the data and calculations required in 9 VAC 20-130-120 B & C for the preceding calendar year.

***NOTE: ONLY RECYCLING RATE REPORTS FROM AN APPROVED SOLID WASTE PLANNING UNIT (SWPU) WILL BE ACCEPTED FOR PROCESSING. JURISDICTIONS WITHIN A SWPU MUST SUBMIT THEIR RECYCLING DATA TO THE SWPU FOR INCORPORATION INTO THE ANNUAL REPORT.***

It is requested that all amounts included on the form be listed in **tons (2,000 pounds)**, rounded to the nearest whole ton. If actual weights are not known, volumes can be converted to weight estimates. To assist you with these estimates, a standardized volume-to-weight conversion table is attached.

**Contact Information Section:** Please provide information on the Reporting SWPU and information on the individual completing this form. Under Member Governments, please list the local governments identified in the applicable solid waste management plan.

**Calculated Recycling Rate Section:** Using the formulae provided, calculate your recycling rates for the reporting period from information identified in the Recycling Rate Calculations Section.

**Signature Block Section:** Please provide an authorized signature prior to submitting the completed form. Authorized signatories include Executive Officer, Administrator, or other legally designated representative of the SWPU reporting entity.

**Recycling Rate Calculations Section:** Please provide the requested information:

**Part I: Principal Recyclable Material (PRM) -** Report the amount in tons of each PRM collected for recycling in the named jurisdiction(s) during the reporting period. PRMs include paper, metal, plastic, container glass, commingled, yard waste, waste wood, textiles, tires, used oil, used oil filters, used antifreeze, batteries, electronics, and other materials approved by the Director taken from the Municipal Solid Waste (MSW) generation. A one ton credit may also be entered for each inoperable motor vehicle for which a locality receives reimbursement from the Virginia Department of Motor Vehicles under §46.2-1207 of the *Code of Virginia*. The total weight in **TONS** of all PRMs collected for recycling is represented as **PRMs** in the Recycling Rate Calculation.

**Part II: Credits -** Report the amount in **TONS** of each material for which recycling credit is authorized in §10.1-1411.C of the *Code of Virginia*: (i) one ton for each ton of recycling residue generated in Virginia and deposited in a landfill permitted under §10.1-1408.1 of the *Code of Virginia*; (ii) one ton for each ton of any solid waste material that is reused; and, (iii) one ton for each ton of any non-municipal solid waste that is recycled. The total weight in **TONS** of all material for which credits are authorized is represented as **CREDITS** in the Recycling Rate Calculation. A credit of two percentage points of the minimum recycling rate mandated for the Solid Waste Planning Unit (SWPU) may be taken for a source reduction program that is implemented and identified in its Solid Waste Management Plan. Total credits may not exceed five percentage points of the Base Recycling Rate achieved by the SWPU.

**Part III: Total Municipal Solid Waste (MSW) Disposed:** Report the total amount in **TONS** of MSW that was disposed of by the Solid Waste Planning Unit (SWPU) during the reporting period for each of the source categories (Household, Commercial, Institutional, and Other). For the purpose of this report, "disposed," means delivery to a permitted sanitary landfill or waste incinerator for disposal, and excludes industrial wastes. Industrial waste and by-products should not be included in the MSW calculation. The total weight in tons of MSW disposed is represented as **MSW Disposed** in the Recycling Rate Calculation.

**Locality Recycling Rate Report Conversion Table**

<b>Material</b>	<b>Volume</b>	<b>Weight in Pounds</b>
<b>Metal</b>		
Aluminum Cans, Whole	One cubic yard	50-74
Aluminum Cans, Flattened	One cubic yard	250
Aluminum Cans	One full grocery bag	1.5
Ferrous Cans, Whole	One cubic yard	150
Ferrous Cans, Flattened	One cubic yard	850
Automobile Bodies	One vehicle	2,000
<b>Paper</b>		
Newsprint, Loose	One cubic yard	360-800
Newsprint, Compacted	One cubic yard	720-1,000
Newsprint	12" stack	35
Corrugated Cardboard, Loose	One cubic yard	75-100
Corrugated Cardboard, Baled	One cubic yard	1,000-2,000
<b>Plastic</b>		
PETE, Whole, Loose	One cubic yard	30-40
PETE, Whole, Loose	Gaylord	40-53
PETE, Whole, Baled	30" x 62"	500
Film, Baled	30" x 42" x 48"	1,100
Film, Baled	Semi-Load	44,000
Film, Loose	Standard grocery bag	15
HDPE (Dairy Only), Whole, Loose	One cubic yard	24
HDPE (Dairy Only), Baled	32" x 60"	400-500
HDPE (Mixed), Baled	32" x 60"	900
Mixed PET & Dairy, Whole, Loose	One cubic yard	32
Mixed PET, Dairy & Other Rigid (Whole, Loose)	One cubic yard	38
Mixed Rigid, No Film	One cubic yard	49
<b>Glass</b>		
Glass, Whole Bottles	One cubic yard	600-1,000
Glass, Semi-Crushed	One cubic yard	1,000-1,800
Glass, Crushed (Mechanically)	One cubic yard	800-2,700
Glass, Whole Bottles	One full grocery bag	16
Glass, Uncrushed to Manually Broken	55 gallon drum	125-500
<b>Arboreal</b>		
Leaves, Uncompacted	One cubic yard	200-250
Leaves, Compacted	One cubic yard	300-450
Leaves, Vacuumed	One cubic yard	350
Wood Chips	One cubic yard	500
Grass Clippings	One cubic yard	400-1,500
<b>Other</b>		
Battery (Heavy Equipment)	One	60
Battery (Auto)	One	35.9
Used Motor Oil	One gallon	7.4
Used Oil Filters (Uncrushed)	55 gallon drum	66 Lbs./Used Oil + 110 Lbs./Ferrous Metal
Used Oil Filters (Crushed)	55 gallon drum	16.5 Lbs./Used Oil + 368 Lbs./Ferrous Metal
Tire - Passenger Car	One	20
Tire - Truck, Light	One	35
Tire - Semi	One	105
Antifreeze	One gallon	8.42
Food Waste, Solid & Liquid Fats	55 gallon drum	412
Electronics: CRT/CPU/LapTop/TV	Each (avg wt from NCER)	38/26/8/49 respectively
<b>This Table For General Guidance Only.</b>		