Miami-Dade 2009 Metrorail Transit Survey

Final Report July 2009











🖲 Gannett Fleming

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Introduction

The Miami-Dade County Metropolitan Planning Organization (MPO) has a goal to develop a data collection program that meets the Federal Transit Administration (FTA) guidelines and that supports the transit modeling efforts in areas which anticipate seeking federal support for transit capital projects. The Miami-Dade Transit (MDT) Metrorail Transit Survey (Metrorail Survey) conducted in April 2009 may be the first in a series of surveys that will become a continuing data collection effort that will supplement the modeling and transit planning efforts in Miami-Dade County and the South Florida Region. This Miami-Dade Metrorail Survey obtained ridership characteristics such as: origin-destination patterns, trip purpose and mode of access and egress. The data obtained from this survey will be used to update and validate the Southeast Regional Planning Model (SERPM v6.5) and will be used for transportation planning in the region.

Metrorail

Metrorail is a 22 mile elevated rapid transit system that runs from south central Miami-Dade to northwest Miami-Dade County. There are 22 Metrorail passenger stations, approximately one-mile apart. A connection to Broward and Palm Beach Counties is provided via Tri-Rail at the Tri-Rail / Metrorail transfer station.

There are 182 one-way weekday Metrorail train trips, 90 southbound and 92 northbound. The headway is 7.5 minutes during peak hours and 15 minutes during non peak hours. Each weekday one-way trip is made by a train comprised of 6 cars. There are 76 one-way weekend Metrorail train trips, 38 in each direction, with 30 minute headways. Each weekend (Saturday and Sunday) a one-way trip is made by a train comprised of 4 cars.

Survey Design

Sampling Plan

The Metrorail data collection effort consisted of two parts, passenger door counts to obtain the directional split and a survey. For the directional split, passenger door counts were conducted on the first three trains in the morning leaving from both the Palmetto and Dadeland South Stations on Thursday, April 2. Counts were taken in one car in each of the six different trains.

The Metrorail Survey was conducted on Tuesday, April 28. Tri-lingual survey questionnaires (English, Spanish, and Creole) were distributed to all passengers as they accessed Metrorail stations from 6:00 AM to 6:00 PM for both northbound and southbound trains and were collected at the exits of all 22 Metrorail stations.

Survey Questionnaire

The survey instrument, **Appendix A**, printed in color on 11" x 17" cardstock, was designed as a self-completion questionnaire with mainly self-coded questions. The customized form was in English, Spanish and Creole and consisted of 18 questions. To ensure ease of distribution, they were printed as gummed pads of 100 each with a solid cardboard backing. Each questionnaire

was pre-printed with a unique serial number, which linked each questionnaire to distribution from a specific station. The questionnaire was designed to obtain information in four categories: travel pattern (origin and destination), trip purpose, mode of access and egress (including a trip chain of all transit modes) and passenger demographics (age, race/ethnic origin, household size and vehicle availability). The survey instrument was reviewed by the MPO, MDT and by FTA. Their comments were incorporated into the survey instrument.

Methodology

The Metrorail survey consisted of two parts, passenger door counts and survey implementation. Passenger door counts were conducted in one car in six different trains, to obtain the directional split by station and time of day. Passenger door counts were conducted in the third car from the front of the train (based on the direction the train is going) in six different trains to obtain the directional split by station and time of day. Counts commenced with the first train departing at 6 AM in the morning from both the Palmetto and Dadeland South Stations; Palmetto being the northernmost station and Dadeland South being the southernmost station of the line. The next two trains leaving from these stations also had counts taken.

Surveys were disseminated to the assigned Metrorail station by serial number. This provided an error check for every survey to confirm if the origin station was identified correctly. In this way, there would be a check of where each passenger began their Metrorail trip. Surveyors were positioned by the turnstiles that provide access and egress to each station. Surveyors offered survey questionnaires to everyone entering the stations after they pass through the entrance turnstiles. The riders that refused the survey were counted in an attempt to count the boardings for the survey period. The unique serial numbers of surveys distributed were recorded for each hour (60 minute) increment. Surveys were collected in a survey return box placed at the bottom of each staircase / escalator and / or at exits. Surveyors encouraged and reminded people to drop off their completed surveys. Each station was assigned a Station Supervisor to oversee the survey distribution at their assigned station and to record the number of "ins" and "outs" from turnstiles with the assistance of the guards.

At the larger and busier stations, Station Platform Facilitators encouraged people to fill out the survey and provided assistance as necessary and as time permitted. Station Supervisors also filled the roll of Station Platform Facilitator at those stations that did not have assigned Station Platform Facilitators. In addition, an In-Train Facilitator was on each train to encourage passengers to fill out the survey and to provide assistance as necessary. Station Supervisors, Platform Facilitators, and In-Train Facilitators were professionals from consultant firms, FDOT, MPO, and MDT. The Surveyors were temporary employees staffed by Express Personnel.

Training

The days prior to the On-Board Passenger Door Counts, April 1, 2009, and the survey implementation, April 27, 2009, were training days. The training for the On-Board Passenger Door Counts was held at the MPO. The Lead Counters were provided with the objectives and logistics to conduct the counts. The assigned schedules and required forms were reviewed and

the Lead Counters spent time becoming familiar with them. The forms, identification badges and supplies were distributed to the lead counters.

Two Supervisor Training Sessions and two Surveyor Training Sessions were conducted concurrently for the Metrorail Survey implementation, one each in the morning and in the afternoon, of the day prior to the survey implementation. The Supervisor Training Sessions were held at Gannett Fleming's Miami Office in the morning and the Miami-Dade Government Center in the afternoon. The Surveyor Training Sessions were held at West Dade Career Center in the morning and the North Miami Beach Career Center in the afternoon.

The Supervisor Training Sessions consisted of the following:

- Survey Overview the purpose, design, and methodology of the survey were explained.
- Supervisor Training the detailed functions, duties, and responsibilities for Station Supervisors, Platform Facilitators, and In-Train Facilitators were outlined. Sample scripts were provided to encourage riders to take the survey.
- Survey Instrument questions and possible answers were explained and discussed.
- Logistics the logistics arriving at the Metrorail Stations, parking, and checking in and out were explained.
- Overview of Surveyor Training the aspects of the surveyor training were highlighted.

The Surveyor Training Sessions consisted of the following:

- Survey Overview the purpose, design, and methodology of the survey were explained.
- Surveyor Training the detailed functions, duties, and responsibilities for Surveyors were outlined. The general logistics of checking in and out, parking, and arriving at the Metrorail Stations were explained. The survey instrument was reviewed with the Surveyors to make sure everyone understood the questions asked and how they should be answered. It was emphasized that returned surveys should be quickly reviewed, especially questions 1, 7 and 9, for accuracy, if time permitted. The procedures for distributing and collecting the surveys and record keeping were carefully explained.

Implementation

Passenger Door Counts

The passenger door counts were conducted on Thursday April 2, 2009 on three northbound and three southbound trains beginning at 6 AM from both the Palmetto and Dadeland South stations. Each train had three people assigned as counters, one for each door of the car, to count and record the number of people entering and leaving the train at each station. The lead counter (Train Captain) in each train also recorded the time the train departed each station. Temporary employees were hired to assist the lead counters in the physical passenger counts; these employees were trained by their lead counter the morning of the survey at the train station prior to initial departure. Together the agency and temporary employees formed six (6) teams, scheduled to remain together for the duration of the day. The counts continued through

approximately the 6 PM departure for each of the six trains and continued until the subject train arrived back at the counters' original station. The schedule for each of the six teams is included in **Appendix B**.

Each team member was given a pair of mechanical counters to assist in the accuracy of their counts. They were instructed to count the passenger boardings and departures (on/offs) at each station. A form was developed for the Train Captain (lead counter) to record the door counts and the departure times. A similar form was developed for each of the counters to record their door counts. Samples of both forms are included in **Appendix C**.

Each team made twelve (12) complete one-way trips, eventually arriving back at their original departing station. Each team had a specific schedule prepared in advance that they followed (See Appendix A.) which minimized train changes and down time. At the end of the day the lead counter collected all the completed forms and miscellaneous supplies.

Survey Implementation

The distribution of surveys to riders was conducted on Tuesday April 28, 2009. Survey Station Supervisors arrived at their assigned stations by 5:30 AM on the day of the survey to prepare for survey distribution beginning at 6:00 AM. After arriving at their assigned station with their supplies, Station Supervisors toured the station to determine the best locations to place the return boxes, meet and position the surveyors and platform facilitators, post signage, meet the security guards and distribute supplies.

Station Supervisors signed in the surveyors (from the temp agency) and distributed their supplies which consisted of a yellow "Surveyor" t-shirt, identification badge, surveys, survey log sheet, pens, mechanical counters, and an apron to help store supplies. A sample sign in sheet is found in **Appendix C**.

Beginning at 6:00 AM and continuing to 6:00 PM, surveyors offered a survey to everyone over the age of 12 entering the station as they proceeded through the turnstiles. Surveyors recorded the serial number of the top survey on their survey pad on the Survey Log. The survey serial numbers were recorded at the beginning and end of each hour. A sample Survey Log is shown in **Appendix C**. Pens were offered to passengers to record their answers and as a token incentive for filling out the survey. Those passengers that refused a survey were counted using the mechanical counters. The total number of refusals for each hour was also recorded on the Survey Log. Surveyors were trained to encourage all passengers to take and fill out the survey. Each survey respondent that filled out the survey completely became eligible to win a drawing for a free Metropass. In order to facilitate that process, the respondent's name and home address was a voluntary question added at the end of the survey.

Platform Facilitators and Station Supervisors acting as Platform Facilitators were on the platform encouraging riders to fill out the survey, assisting those that needed help, answering questions

about the survey, and attempting to give surveys to those that may have refused the first time. Platform Facilitators recorded the serial number by hour for the surveys distributed.

In-Train Facilitators rode the trains to further encourage riders to fill out the survey, assist those that needed help, answer questions about the surveys, and give surveys to those that may have refused. In-Train Facilitators also recorded the serial number by hour for the surveys distributed. One In-Train Facilitator was assigned per train. Each In-Train Facilitator had a schedule and changed cars at each station.

Both the Platform Facilitators and the In-Train Facilitators were specifically trained to approach riders and ask if they needed help filling out the survey and to review questions 1, 7, and 9 for accuracy when reviewing or collecting surveys. Many of the Facilitators were bi-lingual, so they were able to provide assistance in English/Spanish, and some in English/Creole. The Facilitators conducted interviews to complete the surveys when necessary.

Surveys were collected at the destination stations in return boxes placed strategically at the exits. Station Supervisors and surveyors collected the returned surveys hourly. The surveys were bundled and labeled with the time of collection and station location.

Stations Supervisors, with the assistance of the security guards providing access keys and cards, also recorded the numbers (counts) off each turnstile for the number of boardings "ins" (Register 7) and exits "outs" (Register 8), as applicable. Turnstiles readings were recorded every hour. However, three stations (Palmetto, Okeechobee and Hialeah) did not have turnstiles since all turnstiles are in the process of being replaced with Smart Card Readers and some station's turnstiles were out-of-order. There were three types of turnstiles in service which included: automatic (recorded both "ins" and "outs"), handicapped (recorded both "ins" and "outs"), and exit turnstiles that just recorded "out."

Survey distribution was discontinued at 6:00 PM but surveys were collected until 6:45 PM. At the end of the survey day, the Station Supervisor collected all Survey Logs, supplies, and completed surveys and removed signage. Station Supervisors remained at their stations until their supplies were picked up by participating senior staff.

DATA INPUT

The data collected from the on-board counts and the survey were both entered manually into a data base. The count data recorded on the count forms recording the on/offs for each train at each station was input into an Excel spreadsheet. The result of that input is tabulated in **Appendix D**.

There were 30,112 surveys distributed during the Metrorail Survey and 17,862 surveys returned for a return rate of 59%. The number of surveys distributed at each of the 22 Metrorail Stations is summarized in **Table 1**, Survey Distribution by Station. **Table 2**, Origin – Destination Matrix Based on Survey Information depicts the origins and destinations for each station as entered by the respondent.

Table 1 -- Survey DistributionBy Station

Government Center No. of Surveys Station Earlington Heights **Dadeland North** deland South Grove Dadeland South 4,099 **Douglas Road** South Miami Response Grand Total Dadeland North 2,185 Civic Cente Santa Clara Brownsville Dr.MLK Jr. University Allapattah Northside Overtown Okeechob Coconut Palm etto Vizcaya Brickell Tri-Rail South Miami 1,197 Culmer Hialeah Oriel University Dac N0 1,815 Douglas Road Dadeland South 2.591 Coconut Grove 1,223 Dadeland North 1,572 Vizcaya South Miami University Brickell 1.492 -5 Douglas Road Government Center 3,982 Coconut Grove Overtown Vizcaya Culmer Brickell Civic Center 1,846 1,978 Government Center Santa Clara Overtown Culmer Allapattah 1,074 Civic Center 1.133 Earlington Heights Santa Clara Brownsville Allapattah Dr. MLK, Jr. Earlington Heights Northside Brownsville Dr.MLK Jr. Tri-Rail Northside Hialeah 1,181 Tri-Rail Okeechobee Hialeah Palmetto Okeechobee Sub-total 28.341 Palmetto 219 2,524 1,377 1,228 946 3,980 96 16,538 Total Responses **In-Train Facilitators** 1,771 0 1203* 1.324 No Response TOTAL 30,112 Grand Total 222 2,542 352 1,299 17,862 1,386 1,232 950 4,007 * The sum of both the origin and destination questions that were not answered

Table 2-- Origin - Destination Matrix Based on Survey Information

Minimization/Mitigation of Non-Response Bias

The Metrorail Survey was implemented to maximize the response rate and the results must be carefully analyzed to mitigate the inevitable bias. In relative terms, non-response bias is generally a manageable issue for rail surveys. The following is a description of the strategies that were used to minimize and mitigate non-response bias for this effort.

Survey Instrument

Various methodological strategies were utilized to maximize the response rate, including a streamlined survey instrument to minimize the complexity of the instrument. The survey instrument was designed very carefully to be comprehensive and include only essential questions. It is typically the case that shorter survey instruments are more likely to be completed than longer ones. The complexity of the questions on the instrument was also an important consideration because respondents are less likely to complete the survey if it contains complicated language or concepts that are difficult for riders to understand.

Implementation

The implementation methodology focused on two primary strategies to minimize nonresponse bias: 1) utilization of trained personnel, and 2) utilization of specific methods that are designed to encourage respondents to complete the survey.

- a. The survey was advertised in advance of implementation to give riders a "headsup" that the survey would occur. To this end, the Miami-Dade Transit (MDT) provided a written notice on the MDT website and posted large color signs (multilingual) at stations in advance of the survey. MDT also made verbal announcements (multi-lingual) on all trains after every station the day before and the day of the survey.
- b. The people that distributed and collected the survey instrument were trained to strongly encourage participation. The willingness of potential respondents to complete the survey cannot be controlled, but the implementing staff were trained to be enthusiastic, knowledgeable (about the purpose of the survey), and diligent in the completed survey collection.
- c. The goal of the staffing plan was to maintain a diverse staff in the field, increasing the odds that unlikely respondents that are non-English speaking have an opportunity to participate in the survey. The language proficiencies of all survey staff, both professional and temporary, were identified during the staffing plan. With this information, the staff was assigned to the various stations to maximize the language competencies at each station.

- d. The temporary surveyors were pre-screened to have the following desirable characteristics: well-groomed and courteous, able to stand for long periods of time, comfortable approaching strangers, attention to detail, and persistence. In addition, all surveyors were properly and adequately identifiable with logo shirts and/or official name tags.
- e. All survey staff was required to attend a comprehensive training. The training consisted of a discussion on the survey purpose, a brief description of the Metrorail system, a hands-on training with the survey instrument, and a discussion on logistics, expectations of surveyors, and a role-playing exercise.
- f. Miami-Dade MPO, MDT and FDOT staffs were also present on many trains in an effort to help establish survey legitimacy and provide additional information that a rider may desire.
- g. A pretest was conducted on a small sample size to review how the questions were understood and answered by the rider. Based on the results of this pretest, the questionnaire was revised slightly prior to the survey. The questions on this survey are similar to questions on surveys that have already been tested. Efforts have been made to eliminate bias in the survey questions.

Mitigation of non-response bias after the survey will be done through a careful analysis of the survey results relative to observed data from other sources. The demographics of respondents will be analyzed relative to the survey population, or universe. The survey universe will be defined in terms of the population of the study area, as defined by an approximate travel shed.

Expansion Methodology

The data analysis and expansion methodology will be done in coordination with the next phase of this project. The general expansion methodology that will be used is outlined below.

Expansion Process

The expansion process will be completed in a series of steps and is described below.

- 1. Survey data will be cleaned to eliminate illogical or clarify incomplete answers. It is likely that certain questions will be answered in a way that cannot be utilized or not answered at all.
- 2. Usable survey records will be expanded to AM counts by station, direction, and by time period. Typically, origin and destination questions result in lower response rates than other questions such as trip purpose or access mode, and often are a source of inaccuracies in the data. Depending on the nature of the raw survey data, multiple

expansion factors may be developed, by question or groups of questions. Stations will be grouped where necessary, if there are minimal responses at any given station.

- 3. Expanded AM survey data will be analyzed in terms of home-based versus non homebased trips to properly expand the AM sample to daily ridership. The data must be expanded to the daily total in travel demand model terms. For example, care will be taken to relate the data to production/attraction terms, rather than origin/destination, in order to validate the regional model trip distribution.
 - a. For home-based trip survey responses, origins and destinations will be doubled for each trip to reflect a production/attraction format.
 - b. Non home-based AM trips will be summarized. This category of trips includes all trips that utilize Metrorail for just one direction.
 - c. Non home-based AM trips, home based daily trips, and non home-based PM trips, derived from the observed AM travel patterns, will be added together. The product of this should reflect total daily trips.

If necessary a time period adjustment factor will be developed and applied to ensure that the expanded survey data for each respective time period matches the corresponding time of day counts.

Cross-Check Expanded Data against Auxiliary Sources

The expanded survey data will be cross-checked against other available data sources, including MDT counts.

- 1. Expanded survey responses will be summarized by key markets and checked against control counts, as described in the Expansion Process section, above. This analysis will provide a disaggregate accuracy check of the expanded data. If non-response bias is still present, based on this analysis, appropriate adjustment factors will be developed to mitigate the bias.
- 2. Dimensions other than the station level boardings will be utilized for cross-checking purposes. Direction and segment level expansion totals will be used for this purpose.

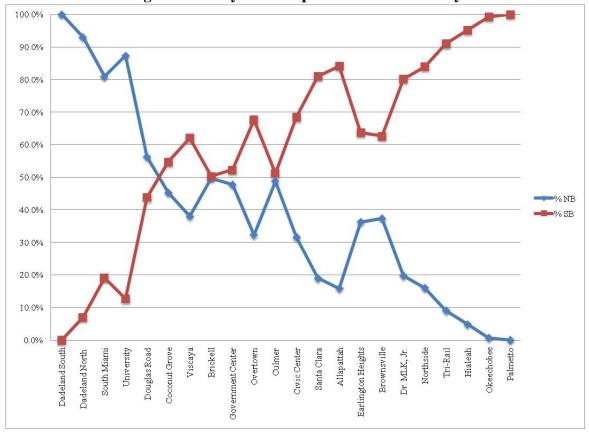
Data Analysis

The survey data was analyzed by station and direction for three time periods of travel: from 6:00 AM to 9:00 AM, from 9:00 AM to 3:00 PM, and from 3:00 PM to 7:00 PM. Based upon the survey results at each station, it was determined that the counts for each time period were very similar. Table 3 summarizes the overall ridership percentages for each station using the survey data collected from 6:00 AM to 6:00 PM. These overall percentages are graphically presented in Figure 1.

	5 Daily Kit	ici sinp Di	centoniai i e	i centages	
Station Name	Total NB	Total SB	TOTAL	% NB	% SB
Dadeland South	383	0	383	100.0%	0.0%
Dadeland North	437	33	470	93.0%	7.0%
South Miami	305	72	377	80.9%	19.1%
University	227	33	260	87.3%	12.7%
Douglas Road	175	136	311	56.3%	43.7%
Coconut Grove	81	98	179	45.3%	54.7%
Viscaya	57	93	150	38.0%	62.0%
Brickell	177	179	356	49.7%	50.3%
Government Center	590	646	1,236	47.7%	52.3%
Overtown	42	88	130	32.3%	67.7%
Culmer	59	62	121	48.8%	51.2%
Civic Center	216	468	684	31.6%	68.4%
Santa Clara	27	115	142	19.0%	81.0%
Allapattah	27	143	170	15.9%	84.1%
Earlington Heights	62	109	171	36.3%	63.7%
Brownsville	65	109	174	37.4%	62.6%
Dr. MLK, Jr.	37	150	187	19.8%	80.2%
Northside	40	210	250	16.0%	84.0%
Tri-Rail	25	252	277	9.0%	91.0%
Hialeah	9	176	185	4.9%	95.1%
Okeechobee	1	144	145	0.7%	99.3%
Palmetto	0	60	60	0.0%	100.0%
TOTAL	3,042	3,376	6,418	47.4%	52.6%

Table – 3 Daily Ridership Directional Percentages

Figure 1 – Daily Ridership Directional Summary



The directional ridership percentages for each station sample were expanded to represent the total population for each station using the total daily ridership (obtained from MDT April 2009 Counts). Table 4 provides a summary of the expanded daily ridership by station.

			1 1		
Station Name	Total NB	Total SB	Total Ridership	% NB	% SB
Dadeland South	6,699	0	6,699	100.0%	0.0%
Dadeland North	4,550	344	4,894	93.0%	7.0%
South Miami	2,650	625	3,275	80.9%	19.1%
University	1,847	268	2,115	87.3%	12.7%
Douglas Road	1,924	1,496	3,420	56.3%	43.7%
Coconut Grove	741	896	1,637	45.3%	54.7%
Viscaya	524	855	1,379	38.0%	62.0%
Brickell	1,309	1,323	2,632	49.7%	50.3%
Government Center	4,532	4,962	9,494	47.7%	52.3%
Overtown	538	1,128	1,666	32.3%	67.7%
Culmer	598	629	1,227	48.8%	51.2%
Civic Center	1,885	4,084	5,969	31.6%	68.4%
Santa Clara	127	543	670	19.0%	81.0%
Allapattah	293	1,550	1,843	15.9%	84.1%
Earlington Heights	557	979	1,536	36.3%	63.7%
Brownsville	342	573	915	37.4%	62.6%
Dr. MLK, Jr.	259	1,050	1,309	19.8%	80.2%
Northside	336	1,762	2,098	16.0%	84.0%
Tri-Rail	177	1,788	1,965	9.0%	91.0%
Hialeah	88	1,711	1,799	4.9%	95.1%
Okeechobee	8	1,091	1,099	0.7%	99.3%
Palmetto	0	1,267	1,267	0.0%	100.0%
TOTAL	27,921	30,987	58,908	47.4%	52.6%

Table 4 – Expanded Daily Ridership by Station

The returned questionnaires will be expanded by station and direction. The expanded survey data will be analyzed in terms of a number of key variables useful for travel demand model validation/calibration efforts. Those variables include:

- Trip origin and destination location;
- Activity purpose at origin and destination;
- Mode of access and egress;
- Predominant park-and-ride station locations;
- Other transit modes/lines used for the surveyed trip;
- Auto availability and driver's license;
- Household composition/demographic data; and
- Purpose and length of time utilizing Metrorail service.

This list includes the standard variables analyzed in travel surveys for modeling purposes. Cross-tabulations across the variables listed above will be prepared for further analysis and use in model validation.

APPENDIX A

Survey Instrument

METRORAIL Survey	Encuesta de METRORAIL	METRORAIL Kéksyonè 🔤
Please fill out this survey to help us plan for your public transit needs. Please return your survey as you exit the Metrorail Station. If you receive another survey today, please fill it out each time you ride Metrorail today. ENGLISH	Por favor llene esta encuesta para guiarnos con la planificación de servicios de transito. Por favor devuelva su encuesta al salir la estación de Metrorail. Si recibe otra encuesta hoy, por favor llene una cada vez que use el servicio de Metrorail. ESPAÑOL	Tanpri ranpli kéksyonè sa pou ou kapab édé nou planifyé bézwen transpòtasyon ou.Tanpri rémèt kéksyonè ya lè wap kité éstasyon Metrorail la jodiya.Tanpri ranpli yon kéksyonè chak fwa ou pran Metrorail jodiya. KREOL
ORIGIN - WHERE DID YOU START THIS ONE-WAY TRIP?	PARTIDA - ¿DÓNDE EMPEZÓ SU VIAJE EN UNA SOLA DIRECCIÓN?	PWEN DEPA - KI KOTE OU KOMANSE TRAJE SENP SA?
 I originally started this one-way trip at: (Place you are coming from now.) Work Place College / University School (K – 12) Shopping Social / Recreational Home Other(i.e. Airport, Hotel, etc.) The Name of this Place, Business, or Building I am coming from is:	 Yo comencé este viaje en una sola dirección en: (Lugar de partida) El trabajo La universidad La escuela (K – 12) Un lugar de compras Un lugar social / recreacional Mi casa Otro (Ej.Aeropuerto, Hotel, etc.) El nombre del Lugar, Negocio o Edificio de partida es: (Casa o Nombre del Lugar, Negocio o Edificio) b. Por favor provea la intersección más cercana (calles que cruzan) si no tiene una dirección exacta 	 I. Mwen té <u>kòmansé</u> trajè senp sa nan: (plas koté ou sòti konyéya) Travay Kolèj/Inivèsité Lékòl Makèt Koté Plézi Lakay Yon lòt koté (pa eksanp Ayéwopò, osinon Otel) a. Non Plas, Bizniz, osinon Bilding koté mwen sòti ya sé:
The address is:	La dirección es:	Adrès la sé:
and(Cross Street #1) (Cross Street #2)	(Calle #1) (Calle #2)	épi (Ryèl #1) (Ryèl #2)
City Zip Code	Ciudad Código Postal	Vil Kòd Postal
2. I left from this Place (The place identified above) at: AM / PM (Circle one)	2. <u>Partí</u> de este lugar (el lugar identificado arriba) a las:: AM / PM (Circule uno)	2. Mwen té kité Koté sa (koté ou té idantifyé nan kéksyon avan.) a: AM / PM (Antouré youn)
 3. To get to the first bus stop or Metrorail/Metromover/Tri-Rail Station for this one-way trip I: (Choose only one) Walked Biked Drove and parked at the stop/station Rode with someone who dropped me off at the stop/station Rode with someone who parked a vehicle at the stop/station Other (Please specify) 	 3. Para llegar a la primera parada de autobús o estación de Metrorail/ Metromover/Tri-Rail para este viaje en una sola dirección yo: (Escoja uno) Caminé solamente Monté una bicicleta Vine en un carro que dejé en la parada / estación Vine en un carro que me dejó en la parada/estación Vine con alguien que se estacionó en la parada / estación. Otro (Por favor especifique) 	 3. Pou mwen te vini nan prémyé bis stop osinon Metrorail/Metromover/ Tri-rail Estasyon sa pou trajè senp sa, mwen té: (Chwazi sèlman youn) Maché Vini sou Békan Kondi machin mwen ki paké nan éstasyon an Pran woulib nan men yon moun ki dépozém nan éstasyon an Pran woulib nan men yon moun ki paké machin li nan éstasyon an Itilizé lòt Mwayen (Tanpri di ki mwayen)
 I got on the Metrorail train at: (Check the station you got on Metrorail.) Palmetto Brownsville Culmer Coconut Grove Okeechobee Earlington Overtown Douglas Road Hialeah Heights Government University Tri-Rail Allapattah Center South Miami Northside Santa Clara Brickell Dadeland North Dr. MLK Jr. 	 Abordé Metrorail en la estación de: (Marque la estación en que abordo Metrorail) Palmetto Brownsville Culmer Coconut Grove Okeechobee Earlington Overtown Douglas Road Hialeah Heights Government University Tri-Rail Allapattah Center South Miami Northside Santa Clara Brickell Dadeland North Dr. MLK Jr. Civic Center Vizcaya Dadeland South 	 4. Mwen monté nan Metrorail tren sa nan estasyon: (Tchéké non estasyon an.) Palmetto Brownsville Culmer Coconut Grove Okeechobee Earlington Overtown Douglas Road Hialeah Heights Government University Tri-Rail Allapattah Center South Miami Northside Santa Clara Brickell Dadeland North Dr. MLK Jr. Civic Center Vizcaya Dadeland South
DESTINATION - WHERE ARE YOU GOING?	DESTINO - ¿A DÓNDEVA?	DESTINATION - KI KOTE OU PRALE?
 I will get off the Metrorail train at: (Check the station you will get off Metrorail.) Palmetto Brownsville Culmer Coconut Grove Okeechobee Earlington Overtown Douglas Road Hialeah Heights Government University Tri-Rail Allapattah Center South Miami Northside Santa Clara Brickell Dadeland North Dr. MLK Jr. 	 5. Me bajaré del Metrorail en la estación de: (Marque la estación en que se bajará de Metrorail) Palmetto Brownsville Culmer Coconut Grove Okeechobee Earlington Overtown Douglas Road Hialeah Heights Government University Tri-Rail Allapattah Center South Miami Northside Santa Clara Brickell Dadeland North Dadeland South 	 5. Map désann Metrorail tren sa nan estasyon: (Tchéké non estasyon an.) Palmetto Brownsville Culmer Coconut Grove Okeechobee Earlington Overtown Douglas Road Hialeah Heights Government University Tri-Rail Allapattah Center South Miami Northside Santa Clara Brickell Dadeland North Dr. MLK Jr. Civic Center Vizcaya Dadeland South
 6. When I leave the last bus stop or Metrorail/Metromover/Tri-Rail Station to get to where I am going for this one-way trip I will: (Choose only one) Walk Bike Drive a vehicle I parked at the stop/station Ride with someone who is picking me up at the stop/station Ride with someone who parked a vehicle at the stop/station Other (Please specify)	 6. Cuando me vaya de la parada de autobús o estación de Metrorail/ Metromover/Tri-Rail para ir a mi destino en una sola dirección voy a: (Escoja uno) Caminar solamente Ir en bicicleta Ir en un carro que yo dejé en la parada/estación Ir en un carro que me recogerá en la parada/estación Ir en un carro que alguien parqueo en la parada/estación Otro (Por favor especifique) (Voltee la página) 	 6. Lè mwen kité dènyé bis stop osinon Metrorail/Metromover/Tri-rail Estasyon sa pou trajè senp sa, mwen pral: (Chwazi sèlman youn) Maché Pran Békan Kondi machin mwen ki paké nan éstasyon an. Pran woulib nan men yon moun kab vini chachém nan éstasyon an. Pran woulib nan men yon moun ki paké machin li nan éstasyon an. Itilizé lòt Mwayen (Tanpri di ki mwayen)(Tounen paj la)

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7.	I will ultimately finish this one-way trip at: (Place you are going to.) Work Place College / University School (K - 12) Shopping Social / Recreational Home Other(i.e. Airport, Hotel, etc.)	 Finalmente concluiré mi viaje de una sola dirección en: (El lugar de mi destino) El trabajo La universidad La escuela (K – 12) Un lugar de compras Un lugar social / recreacional Mi casa Otro(Ej:Aeropuerto, Hotel, etc.) 	 7. Map bouklé trajè senp sa nan: Travay Kolèj/Inivèsité Lékòl Makèt Koté Plézi Lakay Yon lòt koté (pa eksanp Ayéwopò, osinon Otel)
a.	The Name of this Place, Business, or Building I am going to is: (Home or Name of Place, Business or Building)	a. El nombre del Lugar, Negocio o Edificio de mi destino es: (Casa o nombre del Lugar, Negocio o Edificio)	a. Non Plas, Bizniz, osinon Bilding koté mwen sòti ya sé: (Lakay osinon Non Plas, Bizniz oubyen Bilding)
b.	Please provide nearest Intersection (or Cross Streets) if you do not know the exact address The address is:	 b. Por favor provea la intersección más cercana (calles que cruzan) si no tiene una dirección exacta La dirección es: 	 Tanpri ba nou Kafou ki pi pré ya si ou pa konnen adrès ekzak la Adrès la sé:
		v	
	and (Cross Street #1) (Cross Street #2)	(Calle #1) (Calle #2)	épi (Ryèl #1) (Ryèl #2)
	City Zip Code	Ciudad Código Postal	Vil Kòd Postal
		8. Llegaré a este lugar (el lugar identificado arriba) a las:: AM / PM (Circule uno)	8. Map rivé Koté sa (koté ou té idantifyé nan kéksyon avan) a: : AM / PM (Antouré youn)
8.	I will arrive at this Place (the Place identified above) at:: AM / PM (Circle one)	ACERCA DE ESTE VIAJE EN UN SOLO SENTIDO	o. Map rive kote sa (kote ou te idantifye nan keksyon avan) a:: API / PPI (Antoure youn)
	ABOUT THIS ONE-WAY TRIP	9. Los autobuses/ autobús pequeño y/o líneas de tren en el orden exacto que usare	APWOPOTRAJE SENP SA
9.	The exact order of bus routes, jitneys, and/or rail lines I will use to make this one-way trip is: (List in the boxes below the buses, school buses, jitneys and rail lines used for this one way trip.)	para hacer este viaje en una sola dirección: (Liste en las cajas de abajo los autobuses, autobuses de escuela, autobús pequeño y líneas de tren usadas en este viaje en una sola dirección.)	9. Lòd ekzak wout bis/Djitni ak/oswa Wout Tren map pran pou mwen fè trajè senp sa sé: (Ekri nan bwat anba yo bis, bis lékòl, djitni avèk wout tren ou pran pou trajè senp sa)
START	First Second Third Fourth bus route/rail line/school bus I took bus route/rail line/school bus I took	Primero Segundo Tercero Cuarto Ruta de autobús/Línea de tren/ Ruta de autobús/Línea de tren/Autobús Ruta de autobús/Línea de tren/Autobús Ruta de autobús/Línea de tren/Autobús Autobús de escuela que tome de escuela que tome de escuela que tome de escuela que tome	Prémyé Dézyèm Twazyèm Katryèm bis wout/lin tren/bis lékòl mwen té pran té pran té pran té pran
	EXAMPLE: BCT Rt 43 Tri-Rail Metrorail Metromover	EJEMPLO: BCT ruta 43 Tri-Rail Metrorail Metromover	EKSANP: Rt 43 Tri-Rail Metrorail Metromover
10.	The fare type I used for this Metrorail one-way trip was: \$2 Regular Cash Bus to Rail Transfer Metrorail Reduced Fare Permit (Circle one): Disabled Medicare Student Preschool Golden / Patriot Passport Metropass Ollege Metropass Visitor Metropass	 10. La tarifa que usé para este viaje en Metrorail en una sola dirección era: \$2 en efectivo Transferencia de autobús a tren Transferencia de Tri-Rail Metrorail tarifa reducida - (<i>Circule uno</i>) Incapacitado Medicare Estudiante Preescolar (<i>Circule uno</i>) Dorado (Golden) / Pasaporte Patriota (<i>Patriot</i>) Metropass Metropass de Descuento Metropass Universitario Metropass de Visitante 	 10. Fason mwen té péyé poum té pran Metrorail trajè senp sa sété: \$2 Lajan Kach Transfè Bis pou Tren Transfè Tri-Rail Kat Diskont Metrorail - (Antouré youn) Andikapé Médikè Elèv Matènèl Paspò Lò / Patryòt Métropas Diskont Métropas Kolèj Métropa Vizitè Métropas
11.	 I typically make this one-way trip: □ Less than once per week □ I time per week □ 2 times per week □ 3 times per week □ 4 times per week □ 5 or more times per week. 	 II. Típicamente hago este viaje en una sola dirección: Menos de una vez por semana Una vez por semana 2 veces por semana 3 veces por semana 4 veces por semana 5 o más veces por semana 	 II. Mwen fè trajè senp sa: Mwens ké yon fwa pa sémèn Yon fwa pa sémèn Dé fwa pa sémèn Twa fwa pa semen Kat fwa pa semen Plis ké senk fwa pa sémèn.
PL	EASE TELL US ABOUT YOURSELF. (This information will be kept strictly confidential.)	POR FAVOR INFÓRMENOS SOBRE USTED. (Esta información se mantendrá estrictamente confidencial)	TANPRI PALE NOU DE WOU. (Enfòmasyon sa ap rété estrikman konfidansyèl)
12.	I live in Zip Code	I2. Mi código postal es	I2. Mwen abité nan kòd postal
13.	 I live / stay in South Florida: Less than one month per year I to 6 months per year More than 6 months per year 	 I3. Vivo / resido en el Sur de la Florida: Antica Menos de un mes al año I a 6 meses al año Más de 6 meses al año 	 I3. Mwen viv nan Sid Florida pou: I Mwens ké yon mwa pa ané I Youn a 6 mwa pa ané I Plis ké 6 mwa pa ané
14.	I have a valid driver's license: 🛛 Yes 🖓 No	14. Tengo licencia de conducir: 🛛 Sí 🖓 No	14. Mwen gen lisans poum kondi machin: 🛛 Wi 🔍 Non
15.	My age is: □ Under 16 □ 16 - 24 □ 24 - 34 □ 35 - 44 □ 45 - 54 □ 55 - 64 □ 65 or over	15. Mi edad es: Menor de 16 16 - 24 24 - 34 35 - 44 45 - 54 55 - 64 65 o más	15. Laj mwen se: Image: Mwens ké 16 Image: 16 - 24 Image: 24 - 34 Image: I
16.	My race is best described as: American Indian Asian Black / African American White Spanish / Hispanic / Latino Other	 Indio-Americano Asiático Negro / Afro-Americano Raza Blanca Español / Hispano / Latino Otro 	 I6. Pi bon fason pou dékri ras mwen sé: Aziatik Aziatik Nwa/Afriken Mériken Blan PanYòl / Ispanik / Laten Lòt
17.	Including me, (# of People) people live in my home and of those: (# of people) have a driver's license; (# of people) are under 16 years old (# of people) are 65 or over; and (# of people) work outside of our home.	 Incluyéndome a mí, (# de personas) persona(s) viven en mi hogar y de ellos: (# de personas) tiene(n) licencia de conducir; (# de personas) es(son) menores de 16 años; (# de personas) es(son) de 65 or más; y (# de personas) trabaja(n) fuera de nuestro hogar. 	17. Konté tèt pam, (kantité moun) moun ki abité lakay mwen, é nan yo: (kantité moun) ki genyen yon lisans; (kantité moun) ki genyen mwens ké 16 an; (kantité moun) ki genyen plis ké 65 an; épi (kantité moun) ki travay déyò kay la.
18.	There areregistered cars, trucks, vans or motorcycles in my household.	18. Tenemos registradoscarro (s), camiones, vanes o motocicletas en mi hogar.	18. Genyenvwati, kamyon, tibis (yòl) osinon motosiklèt ki imatrikilé lakay mwen.
	gister to win a free Metropass when you return a completed survey. (please print clearly)	Regístrese para ganar un Metropass gratis cuando devuelva una encuesta completa. (Por favor escriba claro) Nombre:	Anréjistré pou kab genyen yon Métropas gratis lè ou rétounen kéksyonè sa. (Tanpri ékri ak klaté) Non ou:
	dress:	Dirección:	
Cit		Ciudad: Estado: Código Postal:	Vil: Eta: Kòd Postal:
r le	ase return completed surveys in the marked boxes as you leave the station.	Por favor devuelva la encuesta completa en las cajas marcadas cuando salga de la estación.	ranpri mete keksyone ki konpiete yon nan dwat ki make pou yo a ie wap kite estasyon an.
-			

APPENDIX B

On-Board Surveys – Directional Count Schedule

			Southbou	nd Trains								Northbou	nd Trains				
	Okeech-		Earl.	Civic	Gov't	Douglas	Dadeland		Dadeland	Douglas	Gov't	Civic	Earl.		Okeech-		
Palmetto	obee	Tri-Rail	Heights	Center	Center	Road	South		South	Road	Center	Center	Heights	Tri-Rail	obee	Palmetto	
	0:03	0:05	0:10	0:05	0:06	0:09	0:09			0:09	0:10	0:05	0:05	0:09	0:05	0:05	
								Begin Shift	6:05	6:14	6:24	6:29	6:34	6:43	6:48	6:53	Stay on Train
7:00	7:03	7:08	7:18	7:23	7:29	7:38	7:47	Change Trains									
									8:00	8:09	8:19	8:24	8:29	8:38	8:43	8:48	Stay on Train
9:00	9:03	9:08	9:18	9:23	9:29	9:38	9:47	Change Trains									
									10:15	10:24	10:34	10:39	10:44	10:53	10:58	11:03	Stay on Train
11:15	11:18	11:23	11:33	11:38	11:44	11:53	12:02	Stay on Train	12:15	12:24	12:34						
											Lunch						
											Lunch						
											13:19	13:24	13:29	13:38	13:43	13:48	Stay on Train
14:00	14:03	14:08	14:18	14:23	14:29	14:38	14:47	Stay on Train	15:00	15:09	15:19	15:24	15:29	15:38	15:43	15:48	Stay on Train
16:00	16:03	16:08	16:18	16:23	16:29	16:38	16:47	Change Trains									
									17:00	17:09	17:19	17:24	17:29	17:38	17:43	17:48	Stay on Train
18:00	18:03	18:08	18:18	18:23	18:29	18:38	18:47	End Shift									

				ind Trains	Northbou								nd Trains	Southbou			
tto	Palmetto	Okeech- obee	Tri-Rail	Earl. Heights	Civic Center	Gov't Center	Douglas Road	Dadeland South		Dadeland South	Douglas Road	Gov't Center	Civic Center	Earl. Heights	Tri-Rail	Okeech- obee	Palmetto
;	0:05	0:05	0:09	0:05	0:05	0:10	0:09			0:09	0:09	0:06	0:05	0:10	0:05	0:03	
:03 Stay on T	7:03	6:58	6:53	6:44	6:39	6:34	6:24	6:15	Begin Shift								
									Change Trains	8:02	7:53	7:44	7:38	7:33	7:23	7:18	7:15
0:03 Stay on T	9:03	8:58	8:53	8:44	8:39	8:34	8:24	8:15									
									Change Trains	10:02	9:53	9:44	9:38	9:33	9:23	9:18	9:15
1:18 Stay on T	11:18	11:13	11:08	10:59	10:54	10:49	10:39	10:30									
												11:59	11:53	11:48	11:38	11:33	11:30
												Lunch					
									Change Trains	13:02	12:53	12:44					
1:18 Stay on T	14:18	14:13	14:08	13:59	13:54	13:49	13:39	13:30	-								
									Change Trains	15:17	15:08	14:59	14:53	14:48	14:38	14:33	14:30
5:33 Stay on T	16:33	16:28	16:23	16:14	16:09	16:04	15:54	15:45									
3:18 Change	18:18	18:13	18:08	17:59	17:54	17:49	17:39	17:30	Stay on Train	17:25	17:16	17:07	17:01	16:56	16:46	16:41	16:38
									End Shift	19:17	19:08	18:59	18:53	18:48	18:38	18:33	18:30

			Southbou	nd Trains								Northbou	ind Trains				
Palmetto	Okeech- obee	Tri-Rail	Earl. Heights	Civic Center	Gov't Center	Douglas Road	Dadeland South		Dadeland South	Douglas Road	Gov't Center	Civic Center	Earl. Heights	Tri-Rail	Okeech- obee	Palmetto	
	0:03	0:05	0:10	0:05	0:06	0:09	0:09			0:09	0:10	0:05	0:05	0:09	0:05	0:05	
								Begin Shift	6:26	6:35	6:45	6:50	6:55	7:04	7:09	7:14	Stay on Train
7:23	7:26	7:31	7:41	7:46	7:52	8:01	8:10	Change Trains									
									8:23	8:32	8:42	8:47	8:52	9:01	9:06	9:11	Change Trains
9:30	9:33	9:38	9:48	9:53	9:59	10:08	10:17	Change Trains									
									10:45	10:54	11:04	11:09	11:14	11:23	11:28	11:33	Stay on Train
11:45	11:48	11:53	12:03	12:08	12:14												
					Lunch												
					12:59	13:08	13:17	Change Trains									
									13:45	13:54	14:04	14:09	14:14	14:23	14:28	14:33	Stay on Train
14:45	14:48	14:53	15:03	15:08	15:14	15:23	15:32	Change Trains									
									15:53	16:02	16:12	16:17	16:22	16:31	16:36	16:41	Stay on Train
16:45	16:48	16:53	17:03	17:08	17:14	17:23	17:32	Change Trains									
									17:45	17:54	18:04	18:09	18:14	18:23	18:28	18:33	Change Trains
18:45	18:48	18:53	19:03	19:08	19:14	19:23	19:32	End Shift									

			Southbou	ind Trains								Northbou	ind Trains				
	Okeech-		Earl.	Civic	Gov't	Douglas	Dadeland		Dadeland	Douglas	Gov't	Civic	Earl.		Okeech-		
Palmetto	obee	Tri-Rail	Heights	Center	Center	Road	South		South	Road	Center	Center	Heights	Tri-Rail	obee	Palmetto	
	0:03	0:05	0:10	0:05	0:06	0:09	0:09			0:09	0:10	0:05	0:05	0:09	0:05	0:05	
6:00	6:03	6:08	6:18	6:23	6:29	6:38	6:47	Change Trains									
									7:00	7:09	7:19	7:24	7:29	7:38	7:43	7:48	Stay on Train
7:53	7:56	8:01	8:11	8:16	8:22	8:31	8:40	Stay on Train	8:45	8:54	9:04	9:09	9:14	9:23	9:28	9:33	Stay on Train
9:45	9:48	9:53	10:03	10:08	10:14	10:23	10.22	Change Trains									
9.45	9.48	9.55	10.05	10.08	10.14	10.25	10.52		11:00	11:09	11:19	11:24	11:29	11:38	11:43	11:48	Stay on Train
12:00	12:03	12:08	12:18	12:23	12:29												
					Lunch												
					13:14	13:23	13:32	Change Trains									
									14:00	14:09	14:19	14:24	14:29	14:38	14:43	14:48	Stay on Train
15:00	15:03	15:08	15:18	15:23	15:29	15:38	15:47	Change Trains									
									16:08	16:17	16:27	16:32	16:37	16:46	16:51	16:56	Stay on Train
17:00	17:03	17:08	17:18	17:23	17:29	17:38	17:47	Change Trains									
									18:00	18:09	18:19	18:24	18:29	18:38	18:43	18:48	End of Shift

			Southbound Trains Northbound Trains														
	Okeech-		Earl.	Civic	Gov't	Douglas	Dadeland		Dadeland	Douglas	Gov't	Civic	Earl.		Okeech-		
Palmetto	obee	Tri-Rail	Heights	Center	Center	Road	South		South	Road	Center	Center	Heights	Tri-Rail	obee	Palmetto	
	0:03	0:05	0:10	0:05	0:06	0:09	0:09			0:09	0:10	0:05	0:05	0:09	0:05	0:05	
6:08	6:11	6:16	6:26	6:31	6:37	6:46	6:55	Change Trains									
									7:08	7:17	7:27	7:32	7:37	7:46	7:51	7:56	Stay on Train
8:00	8:03	8:08	8:18	8:23	8:29	8:38	8:47	Change Trains									
									9:00	9:09	9:19	9:24	9:29	9:38	9:43	9:48	Stay on Train
10:00	10:03	10:08	10:18	10:23	10:29	10:38	10:47	Change Trains									
									11:15	11:24	11:34	11:39	11:44	11:53	11:58	12:03	Stay on Train
12:15	12:18	12:23	12:33	12:38	12:44												
					Lunch												
					Lunich												
					13:29	13:38	13:47	Change Trains									
									14:15	14:24	14:34	14:39	14:44	14:53	14:58	15:03	Stay on Train
15:15	15:18	15:23	15:33	15:38	15:44	15:53	16:02	Change Trains									
									16:15	16:24	16:34	16:39	16:44	16:53	16:58	17:03	Stay on Train
17:08	17:11	17:16	17:26	17:31	17:37	17:46	17:55	Change Trains									
									18:08	18:17	18:27	18:32	18:37	18:46	18:51	18:56	End Shift

			Southbou	nd Trains								Northbou	ind Trains				
	Okeech-		Earl.	Civic	Gov't	Douglas	Dadeland		Dadeland	Douglas	Gov't	Civic	Earl.		Okeech-		
Palmetto	obee	Tri-Rail	Heights	Center	Center	Road	South		South	Road	Center	Center	Heights	Tri-Rail	obee	Palmetto	
	0:03	0:05	0:10	0:05	0:06	0:09	0:09			0:09	0:10	0:05	0:05	0:09	0:05	0:05	
6:15	6:18	6:23	6:33	6:38	6:44	6:53	7:02	Change Trains									
									7:15	7:24	7:34	7:39	7:44	7:53	7:58	8:03	Stay on Train
8:08	8:11	8:16	8:26	8:31	8:37	8:46	8:55	Change Trains									
									9:08	9:17	9:27	9:32	9:37	9:46	9:51	9:56	Change Trains
10:15	10:18	10:23	10:33	10:38	10:44	10:53	11:02	Change Trains									
									11:30	11:39	11:49						
											Lunch						
											Lunch						
											12:34	12:39	12:44	12:53	12:58	13:03	Stay on Train
13:15	13:18	13:23	13:33	13:38	13:44	13:53	14:02	Change Trains									
									14:30	14:39	14:49	14:54	14:59	15:08	15:13	15:18	Stay on Train
15:30	15:33	15:38	15:48	15:53	15:59	16:08	16:17	Change Trains									
									16:30	16:39	16:49	16:54	16:59	17:08	17:13	17:18	Stay on Train
17:23	17:26	17:31	17:41	17:46	17:52	18:01	18:10	Change Trains									
									18:23	18:32	18:42	18:47	18:52	19:01	19:06	19:11	End Shift

APPENDIX C

Survey Log Sheets

Metrorail Lead Counter Log Sheet

Name:					
Car:					
Door:	FR MII	D AFT			
Direction:	NORTHBO	UND	Time::	AM / PM	
				Ti	me
Stat	ion Name	ONs	OFFs	Arr.	Dep.
Dadeland Sou	th				
Dadeland Nor	th				
South Miami					
University					
Douglas Road					
Coconut Grov	e				
Vizcaya					
Brickell					
Government C	Center				
Historic Overt	own/Lyric Theatre				
Culmer					
Civic Center					
Santa Clara					
Allapattah					
Earlington He	ights				
Brownsville					
Dr. Martin Lu	ther King				
Northside					
Tri-Rail					
Hialeah					
Okeechobee					
Palmetto					

Metrorail Counter Log Sheet

Name:			
Car:			
Door:	FR MII	D AFT	
Direction:			Time:; AM / PM
Stat	ion Name	ONs	OFFs
Dadeland Sou	th		
Dadeland Nor	th		
South Miami			
University			
Douglas Road			
Coconut Grov	e		
Vizcaya			
Brickell			
Government C	Center		
Historic Overt	town/Lyric Theatre		
Culmer			
Civic Center			
Santa Clara			
Allapattah			
Earlington He	ights		
Brownsville			
Dr. Martin Lu	ther King		
Northside			
Tri-Rail			
Hialeah			
Okeechobee			
Palmetto			

Metrorail Lead Counter Log Sheet

Name:				
Car:				
Door:	FR	MID	AFT	
Direction:	SOUT	HBOUN	ID	Time:: AM / PM

Station Nome	ONa	OFE	Time		
Station Name	ONs	OFFs	Arr.	Dep.	
Palmetto					
Okeechobee					
Hialeah					
Tri-Rail					
Northside					
Dr. Martin Luther King					
Brownsville					
Earlington Heights					
Allapattah					
Santa Clara					
Civic Center					
Culmer					
Historic Overtown / Lyric Theater					
Government Center					
Brickell					
Vizcaya					
Coconut Grove					
Douglas Road					
University					
South Miami					
Dadeland North					
Dadeland South					

Metrorail Counter Log Sheet

Name:			
Car:			
Door:	FR MII	D AFT	
Direction:	SOUTHBO	UND	Time:: AM / PM
Stat	ion Name	ONs	OFFs
Palmetto			
Okeechobee			
Hialeah			
Tri-Rail			
Northside			
Dr. Martin Lu	ther King		
Brownsville			
Earlington He	ights		
Allapattah			
Santa Clara			
Civic Center			
Culmer			
Historic Overt	town / Lyric Theater		
Government C	Center		
Brickell			
Vizcaya			
Coconut Grov	e		
Douglas Road			
University			
South Miami			
Dadeland Nor	th		
Dadeland Sou	th		

Station Supervisor Log

Name:	
Station:	

Time]	Entry Turr	stile Count	s			
Time	1	2	3	4	5	6	7	8	9	10
6:00 AM										
7:00 AM										
8:00 AM										
9:00 AM										
10:00 AM										
11:00 AM										
12:00 PM										
1:00 PM										
2:00 PM										
3:00 PM										
4:00 PM										
5:00 PM										
6:00 PM										
7:00 PM										

T :					Exit Turn	stile Counts				
Time -	1	2	3	4	5	6	7	8	9	10
6:00 AM										
7:00 AM										
8:00 AM										
9:00 AM										
10:00 AM										
11:00 AM										
12:00 PM										
1:00 PM										
2:00 PM										
3:00 PM										
4:00 PM										
5:00 PM										
6:00 PM										
7:00 PM										

Station Supervisor Temp. Check In/Out Log

Name:	
Station:	

	Temp. Name	Check-IN Time	Check-OUT Time	Remarks
1.				
2.				
3.				
4.				
5.				

Surveyor Log Sheet

Name:	
Station:	

T*	Survey Ser	ial Number	Course Defensio
Time	Start	End	– Survey Refusals
6:00 AM			
7:00 AM			
8:00 AM			
9:00 AM			
10:00 AM			
11:00 AM			
12:00 PM			
1:00 PM			
2:00 PM			
3:00 PM			
4:00 PM			
5:00 PM			
6:00 PM			
7:00 PM			

APPENDIX D

Directional Count Raw Survey Data

Appendix D: 2009 MetroRail Directional Counts - Raw Survey Data

Time	On/			Hislosh		Tri	i-Rail	No	orthside		MLK	Brownsville		Earling Hts		Allapa	ttah	Santa C	lara (Civic Ce	nter	Culm		vertown yric Ttre		Center	Brick	ell	Vizcay	/a	Coconut Grove		uglas Dad	Univ	ersity	South	Miami	Dadeland North	l Dadel Sou			тоти	AL .			
Time	Off	NB	SB	NB	SB	NB	SB	NB	SE	B NB	B SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB 1	NB SE	B NB	SB	NB	SB	NB	SB	NB SB	NB	SB	NB	SB	NB	SB	NB SE	NB	SB	ONS NB	ONS SB	OFFS NB	OFFS SB
6AM to 7AM	Ons Offs	0	5	0	9 0	0 14	9 0	1 9	1 2 9	28 2	4 9) 2 1	3 15	999 07	7 0	11 6	11 1	6 3	3 1	3 8	7 0	15 37	6 5	3 3	5 0	4 6	0 8 2 79	3 51	20 10	6 7	2	11 4	9 0	9 12 2 4	1	16 2	0 12	16 1	0 8	79 0	2 83 3 0	0 14	294	140	217	130
7AM to 8AM	Ons Offs	0	9	0	55	2	35	ç		53	4 22	2	3 1	79	12	5	12	2	25	0	6	4	6	4	2	3	2 7	4	11	16	3	6	6	8 8	(03	0	67	0	89	3 53	0	292	293	261	203
8AM to 9AM	Ons Offs	0	6	0	12	0	12	1	1	8	0 10	5	2	7 4 1 0	5	4	9	1	12	3	17	3	11	1	3	9	3 9		19	13	3	6	15 2	20 14	4	2 108	0	29	10	74	3 58	0	357	227	262	260
9AM to 10AM	Ons	0	6	0	17	0	28	1	1 3	39	3 3	5	2 2	3 3	12	5	17	1	25	2	8	11	25	6	1	0	4 4	43	2	11	3	1	1	2 4		1 3	1	26	1	33	0 28	49	139	267	188	168
10AM to 11AM	Offs Ons	0	5	2	1	12	1 9	4	4)	4	0 13	2 3	3 0 1	000	6 7	2	13	1	12	0	4 5	30 19	39 43	3 10	7	4	9 39	58 32	18	9 11	1 4	10	1 7 1			82 97	4	1 33	2	35	3 0 0 19	11 0	206	232	151	274
11AM to 12PM	Offs Ons	1	6	0	3	2	13	C)) :	0 38	5 1	7	6	3 3 9 17	16	4	6	10	9	1	6	29 18	11 25	6	8 2	4	9 43	58 20	17	16 3	4	2	4	0 13		9 5 0 18	26	1 25	25	14	1 28	39 0	263	165	297	60
12PM to 1PM	Offs Ons	10	5	18 0	0	34	1 14	22	2	3	31 1 1 14	2 2	2 1	2 8	1 17	15 3	1	8	5 16	2	3 12	46 7	13 51	4	1 4	3	4 46 22 66	13 85	11 9	1 8	2	1	3	3 5		9 3	2	1 7	0	0 8	3 0 6 3	0	122	299	61	321
1PM to 2PM	Offs Ons	0	2	2	1 0	9 1	1	2	2	0	1 4 5 2	1 L	3	3 3 1 4	3	1 2	3	3	5	1 2	2	9 19	24 9	0 3	6 1	4	11 14 0 49	94	2 11	7 19	1 0	11 5	0 7	3 Z 2 7	1 3	2 2 6	6 7	0 14	19 27	0 3 12	2 9	42 0	163	215	159	206
2PM to 3PM	Offs Ons	3	0	2 0	0 6	11 0	0 11	7 C	7)	1 2 3	22 (6 28) 1 3	12 4 1	1 1 5 9	2 7	7 7	1 4	12 2	1 9	5 6	0 3	19 39	1 36	1 9	1 10	5 3	0 37 4 100	59 59	2 15	10 9	1 7	7 4	3 1 5	16 4 4 28	1	7 1 8 12	9 1	4 17	12 3	0 2 36	26 0 1 26	42 0	331	216	298	165
3PM to 4PM	Offs Ons	12 0	0 5	8 0	0 8	17 1	0 10	31 2	1 2 2	1 3 24	37 (2 14) 1 1	16 2	4 11 7 2	3 16	13 2	1 9	13 3	3 16	3 4	2 8	35 12	17 91	1 6	2 19	15 4	5 39 10 70	24 73	7 15	14 13	5 5	6 31	12 10 1	9 16 17 22		1 1 5 18	9 7	6 24	11 17	0 2 31	20 0 4 30	23 0	265	405	197	416
4PM to 5PM	Offs Ons	4	0	11 0	0 3	12 1	4 12	16	5 2	0 1 21	11 4 5 13	4 3	9 5 1	3 3 1 4	9 9	4 2	8 2	17 3	8 6	6 4	2 29	16 47	6 10	4 5	9 1	8 6	1 33 0 85	51 51	6 16	15 4	15 7	5 2	7 1 7	LO 6 3 23	1	7 1 6 29	20 0	6 25	52 0	2 8 6	31 0 1 14	111 0	296	144	326	118
5PM to 6PM	Offs Ons	9 0	0 1	14 0	0 11	31 0	1 11	65 2	5 2 :	2 3 15	31 2 3 10	2 2 5	24 0 1	3 17 2 0	5 6	16 4	1 8	19 1	1 8	4 1	0 2	14 10	2 114	5 1	2 5	13 1	3 28 34 45	4 166	6 12	6 33	6 8	2 9	8 1 1	4 13 11 20	1	90 67	9 6	2 13	13 9	1 4 13	41 0 L0 16	8 0	158	503	145	484
6PM to 7PM	Offs Ons	9 0	0 7	10 0	0 7	18 0	0 9	19 4	9 4 :	2 1 15	12 3 2 12	3 2	7 5	2 1 8 2	10 2	4 9	6 4	7 2	9 1	4 1	3 11	4 12	2 32	2 4	3 1	3 : 0	10 21 0 42	. 50 : 45	3 23	19 10	4 3	8 2	7 5	7 4 2 3	2	1 0 6 7	23 4	2 9	55 0	4 12 7	26 0 0 16	125 0	156	178	179	215
7PM to 8PM	Offs Ons	10 0	0	15 0	0	15 0	0	44 C	4 D	4 2 0	21 (0 ()	8 0	5 3 0 0	3 0	10 0	4 4	8 0	0 0	4	1 1	4 0	0 9	0	0 1	4 0	0 15 0 0	10 10	7 0	5 23	2 0	1 5	3 0	4 4 1 (19	9 2 0 0	18 4	0 0	21 0	0 5	57 0 0 0	63 0	0	92	1,5	133
TOTAL	Offs	0 NB	0 SB_	0 NB_	0 SB	1 NB	0 SB_	C NB) Se	0 3 NB	0 (3 SB) NB	0 SB	0 0 NB	1 SB_	0 NB	0 SB	0 NB	3 SB	0 NB	0 SB	0 NB	2 SB	0 NB	0 SB	0 NB SE	2 (3 NB	11 SB	0 NB	6 SB	0 NB	13 SB	0 NB SB	8 (NB	1: SB	3 0 NB	5 SB	0 NB_	17 SB	0 NB SI	33 0 NB	19 SB	3,042	3,376	2,742	3,153
TOTAL O TOTAL O	NS	0		1 93	144	9 201	176 10		5 25	52 4 20 19	40 210) 3	37 15 35 3	0 65	109 44	62 85	109	27 107	143 49	27 45	115 19	216	468	59 28	62 42	42 8	88 590	646	177	179 134	57 56	93 69	81 9	98 175 35 84	13		33 162	305 29	72 278	437 3 9 47	33 383	0	6,418	3	5,89	

Denotes Time Period During which Certain Southbound Trains were Halted