2010 Service Evaluation Study



Public Meeting Routes: 23A,C & 25A,C,D September 21 and 23, 2010

What Will We Be Doing At This Meeting?

- Introduce project team
- Describe study purpose and background
- Review project schedule
- Review transit assessment
- Roundtable discussion of service issues
- Describe next steps
- Explain how you can participate



Project Staff

- Girum Meseret, WMATA
- Tim Rosenberger, PB
- Brian Laverty, PB
- Caroline Nardi, PB



What is the Purpose of this Project?

- Examine the service efficiency of various routes to improve:
 - -on-time performance
 - -reliability
 - -frequency
 - -travel time, and
 - -bus stop amenities





Project Background

• Why this project?

-WMATA and partner jurisdictions are taking a systematic look at bus routes throughout the region

- What is the goal of the study?
 - Recommend service improvements as part of annual budget process



Project Background

- Project Methodology
 - Collect and analyze data
 - Talk to bus operators and service planners
 - Conduct a public meeting
 - Develop and evaluate service change plans
 - Develop recommendations and implementation strategy



Project Schedule

- Collect and analyze data, July to August
- Public meetings, 9/21 and 9/23
- Develop and evaluate service change plans, October
- Prepare draft recommendations, October
- Public meetings to discuss preliminary recommendations, 11/3 and 11/17
- Final recommendations, January 2011



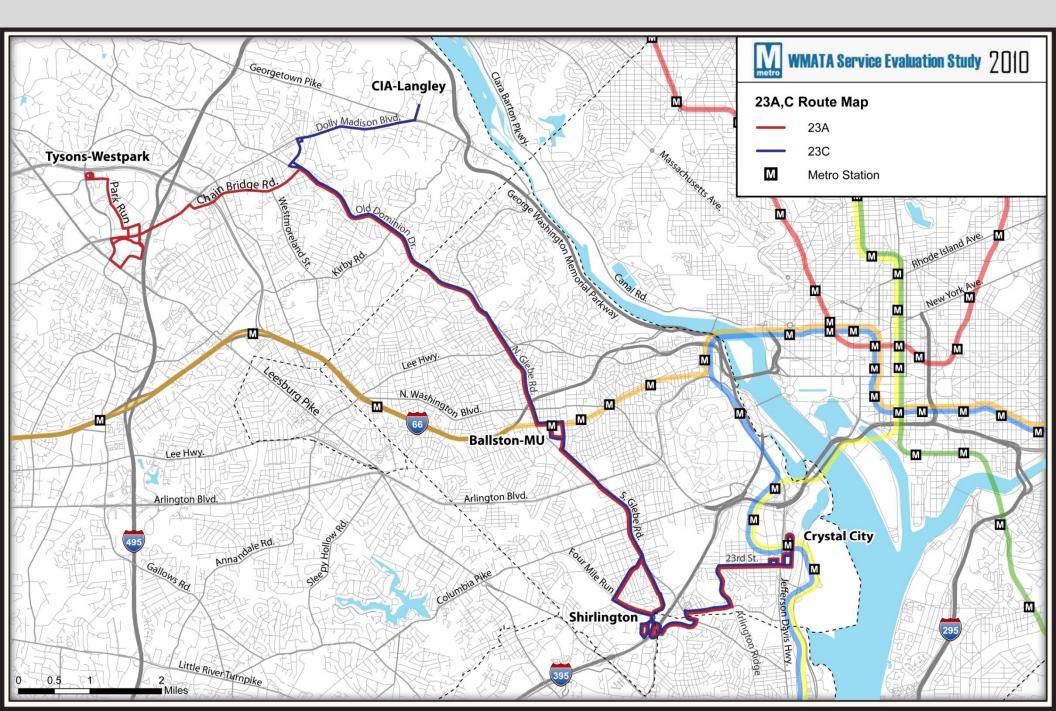


23A,C History

- Became a WMATA route in 1974
- Several variants between 1974 and 1979 while Orange Line under construction
- 23X, which ran between Great Falls and Ballston, eliminated in 1991
- Service extended to Tysons-Westpark Transit Station in 1999
- Line rerouted to serve new Shirlington Transit Center in 2008

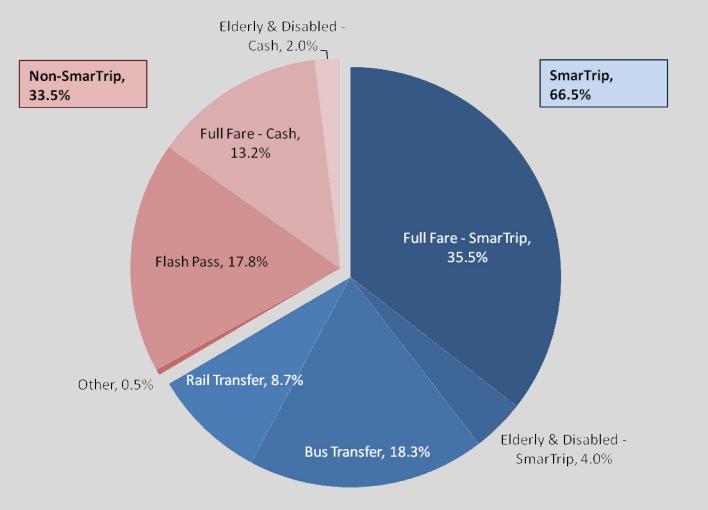


23A,C Route Map



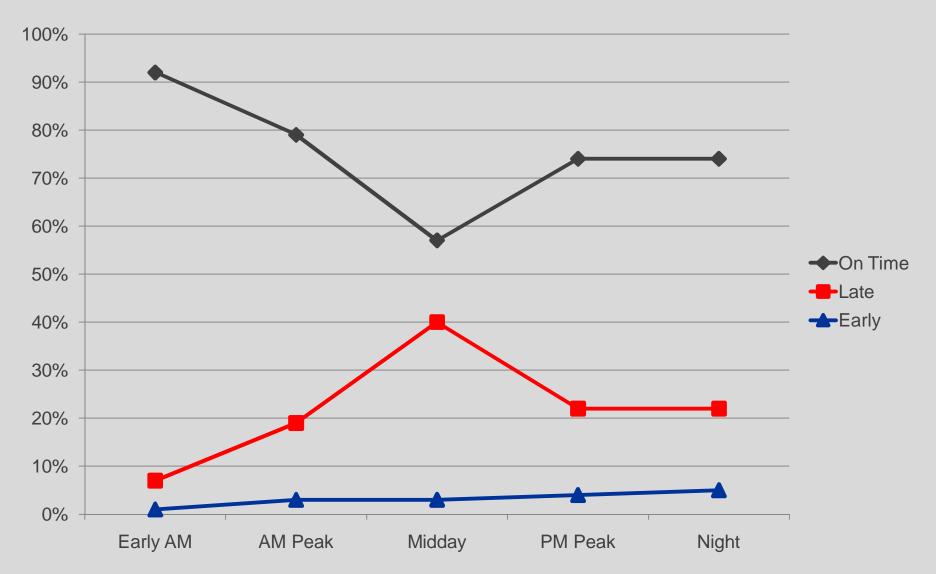
23A,C Transit Service Assessment

23A,C Fare Payment





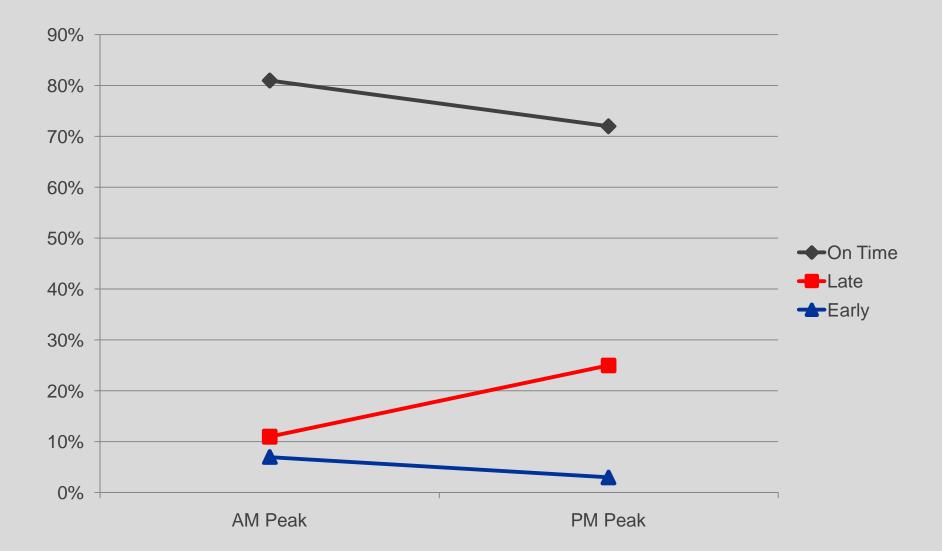
Weekday 23A On-Time Performance



On-time performance represents average for all daily trips.



Weekday 23C On-Time Performance



On-time performance represents average for all daily trips.

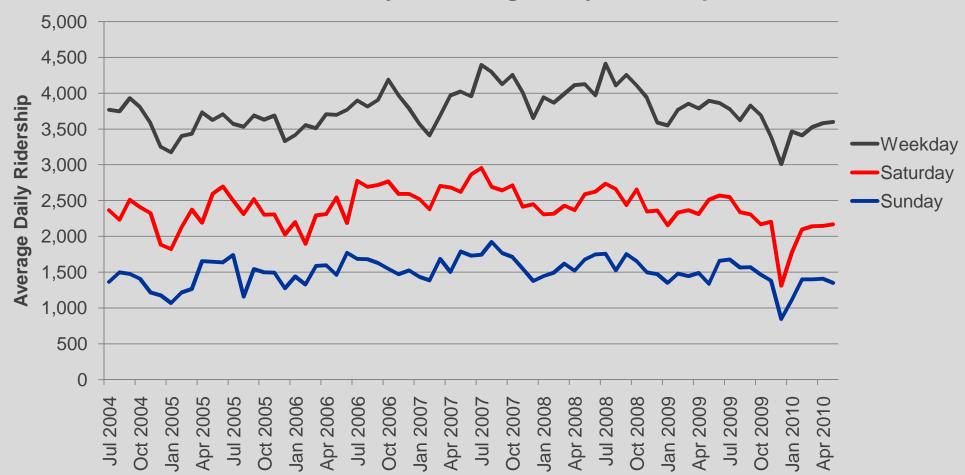


23A,C Ridership and Farebox Recovery

	Weekdays (23A,C)	Saturdays (23A only)	Sundays (23A only)
Average Daily Boardings	3,550	2,110	1,380
Boardings/Mile	3	2	3
Boardings/Trip	48	33	44
Farebox Recovery	18.9%	16.5%	21.9%



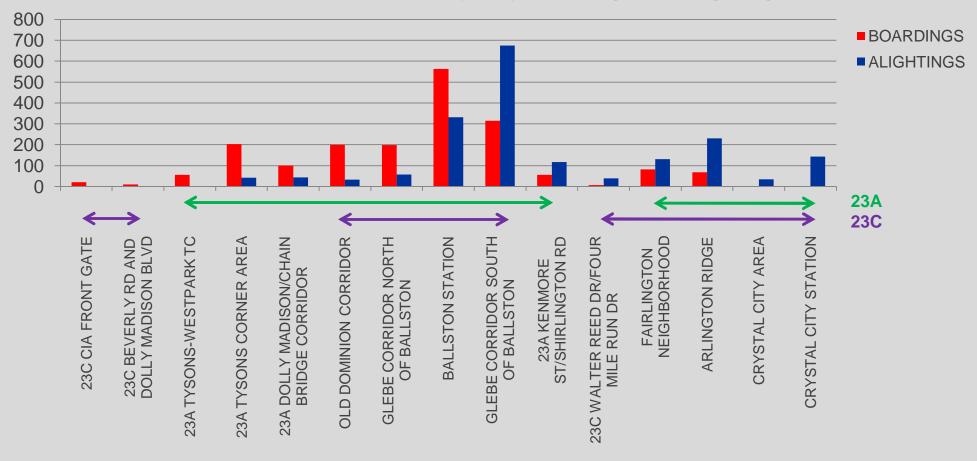
23A,C Ridership



Route 23A,C Six-year Average Daily Ridership



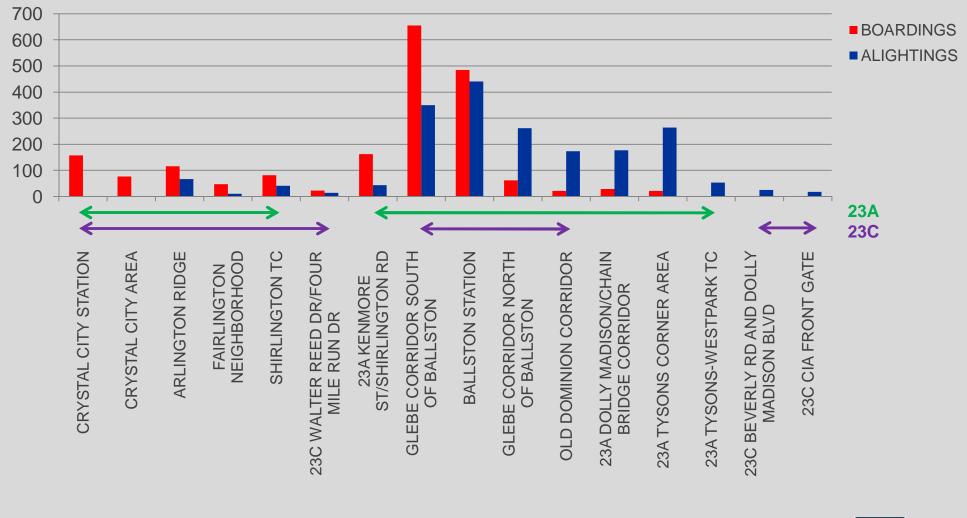
23A,C Boardings and Alightings—Eastbound



23A,C Eastbound WeekdayDaily Boardings and Alightings



23A,C Boardings and Alightings—Westbound



23A,C Westbound Weekday Daily Boardings and Alightings



23A,C Capacity and Loading

	Eastbound		
	Peak Load Point	Capacity at Point	
AM Peak	Glebe Road/7th Street	23.6%	
Midday	Randolph Road/Wilson Blvd.	45.7%	
PM Peak	Randolph Road/Wilson Blvd.	50.9%	
Night	Randolph Road/Wilson Blvd.	42.5%	
	Westbound		
	Westbou	nd	
	Westbou Peak Load Point	nd Capacity at Point	
AM Peak		-	
AM Peak Midday	Peak Load Point Glebe Road/Quincy	Capacity at Point	
	Peak Load Point Glebe Road/Quincy Street Glebe Road/Quincy	Capacity at Point 63.8%	

Busiest Stops

Stop Location	Average Weekday Boardings
Ballston Station (Bus Bay E)	563
Ballston Station (Bus Bay C)	485
S Glebe Road and Columbia Pike	269
S Clark Street and 18th Street	157
N Glebe Road and Pershing Drive	74
S Glebe Road and Columbia Pike	58
Tysons Westpark Transit Station (Bus Bay D)	56
Carlin Springs Road and Columbia Pike	54
S Glebe Road and Old Glebe Road	54
N Glebe Road and Lee Highway	54



23A,C Bus Stop Amenities

Amenity	All Stops Requiring New or Improved Amenities	Percent of All Stops Requiring New or Improved Amenities
Bus Stop Sign	14	5%
Information Case	3	1%
System Map	8	3%
5'x8' Pedestrian Pad	147	54%
Rear Pedestrian Pad	10	4%
Sidewalk at Least 4' Wide	51	19%
Trash Can	1	< 1%
Shelter	13	5%
Seating	7	3%
Lighting	117	43%
NextBus LED	2	1%



23A,C Customer Complaints

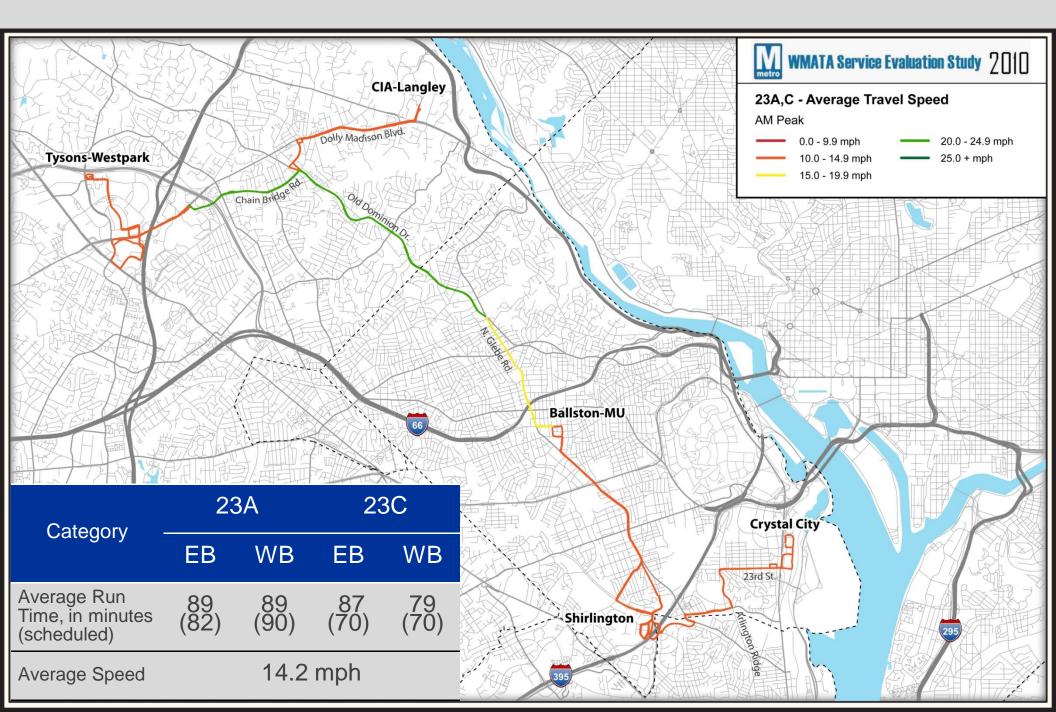
Type of Complaint	Number of Complaints
Driver behavior	34
Late arrival	22
No show	19
Pass up	12
Early departure	10
Stop change	3
Total	100

 Complaints logged between June 2009 and May 2010

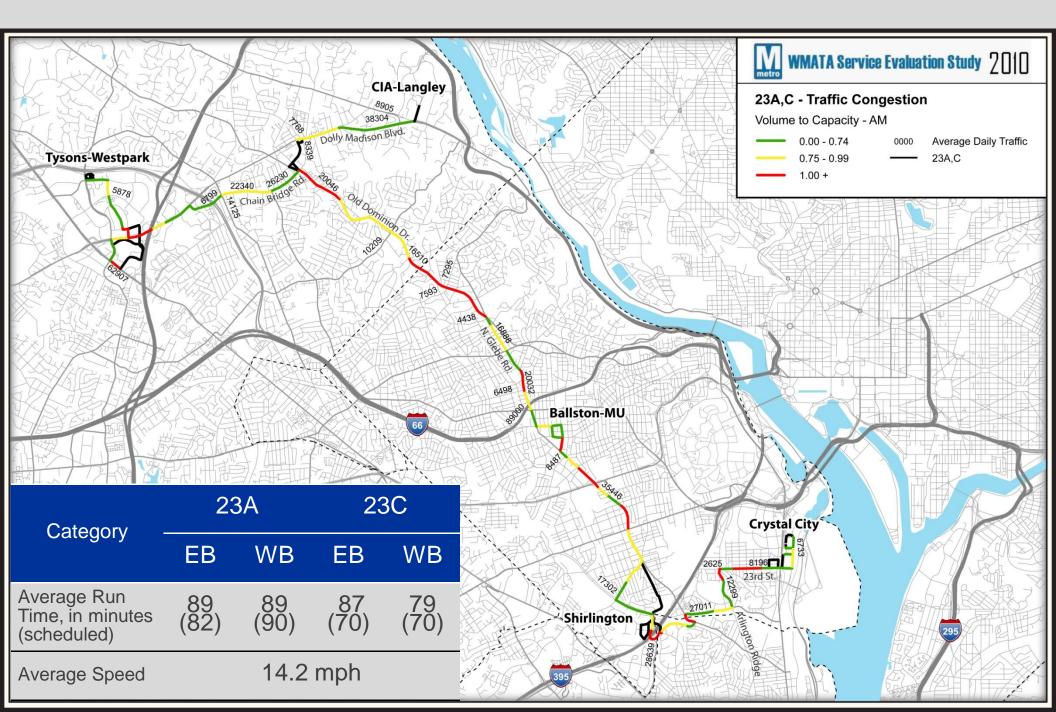


23A,C Traffic Assessment

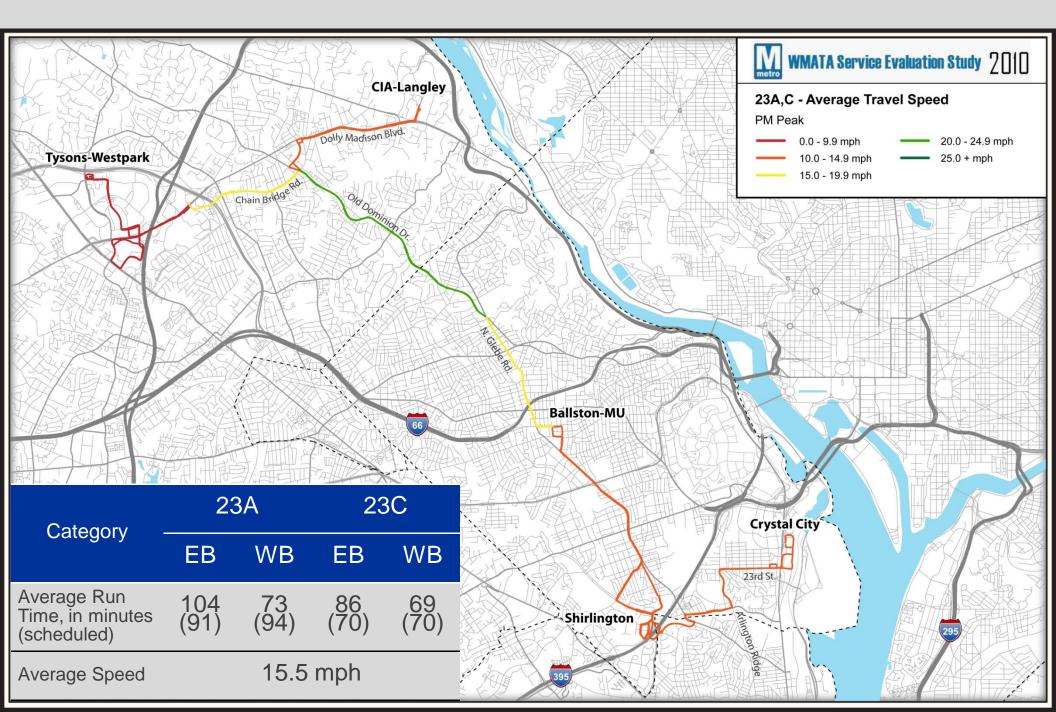
23A,C AM Average Travel Speed (Weekday)



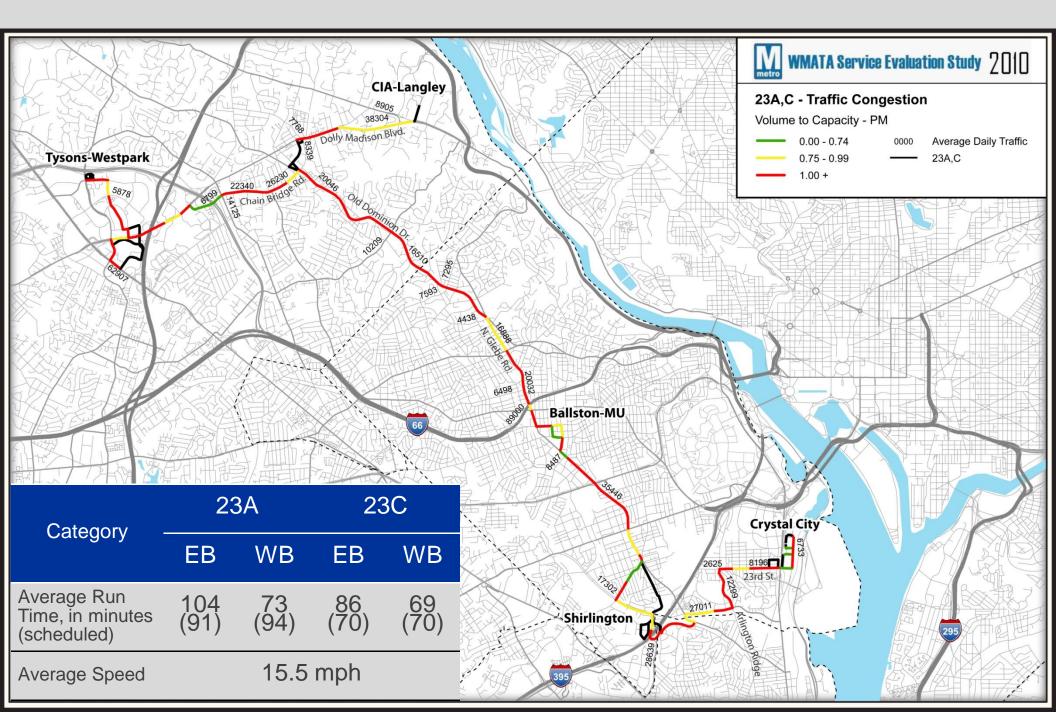
23A,C AM Traffic (Weekday)



23A, C PM Average Travel Speed (Weekday)



23A,C PM Traffic (Weekday)



Summary of 23A,C Operator Comments

- Schedule delays occur at all times of the day.
- During rain, lack of concrete pedestrian pads on Old Dominion Road lead to delays when operators try not to drop off passengers in mud
- Many transfers at S Glebe Road and Columbia Pike
- A holiday shopping plan for the Tysons Corner portion of the route would help the route stay on schedule.
- When bus bunching occurs, it is usually on the roadways shared between the 23A and 23C

23A,C Summary

- Route reliability is by far the worst in the midday, with 40% of time points late
- Off-peak trips have nine less minutes in the schedule to complete the trip than peak periods
- Average daily ridership peaked in 2007-08, but has since dropped
- Low farebox recovery and productivity
- Sundays are surprisingly more productive than weekdays
- Over half of stops on route (54%) need a concrete pedestrian waiting area
- Route has slightly more accidents than average Four Mile Run route
- Many delays during Christmas season in Tysons Corner



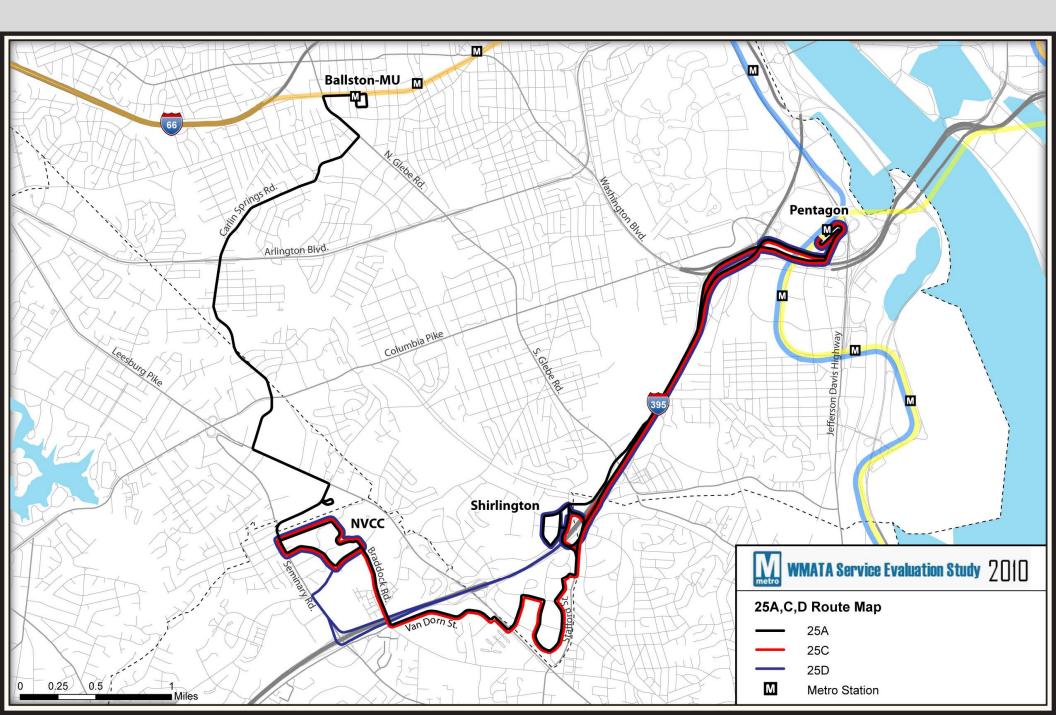


25A,C,D History

- Route began in 1980 with opening of Orange Line
- Restructured in 1990 to add route variants (25A,F,G,J,P,R)
- Restructured in 2007 to simplify service to 25A,C,D
- 25A,D rerouted to serve new Shirlington Transit Center in 2008

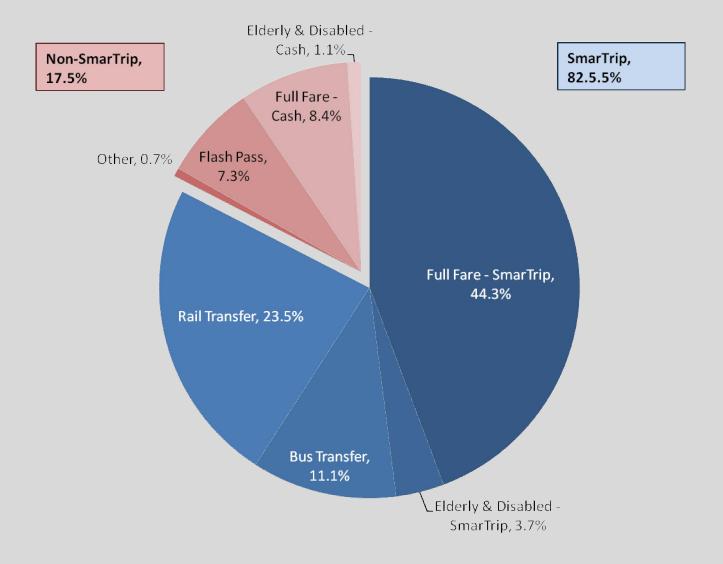


25A,C,D Route Map



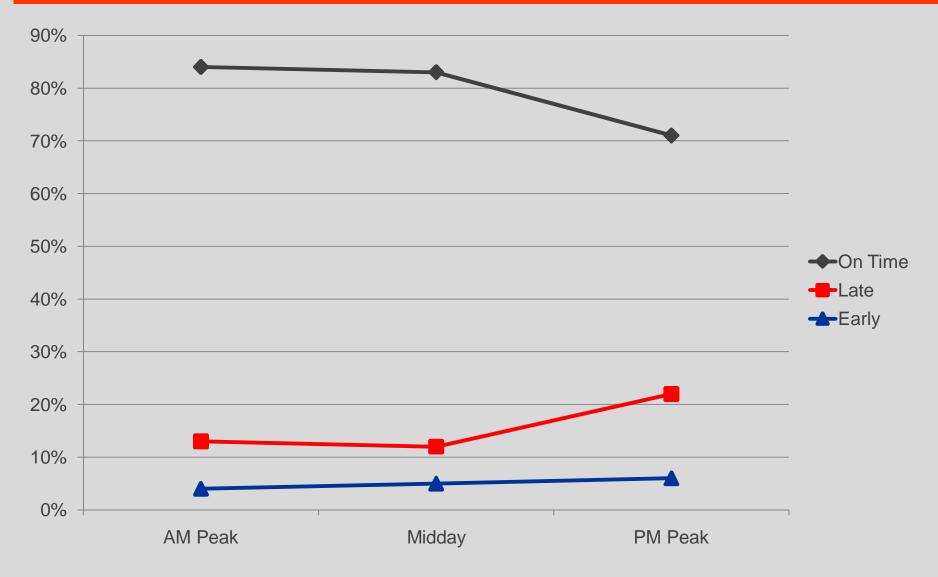
25A,C,D Transit Service Assessment

25A,C,D Fare Payment





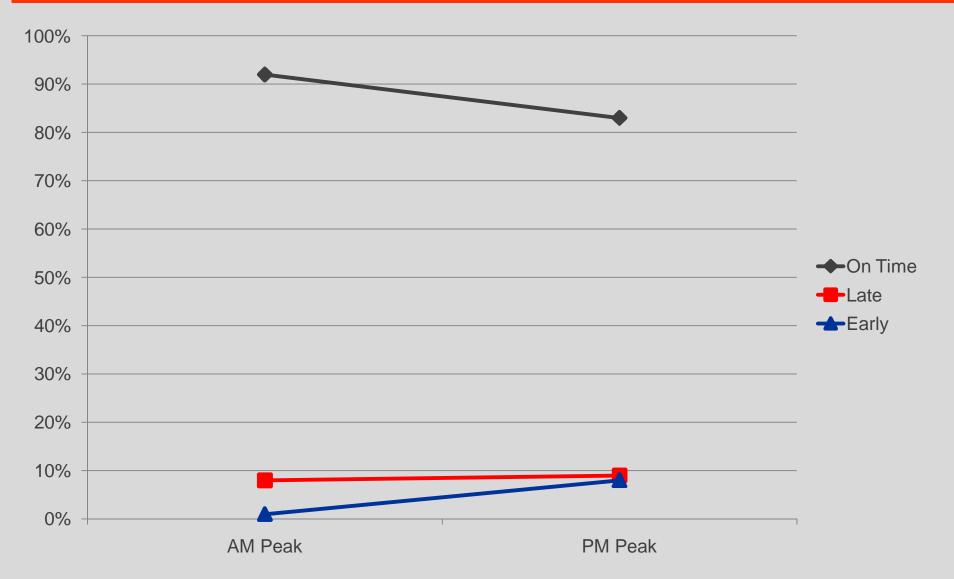
Weekday 25A On-Time Performance



On-time performance represents average for all daily trips.



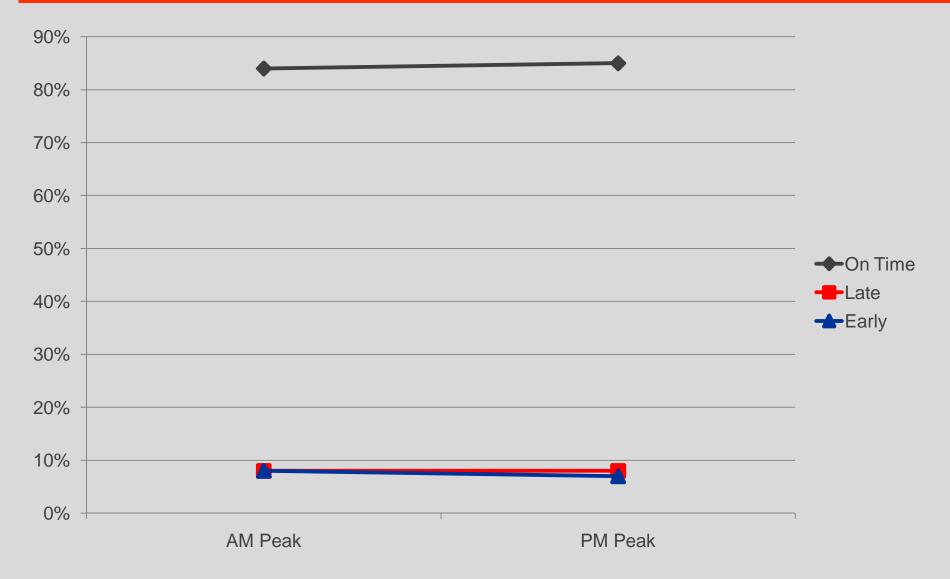
Weekday 25C On-Time Performance



On-time performance represents average for all daily trips.



Weekday 25D On-Time Performance



On-time performance represents average for all daily trips.

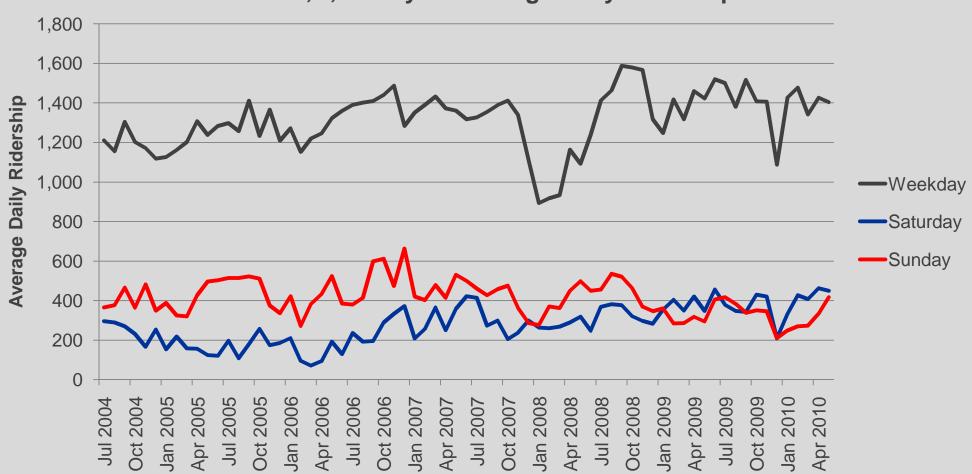


25A,C,D Ridership and Farebox Recovery

	Weekdays (25A,C,D)	Saturdays (25A only)	Sundays (25A only)
Average Daily Boardings	1,400	380	330
Boardings/Mile	2	2	2
Boardings/Trip	30	14	13
Farebox Recovery	18.0%	11.2%	10.7%



25A,C,D Ridership



Route 25A,C,D Six-year Average Daily Ridership



25A Boardings and Alightings—Eastbound

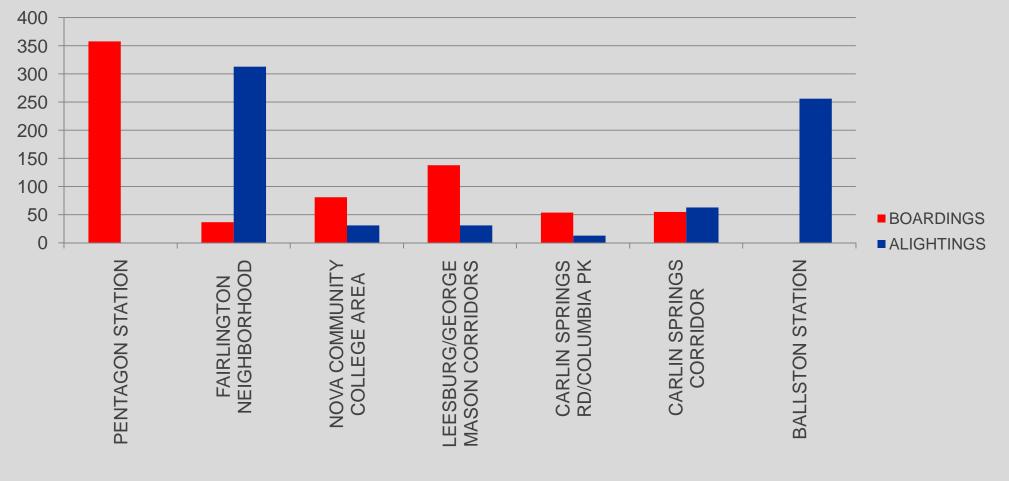
400 350 300 250 200 150 100 50 BOARDINGS ALIGHTINGS 0 CARLIN SPRINGS RD/COLUMBIA PK **BALLSTON STATION CARLIN SPRINGS** LEESBURG/GEORGE MASON CORRIDORS NEIGHBORHOOD **PENTAGON STATION** NEIGHBORHOOD NOVA COMMUNITY COLLEGE AREA FAIRLINGTON CORRIDOR BALLSTON

25A Eastbound Weekday Daily Boardings and Alightings



25A Boardings and Alightings—Westbound

25A Westbound Weekday Daily Boardings and Alightings





25A,C,D Capacity and Loading

	Eastbound			
	Peak Load Point	Capacity at Point		
AM Peak	Quaker Lane/ 32nd Road	42.9%		
Midday	Carlin Springs Road/ N Edison Street	33.8%		
PM Peak	Carlin Springs Road/ N Thomas Street	31.7%		
Night	N Glebe Road/ 7th Street	32.1%		
	Westbou	nd		
	Westbou Peak Load Point	nd Capacity at Point		
AM Peak		Capacity at		
AM Peak Midday	Peak Load Point Carlin Springs Road/	Capacity at Point		
	Peak Load Point Carlin Springs Road/ N Edison Street Carlin Springs Road/	Capacity at Point 28.9%		

Busiest Stops

Stop Location	Average Weekday Boardings	
Pentagon Station (Bus Bay U3)	358	
Ballston Station (Bus Bay B)	346	
S Stafford Street and 35th Street crossing	45	
S Stafford Street and 32nd Road (S) crossing	42	
36th Street and Utah Street crossing	33	
Fillmore Avenue and W Campus Drive	29	
King Street service roadway and Menokin Drive	26	
N Van Dorn Street and Park Place Condominums	26	
King Street service roadway and Dearing Street	21	
Carlin Springs Road and S 8th Street	17	



25A,C,D Bus Stop Amenities

Amenity	All Stops Requiring New or Improved Amenities	Percent of All Stops Requiring New or Improved Amenities	
Bus Stop Sign	9	11%	
Information Case	1	1%	
System Map	0	0%	
5'x8' Pedestrian Pad	37	44%	
Rear Pedestrian Pad	2	2%	
Sidewalk at Least 4' Wide	6	7%	
Trash Can	0	0%	
Shelter	9	11%	
Seating	3	4%	
Lighting	40	48%	
NextBus LED	2	2%	



25A,C,D Customer Complaints

Type of Complaint	Number of Complaints		
Driver behavior	16		
No show	15		
Pass up	14		
Late arrival	8		
Early departure	3		
Stop changes	3		
Overcrowding	2		
Low ridership	1		
Passenger behavior	1		
Total	63		

 Complaints logged between June 2009 and May 2010



25A,C,D Traffic Assessment

25A,C,D Observed and Scheduled Run Times

AM Peak

Category	25A		25C		25D	
	EB	WB	EB	WB	EB	WB
Average Run Time, in minutes (scheduled)	55 (52)	49 (45)	24 (22)	-	-	17 (23)
Average Speed*	18.9 mph					

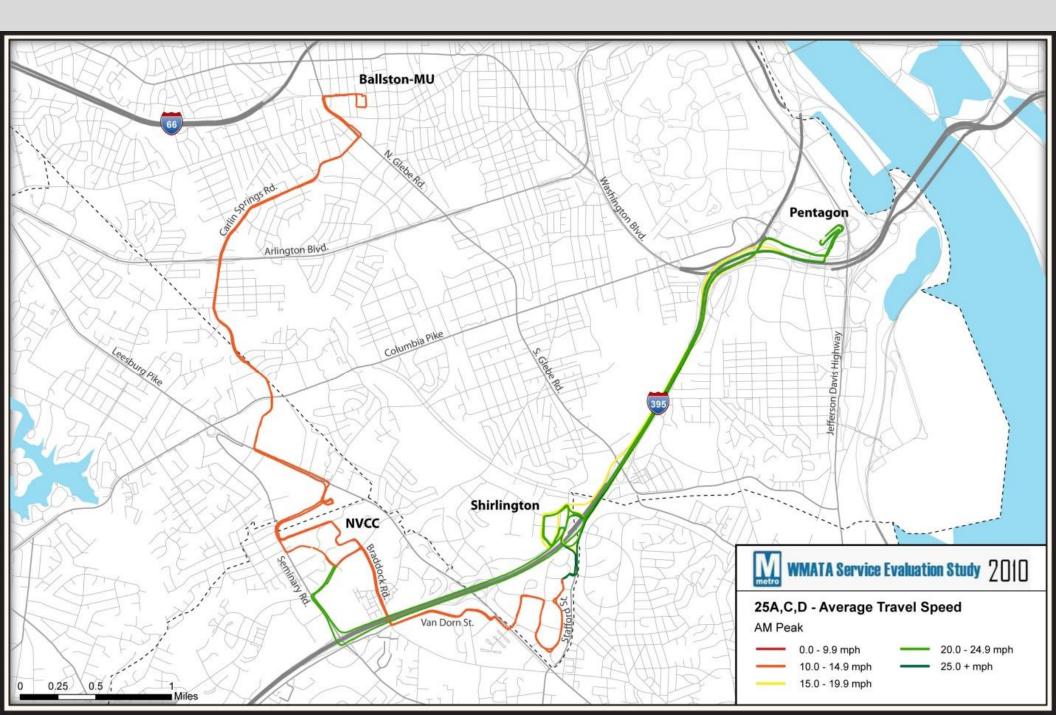
PM Peak

Catagory	25A		25C		25D	
Category	EB	WB	EB	WB	EB	WB
Average Run Time, in minutes (scheduled)	50 (51)	57 (51)	-	22 (28)	23 (20)	-
Average Speed*	16 mph	16 mph	16 mph	16 mph	16 mph	16 mph

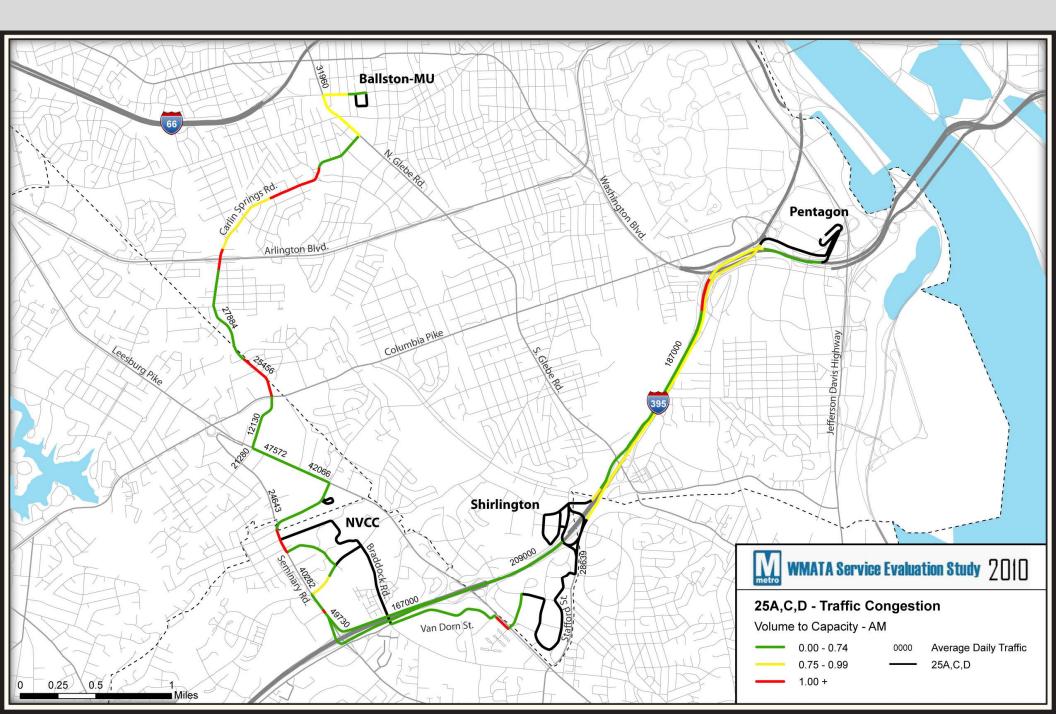
* For all three routes



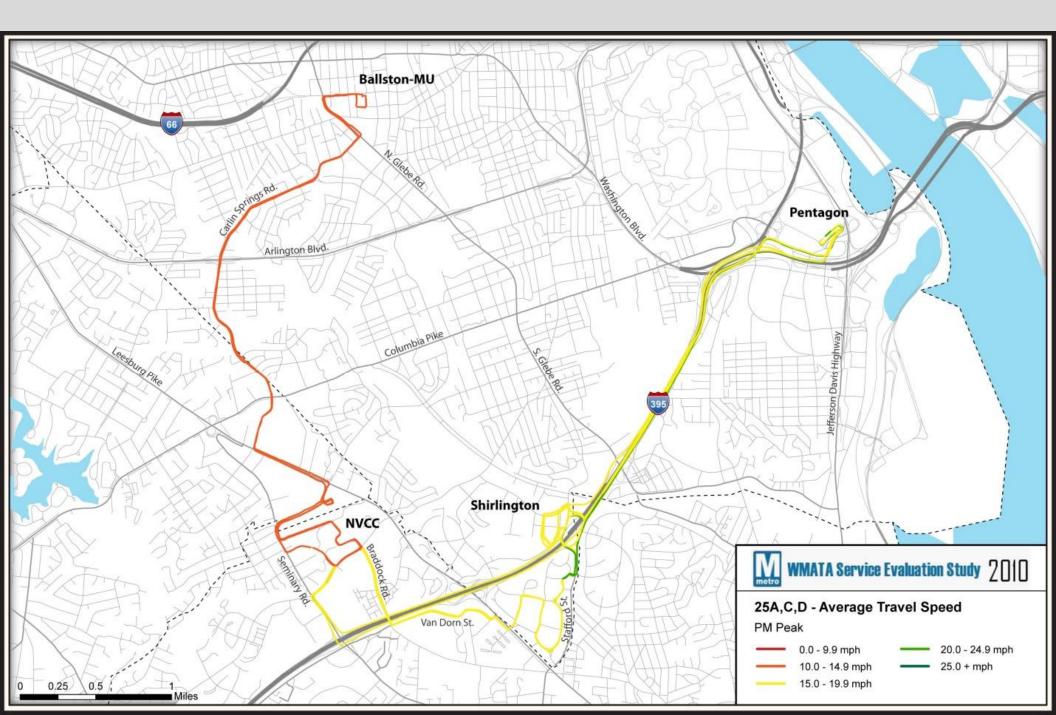
25A,C,D AM Average Travel Speed (Weekday)



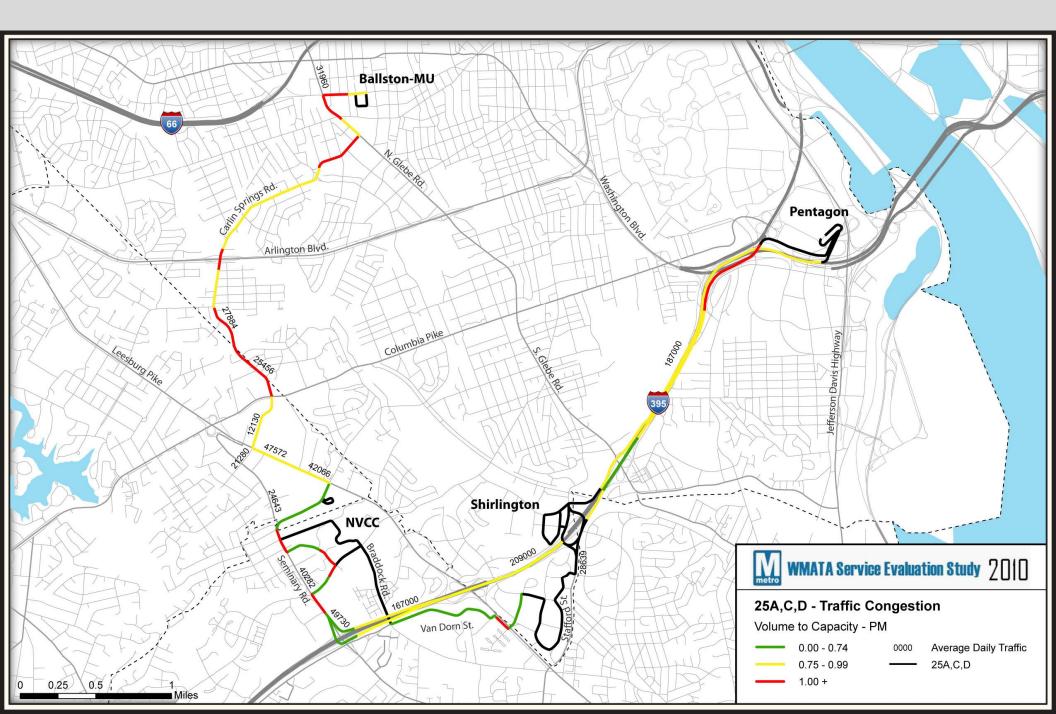
25A,C,D AM Traffic (Weekday)



25A,C,D PM Average Travel Speed (Weekday)



25A,C,D PM Traffic Congestion (Weekday)



Summary of 25A,C,D Operator Comments

- Most delays are from unpredictable events, like rain or vehicle collisions. Other delays caused by:
 - Kenmore Middle School around 3pm
 - Lack of parallel routes for Carlin Springs Road
 - Out-of-synch traffic signals
 - Passengers adding credit to SmarTrip cards on the bus
- 25C trips sometimes extended to Ballston to make up for lost 25A trip
- AM and PM peak trips mostly to Pentagon, though midday trips mostly to Shirlington
- Supervisors suggest extending route to Virginia Square due to congestion at Ballston



25A,C,D Summary

- Average daily riders dropped after 2007 restructuring, but have rebounded since then
- Route operates "on time" at 80-90% of time points
- Low farebox recovery and productivity relative to Metrobus averages
- South Fairlington area has operational issues with narrow, curvilinear streets and on-street parking
- Stop amenities are mostly provided. The largest missing amenity is a concrete pedestrian waiting area.
- Congestion at Ballston Station hampers operations and layover of the route.
- Route has slightly more accidents than average Four Mile Run route



Roundtable Discussion

- Break up into small groups.
- Each group will have a moderator.
- Moderator will run through a list of questions.
- Each group will appoint a representative to summarize their discussion.



Next Steps

- Incorporate public comments
 - Next public meetings 11/3/2010 and 11/17/2010
- Develop and evaluate alternative service improvement plans
- Prepare recommendations
- Develop implementation plan
- Incorporate into budget process
- Implement phased improvements



How Can You Participate?

- Project Hot Line:
 202-370-2915
- Website:
 - -www.Metrobus-Studies.com

