



**2011
Virginia
Tipping Fee and
Recycling
Report**



**Draper Aden
Associates**

In the Spring of 2011 Draper Aden Associates sent questionnaires to solid waste managers in Virginia to gather and compare information about tipping fee rates, recycling programs, and current concerns. This report is a summary of the results of that survey. More information and related data can be found at www.daa.com. Thanks to all who responded to aid in this research.

Survey results point to a significant fact that we all know instinctively – managing solid waste is a challenge. Although the primary driver appears to be funding and the primary concern appears to be regulations, the business of solid waste and local government is getting more and more complicated for a number of reasons. It is not a simple task to ask about tipping fees without running into a number of complicated fee structures addressing such items as inside and outside of service area, commercial haulers, free loads for citizens, direct general fund payments, and fees for a whole host of separate items (CDD, tires, batteries, e-waste).

Fee structures for residential waste appeared most complicated juggling direct deliveries by citizens with local and private collection services. All respondents, however, were unanimous in assessing fees for commercial waste haulers with some charging the private sector the same as the public sector and others charging the private sector more than the public sector to ostensibly offset the government costs. Of interest however was the growing number of localities now offering discounts to the private sector to maintain their share of the market. Competition with the private sector or other public facilities for a diminishing waste stream may be driving the business.

To simplify the analysis, we focused on Authorities, Cities, and Counties. When reviewing the responses it became clear that one of the factors affecting responses is the number of Authorities now handling solid waste in Virginia. Below is a list of the Authorities or Boards in Virginia handling solid waste. Almost half of the Counties and over 50% of the independent cities are members of a regional facility. Many times a member of an Authority or Board would defer to the Authority to answer the survey. Because of this we may be changing our approach in the next survey.

Abbreviations & Terms

C = Closed
 CDD = Construction/Demolition Debris
 COM = Commercial
 HHW = Household Hazardous Waste
 LF = Landfill
 LFG = Landfill Gas
 MRF = Material Recovery Facility
 N/A = Not Applicable
 RES = Residential
 SW = Solid Waste
 TS = Transfer Station
 WM = Waste Management
 WTE = Waste to Energy

All fees listed are per ton unless otherwise indicated.

Name	Est.	Members
Augusta/Staunton/Waynesboro Waste Mgt. Board	1999	Cities: Staunton, Waynesboro; Counties: Augusta
Carroll/Grayson/Galax Solid Waste Authority	1993	Cities: Galax; Counties: Carroll, Grayson
Central Virginia Waste Management Authority	1990	Cities: Colonial Heights, Hopewell, Petersburg, Richmond; Towns: Ashland; Counties: Charles City, Chesterfield, Goochland, Hanover, Henrico, New Kent, Powhatan, Prince George
Cumberland Plateau Reg. Waste Mgt. Authority	1968	Counties: Buchanan, Dickenson, Russell
Montgomery Regional Solid Waste Authority	1995	Towns: Blacksburg, Christiansburg; Other: Virginia Tech; Counties: Montgomery; Serves as a member of the NRRA
New River Resource Authority	1986	Cities: Radford; Towns: Dublin, Pulaski; Counties: Pulaski, Giles; Works closely with MRSWA
Northern Shenandoah Valley Regional Commission	1971	Cities: Winchester; Towns: Shendandoah, Stanley, Toms Brook, Woodstock, Counties: Clarke, Frederick, Page, Shenandoah, Warren
Rappahannock Regional Solid Waste Mgt. Board	1987	Cities: Fredericksburg; Counties: Stafford
Region 2000 Public Services Authority	2008	Cities: Lynchburg and Bedford; Counties: Appomattox, Campbell and Nelson
Rivanna Solid Waste Authority	1990	Cities: Charlottesville; Counties: Albemarle
Roanoke Valley Resource Authority	1992	Cities: Roanoke; Towns: Vinton; Counties: Roanoke
Southside Regional Public Service Authority	2005	Towns: Boydton, Charlotte Courthouse, Chase City, Clarksville, Drakes Branch, Halifax, Keysville, LaCrosse, Phenix, Scottsburg, South Boston, South Hill, Virgiiina; Counties: Charlotte, Halifax, Mecklenburg
Southeastern Public Service Authority	1976	Cities: Chesapeake, Franklin, Norfolk, Portsmouth, Suffolk, Virginia Beach; Towns: Boykins, Branchville, Capron, Courtland, Ivor, Newsoms; Counties: Isle of Wight, Southampton
Virginia Peninsulas Public Service Authority	1989	Cities: Hampton, Poquoson, Williamsburg; Towns: Tappahannock, Urbanna, West Point; Counties: Essex, James City, King and Queen, King William, Mathews, Middlesex, York
Wythe/Bland Joint Public Service Authority	1993	Towns: Wytheville; Counties: Wythe, Bland

The information in this report was provided by respondents to a survey and is presumed to be correct. In some cases, the respondents were contacted by telephone and interviewed to clarify responses. However, Draper Aden Associates does not warrant the accuracy of the information presented in this report.

Tipping Fees

The table to the right summarizes the findings of this year's survey when compared with our last one which used data from 2007. This year included information for some localities that did not respond, using public information from websites or follow-up phone calls. This helped balance the information.

From 2007 to 2011, the average residential fees increased by about 7% while the average commercial fees increased by approximately 5.6%.

But averages can be deceiving and of greater interest is the distribution of the fees as illustrated in the table. For 2007, 27% of the residential fees were at \$50/ton or higher while in 2011, 46% of residential fees are \$50/ton or higher. In 2007, 37% of the commercial fees were at \$50/ton or higher while 51% of commercial fees were at \$50/ton or higher in 2011.

Range	2007				2011			
	*Res.	%	*Com.	%	*Res.	%	*Com.	%
\$20 - \$29	3	9%	1	2%	9	21%	5	8%
\$30 - \$39	9	27%	11	27%	4	9%	10	16%
\$40 - \$49	12	37%	14	34%	11	26%	16	25%
\$50 - \$59	6	18%	11	27%	13	30%	20	32%
\$60 - \$69	3	9%	4	10%	5	12%	11	17%
\$70+	0	0.0%	0	0.0%	1	2%	1	2%
Totals	33	100%	41	100%	43	100%	63	100%

*Number of respondents

Average Tipping Fee Rates

2007		2011	
Res.	Com.	Res.	Com.
\$41.73	\$44.98	\$44.68	\$47.50

The table below summarizes the tipping fee information provided. Due to the complexity of the responses and the limited reporting space we have consolidated the information. If you believe we have inadvertently misrepresented your information please contact Lynn Klappich at lklappich@daa.com by July 1, 2011 and an addendum will be issued.

Tipping Fees - Residential/Commercial

Locality	Do You Own a...				Landfill or Transfer Station Used	Summary		Outside Service Area
	Landfill		TS			Residential Public Collection	Commercial	
	Yes	No	Yes	No				
Accomack County	X			X	\$66.00	\$66.00	\$66.00	
Alleghany County			X			\$65.00		
Amherst County	X			X	\$53.00	\$44.00		
Augusta County Service Authority		X		X	Operate LF only		\$45.00	N/A
Bath County*	C		X			\$60.00		
Bedford County	X		X		\$57.00	\$38.00	N/A	
Bland County	C				Joint transfer with Wythe Co.	\$52.00	\$52.00	N/A
Botetourt County	X			X	Salem TS	\$46.00	\$46.00	N/A
Bristol, City of	X		X		City of Bristol ISWMF***	\$30.90	\$30.90	\$30.90
Buckingham County		X	X		Amelia and Prince Edward	\$28.00		
Private collection						\$40.00		
Buena Vista, City of		X		X	Rockbridge County LF	\$29.00	\$29.00	
Caroline County	C			X	Old Dominion LF - Hanover TS		\$43.00	
Carroll-Grayson-Galax SW Authority	X			X		\$50.00	\$50.00	N/A
Covington, City of	X			X		\$70.00	\$75.00	N/A
CPRWMA** (Buchanan County)	C		X			\$30.00	\$60.00	
CPRWMA** (Dickenson County)	C		X		Allied/Republic LF	\$60.00	\$60.00	N/A
CPRWMA** (Russell County)	C		X				\$41.30	\$0.00
Culpeper County	C		X		Old Dominion LF	\$48.50	\$48.53	\$48.53
Dinwiddie County*	C		X				\$35.00	
Fairfax County	X		X			\$60.00	\$60.00	\$55.00
FC/waste delivery disposal agreement						\$55.00	\$55.00	

* Data adjusted per website or phone confirmation. **Cumberland Plateau Regional Waste Management Authority *** Integrated Solid Waste Management Facility

Tipping Fees - Residential /Commercial

Locality	Do You Own a...				Landfill or Transfer Station Used	Summary		Outside Service Area
	Landfill		TS			Residential Public Collection	Commercial	
	Yes	No	Yes	No				
Fauquier County	X			X		\$50.00	\$55.00	\$36-46/ton
Floyd County	C		X		New River Resource Authority LF		\$55.00	None
Franklin County	X			X			\$32.00	
Grayson County		X		X	Carrol/Grayson/Galax SW Authority	\$50.00	\$50.00	
Greene County*			X			\$50.00	\$50.00	
Greensville County	X			X		\$40.00	\$40.00	\$40.00
Halifax County	C		X		Southside Regional PSA LF		\$49.50	N/A
Hanover County		X	X		Shoosmith LF		\$50.00	N/A
Harrisonburg, City of	C			X	Rockingham County LF	\$20.00	\$27.40	N/A
Henrico County	X					\$50.00	\$50.00	\$65.00
Lexington, City of		X		X	Rockbridge County LF	\$29.00	\$29.00	
Loudoun County	X		X		N/A		\$60.00	N/A
Louisa County	X			X			\$52.00	Not Accepted
Lunenburg County*	X					\$29.00	\$50.00	
Lynchburg, City of		X		X	Region 2000/Concord Tpk LF	\$25.00	\$35.00	
Martinsville, City of	C			X	1st Piedmont TS, Upper Piedmont LF	\$56.23	\$53.41	
Mecklenburg County*	X			X	Southside Regional PSA LF	\$40.00	\$40.00	
Montgomery Regional SW Authority*	C		X		New River Resource Authority LF	\$51.00	\$51.00	
Nelson County	C		X		Region 2000 in Lynchburg LF		\$55.00	N/A
New River Resource Authority	X			X		\$32.00	\$32.00	N/A
Northampton County	C		X		King & Queen LF		\$61.00	
Nottoway County	X			X			\$27.00	N/A
Orange County	X						\$52.00	N/A
Page County	X			X			\$45.00	\$45-\$60
Unusual waste (sludge)							\$60.00	
Patrick County*	C		X				\$50.00	
Petersburg, City of *					Sold landfill		\$30.00	
Pittsylvania County	X			X		\$41.00	\$41.00	
Prince Edward County	X			X		\$35.00	\$35.00	\$40.00
Prince William County*	X					\$45.00	\$45.00	\$45.00
Rappahannock Reg. SW -R Board	X			X			\$40.00	\$0.00
Region 2000 Services Authority	X			X		\$25.00	\$35.00	\$35.00
Richmond, City of	C		X		Charles City County LF	\$26.50		
Rivanna Solid Waste Authority*	C		X		TS at Ivy	\$66.00	\$66.00	
Roanoke Valley Resource Authority	X		X		N/A	\$45.00	\$55.00	N/A
Roanoke, City of		X		X	Smith Gap LF	\$45.00	\$55.00	
Rockbridge County*	X			X		\$29.00	\$29.00	
Rockingham County	X					\$48.00	\$48.00	
City rate						\$69.00	\$69.00	
Salem, City of	C		X		Amelia LF			\$49.50
Shenandoah County	X			X			\$36.00	\$0.00
Smyth County	C		X			\$52.00	\$52.00	
Spotsylvania County	X			X			\$45.00	
Staunton, City of	X			X	Augusta Co. SA Regional LF	\$45.00		N/A
Winchester, City of		X		X	Frederick County LF		\$45.00	
York County		X	X		BFI (King & Queen Co.) LF	\$52.00	\$52.00	

Tipping Fees - MSW Facilities Fee Comparison



Tipping Fees - Miscellaneous Items

Based on the data provided the average CDD tipping fee for commercial waste was \$48.27/ton in 2011 versus \$47.33 in 2007 (a 2% increase), and fees for brush in 2011 averaged \$40.10 for those reporting fees. Many indicated that no fee was charged for brush delivered to the facility. *All fees are per ton unless otherwise noted.*

Locality	CDD	Brush	Tires	Notes/Tire Units	HHW	E-waste
Accomack County	\$66.00	\$66.00	Varies		N/A	\$66.00
Amherst County	\$53.00	\$34.00	\$90.00	Per ton	\$0.00	\$0.00
Augusta County Service Authority	\$45.00	\$15.00	Varies	Car - \$1.50 off rim; \$3.00 on rim; Truck - \$8.00	\$0.00	\$0.00
Bedford County	\$38.00	\$38.00	\$38.00	Per ton plus \$1.00/tire for pass. Depends on tire size	\$0.00	\$0.00
Botetourt County	\$46.00	\$49.00	\$6.00	Delivered to convenience center	\$0.00	\$0.00
Bristol, City of	\$30.90	\$30.90	\$110.25	Per ton	N/A	N/A
Buena Vista, City of		\$29.00	Varies	\$1.50. \$3.00. \$8.00, \$168		
Caroline County			\$65/ton			
Carroll-Grayson-Galax SW Authority	N/A	N/A	Varies	Car/truck - \$1.00 off rim, \$2.00 on rim; truck \$4.00 off rim, \$8.00 on rim; other	N/A	N/A
Covington, City of	\$75.00	\$70.00	\$2.00	Per tire	N/A	N/A
Culpeper County	\$48.53	\$48.53	\$2.00	Per tire		
Cumberland County		\$0.00	\$1/tire	\$1.00 off rim; \$5.00 on rim	N/A	\$0.00
CPRWMA*-(Buchanan County)	\$60.00	\$60.00	\$70.00			\$0.00
CPRWMA*-(Dickenson County)	\$60.00	\$60.00	\$70.00			\$0.00
CPRWMA*-(Russell County)	\$41.30	\$0.00	\$83.50			\$0.00
Fairfax County	\$60.00	\$32.00	\$75.00	In state with certification form; other rates	\$0.00	\$0.00
Fauquier County	\$36-46	\$50-55	\$3/tire			\$0-5.00
Floyd County	None	None	\$100.00		none	recycle
Franklin, City of (monthly rate)	\$0.00	N/A	\$0.00		N/A	N/A
Franklin County	\$32.00	\$32.00	\$2.00		N/A	N/A
Grayson County			\$1.00			Donated
Greensville County	\$40.00	\$10.00	\$90.00		\$40.00	\$40.00
Hanover County	\$50.00	\$50.00	Varies		\$0.00	\$0.00
Harrisonburg, City of	N/A	N/A	N/A	N/A	N/A	N/A
Henrico County	\$50.00		Varies	Citizens - first 4 tires free then \$1/tire. Other is \$125/ton		
Lexington, City of	\$29.00	\$29.00	\$29.00		\$29.00	
Loudoun County	\$60.00	\$60.00	\$60.00	plus fee of \$1/ car tire w/o rim, \$2.25/truck tire w/o rim, \$13/small tractor tire w/o rim, \$25 large tractor tire or tire with rim	\$0.00	\$3-\$10

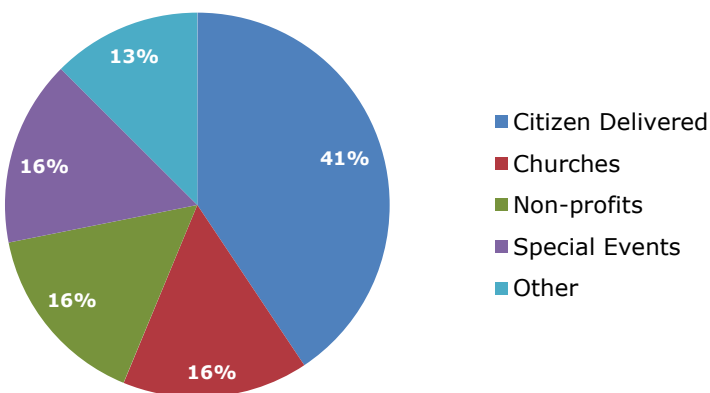
* Cumberland Plateau Regional Waste Management Authority

Tipping Fees - Miscellaneous Items

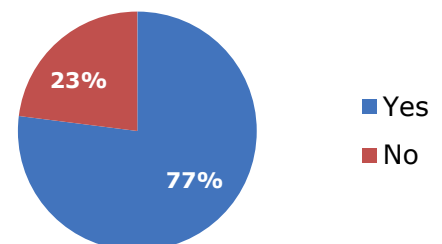
Locality	CDD	Brush	Tires	Notes/Tire Units	HHW	E-waste
Louisa County	\$45-\$52	\$45-\$52	Varies	\$2/residents 4 exempt per day (off rim up to 17" wheel diameter); \$5 (off rim 18"-24" , \$7 (on rim up to 17" , \$20 on rim 18"-24"	\$0.00	\$0.00
Lynchburg, City of		\$0.00	\$2/tire-\$4 large			
Martinsville, City of	\$53.41					
Mecklenburg County	\$40.00	\$10.00	\$100.00			
Nelson County	\$55.00	N/A	Varies	\$3 - \$8 per tire depending on size	\$42.50	\$0.00
New River Resource Authority	\$32.00	\$20.00	\$100		\$0.00	\$0.00
Northampton County	\$61.00	\$61.00	Depends on size			
Nottoway County	\$27.00	\$27.00	\$150.00		N/A	N/A
Orange County	\$52.00	\$52.00	\$2.50	\$2.50/tire 10 tires or less; \$200/ton for over 10 tires	N/A	N/A
Page County	\$60.00	\$0.00	\$155.00		N/A	\$0.00
Prince Edward County	\$0.00	\$0.00	\$75.00		\$0.00	\$0.00
Rappahannock Regional SW -R Board	\$40.00	\$40.00	\$110.00	\$200/ton for oversized tires	\$0.00	\$0.00
Region 2000 Services Authority	\$35.00	\$35.00	Varies	\$2 - 15" or less, \$4 - 15.5" - 22.5"		\$0.00
Richmond, City of						\$7.00
Roanoke, City of		\$35.00	\$45.00			
Roanoke Valley Resource Authority	\$55.00	\$35.00	\$140.00		Once Monthly	
Rockingham County	\$56.00		Varies	From website: \$2/small or \$3/large; \$125/ton larger than 18"; \$125/ton more than 15 tires		
City rate	\$77.00		Varies	\$2.50 per tire. Other rates apply.		
Shenandoah County	\$36.00	\$0.00	\$1.00		\$0.00	\$0.00
Smyth County	\$52.00					
Spotsylvania County	\$45.00	\$0.00	\$1-\$2/ea		\$0.00	
Staunton, City of	\$45.00	\$15.00	Varies			
Suffolk, City of	\$0.00	\$0.00	\$77.50		\$35.00	\$35.00
Winchester, City of	\$42.00	Free	Varies		Free	Varies
York County	\$52.00	\$38.00	\$1.50	Residential tires only		

Tipping Fees - Waste Not Charged

Survey participants were asked to provide information on which categories of generators were *not* charged for their waste. The following results were reported.



A follow-up question was asked relative to the local government covering the fees for this tonnage. Yes indicates payment of the fee.



Tipping Fees - Paid at Point of Delivery

Of the 64 facilities noted in the prior pages, there were 31 active landfills, 26 active transfer stations and 12 facilities that direct hauled to either a transfer station or a disposal facility. It should be noted that some localities owned more than one type of facility or had multiple operations.

Thirty-two facilities reported their direct payments to a receiving facility and these are summarized in the table below. Twenty-three different facilities were cited as receiving waste. Thirty-nine percent (9) were private sector facilities and 61% (14) were public facilities.

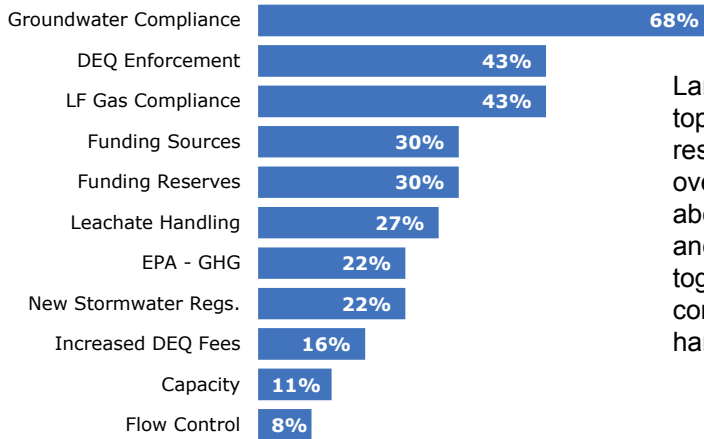
Average Landfill Fee	\$32.20
Average Transfer Station Fee	\$54.42

The average fee reported at landfills was \$32.20 and the average fee reported at transfer stations was \$54.42. The difference reflects the operation and hauling costs to the disposal facility.

Company	Landfill	TS	WTE	Facility
Appomattox County	\$25.00			Region 2000 - Concord Turnpike LF
Arlington County			\$82.91	Arlington Alexandra Covanta
Bland County		\$52.00		Wythe-Bland Joint PSA
Botetourt County	\$49.00	\$46.00		Salem TS
Buena Vista, City of	\$29.00			Rockbridge County
Buckingham County	\$40/\$28			WMX at Amelia and contract with Prince Edward LF
Caroline County	\$28.52			Old Dominion LF
Culpeper County	\$42.28			Old Dominion LF
Cumberland County	\$38.50			Arena hauls to Waste Mgt. in Amelia
CPRWMA*-(Buchanan County)		\$42.64		CPRWMA, Buchanan Co. TS, Allied Waste LF
CPRWMA*-(Dickenson County)		\$40.63		CPRWMA, Buchanan Co. TS, Allied Waste LF
CPRWMA*-(Russell County)		\$39.64		CPRWMA, Russell Co. TS, Allied Waste LF
Fairfax County	\$31.00		\$31.00	Prince William LF; King George LF; Covanta Fairfax
Floyd County		\$55.00		New River Resource Authority
Franklin, City of		\$150.00		Southeastern Public Service Authority-TS Route 671
Grayson County	\$50.00			Carroll/Grayson/Galax SWA
Harrisonburg, City of	\$69.00			Harrisonburg Res. Rec. Facility
Lexington, City of	\$29.00			Rockbridge County LF
Lynchburg, City of	\$25.00			Region 2000 - Concord Turnpike LF
Montgomery Regional SW Authority	\$32.00			NRRA* - Receives \$10/ton rebate @ end of month
Nelson County	\$25.00			Region 2000 - Concord Turnpike LF
Northampton County	\$24.73			King & Queen LF
Martinsville, City of		\$56.23		First Piedmont TS, Martinsville
Richmond, City of		\$26.50		Richmond Hopkins Rd SW TS
Roanoke, City of		\$45.00		RVRA - Tinker Creek TS
Roanoke County		\$45.00		RVRA - Tinker Creek TS
Salem, City of	\$21.12			Amelia Waste Management LF
Staunton, City of	\$45.00			Augusta Regional LF
Suffolk, City of				Southeastern Public Service Authority Regional LF - Suffolk
Virginia Peninsulas PSA	\$23.25			Middle Peninsula LF and Recycling Facility-Gloucester
Washington County	\$25.47			Carter Valley LF (BFI)
Winchester, City of	\$12.00			Frederick County LF
York County	\$11.24			BFI's LF, King & Queen Co.

* Cumberland Plateau Regional Waste Management Authority ** New River Resource Authority

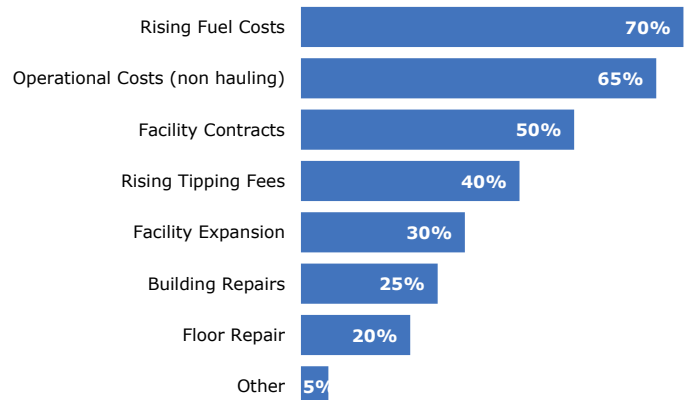
Landfill Owners Concerns



Landfill owners were asked what they considered to be their top three issues over the next five years. Thirty-seven localities responded with 118 comments. As the chart illustrates, an overwhelming number of respondents (68%) are concerned about groundwater compliance followed by DEQ enforcement and landfill gas compliance. If those three topics are combined together, almost half of the responses identified compliance concerns. The next three most important issues were leachate handling, funding sources, and future reserves.

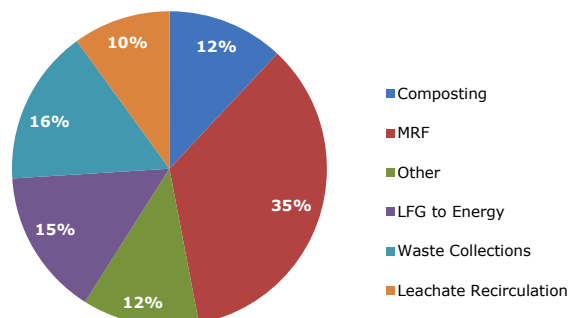
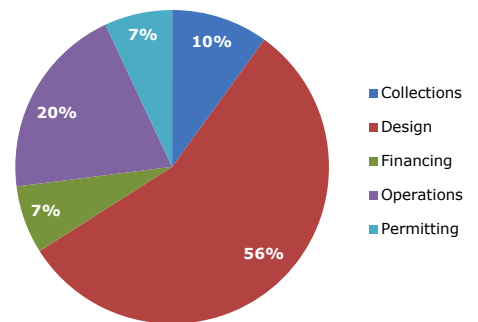
Transfer Station Owners Concerns

Transfer station owners were asked what they considered to be their top three issues over the next 5 years. Twenty localities responded with 61 comments. As the chart illustrates, the majority of the respondents were concerned about rising fuel costs, the cost of operations and contracts.



Operational Changes

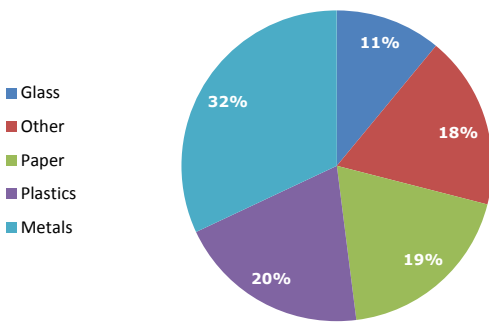
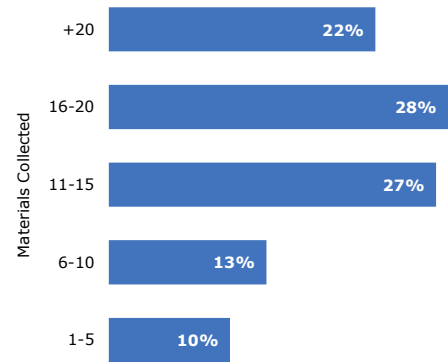
In trying to assess how satisfied operators were with their facilities, we asked if one item in the facility design or operation could be changed, what would that be and then we divided the responses into five categories including collections, design, financing, operations, and permitting. Twenty-nine localities responded with 30 responses. Of those answers, over 50% would change something in their design - in particular layouts or size of the facility. The primary operational change was identified as the addition of a material recovery facility.



To assess what operators are thinking about in relation to a rapidly changing industry, we asked about investing in new services or technologies (money being no object). Fifty-five localities responded with 60 responses. Of the total responses 35% are interested in development of some type of material recovery facility, whether on their own or as part of a regional effort. We believe this reflects a new commitment to recycling as disposal and fuel costs continue to rise.

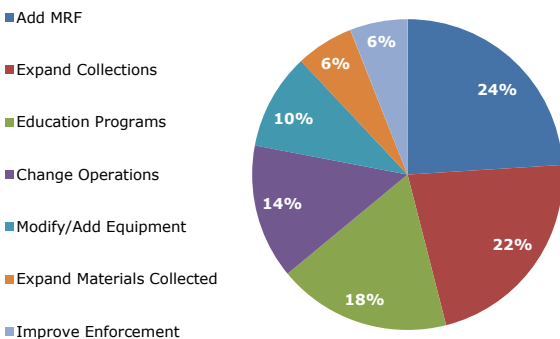
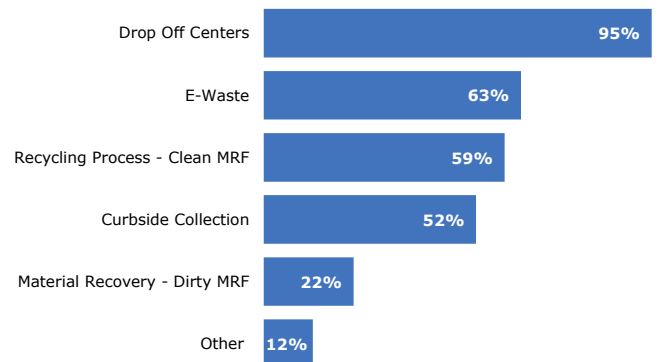
Recycling

This year 68 localities responded to questions on recycling. Ten of the localities indicated that they were currently operating a material recovery facility. We identified 28 possible materials to be recycled. The following chart illustrates the range of programs. Over 22% of the respondents collect over 20 different materials.



Overall, it appears that recycling programs are expanding including a greater diversity of materials. In a broad general category, metals had the highest total number of collection programs with glass having the least number of programs (330 programs versus 116).

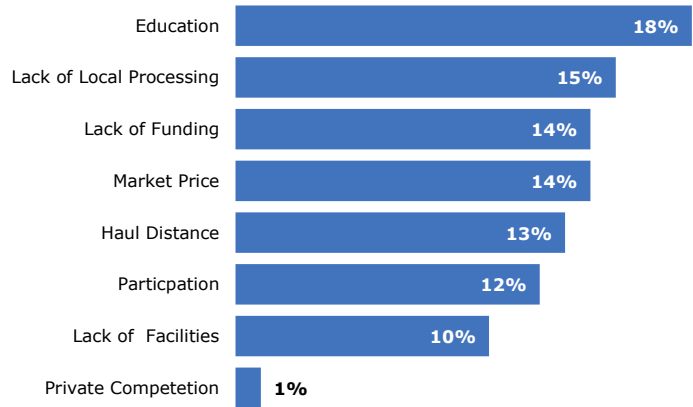
Ninety-five percent of the respondents collect recyclables through drop off centers with 79% of these operated publicly. Fifty-two percent indicated that curbside collection was available with 67% of these programs privately operated. Of interest is that forty-one localities reported some type of electronic waste collection program with 39% of these programs available on a full time basis.



Adding either a material recovery facility or expanding the collection system was the most prominent response when asked how programs would be changed if adequate funding was available. Of interest is that all responses indicated an expansion or improvement to existing systems. There were no comments about dropping programs or eliminating operations.

Recycling

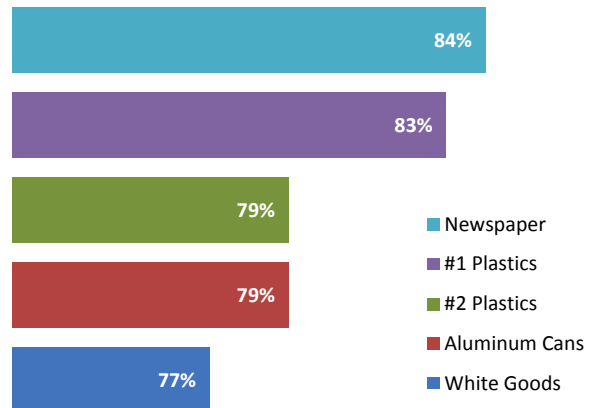
We asked survey participants about the primary challenges of their programs. Sixty-five localities responded as illustrated to the right. No one challenge stood out. Many indicated concern about their education program. After education, however, there seemed to be equal concern about markets, haul distances, funding, and participation.



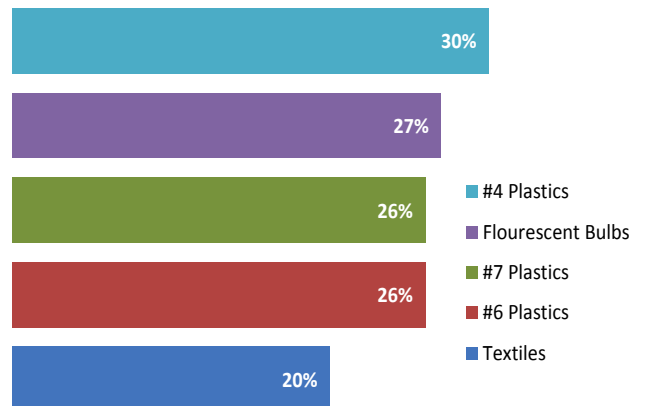
In summary, it appears that with rising costs for disposal and transfer, recycling and funding are receiving more attention although localities are still concerned about participation and educational programs. The varied type of materials being collected for recycling, including some of the more unusual plastics, e-waste and CDD seems to reflect a more comprehensive approach to solid waste management. The interest in material recovery facilities indicates a move to minimize disposal and to maximize the profits potentially available for recycling when viewed as a comprehensive program.

Locality	Materials Collected	Recycling				MRF
		Drop center		Curbside		
		Public	Private	Public	Private	
Accomack County	15	X				
Amelia County	23		X			
Amherst County	17	X	X			
Appomattox County	14	X			X	X
Arlington County	26	X			X	
Augusta County	18	X				
Augusta County Service Authority	8	X				
Bedford County	20	X			X	X
Bland County	5		X		X	
Botetourt County	14	X				
Bristol, City of	2	X	X			
Buckingham County	17	X	X			
Buena Vista, City of	15				X	
Caroline County	16		X			X
Carroll-Grayson-Galax SW Authority	13	X				
Charlottesville, City of	11				X	
Covington, City of	0					
CPRWMA-(Buchanan County)	18	X				
CPRWMA-(Dickenson County)	20	X				
CPRWMA-(Russell County)	21	X				
Culpeper County	14	X				
Cumberland County	8	X			X	
Dinwiddie County	24	X				
Fairfax County	23	X		X	X	
Fauquier County	23	X				X

*Top Five Materials Recycled



*Bottom Five Materials Recycled

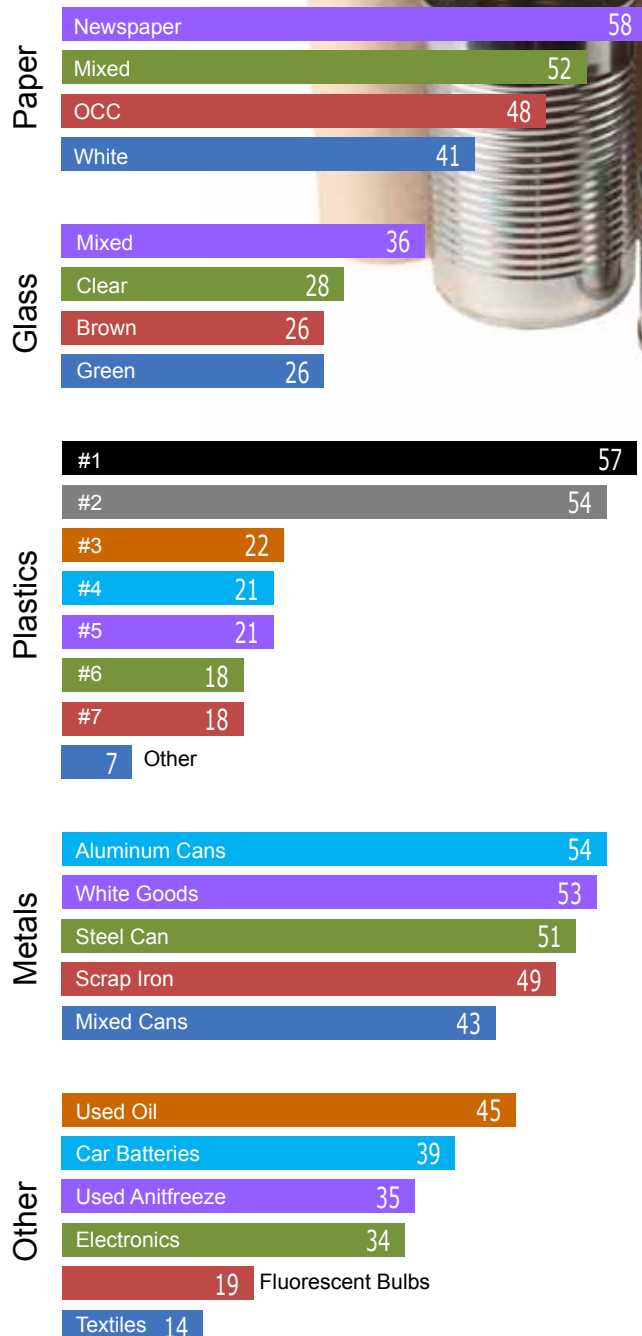


*Based on the total number of respondents

Recycling

Locality	Materials Collected	Recycling				MRF
		Drop center		Curbside		
		Public	Private	Public	Private	
Floyd County	19	X		X		X
Franklin County	9	X				
Franklin, City of	18				X	
Fredericksburg, City of	18	X		X		
Grayson County	20	X		X		
Greensville County	5					
Halifax County	5	X				
Hanover County	19	X			X	
Harrisonburg, City of	21		X	X	X	X
Henry County	13	X				
Lexington, City of	22			X		
Loudoun County	22		X		X	
Louisa County	23	X			X	
Lynchburg, City of	15	X			X	
Martinsville, City of	14	X				
Mecklenburg County	4	X				
Nelson County	16	X				
New River Resource Authority	10	X		X		X
Newport News, City of	22		X		X	
Northampton County	19	X				
Nottoway County	4	X				
Orange County	15	X				
Page County	23	X		X		
Pittsylvania County	7	X				
Prince Edward County	6	X				
Pulaski County	0					
Rappahannock Reg. SW -R Board	28	X			X	X
Region 2000 Services Authority	8					
Richmond, City of	3		X		X	
Roanoke County	14	X				
Roanoke Valley Resource Authority	14	X				
Roanoke, City of	14			X		X
Rockbridge County	18	X				
Salem, City of	10	X				
Shenandoah County	22	X				
Smyth County	12	X			X	
Spotsylvania County	20	X				
Staunton, City of	14	X		X		
Suffolk, City of	13		X		X	
Virginia Beach, City of	13		X		X	
Virginia Peninsulas PSA	23	X			X	
Washington County	18	X				X
Williamsburg, City of	10				X	
Winchester, City of	22			X		
York County	21	X	X		X	

The chart below summarizes the number of programs that handle the identified recycled materials. In addition to the traditional materials, recycling programs are expanding. The “other category” comprised 18% of the total responses and of interest is that 19 fluorescent bulbs programs were identified and 34 electronic programs.





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