

16th Metrobus 16th Street Line Study



WELCOME

PLEASE SIGN-IN



TODAY'S AGENDA

6:30 pm to 7:00 pm

OPEN HOUSE: View the display boards with information about the 16th Street Line. Project staff will be available to answer questions about the existing services and the improvement study.



7:00 pm to 7:15 pm

PRESENTATION: Project staff will give a brief presentation that summarizes the purpose of the project, today's activities, and preliminary results of the rider survey and service analysis.



7:15 pm to 8:15 pm

GROUP EXERCISE: Join one of the small discussion groups at the tables around the room. You will be asked to help identify issues relative to the 16th Street Line that need to be addressed by the improvement study. Project staff will be available at these tables to facilitate the discussion.

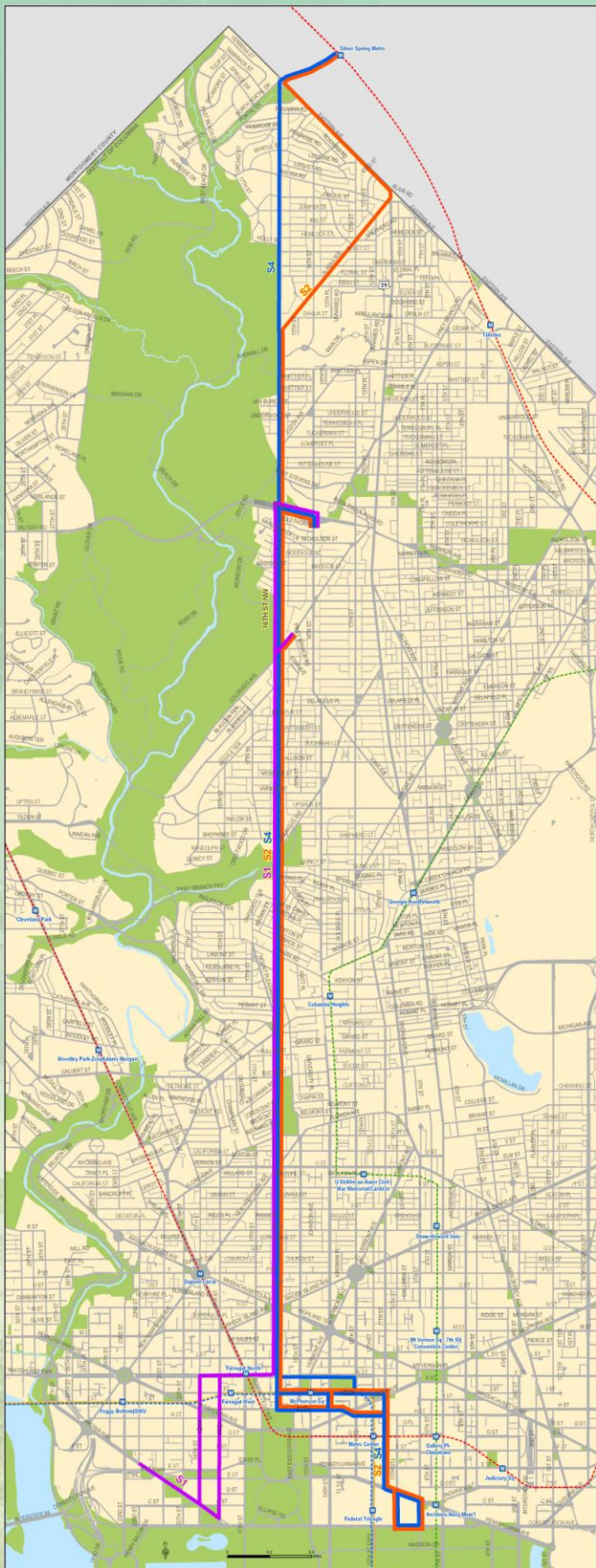


8:15 pm to 8:30 pm

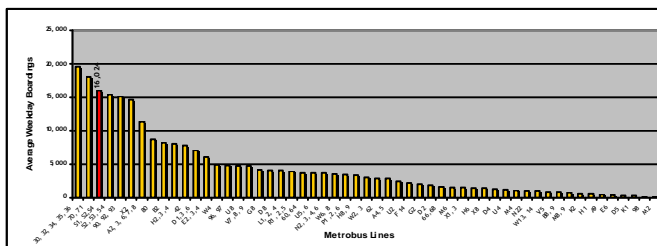
SUMMARY OF RESULTS: The results of the group exercise will be summarized in a brief presentation to the meeting participants.



EXISTING 16TH STREET LINE: METROBUS ROUTES S1, S2, and S4



Average Weekday Ridership by Line*



* - April 2007

Number of Trips by Route

Route	AM	Mid-day	PM	Total	
S1	Weekday	26	-	10	36
	Saturday	-	-	-	-
	Sunday	-	-	-	-
S2	Weekday	78	43	93	214
	Saturday	42	40	48	130
	Sunday	28	30	31	90
S4	Weekday	41	37	68	146
	Saturday	41	40	48	129
	Sunday	27	30	29	86

- No service available



Scheduled Frequency* of Service - Weekday

Southbound

Route	AM Peak Hours	Mid-day	PM Peak Hours	Night-time
S1	NS	NS	5-15	NS
S2	2-10	13-16	3-16	18-52
S4	12-22	12-17	2-17	20-32

Northbound

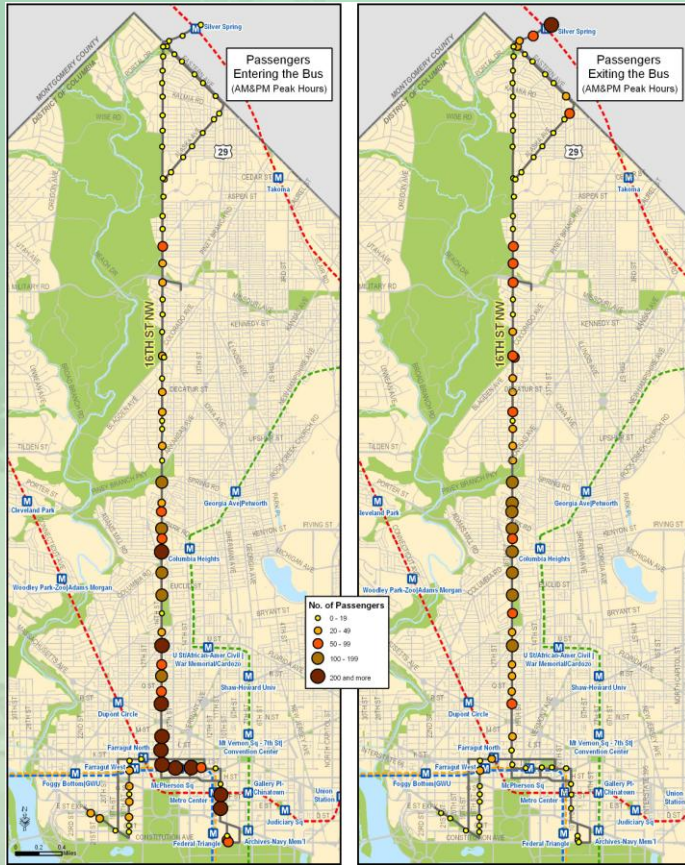
Route	AM Peak Hours	Mid-day	PM Peak Hours	Night-time
S1	NS	NS	15-18	NS
S2	14-22	3-16	3-10	5-50
S4	13-26	15-21	10-15	12-35

NS - No service available
* - range in minutes

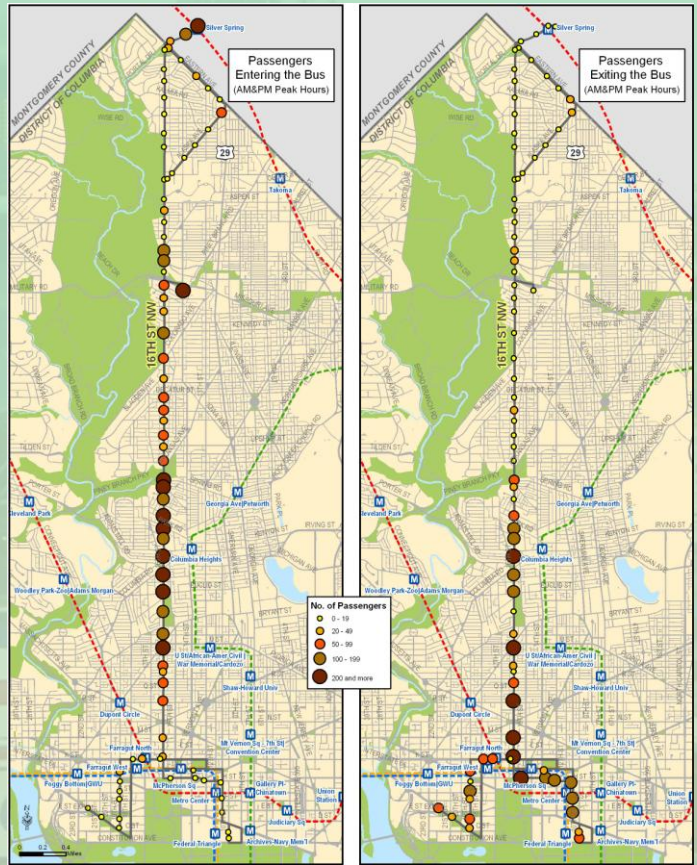
RIDERSHIP

With about 16,000 riders per day, the 16th Street Line has the third-highest ridership in the District of Columbia.

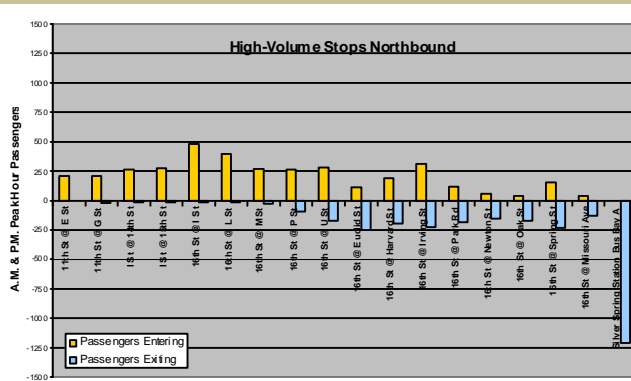
PASSENGERS ENTERING & EXITING THE BUS - NORTHBOUND



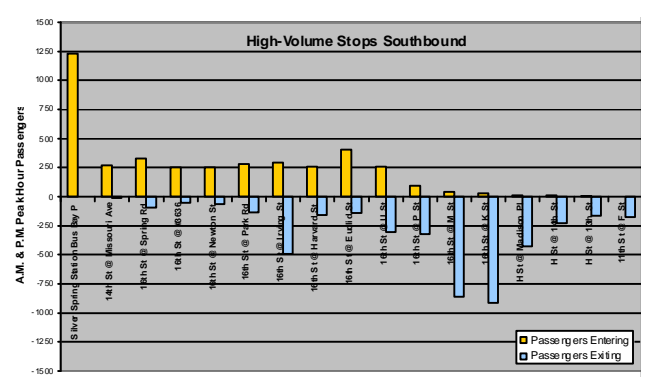
PASSENGERS ENTERING & EXITING THE BUS - SOUTHBOUND



NORTHBOUND HIGH-VOLUME STOPS



SOUTHBOUND HIGH-VOLUME STOPS



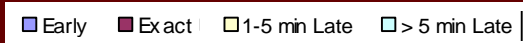
SERVICE RELIABILITY

Schedule Adherence

The ability to operate a transit service on schedule is affected by a number of factors including traffic congestion and route detours. As shown below, these factors often result in late arrivals and “bus bunching”, relatively long periods of time with no vehicles arriving at a stop followed by several vehicles arriving within a short period.

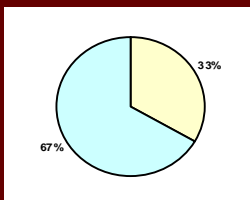
On-Time Performance

Percent of time when buses are early, on schedule, or late:

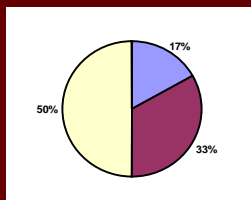


SOUTHBOUND, A.M. PEAK

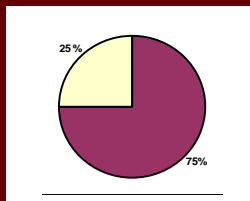
16th Street & Eastern Ave



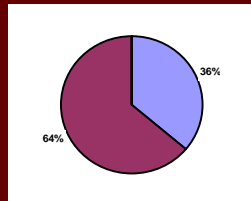
16th Street & Sheridan Street



16th Street & Buchanan Street

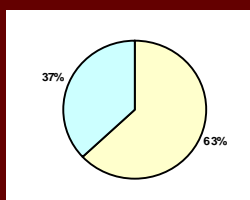


16th Street & U Street

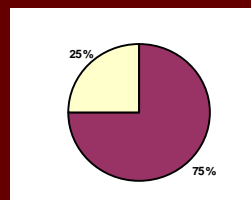


NORTHBOUND, P.M. PEAK

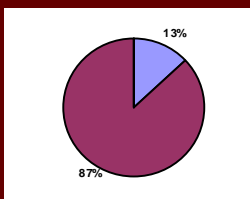
14th Street & I St



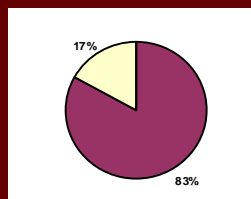
16th Street & U Street



16th Street & Buchanan Street



16th Street & Sheridan Street



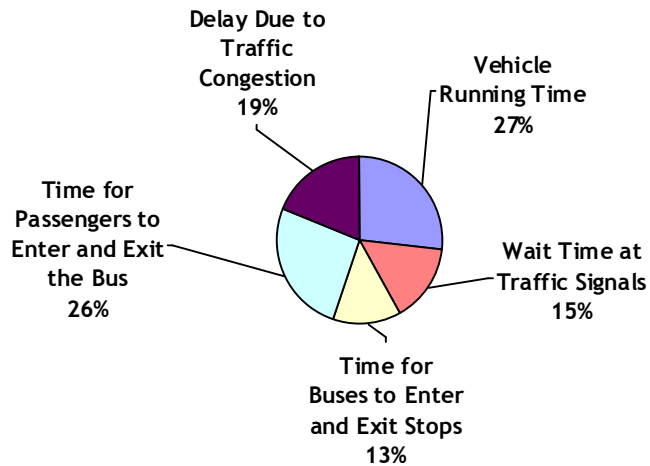
Vehicle Speed



TRAVEL TIME

The total travel time for a typical bus trip from Silver Spring to Federal Triangle can take as much as 55 minutes or longer during peak rush hours. The following factors contribute to these long travel times:

TYPICAL RUSH HOUR TRIP



VEHICLE RUNNING TIME

The time that it takes for the vehicle to move from the beginning to the end of the route at the posted speed limit if there were no bus stops, delay due to congestion, or traffic lights is about 15 minutes or about 27 % of the total travel time along the route.



WAIT TIME AT TRAFFIC SIGNALS

Buses also incur some delay due to wait times at traffic signals along the route. Even if there were no congestion at the traffic signals, wait time at traffic lights would account for 8 minutes or about 15 % of the total travel time along the route.



TIME FOR BUSES TO ACCESS STOPS AND RE-ENTER TRAFFIC

It also takes time for buses to get into and out of bus stops along the route, especially if these are partially blocked by cars, trucks, or other buses. With more than 58 bus stops along the route, this can account for as much as 7 minutes or about 13 % of the total travel time along the route.



TIME FOR PASSENGERS TO BOARD AND EXIT THE BUS

It is estimated that the time it takes for passengers to get on and off the bus at stops can account for as much as 14 minutes or about 26 % of the total travel time along the route.



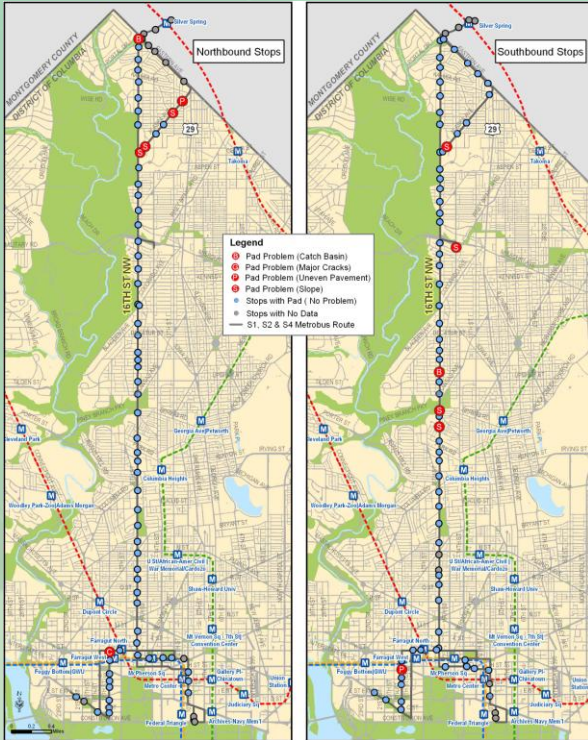
DELAY DUE TO TRAFFIC CONGESTION

The delay due to congestion along streets and at intersections is estimated to account for more than 11 minutes or about 19 % of the total travel time along the route.

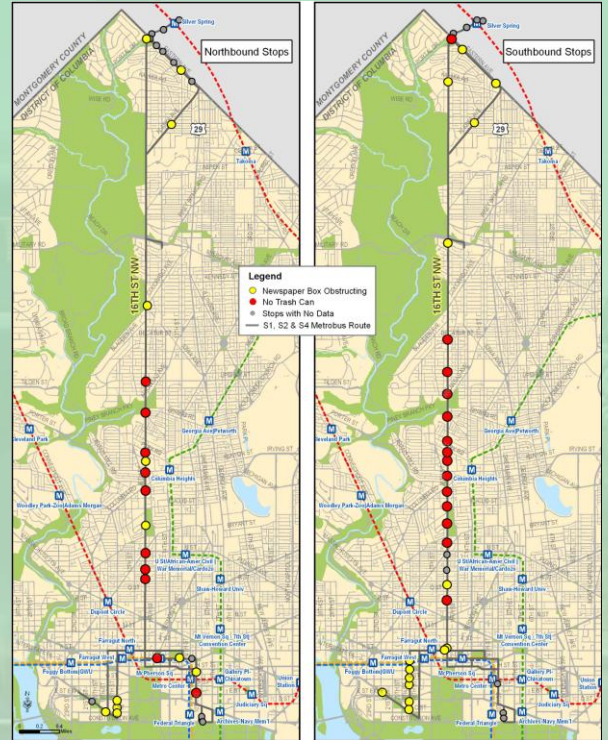
BUS STOP CONDITIONS

A bus stop inventory has been conducted to identify where improvements may be needed. The inventory addressed pedestrian pad conditions, trash cans, newspaper boxes at the stops, pole conditions, and lighting at the stop locations.

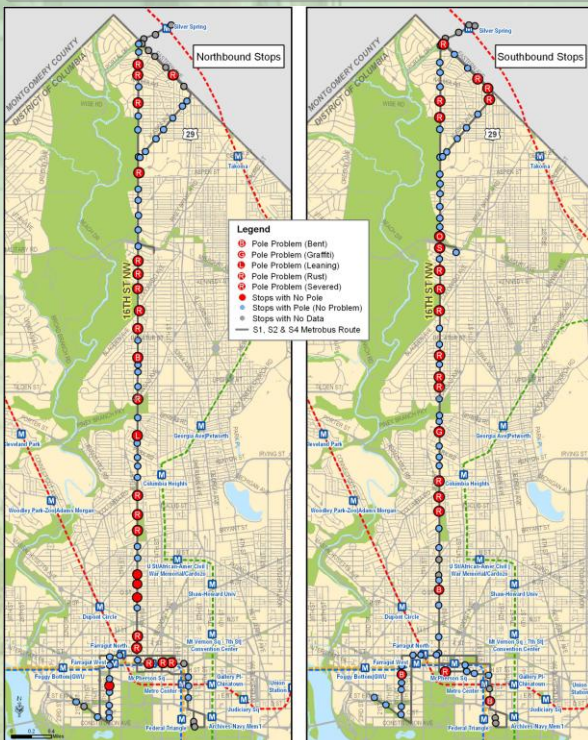
PEDESTRIAN PAD CONDITIONS



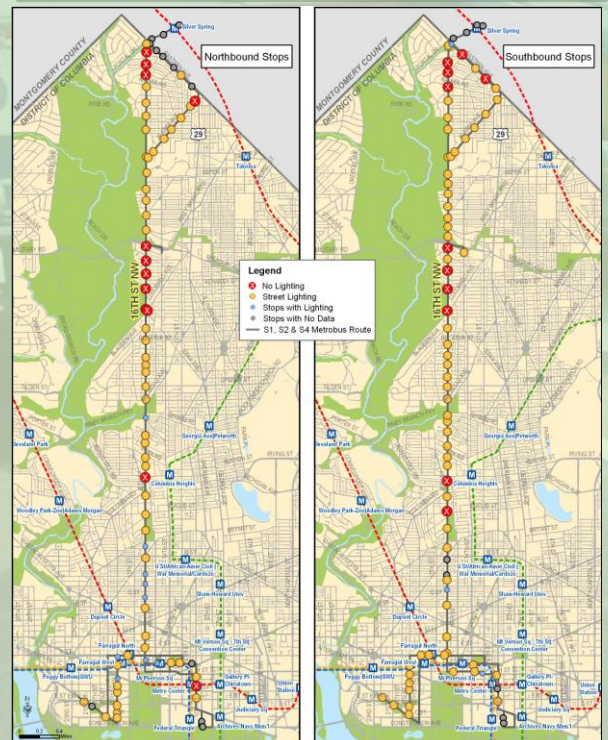
TRASH CAN, NEWSPAPER BOXES



POLE CONDITIONS



LIGHTING

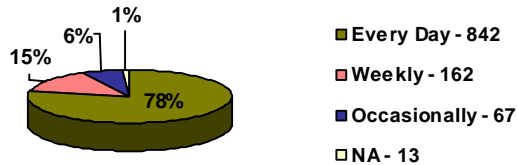


RIDER SURVEY RESULTS

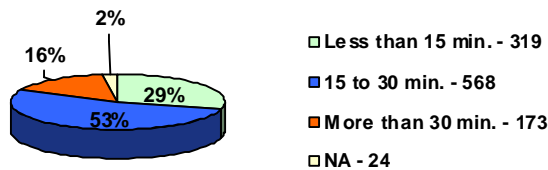
A survey of bus riders was conducted on the 16th Street Line on June 18, 2008. 1,084 responses have been received as of July 3. The following highlights some key results:



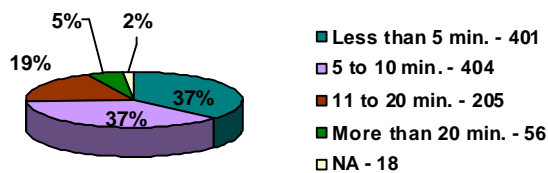
How often do you ride the bus?



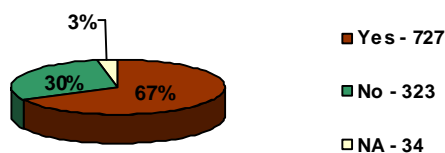
How long will you be on the bus?



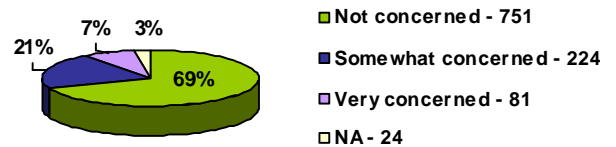
How long did you wait for the bus you are now on?



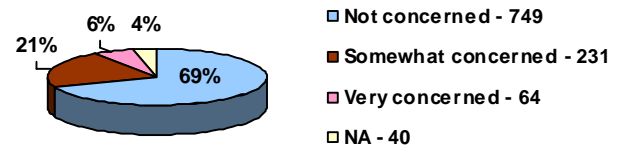
Was a seat available when you boarded the bus?



Please rate your overall feelings of safety and security on this bus.



Please rate your overall feelings of safety and security at the bus stop where you boarded this bus.

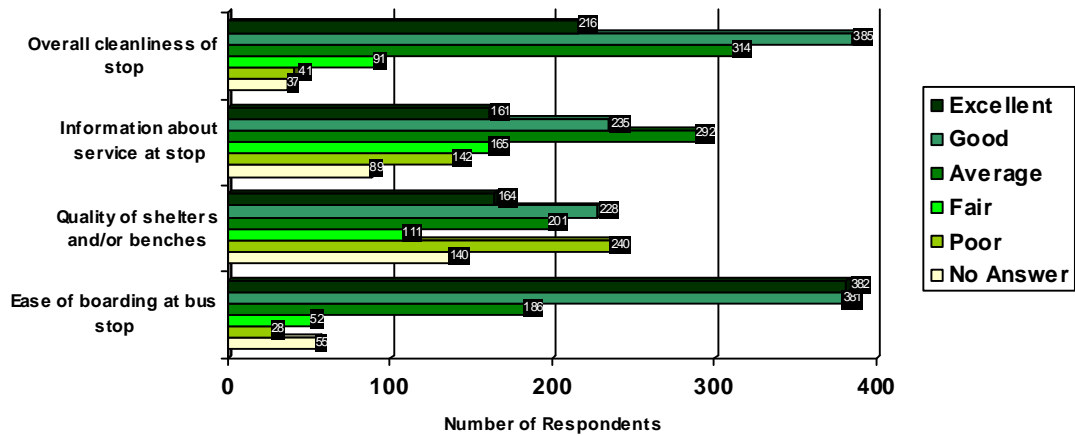


Which of these transit service types would you use if they were available on 16th Street?

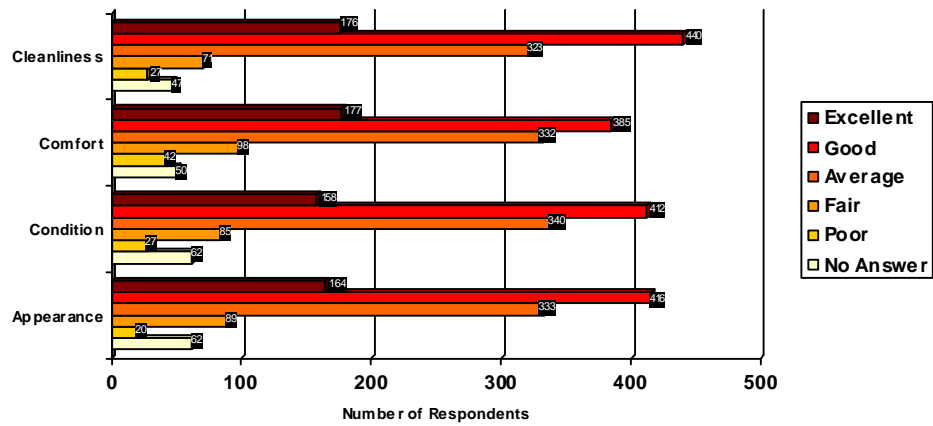


RIDER SURVEY RESULTS

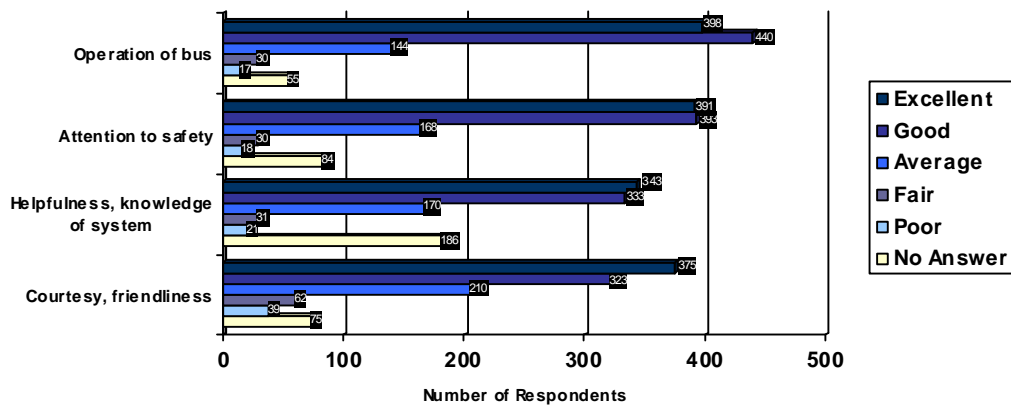
Please rate the quality of the bus stop where you boarded this bus.



Please rate the quality on the bus you're now on.

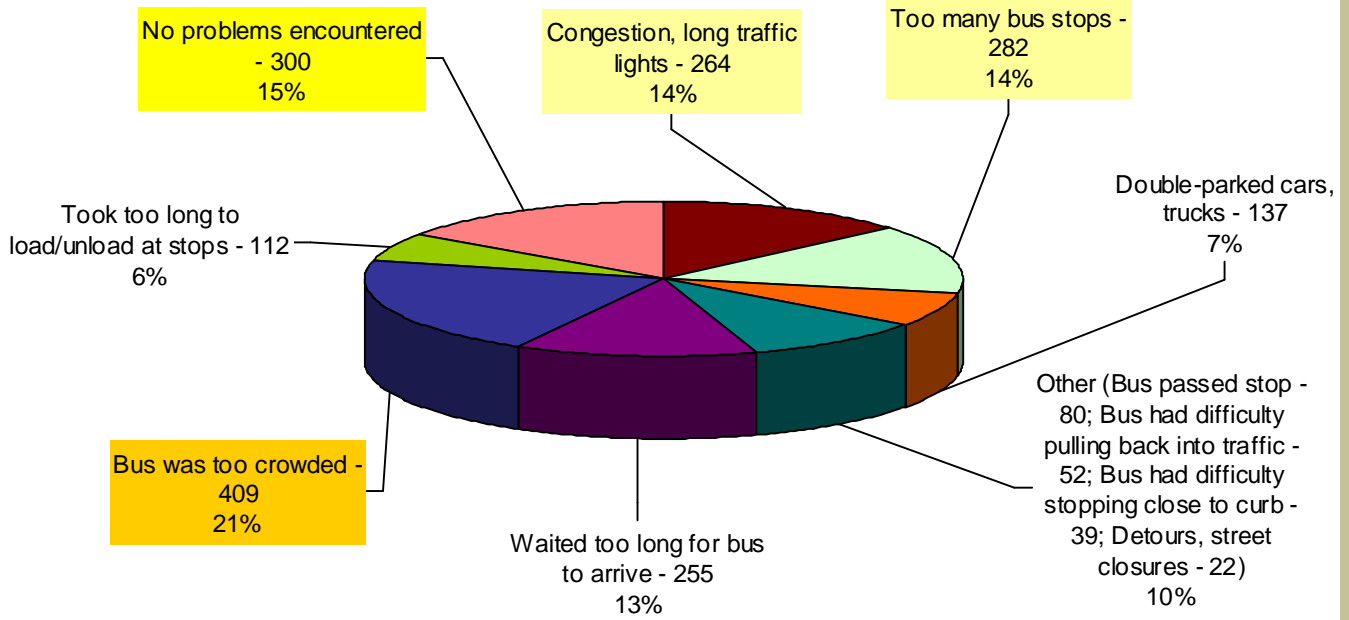


Please rate the driver on the bus you're currently riding.



RIDER SURVEY RESULTS

What factors impacted your trip on this bus today?



Please identify the three areas where you feel the service on the 16th Street Line needs the most improvement.

