

#### Finance, Administration and Oversight Committee

#### Information Item IV-D

March 13, 2008

**Review FY09 Subsidy Allocation** 

#### Washington Metropolitan Area Transportation Authority Board Action/Information Summary

□ ActionMEAD Number:Resolution:☑ Information☑ Yes ☑ No	Action Information		
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#### PURPOSE

To present the Board of Directors with an overview of the FY09 subsidy allocations.

#### DESCRIPTION

The subsidy allocation approved with the FY08 budget was based on the allocations included with the originally proposed budget, from December 2007. A number of significant management issues arose at Metro during the FY08 budget review period which precluded any opportunity to update the allocations in time for local government budget adoptions. The FY09 subsidy allocations have been presented in accordance with the Board approved formulas.

#### NEXT STEPS

Adjust subsidy allocations based on Board review and adoption of changes from the proposed budget. These changes will include subsidy increases approved by the Board in February 2008 for bus service increases.

# Review FY09 Subsidy Allocation

Presented to the Board of Directors:

Finance, Administration and Oversight Committee

March 13, 2008





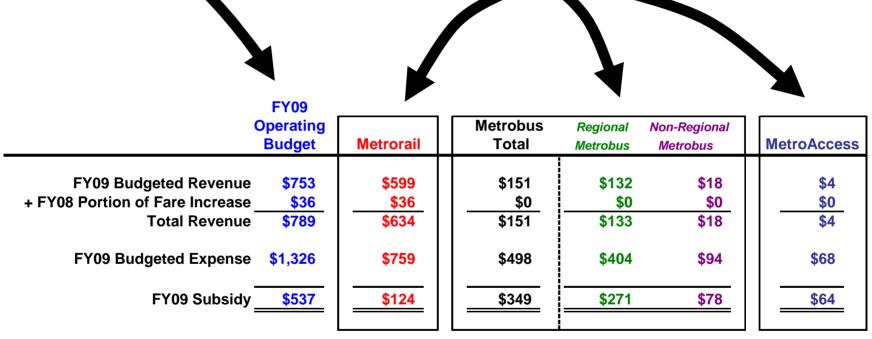


- Metro does not make a profit
- Revenue from passenger fares, advertising, fiber optic leases, joint development, etc. covers 60% of expenses
- The remaining 40% is subsidized by the local governments
- No federal funding exists for operating subsidy
- The subsidy is "allocated" to each jurisdiction using Board approved formulas

FY09 Proposed Revenue - Budget \$789 -	Expense = \$1,326 =	Subsidy \$537
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The "Operating Budget" is a collection of 4 mini-budgets called "Modes"

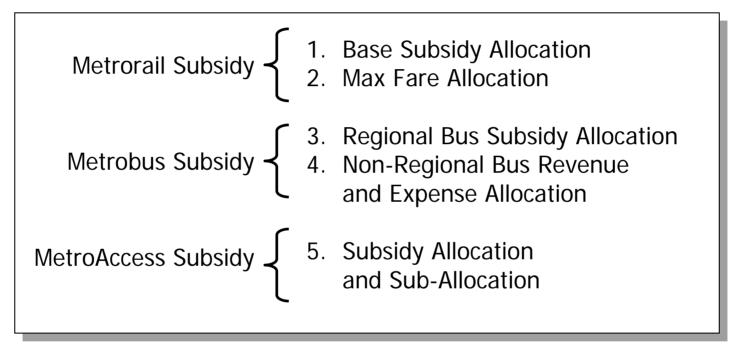


Each mode has its own unique subsidy allocation rules

Definition: Mode, meaning mode of transportation



• Each Operating Mode Has Unique Subsidy Allocation Formulas:



- The capital budget has different allocation formulas, which are frozen during the term of Metro Matters Through FY10
- Additionally, Jurisdictions arrange individual billing formulas for special projects (e.g., SE Bus Garage, Rosslyn Station, Glenmont Garage)



## Summary: Metrorail, Metrobus, MetroAccess FY2009 Operating Subsidy

-	Total	Metrorail	Metrobus	Regional	Non-Regional	MetroAccess
District of Columbia	\$203,717,783	\$41,318,185	\$148,802,431	\$116,210,860	\$32,591,571	\$13,597,167
Montgomery County	\$90,864,223	\$25,353,798	\$49,465,005	\$41,345,059	\$8,119,946	\$16,045,420
Prince George's County	\$116,248,426	\$22,227,530	\$68,483,122	\$44,720,513	\$23,762,609	\$25,537,773
Maryland Total	\$207,112,649	\$47,581,328	\$117,948,127	\$86,065,572	\$31,882,555	\$41,583,194
City of Alexandria	\$20,027,492	\$5,517,962	\$13,901,909	\$13,029,975	\$871,934	\$607,621
Arlington County	\$34,056,399	\$11,433,443	\$21,913,730	\$20,618,334	\$1,295,396	\$709,226
City of Fairfax	\$1,056,847	\$398,887	\$523,744	\$523,744	\$0	\$134,216
Fairfax County	\$69,962,541	\$17,809,278	\$44,501,124	\$33,484,211	\$11,016,913	\$7,652,139
City of Falls Church	\$1,508,789	\$306,217	\$1,135,735	\$1,135,735	\$0	\$66,838
Virginia Total	\$127,167,825	\$35,465,787	\$81,976,242	\$68,791,999	\$13,184,243	\$9,725,796
_ Total Subsidy	\$537,442,500	\$124,365,300	\$348,726,800	\$271,068,430	\$77,658,370	\$64,350,400

Note:

Replaces page 34 (Table 3.6) Proposed FY2009 Annual Budget

Does not include debt service

Does include impact of FY08 budget amendments

Why are jurisdictional subsidy amounts changing?

Two reasons:

**Subsidy Allocation** 

- (\$0.2) million data error allocated too much cost to rail mode and dropped a minor revenue account
- \$2.1 million for service changes approved in Feb 2008 increases the FY09 subsidy: Bus Routes NH-1, N22, 79

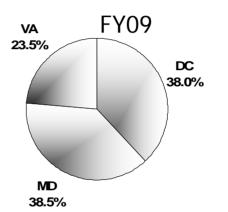
	Total			
	Subsidy	Metrorail	Metrobus	MetroAccess
Published Subsidy	\$535,518,366	\$129,998,247	\$341,822,169	\$63,697,951
Adjustments:				
Allocation Correction	(\$176,866)	(\$5,632,947)	\$4,803,631	\$652,450
National Harbor NH-1	\$1,159,000		\$1,159,000	
79 Metro Extra add-on	\$770,000		\$770,000	
N22 for Baseball Season	\$172,000		\$172,000	
	\$1,924,134	(\$5,632,947)	\$6,904,631	\$652,450
Revised Subsidy	\$537,442,500	\$124,365,300	\$348,726,800	\$64,350,401

JCC has been briefed on these subsidy changes and provided with all calculations and data

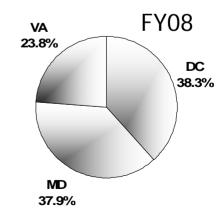


# Change in Subsidy

Total Operating			
Subsidy	FY08	FY09	Change
District of Columbia	\$191	\$204	\$12 6%
Montgomery County	\$85	\$91	\$5
Prince George's County	\$104	\$116	\$12
Maryland Total	\$190	\$207	\$18 9%
City of Alexandria Arlington County City of Fairfax Fairfax County City of Falls Church Virginia Total	\$20 \$34 \$1 \$62 \$2 <b>\$119</b>	\$20 \$34 \$1 \$70 <u>\$2</u> <b>\$127</b>	\$0 \$0 \$0 \$8 <u>\$0</u> <b>\$8</b> <b>7%</b>
Total Subsidy	\$500	\$537	\$38 8%
\$ Millions			



Share of Subsidy





**Technical Appendix** 



- 1. Metrorail Base Subsidy Allocation
  - This subsidy is allocated to the jurisdictions based on 1/3 equal shares of each jurisdiction's:
    - o Density weighted population, by jurisdiction of residence
    - o Average weekday ridership, by jurisdiction of residence
    - o Number of rail stations, by jurisdiction

Population and Population density are updated every 10 years – US Census Rail station counts change as new stations open for business Ridership by jurisdiction of residence is updated periodically using surveys



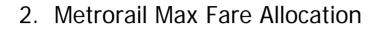
# 1. Metrorail Base Subsidy Allocation

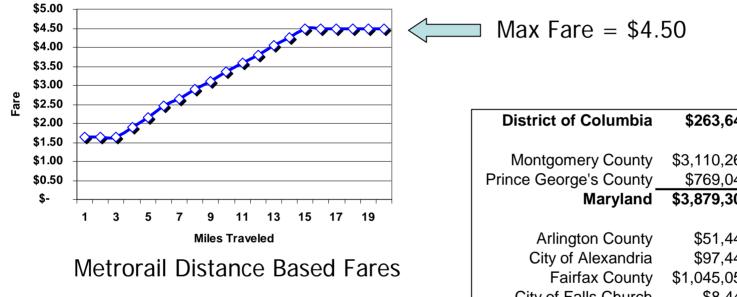
	Pop/Pop Density	Ridership by Jurisd.	Stations by Jurisd.	Jurisd. Shares	Allocated Subsidy
Allocation by Signatory:	Density	by Julisu.	by Julisu.	Shares	Subsidy
District of Columbia	00/	100/	460/	35%	¢44.054.540
	9%	10%	16%		\$41,054,542
Maryland	13%	13%	10%	37%	\$43,702,026
Virginia	<u>11%</u>	<u>10%</u>	<u>7%</u>	<u>29%</u>	\$34,219,372
	33%	33%	33%	100%	\$118,975,940
Sub-allocation by Jurisdiction:					
Montgomery County	7%	7%	5%	19%	\$22,243,537
Prince George's County	<u>6%</u>	<u>6%</u>	<u>6%</u>	<u>18%</u>	\$21,458,489
Maryland	13%	13%	10%	37%	\$43,702,026
City of Alexandria	2%	2%	1%	5%	\$5,420,514
Arlington County	2%	3%	4%	10%	\$11,382,002
<b>.</b>					
City of Fairfax	0%	0%	0%	0%	\$354,861
Fairfax County	7%	5%	2%	14%	\$16,764,221
City of Falls Church	<u>0%</u>	<u>0%</u>	<u>0%</u>	<u>0%</u>	\$297,773
Virginia	11%	10%	7%	29%	\$34,219,372
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- 2. Metrorail Max Fare Allocation
  - Long-distance rail fares are capped at \$4.50.... "Max Fare"
  - Mileage tiers for longer-distance travel stop adding to the fare
  - This results in passenger revenue loss compared to what the revenue would have been without this cap
  - $\frac{1}{2}$  this revenue loss is allocated specifically to jurisdictions
  - Allocated based on ridership by jurisdiction of residence
  - Ridership data is collected every other year as part of rail passenger survey







\$263,643	5%
\$3,110,261	58%
\$769,041	14%
\$3,879,302	72%
\$51,441	1%
\$97,448	2%
\$1,045,057	19%
\$8,444	0%
\$44,026	1%
\$1,246,415	23%
\$5,389,360	100%
	\$3,110,261 \$769,041 <b>\$3,879,302</b> \$51,441 \$97,448 \$1,045,057 \$8,444 \$44,026 <b>\$1,246,415</b>



- 3. Metrobus Regional Subsidy Allocation
  - The subsidy is allocated to the jurisdictions based on equal shares of each jurisdiction's:
    - o Density weighted population, by jurisdiction of residence = 25%
    - o Ridership, by jurisdiction of residence = 15%
    - o Revenue miles per jurisdiction = 35%
    - o Revenue hours per jurisdiction = 25%



# 3. Metrobus Regional Subsidy Allocation

Allocation by Signatory:	Pop/Pop Density	Ridership by Jurisd.	Revenue Miles	Revenue Hours	Sum	Allocated Subsidy
District of Columbia	6%	8%	15%	13%	43%	\$116,210,860
Maryland	10%	5%	11%	6%	32%	\$86,065,572
Virginia						\$68,791,999
virginia	<u>8%</u> 25%	<u>2%</u> 15%	<u>9%</u> 35%	<u>5%</u> 25%	<u>25%</u> 100%	. , ,
	23%	15%	33%	25%	10076	\$271,068,430
Sub-allocation by Jurisdiction:						
Montgomery County	5%	2%	5%	3%	15%	\$41,345,059
Prince George's County	<u>5%</u>	<u>3%</u>	<u>6%</u>	<u>3%</u>	<u>16%</u>	\$44,720,513
Maryland	10%	5%	11%	6%	32%	\$86,065,572
City of Alexandria	1%	1%	2%	1%	5%	\$13,029,975
Arlington County	2%	1%	3%	2%	8%	\$20,618,334
City of Fairfax	0%	0%	0%	0%	0%	\$523,744
Fairfax County	5%	1%	4%	2%	12%	\$33,484,211
City of Falls Church	<u>0%</u>	<u>0%</u>	<u>0%</u>	<u>0%</u>	0%	\$1,135,735
Virginia	8%	2%	9%	5%	23%	\$68,791,999
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- 4. Metrobus Non-Regional Subsidy Allocation
  - Non-regional Metrobus service is operated at the specific request of each individual jurisdiction
  - The subsidy is allocated directly back to each requesting jurisdictions based on:
    - o Scheduled platform hours x cost per platform hour The cost per hour is a marginal cost rate
    - o Less passenger revenue collected



# 4. Metrobus Non-Regional Subsidy Allocation

	Platform Hours	Cost Per Platform Hours	Operating Expense	Passenger Revenue	Subsidy
District of Columbia	396,496	\$102.41	\$40,605,200	\$8,955,629	\$31,649,571
Montgomery County	101,367	\$102.41	\$10,380,969	\$2,261,023	\$8,119,946
Prince George's County	272,445	\$102.41	\$27,901,104	\$5,297,495	\$22,603,609
Maryland	373,812		\$38,282,073	\$7,558,518	\$30,723,555
City of Alexandria	9,877	\$102.41	\$1,011,504	\$139,569	\$871,934
Arlington County City of Fairfax	16,120	\$102.41	\$1,650,875	\$355,479	\$1,295,396
Fairfax County City of Falls Church	120,815	\$102.41	\$12,372,639	\$1,355,726	\$11,016,913
Virginia	146,812	\$102.41	\$15,035,017	\$1,850,774	\$13,184,243
	917,120	\$102.41	\$93,922,290	\$18,364,920	\$75,557,370



- 4. MetroAccess Subsidy Allocation
  - The subsidy is allocated to the jurisdictions based on:
    - o Cost of the service, less revenue collected
    - o By the rider's jurisdiction of residence
    - o Allocations are applied to DC / MD / VA based on trips per jurisdiction of residence
    - o The VA jurisdictions then have a sub-allocation process based on trip distance



## 4. MetroAccess Subsidy Allocation

Jurisdiction:	Expense	Revenue	Subsidy
District of Columbia	\$14,421,233	\$824,066	\$13,597,167
Montgomery County	\$17,017,864	\$972,444	<b>\$16,045,420</b>
Prince George's County	\$27,085,508	\$1,547,734	<b>\$25,537,773</b>
Virginia Total	\$9,725,796	\$555,757	<b>\$9,170,039</b>
=	\$68,250,400	\$3,900,000	\$64,350,400
Virginia Sub-Allocations:			
City of Alexandria	\$646,303	\$38,682	\$607,621
Arlington County	\$765,814	\$56,588	\$709,226
City of Fairfax	\$141,067	\$6,852	\$134,216
Fairfax County	\$8,099,622	\$447,483	\$7,652,139
City of Falls Church	\$72,990	\$6,153	\$66,838
	\$9,725,796	\$555,757	\$9,170,039



#### **Regional Metrobus Revenue Hours by Jurisdiction**

Sept 2007 Schedule

Formula	А	B=(Ajur/Atot)	C=(B*1/4)
	Revenue Hours	Percent of Total	Formula Weight
District of Columbia	1,195,869	53%	13%
Montgomery County	277,604	12%	3%
Prince George's County	303,402	13%	3%
Maryland	581,006	26%	<b>6%</b>
City of Alexandria	101,217	4%	1%
Arlington County	171,746	8%	2%
City of Fairfax	-	0%	0.0%
Fairfax County	197,123	9%	2%
City of Falls Church	7,665	0%	0.1%
Virginia	477,751	21%	<b>5%</b>
Total	2,254,626	100%	25%



#### **Regional Metrobus Revenue Miles by Jurisdiction**

Sept 2007 Schedule

Formula	Α	B=(Ajur/Atot)	C=(B*7/20)
	Revenue Miles	Percent of Total	Formula Weight
District of Columbia	12,148,350	43%	15%
Montgomery County	4,057,338	14%	5%
Prince George's County	4,567,888	16%	6%
Maryland	8,625,226	31%	11%
City of Alexandria	1,452,103	5%	2%
Arlington County	2,439,686	9%	3%
City of Fairfax	0	0%	0.0%
Fairfax County	3,333,386	12%	4%
City of Falls Church	103,149	0%	0.1%
Virginia	7,328,324	26%	<b>9%</b>
Total	28,101,900	100%	35%



#### **Regional Metrobus Ridership by Jurisdiction of Residence**

Regional Bus Study Survey May 2007 Average Weekday Ridership

Formula	Α	B=(Ajur/Atot)	C=(B*3/20)	
	Ridership by Jurisdiction of Residence	Percent of Total	Formula Weight	
District of Columbia	193,403	53.3%	8%	
Montgomery County	42,640	12%	2%	
Prince George's County	66,957	18%	3%	
Maryland	109,597	30%	5%	
City of Alexandria	14,855	4%	1%	
Arlington County	23,406	6%	1%	
City of Fairfax	1,567	0%	0%	
Fairfax County	16,586	5%	1%	
City of Falls Church	3,137	1%	0%	
Virginia	59,551	16%	2%	
Total	362,551	100%	15%	



## Metrorail Ridership by Jurisdiction of Residence

Average Weekday Ridership May 2007 Passenger Survey Data

Formula	Α	B=(Ajur/Atot)	C=(B*1/3)	
	Ridership by Jurisdiction of Residence	Percent of Total	Formula Weight	
District of Columbia	193,446	30%	10%	
Montgomery County	135,228	21%	7%	
Prince George's County	119,483	19%	6%	
Maryland	254,711	40%	13%	
City of Alexandria	28,829	5%	2%	
Arlington County	64,991	10%	3%	
City of Fairfax	2,439	0%	0.1%	
Fairfax County	92,698	14%	5%	
City of Falls Church	2,867	0%	0.1%	
Virginia	191,823	30%	10%	
Total	639,980	100%	33%	

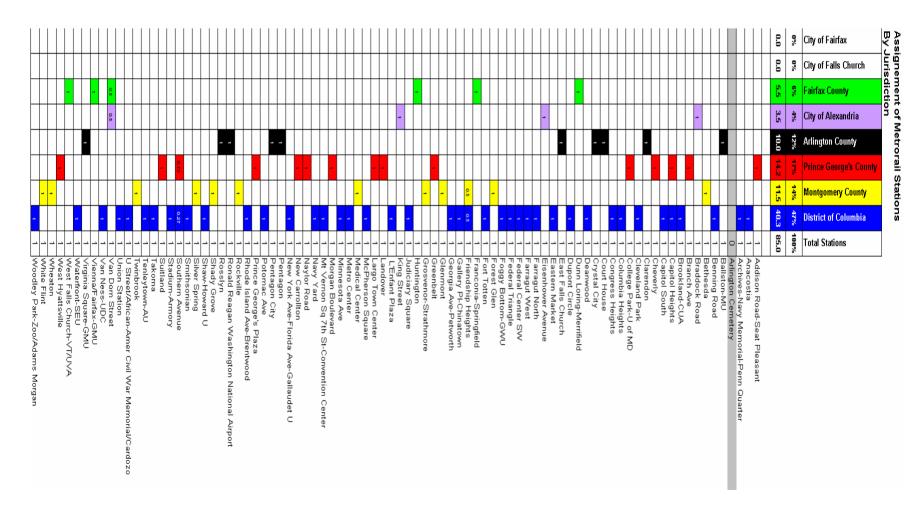


### Metrorail Station Assignments by Jurisdiction

Formula	Α	B=(Ajur/Atot)	C=(B*1/3)	
	Metrorail			
	Stations by	Percent	Formula	
	Jurisdiction	of Total	Weight	
District of Columbia	40.3	47%	16%	
Montgomery County	11.5	14%	5%	
Prince George's County	14.2	17%	6%	
Maryland	25.7	30%	10%	
City of Alexandria	3.5	4%	1%	
Arlington County	10.0	12%	4%	
City of Fairfax	0.0	0%	0%	
Fairfax County	5.5	6%	2%	
City of Falls Church	0.0	0%	0%	
Virginia	19.0	22%	7%	
Total	85.0	100%	33%	



# Inventory of Metrorail stations by jurisdiction



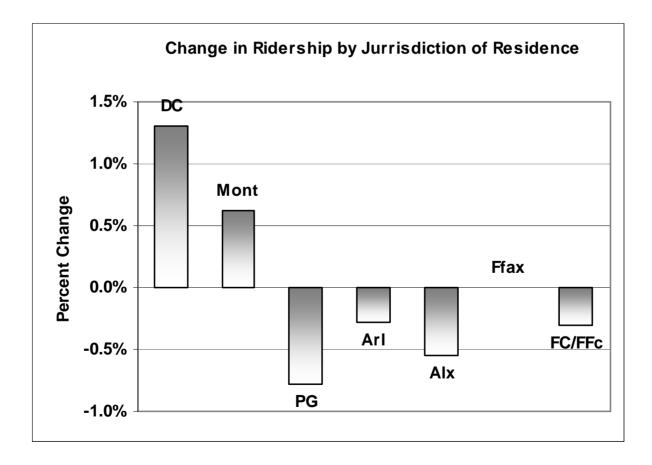


#### Population & Population Density from 2000 US Census

Formula	А	В	C=(B/A)	D=(B*C)/1M	E=(Bjur/Btot)	F=(Djur/Dtot)	G=(E+F)/2	H=(G*1/3)	l=(G*1/4)
	UZA Land	2000 Pop	Pop.	Density		Density	Pop/Pop	Rail	Bus
	Area sq/mil.	of UZA	Desity	Wght. Pop	UZA Pop.	Wght.	Density	Formula	Formula
Jurisdiction	2000 Cen.	2001 Cen.	UZA	Millions	Dist	Pop Dist	Dist	Weight	Weight
District of Columbia	61	572,059	9,326	5,335	16.3%	35.5%	25.9%	8.6%	<b>6.5%</b>
Maryland	518	1,624,290	3,134	5,090	46.4%	33.9%	40.1%	13.4%	10.0%
Virginia	370	1,305,693	3,526	4,604	37.3%	30.6%	34.0%	<u>11.3%</u>	<u>8.5%</u>
								33.3%	<b>25.0%</b>
Montgomery County	254	843,747	3,321	2,802	51.9%	54.9%	53.4%	7.1%	5.4%
Prince George's County		780,543	2,954	2,306	48.1%	45.1%	46.6%	6.2%	4.7%
Frince George's County	204	700,043	2,904	2,300	40.170	40.176	40.078	0.2 /0	4.7 /0
City of Alexandria	15	128,283	8,440	1,083	9.8%	19.9%	14.9%	1.7%	1.3%
Arlington County	26	189,453	7,304	1,384	14.5%	25.4%	20.0%	2.3%	1.7%
City of Fairfax	6	21,498	3,490	75	1.6%	1.4%	1.5%	0.2%	0.1%
Fairfax County	321	956,082	2,978	2,848	73.2%	52.3%	62.8%	7.1%	5.3%
City of Falls Church	2	10,377	5,189	54	0.8%	1.0%	0.9%	0.1%	0.1%



## 2007 Rail Passenger Survey Changes in Ridership by Jurisdiction of Residence





## 2009 Allocations Corrections

_	Total	Metrorail	Metrobus	Regional	Non-Regional	MetroAccess
District of Columbia	(\$1,558,760)	(\$1,943,738)	\$1,905,874	\$4,540,721	(\$2,634,847)	(\$1,520,896)
Montgomery County	(\$464,826)	(\$1,053,126)	(\$623,931)	\$1,615,481	(\$2,239,412)	\$1,212,231
Prince George's County	\$1,610,361	(\$1,015,958)	\$1,526,622	\$1,747,370	(\$220,748)	\$1,099,696
Maryland Total	\$1,145,535	(\$2,069,084)	\$902,691	\$3,362,851	(\$2,460,160)	\$2,311,928
City of Alexandria	\$137,322	(\$256,636)	\$468,544	\$509,122	(\$40,578)	(\$74,586)
Arlington County	\$175,095	(\$538,884)	\$737,966	\$805,623	(\$67,657)	(\$23,987)
City of Fairfax	(\$2,388)	(\$16,801)	\$20,464	\$20,464	\$0	(\$6,051)
Fairfax County	(\$17,768)	(\$793,706)	\$723,715	\$1,308,332	(\$584,617)	\$52,223
City of Falls Church	(\$55,902)	(\$14,098)	\$44,377	\$44,377	\$0	(\$86,180)
Virginia Total	\$236,359	(\$1,620,125)	\$1,995,066	\$2,687,918	(\$692,852)	(\$138,582)
Total Subsidy	(\$176,866)	(\$5,632,947)	\$4,803,631	\$10,591,489	(\$5,787,858)	\$652,450