

NORTH MIAMI COMMUNITY TRANSIT CIRCULATOR STUDY

FINAL REPORT

City of North Miami

April 26, 2000

PRL & Associates, Inc. with North Meridian

PRL & Associates, Inc.

North Meridian

NORTH MIAMI COMMUNITY TRANSIT CIRCULATOR STUDY

PRE-COMMUNITY INPUT INTERIM REPORT

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LIST OF REFERENCES

FOOTNOTED

- Snohomish County Transportation Authority. 1993. A Guide to Land Use and Public Transportation.; 1994. Creating Transportation Choices Through Zoning: A Guide for Snohomish County Communities. Snohomish County, Washington.
- Ewing, Reid, Joint Center for Environmental and Urban Problems. 1996. Pedestrian and Transit Friendly Design. Florida Department of Transportation. Florida.
- 3. Tri-Met,. 1993. Planning and Design for Transit. Portland, Oregon.

GENERAL

City of North Miami, Engineering and Planning Department. 1993. Neighborhood Statistics in the City of North Miami. North Miami, Florida.

Metro-Dade Transit Agency. 1997. *Transit Development Program*,. Miami-Dade County, Florida.

Metro-Dade Transit Agency. 1993. MDTA On-Board Survey: Route Characteristics Memorandum, and Data Files, Miami-Dade County, Florida.

Carr Smith & Associates. 1995. Northeast Dade Transit Improvement Study; Technical Memoranda: On-Board Survey Results, Area-Wide Survey Results; Interim and Final Reports. Metro-Dade Transit Agency, Miami-Dade County, Florida.

City of North Miami with the Downtown North Miami Business Association. 1994. North Miami. Downtown Action Plan. North Miami, Florida.

City of North Miami. 1998. Request for Proposals for Engineering Services - Traffic Study for Breezeswept / Executive Manors. North Miami, Florida.

EXECUTIVE SUMMARY

This Study was commissioned to examine the transportation needs of the City of North Miami, and to prepare a comprehensive plan for the implementation of one or more circulators within the City of North Miami. The Study was funded through the FY 98 Miami-Dade County Metropolitan Planning Organization Municipal Grant Program. The City identified two specific objectives to be met by a municipal circulator program:

- ➤ To provide transit services tailored to the needs of residents unable to provide their own transportation; for use as a convenience and courtesy service; and by the general public service, to improve their quality of life, to provide a sense of community by creating a city bus loop system, and to assist businesses via circulator which allows for greater ease of customer travel, and
- ➤ To attract new segments of the population to public transit, thereby reducing single occupant vehicle usage, and implementing the Transportation Demand Management initiatives of the City, Miami-Dade County, and the State of Florida. Specifically, the City of North Miami municipal circulator program will interface with pedestrians, other municipal and Unincorporated Miami-Dade County (UMSA) circulators, and the county-wide bus systems at critical locations (i.e. Biscayne Boulevard/125th Street, NE 6th Avenue/125th Street).

During the course of the Study, the City reviewed and analyzed the following information:

- >> 1990 census data; census updates from the City of North Miami and Miami-Dade County (MDC) Planning
- >> MDC and North Miami Comprehensive Development Master Plans (CDMP)
- >> MDC Transportation Improvement Plan (TDP) for FY 98
- Northeast Miami-Dade Transit Improvement Study Recommendations and Technical Memoranda, including detailed route analyses
- >> Miami-Dade Transit Agency (MDTA) 1993 Onboard Survey
- North Miami Downtown Action Plan; Florida Department of Transportation West Dixie Highway Arterial Analysis (1991); MDC North Miami Traffic Study (1995)

Interviews were conducted with MDTA, City of North Miami, North Miami Foundation, Miami-Dade School Board, and Johnson & Wales University staff. A survey was developed and distributed to Johnson & Wales University students and to selected North Miami residents. The City held public hearings during the Study, to obtain preliminary data and to review proposed route alignments.

<u>Backoround</u>

The North Miami Study continues the implementation of the 1995 Miami-Dade Transit Agency Northeast Dade Transit Improvement Study (NEDTIS). The primary objectives of the NEDTIS were to:

- develop a coordinated and effective public transportation network to meet current transit needs and attract new transit riders in Northeast Miami-Dade, and
- integrate improvements into applicable County Transportation and Planning documents to support the future transit needs as the Northeast Miami-Dade community changes and grows.

The NEDTIS recommended the creation of a three-tier system of transit services. The first tier would provide "premium," limited express service to downtown Miami, Miami Beach and other employment centers within the County; the second tier would continue traditional regional bus service, and the third tier (circulators) is intended to offer neighborhood services to the local community. Since publication of the NEDTIS, the County has provided municipal grant funding to cities wishing to develop municipal circulators. This included North Miami Beach, Aventura, Sunny Isles Beach, and North Miami.

CITY CHARACIERISTICS

The City of North Miami is located in central northeast Miami-Dade County. The 1995 population, according to the South Florida Regional Planning Council, is approximately 51,000, making North Miami the fourth largest City in Miami-Dade County. Current projections suggest that, by the year 2010, over 65,000 people will reside within the City limits. The City has a rich diversity of residents, including Hispanics, Caribbeans, African-Americans, and non-Hispanic whites. Approximately 19% of the residents are 60 or older, and 25% of the population is school-aged.

Almost 14% of the households are at or below the poverty level. City data indicates that there is a trend for younger families to move into the City, indicating an increased need for day care, after school activities and summer programs for children. Housing stock includes a mix of single-family homes, apartment buildings and condominiums.

The City offers a mix of office space, manufacturing, and warehousing within its boundaries, and is home to many of Florida's film and music studios. There are no hospitals or major medical complexes within the City, and commercial shopping is concentrated primarily along Biscayne Boulevard, NW 7th Avenue and NW/NE 123rd Street. The City has been successful in revitalizing depressed areas, as evidenced by the transformation of North Miami Hospital into Johnson Wales University. The City operates eleven parks and community centers, a museum of the arts and a library. There are five elementary, one junior high, and one high school within the City. The north campus of Florida International University is also located within the North Miami municipal boundaries. The North Miami Parks & Recreation Department work closely with the Miami-Dade County Public Schools to provide after school activities for North Miami residents.

TRANSPORTATION CHARACTERISTICS

Primary north-south arterials within the City include Biscayne Boulevard, W. Dixie Highway, N.E. 6th Avenue and SR 441 (NW 7th Avenue). The City's only east-west connector between Biscayne Boulevard and the Intracoastal, NW/NE 123rd Street, serves exclusively the medium to high residential uses that abut it. The City is divided by I-95, and the Florida Department of Transportation proposes to extend I-75 east to NW 119th Avenue and NW 27th Avenue. This extension is expected to increase significantly intracity and intercity traffic through the City.

The Miami-Dade Transit Agency provides bus service along major roadways within the City. Generally, regional Metrobus service provided within the City of North Miami is limited, with seven north-south and five east-west regional routes. One premium route, the Biscayne MAX, provides service during peak periods from Aventura, along Biscayne Boulevard through North Miami, to the Miami Central Business District, with stops at NE 151st Street, NE 135th Street and NE 123td Street. Miami-Dade County has licensed six private jitneys to operate in the Greater North Miami area, five of which provide service along north-south arterials.

Although the City of North Miami has two small buses and a mini-van, the vehicles are used primarily to transport children on field trips and athletic events. The North Miami Foundation, an Alliance for Aging funded organization has two 13-passenger vans used primarily to transport frail homebound elderly residents to grocery stores, doctor's visits and other functions, weekdays from 9 - 4:30 only. The Foundation service area includes North Miami Beach, Aventura, and unincorporated Miami-Dade to the County line.

The limited transportation alternatives contribute to the ownership and use of automobiles within the City; 86% of the workforce drives to work; 73% of the workforce drives alone to work. Only 8% of the workforce use public transportation. The limited Metrobus service also restricts the ability of the City to get children and their parents to and from day care, after school activities and summer programs.

TRANSII CIRCULATOR RECOMMENDATIONS

The Study has recommended that the City implement two publicly available citywide circulator routes, to provide convenient services to three targeted groups:

- Senior Citizens
- Students
- Commuters with long walking distance to bus stops, poor pedestrian and transit amenities, or where low service frequency and duration was identified.

The two circulator routes will be coordinated to combine into a convenient city-wide shuttle that meets the needs of the City's residents, employees, and visitors. One circulator will serve primarily residents to the west of NE 8th Avenue (black and gold line, Figure ES-1), while the other would serve those primarily to the east(black and magenta line, Figure ES-1). The shuttles would connect adjacent to the City's library, availing riders to a safe and comfortable public building in which to wait during transfers. Riders of the North Miami circulators will be able to transfer to and from MDTA regional and premium service at several designated transfer points. The major transfer areas are identified in the figure ES-1 by the bus logos.

The City proposes to operate the vehicles for ten hours each day, Monday through Friday. For the fist ninety days, the City will offer the service without charge, after

which a fare will be implemented. A summary of the route characteristics is provided in the following table.

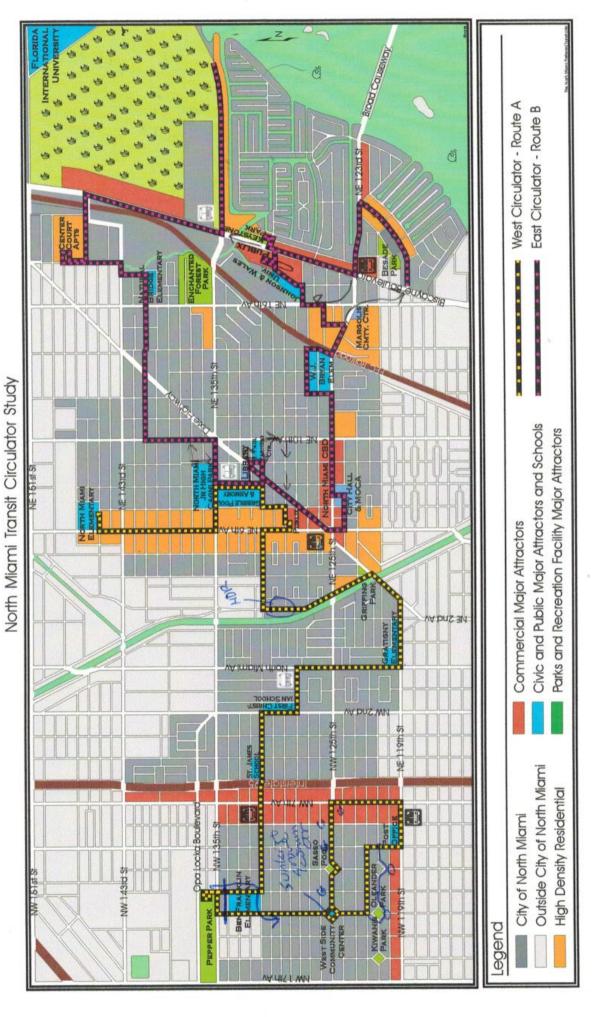
PREFERRED ALTERNATIVE TRANSIT CIRCULATOR CHARACTERISTICS

- Horac and the second	West Route	East Route
Destinations:	alloo han sakeur liziteti oda	depend liew touches showing
School and Community	West Side Community Center Ben Franklin Elementary St. James School First Christian School Gratigny Elementary School North Miami Armory North Miami Library North Miami Junior High School North Miami Elementary School	Natural Bridge Elementary School North Miami Junior High School North Miami Armory North Miami Library St.Paul Learning Center North Miami City Hall Museum of Contemporary Art WJ Bryan Elementary School Gwen Margolis Community Center Johnson & Wales University
Parks	Oleander Park Sasso Pool Ben Franklin Pepper Park Griffing Park Gribble Pool Cagni Park	Besade Park Keystone Park Gribble Pool Cagni Park Enchanted Forest
Commercial Locations	Publix at NE 6th Avenue North Miami Central Business Dist. Post Office at NW 119th Street	Biscayne Boulevard North Miami Central Business Dist. NE 6th Av. Shopping
MDTA Bus Transfers	2, 9, 10, 16, 28, 75, 77, E, G	3, 9, 10, 16, 28, 75, 93, G
Total Distance Distance and Time to Library Transfer:	8.90 miles from West: 7.65 miles 38 minutes from North: 1.25 miles	9.90 miles from South: 5.30 miles 27 minutes from North: 4.60 miles
Average Travel Speed (est.) Total Travel Time (one way) Headway (same direction, 1 bus)	6 minutes 12 mph 45 minutes 1 hour, 30 minutes	23 minutes 12 mph 50 minutes 1 hour, 40 minutes

For approximately the first year of service, the City intends to contract with a private vendor to provide vehicles and operate the service. Funding for the implementation phase technical assistance has been provided through the FY 2000 MPO Municipal Grant Program. The City will request funds from Miami-Dade County to offset operating costs.

Within the next year, the City plans to explore the purchase or lease of alternative fuel vehicles for the service, and will seek a distinctive vehicle design, such as a trolley. A private vendor will operate the transit service and collect required Federal, State and County transit information. The City will seek public and private grants to help fund acquisition of the alternative fuel vehicles. It is anticipated that, if funding becomes available in FY 2000, the service could begin as early as Summer 2000.

City of North Miami Transit Circulator Routes - Preferred Alternative Figure ES-1



This report represents a preliminary analysis of the need and feasibility of public community transit services using minibuses, integrated with existing public and private transit services, to serve the City of North Miami and neighboring areas (Appendix A). The provision of coordinated community-level transit service supports the major recommendation of the Miami-Dade Transit Agency's (MDTA) 1995 Northeast Dade Transit Improvement Study.

The City identified three populations at greatest need for such service:

Senior Citizens Many cannot drive or have limited driving capabilities, that restrict their access to health care, shopping and socio-cultural locations, and affects their ability to live independently.

Students

(DCPH) Dade County Public Schools provides transportation to all school children who live more than 2 miles from their school, as well as those within the 2-mile boundary who are at risk due to difficult crossings and other obstacles. The City of North Miami Parks Department provides many after school activities, for which transportation is not provided.

Commuters

The Miami-Dade Transit Agency (MDTA) provides regional bus service throughout the City, and various private iitney companies augment the service in some Neighborhoods where transit access is difficult because of long walking distances to bus stops, poor pedestrian and transit amenities, or low service frequency and duration, can be identified.

The study identifies two major objectives:

To provide transit services tailored to the needs of the target populations identified above, to meet their basic transportation needs and improve their quality of life.

 To attract new segments of the population to public transit, thereby reducing single occupant vehicle usage, and implementing the Transportation Demand Management initiatives of the City, Miami-Dade County, and the State of Florida.

Funding for this study has been provided through the FY 1998 Unified Planning Work Program (UPWP) Municipal Grant Program, administered through the Miami-Dade Metropolitan Planning Organization (MPO). The Municipal Grant Program uses Section 112 Federal Highway Administration Planning funds, to develop alternative strategies for community transportation improvements.

This final report documents work conducted during the study, and presents the preferred alternative and an operational plan and implementation schedule for circulator service for the City. The report includes the following chapters:

- Chapter 1: Introduction Current Section
- Chapter 2: **Existing Conditions** –This section provides an analysis of the current state of conditions that correlate to the demand for transit circulator services, and impact their provision. Included are:
 - ≥ Land Use Analysis
 - ≥ Identification of Major Generators and Attractions
 - ≥ Demographics
 - ≥ Existing Transit Services (MDTA, jitney, other institutional services)
 - ≥ Roadway Conditions
- Chapter 3: **Target Population Needs** Based on existing conditions data, the needs of the target populations are identified. Included are:
 - ≥ Senior Citizen Needs
 - ≥ Student and After-School Program Needs
 - ≥ Commuter and Transit Transfer Needs
- Chapter 4: Transit Demand Characteristics This section summarizes attitudinal information obtained through two transit surveys to identify service

characteristics that will best meet the needs of the target riders, and the needs of the overall community.

- Chapter 5: **Public Input** Having developed the basis for identifying needs of target populations and existing conditions information, this information will be presented at public meeting to develop meaningful comment towards developing service alternatives. The results of meetings are summarized.
- Chapter 6: Service Alternatives Development This section develops conceptual alternatives for providing service. Included are general alignments, number of vehicles, general times and frequency of service, and estimated cost. The operational plan was developed after presentation of these alternatives at public workshops.
- Chapter 7: Operational Plan and Implementation This section proposes refined routes, times of operation, number of vehicles, frequency and time between arrivals, bus stop locations, and general schedules, based upon the alternative selected.
- Chapter 8: Funding Strategy This section provides cost estimates and a funding strategy, based upon the proposed operational plan and implementation schedule.

2. EXISTING CONDITIONS

This section summarizes the current conditions that affect the demand for and provision of transit circulator services. They include:

- ™ Land Use and Density
- ™ Location of Major Trip Generators and Attractors
- ™ Density and Demography of Transit Dependent Populations
- TM Existing Transit Services
- TM Roadway Conditions

LAND USE AND DENSITY

One of the primary determinants of the need for and success of transit service is the character and density of land use. Mixed residential and commercial use areas tend to provide the greatest demand for transit services. The generalized land use map for the City of North Miami, Figure 2-1, provides both the type of use, and residential density for each block. Blocks with more than one use are colored according to their predominant use.

Most transit trips are classified as either home-based or chained. Home-based trips are trips from home to a single location, for any purpose (including commuting to work, shopping, medical appointments), and back. North Miami based responses from a 1993 MDTA transit rider survey indicate that an estimated 94% of all transit trips are home-based. Chained trips are a more recent phenomenon that increases the complexity of providing transit service over low and medium density areas, without central commercial districts. Chained trips are typically trips from home to multiple locations (e.g., for errands), and back.

Transit ridership increases significantly with residential density. Residential densities need to average at least seven dwelling units per acre (DU/Ac) to support a feeder bus service, and an average of fifteen DU/Ac to support high-frequency bus service. In Miami-Dade County, an overall density of twenty-three residents or employees per acre is required to support basic bus transit.²

The Portland Oregon, Tri-Rail light rail system developed an evaluation of transit supportive land use, included in its 1993 report, *Planning and Design for Transit.*³ Land uses were divided into three categories: the first considered to be intrinsically transit supportive, the second, transit supportive with appropriate development standards, and the third, not transit supportive. Table 2-1 lists these uses.

MAJOR TRIP ATTRACTORS

These large-scale institutions and centers of activity motivate a significant proportion of the target population's trip making activity. For the elderly, after school program participant, and commuter target populations, the major trip generators and attractors include:

- Schools
- Parks, Recreational Facilities, and Community Centers
- Shopping/Commercial Centers
- Hospitals and Major Medical Complexes
- Major intermodal transfer locations

Within North Miami, there are no hospitals or major medical complexes. These are primarily located to the north, in North Miami Beach and Aventura, and to the south in Miami, Miami Beach, and Kendall.

There are also no significant intermodal transfer locations, such as park-and-ride facilities, rail or train, or mass transit stations. The nearest intermodal centers are in Hialeah to the southwest, and at Golden Glades to the north. Generally, transit dependent commuters would use Metrobus lines to reach either of these. There is no direct route to the Hialeah TriRail/MetroRail/AmTrak stations, and only the Routes 77 and E access Golden Glades.

	BLE 2-1 PPORTIVE USE	S	
Land Use Category	Transit Supportive	May be Supportive	Not Supportive
Residential Uses	- 100		
Single-Family Residential (more than 5,000 sq.ft.)	V	
Single-Family Residential (less than 5,000 sq.ft.)	v		
Multi-Family Residential	V		
Elderly Residential	V		
Public and Semipublic			
Cemeteries			-1
Clubs and Lodges		1	V
Convalescent Facilities		V	-1
Cultural Institutions	1		V
Day Care General	Ž		
Government Offices	N.		
	Ŋ		
Hospitals and Medical Offices	N.		
Small Parks	V	.i	
Large Parks, Playing Fields, Golf Courses		N ₁	
Public Safety Facilities		N.	
Residential Care		N,	
Schools and Colleges		V	
Commercial Uses	3 3.1		
Banks and Savings and Loans	V		
Building Materials and Services		√	
Commercial Recreation and Entertainment		V	
Eating and Drinking Establishments	V		
Fast Food, Take Out, and Drive Throughs		√	
Bars and Taverns	√		
Funeral and Internment Services			V
Laboratories		√	
Maintenance and Repair Services		√	
Business and Professional Offices	√		
Research and Development Services		√	
Retail Services	V		
Volume Discount Retail		\checkmark	
Travel Services	1		
Vehicle Equipment Sales and Services			√
Service Stations		√	
Hotels	1		
Bed and Breakfast Inns	V		
Motels		√	
Industrial Uses			
Heavy Industrial and Truck Stops			1
Light Industrial			V
Digite Hidustilai			,
The state of the s	73. 3		

0 ď NE 123rd St Outside City of North Miami ONE DAYS SUDS High Density Residential CENTER COURT APTS City of North Miami MARGOLIS CMTY. CTR. AE 13511 St North Miami Transit Circulator Study Civic and Public Major Attractors and Schools Parks and Recreation Facility Major Attractors JR HIGH CAGNI PARK NE 143rd St & MOCA NORTH MIAMI RIBBLE POORY & ARMORY Commercial Major Attractors VA rito BM GRATIGNY FIRST CHRIST-NW 125th St NE LIGHT ST ST. JAMES Outside City of North Miami High Density Residential Opa Locka Boulevard POST City of North Miami NW 135th St SASSO KIWANIS OLEANDER PARK PARK NW 143rd St BEN FRANKLIN ELEMENTARY PEPPER PARK WEST SIDE COMMUNITY CENTER egend. VA HILL WN

Figure 2-1

City of North Miami General Land Use Map

Figure 2-2 presents the major trip attractors within the City of North Miami. They include:

Shopping Commercial Centers (red)

- ≥ North Miami Central Business Dist. (CBD)
- ≥ NE 123rd Street Shopping Center
- ≥ Biscayne Boulevard shopping centers

Parks (green)

- ≥ Claude Pepper Park
- ≥ Kiwanis Park
- ≥ Enchanted Forest Elaine Gordon Park
- ≥ Besade Park/Sans Souci Tennis Center
- ≥ Ray Cagni Park & Gribble Pool
- ≥ Oleander Park
- ≥ Sasso Park and Pool
- ≥ Griffing Park
- ≥ Keystone Park

Civic Centers (lavender)

- ≥ North Miami City Hall
- ≥ North Miami Library
- ≥ Museum of Contemporary Art (MOCA)
- ≥ West Side Community Center
- ≥ Gwen Margolis Community Center

Schools (blue)

- ≥ Benjamin Franklin Elementary
- ≥ Gratigny Elementary
- ≥ Natural Bridge Elementary
- ≥ North Miami Elementary
- ≥ North Miami High
- ≥ North Miami Junior High
- ≥ William Jennings Bryan Elementary
- ≥ Johnson and Wales University

High and Medium Density Residential (Apartments and Condominiums) NE 123rd St CENTER COURT APTS BISCOVIDE BOLIEVOIO NE 135th St Parks and Recreation Facility Major Attractors North Miami Transit Circulator Study NE 143rd St Civic and Cultural Attractors VA HID BIN Schools GRATISHY Outside City of North Miami Commercial Retail Centers Opa Locka Boulevard POST City of North Miami NW 135th St SABSO POOL PARK NW 143rd St BEN FRANKLIN ELEMENTARY KIWANIS PEPPER PARK WESTSIDE COMMUNITY CENTER Legend VA AIT I WH

Figure 2-2 City of North Miami Major Transit Trip Generators

DEMOGRAPHICS

The key demographic factors that influence the need for transit services are those that generally identify the transit dependent and/or individuals less capable of providing for their own transportation needs. In North Miami, these include:

- ≥ Senior Population, 60 or 65 years and older
- ≥ Senior Population with Disability
- ≥ Senior Population in Labor Force and Prevented from Working by Disability
- ≥ School-Age Population, between 5 and 19 years old
- ≥ School Enrollment, public and private
- ≥ Single Heads of Households with Children under 18 years
- ≥ College Enrollment
- ≥ Household Income
- ≥ Household Income Type (Social Security without Retirement)
- ≥ Poverty Status
- ≥ Number of Vehicles in Household
- ≥ Means of Transportation to Work

The density of these populations within a community indicates the need for certain transit services. While overall population density is also a good indicator, its influence is more accurately captured through spatial patterns of dwelling unit density as illustrated in the general land use map.

The City has defined community populations by Planning Sectors; each comprised of several census tracts that characterize homogeneous populations. As such, the Planning Sectors roughly describe the City's identifiable neighborhoods. There are seven Planning Sectors within the City. Figure 2-3 displays the Planning Sector areas and boundaries. Table 2-2 summarizes key demographic by Planning Sector, and as an aggregate for the whole City. Both population numbers and percentages are reported.

The information is based on the 1990 Census, which remains the best available data for planning purposes. The population data has not been "aged" (adjusted to 1999 populations by cohort component projection analysis) because migration data and additional cross-correlated data are not available for regression analysis. Although significant demographic changes have probably occurred the data still provides reasonable indices of transportation need. Section 3, Target Population Needs, uses this demographic data to develop relevant indicators for identifying transportation needs in the target populations.

| Planning | Sector | | Planning | Sector Planning Sector North Miami Transit Circulator Study Planning. Sector -Plainning Sector Planning F.--Planning Sector

Figure 2-3

City of North Miami Planning Sectors

Table 2-2 Key Transit Demographic Indicators

Total Population Male Female Age Under 5 years 5 to 9 years 10 to 14 years 15 to 19 years Total School Age (5 - 19)			Sector	Planning Sector 2	Sector 2	Planning Sector 3	Sector 3	Pianning	Planning Sector 4	Planning Sector 5	Sector 5	Planning	Planning Sector 6	Planning Sector 7	Dector .	City-Wide
그 마음이 있어요요 - 사이에 없었습니다 그런데 그 사람이다.		Number	Percent	Number Percent	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Parcent	Number	Percent	Number
경우하다 하는 아무리 얼마나는 그는 사람들이 그리다면?		7,737		5,378		8,138		4,756		10.266		9999		7.057		49 998
[일본 - 10 전에 발생하는 그림 시네] [일보다 - 기계했다.		3,601	47%	2,616	49%	3,808	47%	2,255	47%	4,818	47%	3,176		3,386	48%	23.660
		4,136	23%	2,762	51%	4,330	53%	2,501	53%	5,448	53%	3,490	52%	3,671	52%	26,338
5 to 9 years 10 to 14 years 15 to 19 years Total School Age (5 - 19) 60 to 64 years	increases parent work load	334	%	383	70%	531	70%	410	700	910	90	207	200	000	ò	0
10 to 14 years 15 to 19 years Total School Age (5 - 19) 60 to 64 years	transportation dependent	245	200	250	2 6	100	0 00	0 0	R a	0 0	8 60	000	200	032	2 2	3,708
15 to 19 years Total School Age (5 - 19) 60 to 64 years	transportation dependent	213	2 %	208	8 8	4/3	9,0	200	7 00	683	8 2	521	8 8		800	3,168
Total School Age (5 - 19) 60 to 64 years	transportation dependent	273	8 8	247	8 %	218	20.00	345	2 6	000	9,0	533	9 9	650	8 6	2,896
60 to 64 years		1,065	14%	1,054	20%	1.729	21%	1.472	31%	2 676	26%	2 034	31%	0	38 %	12 538
60 to 64 years							2	1	5	2,0,7	207	4,00,4	R	4	8,05	7,030
2000000	possibly transportation dependent	202	7%	177	3%	311	4%	156	3%	359	3%	302	5%		4%	2,076
on to vears	possibly transportation dependent	950	12%	305	%9	653	8%	310	7%	677	7%	527	8%		89	3,845
75 to 84 years	likely transportation dependent	774	10%	201	4%	699	8%	162	3%	452	4%	250	4%		3%	2,701
85 years and older	likely transportation dependent	192	2%	123	2%	308	4%	36	1%	202	2%	81	1%		1%	166
Household Type		2,421	31%	806	15%	1,941	24%	664	14%	1,690	16%	1,160	17%		13%	9,613
Persons per Household	higher -> higher p(use bus)	1 94		2 00		2 13		277		000						
Persons per Family	higher -> higher p(use bus)	2.65		3 00		3 04		3.55		2.39		3.12		3.55		2.44
Total Households		4,082		2,487		3.457		1.663		4 220		2 124		1 985		20.018
Total Non-Family Households		2,002	49%	1,308	53%	1,704	49%	200	30%	1,687	40%	431	20%	352	18%	7.984
Total Family Households		2,080	51%	1,179	47%	1,753	51%	1,163	20%	2,533	%09	1,693	80%	1,633	82%	12,034
Married		1,723	45%	847	34%	1,086	31%	810	49%	1,584	38%	1,214	57%	1,061	53%	8,325
Total Households with Children	en	603	15%	579	23%	894	26%	551	33%	1,248	30%	850	40%	948	48%	5,673
Married with Children under 18 years	18 years	202	12%	362	15%	203	15%	419	25%	741	18%	594	28%	619	31%	3,747
Male Householder, no wife, and children under 18 years	and children under 18 years	0	%0	18	%	98	3%	40	2%	119	3%	39	2%	123	%9	437
Non-Household Persons	remaie nouseholder, no husband, and children under 18 year lousehold Persons	86	2%	199	%8	289	%8	92	%9	388	%6	217	10%	206	10%	1,489
Persons in group quarters or	Persons in group quarters or institutionalized (percent of pop.	0	%0	231	49%	437	70%	c	780	306	200	c	8	ç	200	000
School Enrollment		•	2	2	2	ì	2	>	8	202	8.7	7	g O	71	8	88/
Public Preschool	school trips	22	7%	26	7%	67	13%	37	%6	77	86	54	11%	40	86	323
Private Preschool	more likely by car, longer dist.	80	24%	16	4%	20	%6	98	23%	102	11%	67	14%	26	15%	510
Public Elementary / High	school trips	439	%09	631	94%	982	82%	733	70%	1,561	89%	1,407	91%	1,487	79%	7.240
Private Elementary / High	more likely by car, longer dist.	277	38%	52	8%	110	%6	47	4%	195	11%	132	%6	195	10%	1,008
Total Public School		461	43%	657	62%	1,049	61%	770	52%	1,638	61%	1,461	72%	1,527	818	7,563
Total Forollment, and Percentage of School Age Children	and of School And Children	357	34%	68	%9	160	%6	145	10%	297	11%	199	10%	292	12%	1,518
Enrolled in Public College	District of the second of the	0 0 0	2	67/	96.00	1,209	%0/	915	62%	1,935	72%	1,660	82%	1,819	73%	9,081
Enrolled in Private College		222		200		220		619		752		380		474		3,406
65 Years and Older Work and Disability Characteristics	bility Characteristics	707		701		243		300		150		155		131		1,031
65 years and older		1.941		414		1 218		520		1 125		900		000		24.0
No work disability		1,464	75%	284	%69	890	73%	357	80%	751	87%	830	7407	993	74 07	6,743
In labor force with no work disability	isability	226	15%	76	27%	261	29%	20	14%	167	22%	115	2 7 7	74	15%	000,4
Employed		509	95%	92	100%	210	80%	34	68%	157	94%	115	100%	74	100%	875
Unemployed		17	8%	0	%0	51	20%	16	32%	10	%9	0	%0	0	%0	94
Not in labor force, no work disability	sability	1,238	85%	208	73%	629	71%	307	86%	584	78%	504	81%	418	85%	3,888
With a work disability	3	477	25%	130	31%	328	27%	163	31%	374	33%	217	26%	197	29%	1,886
In labor force and unemployed	pa	0	2%	0	%0	0	%0	9	4%	0	%0	0	%0	0	%0	15
Not in labor force - Prevented from working	d from working	339	71%	111	82%	244	74%	66	61%	329	88%	183	84%	161	82%	1,466

Table 2-2 Key Transit Demographic Indicators

Continuation - Select Demograf.	Continuation - Select Demographic Summary by Planning Sector, City of North Miami, 1990 Census	y of North M	iami, 1990	Census					3							
Demographic Variable	Comments	Planning Sector 1	sector 1	Planning Sector 2	Sector 2	Planning Sector 3	Sector 3	Planning Sector 4	Sector 4	Planning Sector 5	Sector 5	Planning Sector 6	sector 6	Planning Sector 7	Sector 7	City-Wide
6ac	cool cool cool cool cool cool cool cool	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number
Vehicle Availability						0	N									
No vehicles in household	4	321	8%	246	10%	200	20%	288	17%	647	15%	176	8%	178	%6	2,562
1 Vehicle per household		2,172	54%	1,415	26%	1,852	53%	649	39%	2,163	20%	889	32%	722	36%	199'6
2 or more vehicles per household	ehold	1,543	38%	828	34%	943	27%	720	43%	1,487	35%	1,270	%09	1,083	822%	7,904
Means of Transportation to Work					4	30										
Population - Workers 16 years and older	ars and older	4,311	-	3,110		3,703	1000	2,101		4,864		3,008		3,022		24,119
Drive Alone		3,252	75%	2.460	79%	2,628	71%	1,545	74%	3,223	9699	2,339	78%	2,077	%69	17,524
Carpool	1/2 possible circulator riders	206	9KZ	368	老-	519	14%	244	12%	730	15%	407	14%	217	17%	3,291
Public Transportation	下 下 阿 計	186	4%	218	7%	294	8%	215	10%	295	12%	171	969	310	9601	1,956
Bicycle	T I W	89	86	12	960	33	8-	91	1%	43	8-	15	86	2	8	132
Walk		09	8-1	23	8	114	3%	95	3%	148	3%	32	1%	61	961	458
Other Means	10 mm	62	8	0	8	52	1%	=	961	49	8	0	960	61	8-1	167
Work at Home	Work at home	225	285	55	8	88	2%	0	%0	601	影	44	961	75	2%	571
Income (1989)	Carpool (1/2), Outer trat do not work	267	13%	43/	14%	121	20%	476	20%	1,167	24%	422	14%	612	20%	4,359
Household Median	Villa Be	\$29.419	V)	523542	000	633 613		537.047		630,450		630 400		630 430		634 000
Household Mean		\$53 236		\$27.452		625.013		\$27,047		420,030		523 381		631 040		(37 891
Family Median	ne le	\$41,990		\$24 621		\$27.023		\$28 B20		573 634		531 220	8	630,650		C28 424
Family Mean	(†	\$70,005		\$30.889		\$30.754		\$30.260		657.699		595 363		537.656		537 761
Non-Family Median		\$21,162		\$22.899	111	\$16.754	311	\$19612		\$16.099		520738		514 935		\$18.274
Non-Family Mean	E I	\$35,602	E	\$23.611	N.	\$19613	K	\$20.856		\$ 18 392		627,639		C17 180		574 153
Household Per Capita	be	\$28,223	13.5	\$13.036		\$11.457	ik	\$10.031		\$10.094		S10.608		CR 655		513 797
Household Income Type (1989)	TE IN				5) W		10				de)	12			
Households with earnings		3.000	PF CU	2,263	10	2,769	3	1,430		3.421		1.805	15	1.711		16.399
Households with public assistance income	stance income	45	2%	106	5%	169	969	49	3%	254	7%	168	966	133	8%	924
Households with Social Security Income	unity income	1,360	45%	331	15%	196	35%	403	28%	1,058	31%	199	37%	459	27%	5,233
Households with retirement income	tincome	486	16%	138	969	338	12%	225	9691	405	12%	525	14%	159	966	2,007
Poverty Status (1989)	(households, percent among HH type)	H				h					8	¥				
Married with Children under 5 years	r S years	12	7%	0	%0	31	969	80	296	32	4%	0	960	17	3%	001
Married with Children under 18 years	r 18 years	53	969	23	969	74	15%	49	12%	96	13%	67	11%	92	15%	430
Male Householder, no wife, and children under 5 years	and children under 5 years	0	8	89	44%	0	*	0	960	0	960	0	960	89	7%	91
Male householder, no wife,	Male Householder, no wire, and children under 18 years	0 0	\$ 8	00 1	44%	2 :	960	0 !	960	27	23%	91	41%	18	15%	79
Female Householder, no ho	Female Householder, no hysband and children under 18 years	46	47%	92	46%	70	3304	17	29%	78	87	12	8916	7 12	969	106
60 years and over (persons)	T VI	209	966	72	966	215	8-1-	69	10%	181	%11	80	R 18/2	154		980
75 years and over (persons)	Maria de la companya	150	16%	32	10%	108	11%	7	4%	7.1	11%	0	0%	61		387
	od la s	la la		led led	IT.							W				

EXISTING TRANSIT SERVICES

Five categories of transit providers currently serve the City of North Miami:

- Miami-Dade Transit Agency (MDTA) regional bus services
- ➤ MDTA Special Transportation Services (STS)
- privately owned jitney services,
- > private institutions, and
- City of North Miami Park & Recreation

MDTA Buses

MDTA provides regional bus service throughout North Miami using both full size and articulated buses. MDTA buses are too large for the small streets of many residential areas, and contribute disproportionately to noise and atmospheric pollution. MDTA charges a general fare of \$1.25 and a senior citizen discounted fare of \$.60 per boarding. Discounted transfer passes are available for both seniors and disabled persons. A senior citizen with an annual household income under \$20,000 can obtain a "Golden Pass," permitting use Metrobus, Metrorail, and Metromover without charge. Individuals who qualify as disabled under the Americans with Disabilities Act may also ride Metrobus, Metrorail, and Metromover without charge.

Transfers from Metrobus are available to Miami-Dade County's Metrorail and Downtown Metromover, to Broward County Transit (BCt) buses, and TriRail (the regional commuter rail line). Metrobus passengers may also transfer to other newly implemented municipal and regional circulator routes such, as the Electrowave in Miami Beach, the North Miami Beach Circulator (NMB Line), and the Northeast Dade and the North Dade Connections. None of the municipal services currently transfer at locations within the City of North Miami. Some of the area jitney services accept transfers from MDTA Metrobus.

Fourteen regional bus routes (Tables 2-3 and 2-4) serve the City of North Miami. Major destinations are identified, as well as peak and off-peak capacity and headway (time between bus arrivals). Other quality of service indices will be addressed in Section 4, Transit Demand Characteristics.

Fourteen regional bus routes (Tables 2-3 and 2-4) serve the City of North Miami. Major destinations are identified, as well as peak and off-peak capacity and headway (time between bus arrivals). Other quality of service indices will be addressed in Section 4, Transit Demand Characteristics.

STS

MDTA also provides Special Transportation Services (STS) to mobility impaired persons who cannot access Metrobus vehicles and/or routes, and who are unable to access Metrorail and/or Metromover. STS provides shared ride, demand response transportation to individuals who have made reservations twenty-four hours or more in advance. Riders may use the STS "subscription service," which provides pre-scheduled five-day a week pickups.

The cost to MDTA of a one-way STS trip is approximately \$17.00. STS users pay a base fare of \$2.50 per one-way trip, and an additional charge of \$.50 for each transfer normally required on equivalent fixed-route service, to a maximum of \$4 per one-way trip. These charges offset the MDTA cost per trip. Because STS services are so costly, municipal and neighborhood circulators may provide additional alternative public transit services.

Jitneys

Jitneys provide semi-demand response service (no fixed stops - they are flagged down) along fixed routes, using minivan type vehicles. They charge the same fare as MDTA buses. Six regulated jitney companies provide jitney services in North Miami:

≥ Miami Mini Bus

≥ Conchita's Transit Express

≥ Liberty City Jitney

≥ Excel Jitney

≥ Marcello Jitney

≥ Florida Jitney

Jitney routes and service characteristics are included in Figure 2-4, and Table 2-3. Most jitney service characteristics are unknown. Service frequency along some corridors such as NE 2nd Avenue and Miami Avenue appear to exceed MDTA service.

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(B) You High and Medium Density Residential Jitney Service Alignments Metrobus (MDIA) Routes ď NE 123rd St 3 3 38 CENTER COURT APTS BESADE ENCHANTED FOREST PARK N N * MARGOLIS CMTY. CTR. North Miami Transit Circulator Study Parks and Recreation Facility Major Attractors NORTH MIAMI CBD G NE 143rd St Civic and Cultural Attractors VA HIS BIN Schools PRATIGNY NW 125th St ST. JAMES SCHOOL Commercial Retail Centers Outside City of North Miami Opa Locka Bouleva POST City of North Miami OLEANDER PARK NW 143rd St BEN FRANKLIN 28 E PEPPER PARK 28 E KIWANIS egend CENTER

Figure 2-4

City of North Miami Existing Transit Services

Table 2-3	Existing Transit Service Characteristics

								К				(Riv	Jership F	rofile	196	1994 survey)	Ridership Profile (1994 survey)
Route	Map Color	Type of Service	Primary Corridor in North Miami	27-14070	Region	Regional Destinations	Operational neq2 93iv192	Peak Headway	Off-Peak Headway	Vight Time	Neekend	VE Dade Avg. Saily Ridership Sercent	VE Dade Sidership Vercentage	innary Age ohort		rimary Trip asoqru	rimary Trip econdary Trip econdary Trip urpose	urpose
7	orange	regular regional	I N. Miami Avenue	North-South	163rd Street Shopping Center	Downtown Miami	17.5 hours	60 min.	rin.	nin.		189	88		d 은 :	home/		home/
m	red	regular regional	Biscayne Boulevard	North-South	Aventura Mail	Downtown Miami	19.5 hours	20 min.	20 min.	60 min.	15-20	5,182	21%	20-39	home,	× 6 ×		home/
6	peu	regular regional	I NE 6th Avenue	North-South	Aventura Mall	Downtown Miami	17 hours	15 min.	40 min.	30 min.	40-60	2,208	%6	16-39	work home/	-		/amoh
10	green	regular regional	NE 12th Avenue	North-South	163rd Street Shopping	Downtown Miami	21.5	40 min.	40 min.	60 min.	40-60	1 134	5,0%	14.30	work home/		shopping home/	shopping (41%) home/ Jitney
91	plue	regular regional	NE 16th Avenue	North-South	163rd Street Shopping	Downtown Miami	nours 18				min.	3 35.1	-	20.30	work home/	_	school home/	
17 "	magenta	regular regional	NW 17th Av / NW 22nd Av.	North-South	Carol City	Downtown Miami	nours 18	_	_		30 min	100	200	20-37 Fudod in	work		school	-
28	plue	regular regional	Z	Bast-West	FIU North Campus	Opa Locka, Hialeah	-	11.0000	_		oN.	277	18	16.29	home/		home/	home/ Jitney
75	green	regular regional	NW 119th St / Dixie Highway	East-West	i63rd St Mall, Miami	Hialeah at NW 27th			30 min.	Service S	Service 60 min	1 468	+	14.30	school home/		work home/	work (27%) home/ Jitney
77	green	regular regional	NA	North-South	Cloverleaf Industrial Park, Golden Glades Tri-	Downtown Miami	21.5			_		4.324		16-39	school home/		work home/	work (31%) home/ Jitney
	magenta	regular regional	FIU	East-West	FIU North Campus	i63rd St Mall, Miami	-	60 min.	30 min. 6	-		2.177		20-39	work home/		school home/	-
Max Max	orange	limited stop	Biscayne Boulevard	North-South	Aventura Mall	Downtown Miami	13	15 min		-	No No	1 502	+	20.40	school home/	5	shopping home/	lopping (21%)
45-X	Pa	commuter express	195 no stops in North	North-South	Aventura Mall / 163rd	Downtown Miami	6 hours		100	Service S No	Service	200.	+	44.0	work home/	2 -	shopping home/	-
E	magenta	regular regional	NW 135	East-West	Sunny Isles, Aventura	Opa Locka, Miami		-	-	Service S		1,148	+	16-39	work	5 4	shopping home/	-
ی	blue	lenoinar relimon		-	Lincoln Road Beachec	Lakes		on min.	ou min.		60 min.	169	3%	20-49	work	Ę,	shopping	
		regular regional	NE/NW 125th Street	East-West		Opa Locka	19.5 hours	15 min. 3	30 min.	30-60 min. Se	No	1,114	496	30-49	home/	2 3	home/	
Jitneys			25 Y2 35 Y2 35 Y2	52 m ⁵ l		an:			8						45	2	n dd	-
Miami M	lini Bus	Miami Mini Bus (JM) (blue)	NE 2nd Avenue	North-South	163rd Street Mall	Downtown Miami	E	information not available	on not av	ailable	y a	17	n il	nformati	information not available	lilab	9	e
Liberty C	ity Jitn	Liberty City Jitney (JL) (green)	NW 17th Avenue	North-South	135th Street	Downtown Miami	32	information not available	on not av	ailable	17	201	40	nformati	information not available	ilab	٩	e e
Marcello	Jitney	Marcello Jitney (JO) (red)	North Miami Avenue	North-South	Aventura / Aventura Hospital	Downtown Miami		information not available	n not av	ailable		30	qui	nformati	information not available	deli	a	a
Conchita	Expre	Conchita Express (JC) (purple)	NE/NW 135th Street	East-West	Biscayne Boulevard / Biscayne Island Terr.	Opa Locka / Hialeah	50	information not available	in not av	ailable	l V	×		nformati	information not available	llab	e e	je je
Excel Jitr	(JE)	Excel Jitney (JE) (magenta)	Av,NW 2nd Av.	North-South	North Miami Beach	Miami	2 =11	information not available	n not av	ailable		D	dia	nformati	information not available	le le	ole	ole
Florida J.	itney (J.	Florida Jitney (JF) (orange)	Memorial Hwy, NW 125th Street	North-South	163rd Street Mall	Design District, 36th St. Transfers	E	information not available	n not av	ailable	100	Dim		nformati	information not available	12	ple	ible

Table 2-3 Existing Transit Service Characteristics

												-	- director	Macanip Louis (1777 survey)	162.00		
Route	COOO Map. Type of Service	Primary Corridor in North Miami	Direction in North Miami Region	Regional Destinations	Regional Destinations	Operational Service Span	beak Headway	Headway Off-Peak	Night Time Headway	Mesdwsy Weekend	NE Dade Avg. Daily Ridership Percent	NE Dade Ridership Percentage	Primary Age Cohort	Primary Trip Purpose	Secondary Trip Purpose	Alternative Transit Use	Primary Rider Concern
2 ora	orange regular regional	I N. Miami Avenue	North-South	163rd Street Shopping Center	Downtown Miami	17.5 hours	60 min.	60 min.	60 min.	No Service	1,189	5%	20-39	home/ work		Jitney (30%)	travel
3 red	ed regular regional	Biscayne Boulevard	North-South	Aventura Mall	Downtown Miami	19.5 hours	20 min.	20 min.	60 min.	15-20 min.	5,182	21%	20-39	home/ work	home/ shopping	Jitney (31%)	travel
6	red regular regional	I NE 6th Avenue	North-South	Aventura Mail	Downtown Miami	17 hours	15 min.	40 min.	30 min.	40-60 min.	2,208	966	16-39	home/ work	home/ shopping	Jitney [41%]	travel
10 gr	green regular regional	NE 12th Avenue	North-South	163rd Street Shopping Center	Downtown Miami	21.5 hours	40 min.	40 min.	60 min.	40-60 min.	1,134	5%	16-39	home/ work	home/ school	Jitney (40%)	travel
16 bl	blue regular regional		North-South	163rd Street Shopping Center	Downtown Miami	18 hours	20 min.	20 min.	30 min.	30 min.	2,351	966	20-39	home/ work	home/ school	Jitney (41%)	time
17 mag	magenta regular regional		North-South	Carol City	Downtown Miami	18 hours	30 min.	30 min.	60 min.	30 min.	1115	not inc	luded in	NE Dade	not included in NE Dade Transit Survey	rey	
28 bi	blue regular regional	2	East-West	FIU North Campus	Opa Locka, Hialeah Racetrack	12 hours	60 min.	60 min.	No	No	111	8	16-29	home/ school	home/ work	Jitney (27%)	bus
75 91	green regular regional	NW 119th St / Dixie Highway	East-West	i63rd St Mall, Miami Lakes	Hialeah at NW 27th Avenue	18 hours	30 min.	30 min.		60 min.	1,468	969	16-29	home/ school	home/ work	Jitney (31%)	travel
77 gr	green regular regional	NW 7th Avenue	North-South	Cloverleaf Industrial Park, Golden Glades Tri-	Downtown Miami	21.5 hours	10 min.	15 min.	60 min.	20 min.	4,324	17%	16-39	home/ work	home/ school	Jitney (49%)	travel
83 mag	magenta regular regional	I FIU	East-West	FIU North Campus	i63rd St Mall, Miami Lakes	13 hours	60 min.	30 min.	60 min.	20-30 min.	2,177	966	20-39	home/ school	home/ shopping	Jitney [21%]	travel
93 ora	orange limited stop	Biscayne Boulevard	North-South	Aventura Mall	Downtown Miami	13 hours	15 min.	No	No	No	1,582	969	20-49	home/ work	home/ shopping	STS [112%]	security
95-X re	red commuter express	L95 no stops in North	North-South	Aventura Mall / 163rd Street	Downtown Miami	6 hours	10 min.	No	-	No	1,148	5%	16-39	home/ work	home/ shopping	Jitney (4%)	travel
E mag	magenta regular regional	NW 135th Street / Opa Locka Blvd.	East-West	Sunny Isles, Aventura Mall	Opa Locka, Miami Lakes	12 hours	60 min.	60 min.	-	60 min.	269	3%	20-49	home/ work	home/ shopping	Jitney [14%]	travel
9	blue regular regional	I NE/NW 125th Street	East-West	Lincoln Road, Beaches, Bal Habour	Opa Locka	19.5 hours	15 min.	30 min.	-	No	1,114	4%	30-49	home/ work	home/ shopping	Jitney (25%)	travel
Jitneys				.el (0) (742	ins pol	108	10	ie s	129 3 3	1 9	in the		ing l				
liami Min	Miami Mini Bus (JM) (blue)	NE 2nd Avenue	North-South	163rd Street Mall	Downtown Miami	E)k	informat	information not available	vailable	0013	M S	М	informat	information not available	vailable	8	
berty Cit	Liberty City Jitney (JL) (green)	NW 17th Avenue	North-South	135th Street	Downtown Miami	Jél	informat	information not available	vailable	V.P.	250	dr	informat	information not available	ailable	HYT.	
farcello Ji	Marcello Jitney (JO) (red)	North Miami Avenue	North-South	Aventura / Aventura Hospital	Downtown Miami	lu 1	informat	information not available	vailable	bau	50	No	informat	information not available	vailable	12	
onchita	Conchita Express (JC) (purple)	NE/NW 135th Street	East-West	Biscayne Boulevard / Biscayne Island Terr.	Opa Locka / Hialeah	ear	informat	information not available	wailable	1 W	ri Sil	aik	informat	information not available	vailable	anı	
xcel Jitne	Excel Jitney (JE) (magenta)	NE 127th St. NE 10th Av,NW 2nd Av.	North-South	North Miami Beach	Miami	2	informal	information not available	wailable	n I	D	age	informa	information not available	vailable	H	
lorida Jitr	Florida Jitney (JF) (orange)	Memorial Hwy, NW 125th Street	North-South	163rd Street Mall	Design District, 36th St. Transfers	ξſ	informat	information not available	ivailable	10	0.00	on	informa	information not available	vailable	els	

Table 2-3
Existing Transit Service Characteristics

Florida	Excel Jit		Conchita	Marcello	Liberty	Miami N	Jitneys	6	1	95-X	Max		1	1	75	28	17	16	ō	;	0	w N	Route
litney (JI	ney (JE)		a Expres	Jitney	Lity Jitne	fini Bus		blue	magenta	ž	orange	magenta	green	9	green	blue	magenta	blue	green	ē	1 2	orange	Map Color
Florida Jitney (JF) (orange)	Excel Jitney (JE) (magenta)		Conchita Express (JC) (purple)	Marcello Jitney (JO) (red)	Liberty City Jitney (JL) (green)	Miami Mini Bus (JM) (blue)		regular regional	regular regional	commuter express	limited stop	regular regional	regular regional		regular regional	regular regional	regular regional	regular regional	regular regional	regular regional	regular regional	regular regional	Type of Service
Memorial Hwy, NW 125th Street	Av,NW 2nd Av.	NE 127th St. NE 10th	NE/NW 135th Street	North Miami Avenue	NW 17th Avenue	NE 2nd Avenue	11.8	NE/NW 125th Street	Locka Blvd.	Miami Miami	Biscayne Boulevard	FIU	NW 7th Avenue	Highway	NW 119th St / Dixie	NW 135th Street / Opa	NW 17th Av / NW 22nd Av.	NE 16th Avenue	NE 12th Avenue	NE om Avenue	biscayne Boulevard	N. Miami Avenue	Primary Corridor in North Miami
North-South	North-South	POST. MCST	East-West	North-South	North-South	North-South	Part Co.	East-West	East-West	North-South	North-South	East-West	North-South	POST MCSI	Eact W/oct	East-West	North-South	North-South	North-South	North-South	North-South	North-South	Direction in North Miami
163rd Street Mall	North Miami Beach	Biscayne Island Terr.	Biscayne Boulevard /	Aventura / Aventura Hospital	135th Street	163rd Street Mall	ELA IC	Lincoln Road, Beaches, Bal Habour	Mall	Aventura Mall / 163rd Street	Aventura Mali	FIU North Campus	Park, Golden Glades Tri-	Lakes	i63rd St Mall, Miami	FIU North Campus	Carol City	Center	Center Center	Aventura Mall	Aventura Mali	Center	Regional Destinations
Design District, 36th St. Transfers	Miami	Opa Locka / Hialean	Ocal casta / Line	Downtown Miami	Downtown Miami	Downtown Miami	pea	Opa Locka	Opa Locka, Miami Lakes	Downtown Miami	Downtown Miami	163rd St Mall, Miami Lakes	Downtown Miami	Avenue	Racetrack Hialeah at NW 27th	Opa Locka, Hialeah	Downtown Miami	Downtown Miami	Downtown Miami	Downtown Miami	Downtown Miami	Downtown Miami	Regional Destinations
121		11				N E	EEC.	hours	hours	6 hours	13 hours	hours	hours	hours	hours 18	12	hours	hours	hours	hours	hours	hours	Operational Service Span
informat	informat	informat		informat	informa	informa		15 min.	60 min.	10 min.	15 min.	60 min.	10 min.	30 min.	00 111117	60 min	30 min.	20 min.	40 min.	15 min.	20 min.	60 min	Peak Headwa
information not available	information not av	information not available		information not available	information not av	information not available	1 E	30 min.	60 min.	No Service	No	30 min.	15 min.	30 min.	ou min.	60	30 min.	20 min.	40 min.	40 min.	20 min	60 min	Off-Peak Headway
vailable	vailable	vailable		vailable	vailable	vailable	esid e	30-60 min.	No Service	No Service	No	60 min.	60 min.	60 min.	Service	No	60 min.	30 min.	60 min.	30 min.	60 min.	60 min.	Night Time Headway
) VI	l ls		DO		SUI)		No	60 min.	No	No	20-30 min	20 min.	60 min.	Service	No	30 min.	30 min.	40-60 min.	40-60 min.	min.	Service	Weekend Headway
ETC	10	bo)		a B	ma Mari	E EV	M	1,114	697	1,148	1,582	2,177	4,324	1,468	277		nid:	2,351	1,134	2,208	5,182	1,189	NE Dade Avg. Daily Ridership Percent
JOD	tal		P	30	pri	N.		496	3%	5%	6%	996	17%	6%	1%		not ir	9%	5%	9%	21%	5%	NE Dade Ridership Percentage
informat	informat	informat		informat	informa	informa	bi	30-49	20-49	16-39	20-49	20-39	16-39	16-29	16-29	-	ncluded in	20-39	16-39	16-39	20-39	20-39	Primary Age Cohort
information not available	information not available	information not available	1000	information not available	information not available	information not available		home/	home/	home/	home/	home/	home/	school	school	home/	WORK Dade	home/	home/	home/ work	home/ work		Primary Trip Purpose
ailable		/ailable	- Constant	allable	ailable	railable	S. Complete	home/	home/	home/	home/	home/	home/	work	work	home/	not included in NE Dade Transit Survey	home/	home/	home/	home/ shopping		Secondary Trip Purpose
TE .	Cris		-	2	27		larest	Jitney	Jitney	Jitney	STS	Jitney	Jitney	Jitney 131961	(27%)	vcy	(41%)	Jitney				Jitr (30	Alternative Transit Use
							900	travel	travel	travel	security	travel	travel	travel	breakdo	7	time	travel	travel	travel	travel		Primary Rider Concern

City Parks & Recreation staff suggest that more children could take part if transportation were available to take children home from after school events and activities. A City operated minibus could allow residents to more frequently visit the library, attend classes and events at Florida International University, or take their children to the in-line skating rink, the City wet tot lot, and other locations.

Transit Service Area Coverage

Transit service area coverage is the land around a transit stop encircled by a band with a 1,000-foot. When mapped, this band provides a rough, visual measure of the availability of transit service throughout an area, and quickly shows areas where transit service can be considered too far away for people to walk.

As an aggregate measure however, it does not fully demonstrate the availability of service. For example, frequent bus arrivals, and multiple routes to various destinations may serve one covered block, while a single route with sixty-minute intervals between arrivals, may serve another covered block. Both will be shown within the transit service area, yet they represent widely varied levels of and demands for service.

A better measure of transit service coverage needs is shown in Figure 2-5. Orange blocks define those areas more than 1,000 feet from any MDTA regional bus line. They can be considered without service. Gold-colored blocks illustrate those that are near one or more MDTA transit lines with service frequencies less than two per hour (30-minute headways) during off-peak times (senior citizens and students tend to travel at off-peak hours). These areas can be considered to have low levels of service.

Jitney Service Alignments -x- Metrobus (MDTA) Routes NE 123rd St 3 3 3 × Areas Served by Transit Service with Less Frequency of 1 per Hour WE TOTH AV Areas Not in the Service Area of Metrobus Transit Service North Miami Transit Circulator Study VA HIOT BIN VE 143rd S VA IMIDIM ATION Outside City of North Miami VA HT WV City of North Miami Opa Locka Boule -egend WA ATT F WIN

Figure 2-5 City of North Miami Existing Transit Service Coverage Deficiencies

ROADWAY CONDITIONS

Existing roadway conditions affect a community's ability to provide efficient transit service. Roads that are less congested allow greater freedom and maneuverability for transit vehicles to make stops and conform to a schedule. Congested roads impede the progress of the transit vehicle, affecting travel time, and reliability and indirectly, the public's perception of the desirability of public transit services. Because community transit circulator services use small miniman type vehicles, local roads can be traveled with little negative impact to neighborhoods. Many congested segments and intersections of the City's major arterial and collector roads can be avoided by the use of alignments along local roads.

Neighborhood Cut-Through Impacts

Neighborhoods within the city have identified areas where traffic calming techniques or road closures may be implemented. In these areas, special attention is given to planning community transit services if needed, and particular attention will be given during public input. These areas include:

Breezeswept Estates Public rights-of-way within the area north of NE 119th

Street to NE 135th Street, and from NE 2nd Avenue on

the east to North Miami Avenue on the west.

Overbrook Shores Public rights-of-way within the area north of NE 119th

Street to NE 121st Street, and from NW 2nd Avenue

on the west to North Miami Avenue on the east.

Executive Manors Public right-of-way along NE 142nd Street, from NE

16th Avenue to NE 18th Avenue.

North Miami Downtown Action Plan Recommendations

The North Miami Downtown Action Plan provides recommendations for downtown revitalization and street improvements. This includes proposals to improve parking and roadway conditions along NE 125th Street from NE 4th Avenue to NE 9th Avenue and along NE 8th Avenue, south of NE 125th Street. Improvements are proposed for NE 125th Street intersections at Dixie Highway, NE 8th Avenue, and NE 9th Avenue. The Plan also includes traffic calming strategies for the NE 125th Street business district.

The Action Plan gives particular attention to parking. While most parking is located on side streets and behind stores, the availability and visibility of storefront parking is essential to many businesses. Special consideration to the efficient location of bus stop must be given to the NE 125th Street Downtown District.

Major Roadway Level-of-Service

Level-of-Service (LOS) is a measure used to define a range of traffic conditions along arterial and collector roadway segments and at major intersections. Six levels-of-service are defined and designated A to F. LOS A designates the best operating conditions, characterized by free, uninterrupted flow of traffic, with minimal delays. LOS F designates the worst conditions, characterized by heavy congestion with long delays, especially at intersections. As a general measure of driver satisfaction correlating to vehicle density, speed, delay, and the ability to maneuver, LOS along roadway segments and at intersections suggests the relative ease of difficulty with providing transit service along those streets. LOS measures are not generally applicable to local and residential streets, for which standards relating the volume and speed of vehicles to safety and quality of life are more typically used.

Figure 2-6 illustrates the arterial and collector roadways within the City. Levels of service are shown for the major, state-maintained facilities, and are based on the Florida Department of Transportation's Aggregated Segments LOS. Aggregated Segments LOS is used for planning purposes only and is not a useful for determining site level transportation impacts.

The Action Plan gives particular attention to parking. While most parking is located on side streets and behind stores, the availability and visibility of storefront parking is essential to many businesses. Special consideration to the efficient location of bus stop must be given to the NE 125th Street Downtown District.

Major Roadway Level-of-Service

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Roadway Level of Service (LOS) based on 1998 FDOI Aggregated Segments LOS Report Roadway LOS D Roadway LOS E Roadway LOS F VA ATIOF BY NE 1861 St North Miami Transit Circulator Study W HOT BY NE 143rd St Roadway LOS C Roadway LOS A Roadway LOS B vA impliff rholf Outside City of North Miami City of North Miami Opa Locka Boulevard Legend

Figure 2-6 City of North Miami Existing Roadway Deficiencies

3. TARGET POPULATION NEEDS

While the circulator will provide publicly available transit, services will be designed to meet the needs of the populations with the greatest transportation needs: senior citizens, students who attend after school programs and commuter transfers.

Target rider demographic indicators have been developed based on the cross-correlated demographic statistics (assuming homogeneous distributions) discussed in Chapter 2. These indicators provide a ranking of need for each of the three target populations. The indicators are summarized as a simple multinomial addition of populations, with each population base weighted by a 0.1 factor (suggests that 10% of the elderly, school age, and commuter populations are expected to utilize the service). Demographic indicators and scores for each Planning Sector, appear in Table 3-4. Cumulative results, by Planning Sector, appear in Figure 3-1.

SENIOR CITIZENS

Many seniors cannot drive, or have limited driving capabilities. The proposed service is intended to enable such seniors to prolong an independent life style by providing access to basic services as well as to socio-cultural opportunities. The demographic indicators include:

- ≥ Residents 65 years and older
- ≥ Residents 65 years and older, who are unemployed by disability, and likely to have no vehicles in the household
- ≥ Residents 65 years and older, who are not in the labor force, because they are prevented from working by disability
- ≥ Residents 65 years and older, who are employed without disability, and likely to have no vehicles in the household
- ≥ Households with Social Security income, but without retirement income, and likely to have no vehicles in the household
- ≥ Residents at or below poverty level, 60 years and older
 - ≥ Residents at or below poverty level, 75 years and older

The cumulative results of the scored indicators are displayed in Table 3-1, showing the number of target individuals for each Planning Sector, and the sector's comparative need rank.

oemor Chizen Targ	et Population and Ranking, By l	Planning Sector
Planning Sector	Target Population	Need Rank
1	664	2
2	204	6
3	703	1
4	182	7
5	557	3
6	224	5
7	288	4

STUDENTS WHO ATTEND AFTER SCHOOL PROGRAMS

Miami Dade County Public Schools provides for transportation to all school children that live more than 2 miles from their school, as well as those within the 2-mile boundary that are at risk due to difficult crossings and other obstacles. The City Parks Department provides a variety of after school activities and programs for which public transportation is unavailable. The community circulator is intended to provide safe transportation to and from these activities. The demographic indicators include:

- ≥ School age children enrolled in public and private schools (10%)
- ≥ School age children enrolled in school, and likely to belong to families that commute by transit, bicycle, walking, or other non-private vehicle means
- ≥ School age children enrolled in school, that are likely to belong to single parent families, and likely to have no vehicles in the household
- ≥ School age children enrolled in school that are likely to belong to married families with income below the poverty level

≥ School age children enrolled in school that are likely to belong to single parent families with income below the poverty level

The cumulative results of the scored indicators are displayed in Table 3-2, showing the number of target individuals for each Planning Sector, and the sector's comparative need rank.

Student After School Progra	Table 3-2 m Target Population and Rai	nking, By Planning Sector
Planning Sector	Target Population	Need Rank
reduces a notacil part para hor:	202	7
2	334	6
3	776	3
4	524	5
5	1,136	1
6	575	4
7	916	2

COMMUTERS

MDTA provides regional bus service throughout the City, supplemented by six regulated jitney companies and a mix of institutional, agency, commercial and residential entities serving client populations. Areas where transit access is difficult because of long walking distances to bus stops, poor pedestrian and transit amenities, or low service frequency and duration, can be identified. Transit service area coverage indicators are an additional tool for identifying unserved or under-served areas. Community circulators can provide transfer links to such areas, resulting in enhanced service and greater ridership potential.

Additional data and information relating to specifically stated preference characteristics and spatial patterns of transit transfer demand are summarized in Section 4, Transit Demand Characteristics.

The demographic indicators include:

- ≥ Workers 16 years old and older (base population not included, 0%)
- ≥ Workers that report using public transportation (all public transit modes)
- ≥ Workers that walk to work
- ≥ Workers that carpool to work (10% target group approximately half are drivers)
- ≥ Workers that bicycle to work (10% target group likely riders only in bad weather)
- ≥ College students who are likely to have no vehicle in the household

The cumulative results of the scored indicators are displayed in Table 3-3, showing the number of target individuals for each Planning Sector, and the sector's comparative need rank.

О Т	Table 3-3	
	Ridership and Ranking, by Pl	
	Target Population	
schools 1 man anadar s	312	6
hence 2 a menterbed	346	amster 5 miles
3 12 2 2	604	2
paral 4 to bovious	382	ibbe m4 m 4
ni suid 5 et alem date	923	nty or unators
6	289	ושל פיני ק יכני בולכבי
7	436	3

- ≥ Workers 16 years old and older (base population not included, 0%)
- ≥ Workers that report using public transportation (all public transit modes)
- ≥ Workers that walk to work
- ≥ Workers that carpool to work (10% target group approximately half are drivers)
- ≥ Workers that bicycle to work (10% target group likely riders only in bad weather)
- ≥ College students who are likely to have no vehicle in the household

The cumulative results of the scored indicators are displayed in Table 3-3, showing the number of target individuals for each Planning Sector, and the sector's comparative need rank.

Commuter Target	Table 3-3 Ridership and Ranking, by Pl	anning Sector
	Target Population	
a where transft access	342	6
pederman a 2 minuskog	346	analles 5 not be
ern aun 3 maint Le	604	ransus 2 sarve
The table 4 to Lambert	printinged 382 logs famous	bbs m4
ni yaial 501 aagas daas	res spirit set 923 slaveng tras	atry on pulsions
6		pablis na 7 mg bar
7	436	3

School-Age Population with Demographic Characteristics Associated with Probable Transit Use Employed Population with Demographic Characteristics Associated with Probable Transit Use Senior Population with Demographic Characteristics Associated with Probable Transit Use PLANNING SECTOR 2 PLANNING SECTOR 1 100HOS BOINES וסום PLANNING SECTOR 3 NE 135th North Miami Transit Circulator Study PLANNING COMMING SECTOR 4 COMMILE VA HIS BM PLANNING SECTOR 5 **SEMICIS** COMMING COMMING SCHOOL SECTOR 6 Census Planning Sector Boundary A TIOTE ST Outside City of North Miami City of North Miami a Locka Boulevar V 135th St PLANNING SECTOR 7 SONOS SHOT WN egend

Figure 3-1 City of North Miami Target Ridership Indicators

Transit Circulator Target Ridership Demographic Indicators

After School Program Target Ridership Population	Planning	Planning Sector 1	Planning	Planning Sector 2	Planning	Planning Sector 3	Planning Sector 4	Sector 4	Planning Sector 5	Sector 5	Planning Sector 6	Sector 6	Planning	Planning Sector 7
School Age Children	1,065	Cinec	1,054	W. T. S.	1,729	有吸	1.472	CHORNE	2,676	CICIO	2 034	Specific Spe	903.0	18
Households with Children	603	15%	579	23%		26%	551	33%	1 248	30%	ל ממ	40%	0000	400/
School Children Enrolled in Public School	461	26%	657	91%	-		770	84%	1,638	2000	1 461	2000	1 527	40.70
School Age Children Not Enrolled in School	247	23%	329	31%		30%	557	38%	741	28%	374	18%	689	27%
Among Not Enrolled, Probably Enrolled in Public School	139	17	298		451		469		627		329		578	2
Comparative Target Rider Potential by Planning Sector		Score		Score		Score		Score	1	Score		Score		Score
Total Number of Target Students (10% target group)	009	9	955	96	1,500		1,239	124	2.265	227	1 790	179	2 105	211
Among Target Students, those likely to belong to families	79	79	134	134			251	251	543	543	251	251	426	426
that commute by transit, bike, walking, or other		ò)	2	2	2	140	1750
Among Target Students, those likely to belong to single parent familes, and likely to have no household vehicle	80	00	35	35	131	131	52	52	139	139	44	44	99	99
Among Target Students, those likely to belong to married	12	12	19	19	90	90	61	19	114	114	71	71	141	141
families with income below poverty level Among Target Students, those likely to belong to single parent families with income below poverty level	43	43	51	10	111	111	36	36	113	113	30	30	73	73
Total At-Risk Student Ridership Potential Score		202		334		776		524		1136	Ī	575		916
Total At-Risk Student Ridership Potential Score Rank		7		9		e		ır				*		

Transit Circulator Target Rider Indicators														
Senior Rider Needs Comparative Target Rider Potential by Planning Sector	Planning Sector 1 Number Score	Sector 1 Score	Planning	Planning Sector 2	Planning Sector 3	Sector 3	Planning Sector 4	ctor 4	Planning Sector 5	Sector 5	Planning Sector 6	ector 6	Planning Sector 7	Sector 7
Residents ages 65 to 75 years (10% target group)	950	95	305	31	653	55	310	31	677	a c	507	2	433	27
Residents over 75 years (10% target group)	996	97	324	32		86	198	20	854	9 6	331	3 6	242	24
Residents 65 years and older, who are unemployed by	-	-	0	0		0	-	-	0	0		3 0	10	, 0
disability, that are likely to have no vehicles in the household Residents 65 years and older not in the labor force, because they are prevented from working by disability	d 27	27	11	11	49	49	17	17	20	20	5 5	5 5	, 4	2 4
Residents 65 years and older, who are employed without disability, and are likely to have no household vehicle	17	17	7	7	42	42	9	9	24	24	6	6	7	7
Households with Social Security income, but without retirement income, and likely to have no household vehicle	70	70	19	19	126	126	31	31	66	66	33	33	27	27
Poverty status, 60 years and over	209	209	72	72	215	215	69	69	181	181	80	80	154	154
Daverty status, 13 years and over	061	150	32	32	108	108	7	7	71	71	0	0	19	19
Total At-Risk Senior Ridership Potential Score		664		204		703		182		222		224		288
lotal At-Risk Senior Ridership Potential Score Rank		2		9		1		7		6.		u		V

Commuter and Other Transit Transfer Rider Needs Comparative Target Rider Potential by Planning Sector	Planning S Number	Sector 1 Score	Planning	Planning Sector 2	Planning	Planning Sector 3	Planning	Planning Sector 4	Planning Sector 5	Sector 5	Planning Sector 6	ctor 6	Planning Sector 7	sector 7
Workers 16 years and older	4 0 4 4		0.50					C. Strategie Co		THE REAL PROPERTY.				
יייייייייייייייייייייייייייייייייייייי	110'4	and the same	3,110				2,101		4,864		3,008		3,022	
Workers that use public transportation (all public transit)	186	186	218			2	215		562		171	171	310	31
Workers that walk to work	09	9	23				62		148		32	32	19	-
Workers that carpool (10% target group)	909	51	368				244	24	730	73	407	41	517	ıc
Workers that bicycle to work (10% target group)	60	-	12	-	33	m	16		43		101	2	. 10	-
Students enrolled in college, that are likely to have no	44	44	67				79		136	13	44	44	54	LC.
vehicle in the household					0 0								,)
Total At-Risk Senior Ridership Potential Score		342		346		604		382		923		280		254
Total At-Risk Senior Ridership Potential Score Rank		9		ın		0		4		,		2 1	Ĭ	1

4. IRANSIT DEMAND CHARACTERISTICS

Chapter 3 identifies specific transportation needs by their relative intensity and geographic distribution. That analysis provided a basis for determining route and schedule structures in Task 7, Operation Plan and Implementation. This section provides information regarding existing transit trip characteristics, and public attitudes regarding transit services.

In 1993, MDTA conducted an on-board survey of the County's sixty-nine (69) regular bus routes. In total, 12,904 riders were interviewed. For purposes of the current study, records for passengers with origins, destinations and/or transfers within the City of North Miami were extracted, approximately 7% of the total responses (856 records). A copy of the survey instrument is included in Appendix B. The results extracted from the 1993 MDTA Metrobus Rider Survey as applicable to North Miami are summarized in Appendix C.

As part of the 1994 Northeast Dade Transit Improvement Study, MDTA conducted attitudinal surveys of existing riders and the general population of Northeast Dade County. MDTA collected data through onboard surveys and random distributed telephone surveys, published in three languages (English, Spanish, Creole). The results were summarized by subareas, including the Greater North Miami area (North Miami, Biscayne Park, southern Biscayne Gardens). Although these surveys included substantial trip characteristic and rider profile data, they provide significant detailed attitudinal and preference information regarding modal choice, transit service, and transit service improvements. A summary of these surveys for bus riders and all other transportation mode users for the North Miami subarea is included in Appendix C.

TRIP CHARACTERISTICS

The predominant transit trip purpose for North Miami is home-based work (62%), with home-based school (17%), and home-based shopping (13%) trips ranking second and third. Planning Sectors 5 and 7 have higher percentages of home-based school trips, 26%, and 31% respectively.

^{*} Area bounded by NW/NE 62nd Street to the County Line; NW 7th Avenue to the Atlantic Ocean

For North Miami non-transit travelers (98% auto), 84% of their trips are home-based work, and 13% are home-based shopping trips. Only 1% is home-based school trips. Average travel time for non-transit riders in North Miami is 16 minutes.

Ninety-one percent of bus riders walk to or from the bus or transfer to another bus. Transfers account for 22%. Most walk three blocks or less (51%). Eighteen percent (18%) walk more than three blocks. Planning Sector 6 has a slightly higher percentage of those who walk more than three blocks (22%).

Approximately 70% of North Miami bus riders transfer to another bus or mode of public transit on their trip. Fifty-four percent (54%) of respondents state that they did not have a problem with transfers. Twenty four percent (24%) responded that they prefer not to or will not transfer.

Most North Miami bus riders are regular commuters, using the bus five or more day per week. Eleven percent are occasional riders, using the bus twice or less per week.

Table 4-1 displays the origin/destination distribution of North Miami bus riders by Planning Sector is as follows:

Circ seedudencestA	Table 4-1	
Origin and Destination	of North Miami Bus Ric	ders, by Planning Secto
Planning Sector	Survey Response	s Percent
1	89	10%
2	147	17%
3	139	16%
4	30	4%
5	216	25%
6	109	13%
7	126	15%
	and and the second of the second	

TRANSIT RIDER PROFILE

Seventeen (17%) percent of North Miami bus riders are of high school age (16 to 19 years). Five percent are 15 years old or less and five percent are 60 years or older.

Forty-three (43%) percent have no vehicle in their household. Nineteen percent (19%) have more than one vehicle.

Over 85% of bus riders are from households with incomes less than the mean household income for the City (\$32,891 in 1989).

ATTITUDES AND PREFERENCES

When asked why they did not use the bus, the top ranking answers were:

- 1. Prefer to drive my car (71%)
- 2. Need my car during the day or for work (16%)
- 3. Bus stops and routes are inconvenient (7%)

When asked what improvements would motivate them to ride the bus, the most common responses were:

- 1. More frequent service (46%)
- 2. Do not have to transfer (44%)
- 3. Better on-time reliability (43%)
- 4. Familiarity program (42%)
- 5. Route within 3 blocks of home or work (42%)

When asked what their biggest concerns are with MDTA transit service, the top ranking answers were:

- 1. Total travel time (25%)
- 2. Driver courtesy (18%)

- 3. Security (13%)
- 4. Doesn't go where you want (12%)
- 5. Bus breakdown (5%)

When asked which transit improvements they thought were important, the top ranking answers (over 90%) were:

- 1. More bus stops along routes (95%)
- 2. Faster bus service (93%)
- 3. More shelters at bus stops (93%)
- 4. Benches at all bus stops (93%)
- 5. Shuttle bus service to shopping malls (92%)
- 6. More frequent service (91%)

TRANSIT TRIP TABLES

Using the 1993 Metrobus Rider Survey, summarized in Appendix B, origins and destinations were extracted by Transportation Analysis Zones (TAZ) within the City of North Miami. The results, by Planning Sector, are displayed in Table 4-2 and by TAZ in Table 4-3. A map showing the TAZs within North Miami is included in Appendix E These trip tables provide valuable information about the geographic patterns of existing transit travel within the City.

Origins are listed by Planning Sector or TAZ along the left margins of the table. Along the top margins are listed destinations by Planning Sector or TAZ. The numbers in the matrix show the number of trips between each of these origins and destination. The sums are at the bottom and right side for each origin and destination. The sum of trips from or to external locations is to the outside of the internal sums. Finally, all trips from a particular origin, or to a particular destination are summed at the extreme right column and extreme bottom row.

Table 4-2 North Miami Internal-Internal Transit Trip Table by Planning Sector 1993 Metrobus Rider Survey

				De	stinatio	ons					
	Planning Sector	1	2	3	4	5	6	7	Internal	External	Total
	1	0	0	0	2	0	0	0	2	43	45
	2	2	0	0	0	1	0	1	4	76	80
us	3	0	1 9	4	0	0	0	0	5	62	67
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0	5	0	2	1	1	4	0	2	10	114	124
	6	2	1	0	0	4	3	. 1	11	35	46
	7	2	1	0	0	1	1	1	6	50	56
	Internal	6	5	5	3	11	5	5	40	0 0 0 3	0 0 2
	External	45	59	63	10	100	29	44	0	745	
	Total	51	64	68	13	111	34	49	3 1		785

North Miami Internal-Internal Transit Trip Table by TAZ 1993 Metrobus Rider Survey Table 4-3

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Int	0	0	2	0	0	-	-	2	0	0	2	-	0	2	0	2	0	2	-	2	2	3	-	2	4	-	3	3	0	3	0	40		
305	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	000
304	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	2	8	
303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	-	10	
302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	-	0	0	0	0	0	0	2	19	
351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	6	10000
350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	9	
349	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	9	
336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	-	7	
352	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0	0	0	0	2	7	
348	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12	
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337	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0	2	0	0	0	0	0	0	0	4	16	
339	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	1	7	
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363	1	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	17	
344	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	-	12	
3 46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
3 45	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	
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342	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
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1 366		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
365	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
1 47	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	9	15	
1 44		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
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Forty (40) trips out of 785 (5%) were internal to the City: that is, from a location in the City to a location in the City. This is not surprising considering that travel by bus requires long waiting times and possible transfers which become significant for short trips. For many internal trips, walking may be preferable to taking a bus. Even fewer trips, 12 (1%) are made completely within Planning Sectors. These results indicate that most people do not find MDTA bus service convenient for travel within the City.

TRANSIT RIDER WALKING TRIP TABLES

Walking trips made by North Miami bus riders are illustrated in Tables 4-4 and 4-5. Locations where comparatively more walking trips are made, especially among different Planning Sectors (longer walking distances) provides a good indication of community transit need. In these tables, external trips are irrelevant since these are probably made by transfer or other modes. The walking trip tables are computed by comparing TAZ origin and boarding, destination and return locations.

Walking Trip Table by Planning Sector (Table 4-4) identifies 621 possible walking trips. Of these, 87% (538) occur within a single sector (dark gray diagonal of cells), 10% (62) between adjacent sectors (light gray shaded cells) and 3% (21) between distant zones.

Since the geographic size of most TAZs in North Miami represent a good approximation of reasonable walking distance (3 blocks), walking trips between one or more TAZ suggest a need for transit service. Of the 621 trips, 507 (82%) are within the same TAZ (shaded diagonal of cells in Table 4-5). Table 4-6 indicates possible need for community transit service for transferring bus riders.

Table 4-6 Transit Rider Walking Trips	
Walking trips within the same Planning Sector but not the same TAZ	5% bus riders
Walking trips within adjacent Planning Sectors	10% bus riders
Walking trips within distant Planning Sectors	3% bus riders
Total	18% bus riders

Table 4-4 Walk Trip Table by Planning District

North Miami Internal-Internal Transit-Linked Walking Trip Table by TAZ 1993 Metrobus Rider Survey Table 4-4

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7	305	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
7	304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	13	0	14
1	303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	-	0	0	16	0	0	18
7	302	0	0	0	0	0	0	0	-	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	30	2	0	2	38
9	351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	0	11	0	0	0	0	12
9	350	0	0	0	0	0	-	0	0	0	2	0	0	0	0	0	0	-	0	0	0	0	0	-	0	0	8	0	0	2	0	0	15
9	349	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
9	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	1
9	335	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	11	-	0	-	-	0	_	0	0	17
2	352	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	0	12	0	0	0	0	0	0	0	0	0	13
5	348	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	15	0	0	0	2	0	0	0	0	0	0	18
2	347	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	14	0	-	0	0	0	0	0	0	0	0	0	19
2	346	0	0	0	0	0	0	0	0	_	0	0	0	0	0	0	0	0	2	15	0	-	0	0	0		0	0	0	0	0	0	20
2	345	0	0	0	0	0	0	0	0	0	0	0	-	0	-	0	0	2	64	0	-	2	0	0	0	0	0	0	0	0	0	-	72
2	337	0	0	0	0	0	0	0	-	0	0	0	0	0	0		-	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
4	339	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	12
4	338	0	0	0	0	0	-	0	0	0	0	0	0	0	0	7	0	0	0	2	-	0	0	0	0	0	0	0	0	0	0	0	
8	364	0	0	0	-	0	0	0	0	0	2	0	0	-	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
8	363	0	0	0	4	0	0	0	0	0	2	0	0	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
8	344	0	0	2	0	0	0	0	0	-	0	0	20	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	24
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e	45	0	0	0	-	0	0	0	0	0	18	0	0	0	0	0	0	0	4	2	0	0	0	0	0	2	0	0	0	0	0	0	27
2	343		0							22	0	-	11.			-		0		+		_	-	-	-	-	-	-	7800	7979	0	+	31
2	342	0	0	0	0	0	0	-	14	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	18
2	341	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
2	340	0	0	0	0	0	35	0	-	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
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-	47	0	0	30	0	0	0	2	2	2	ო	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		39
-	44	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		10
-	43	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
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5. PUBLIC INPUT

As part of this Study, the City conducted an initial public meeting to obtain input on current transit services, where transit services may be needed, and interest in a community shuttle. Meetings were held with the Mayor and Councilmembers. North Miami Chamber of Commerce, and North Miami staff also provided input. A survey was conducted of Johnson & Wales University students to determine if they would use a community shuttle, and where they needed and/or wanted to go. Subsequent to the development of the two service alternatives, the City held three public meetings to obtain input on route alignments, scheduling, and community preferences.

MAYOR & COUNCILMEMBERS

Councilmembers think that MDTA generally provides adequate regional transit services to North Miami residents. There was concern that bus benches and shelters are not well maintained. Further, stops are sometimes are placed too close to the roadways, thereby causing a hazardous situation for waiting passengers. Councilmembers identified three populations that could benefit from a City circulator service:

- ≥ Elderly residents in the San Souci and West Side area wishing to attend City activities at City facilities;
- ≥ Children attending after school activities;
- Parents dependent upon public transit picking up their children and going home after the completion of after school activities.

NORTH MIAMI CHAMBER OF COMMERCE

North Miami Chamber staff had no specific comments regarding the current level of service provided by MDTA. They suggested that a local circulator serving the downtown North Miami business district and the commercial establishments along W. Dixie Highway and NE 6th Avenue could benefit Chamber members.

NORTH MIAMI STAFF

North Miami staff suggested that MDTA regional service does not adequately meet the needs of City residents. Buses run primarily within major corridors, resulting in significant walk for many transit dependent residents. In those areas where MDTA vehicles traverse residential neighborhoods, residents complain about the noise and fumes. Staff noted that, while the jitneys have significantly enhanced transit services to individuals dependent upon transit to get to and from work, many elderly residents are uncomfortable riding jitneys. In addition to those needs identified by the Mayor and Council, staff suggested a City circulator provide transit service:

- ≥ Between community centers and parks during the day;
- ≥ To the elderly residing within the central city area;
- ≥ To the Elders Institute at Florida International University;
- ≥ To Post Office, local restaurants and shops;
- ≥ To regional medical facilities (Aventura, Parkway, North Shore);
- ≥ To City Council and other official City meetings; and
- \geq To the NW 7th Avenue shopping district.

Staff recommended that the City circulator serve different clientele at differing times of the time: the elderly in the mornings; children in the afternoon, and children and adults in the evenings. Parks & Recreation staff suggested that Parks plan its programs to coincide with the circulator schedule.

JOHNSON & WALES UNIVERSITY

Johnson & Wales University provides housing to approximately 400 students. During the 1999 school year, approximately 200 students resided at the Greenwich Apartments (NE 123rd Street/16th Avenue); in the 2000 school year, Johnson & Wales has contracted with Courtyards at the Park (NE 135th Street/16th Avenue) to house an additional 100 students. Generally, most students take classes from September through June. During the summer, those students remaining for classes are housed on campus.

Class sessions begin in the early morning (7:00 AM) and end in early evening (7:30 PM). While more take classes in the mornings, students stay on campus as late at 9:00 PM to use campus facilities. Students generally walk between the campus and the apartments, sometimes as late as 9:30 or 10:00 PM.

Johnson & Wales also owns and operates the Bay Harbor Inn. Students work one of two shifts at the Inn (7:00 AM to 3:00 PM; 3:00 PM to 7:00 PM). Some students also work at other locations, including the Aventura Mall and Intracoastal Mall.

Johnson & Wales has contemplated the acquisition of a van or minibus to transport the students. If the City implements circulator service which can meet the needs of its students, the University would consider provision of funding toward the City service.

The main campus of Johnson & Wales houses a cafeteria that is open to the public. It serves lunch 11:00~AM-1:00~PM and dinner 4:45~PM to 6:00~PM. Johnson & Wales staff suggest that a circulator bus would enable more North Miami residents to use the cafeteria.

The City developed a survey to determine if Johnson & Wales students would use a circulator and where students wanted to go. Thirty-eight students responded. Appendix Fprovides a copy of the blank survey. Table 5-1 summarizes the results.

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		y _a ,		yəə		Wet		
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How often do you go?		nce		Vic		hre		
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Would you use a City-operated public destinations in or near North Miami?			o travel to		V218 19 U22 21 U22 21			
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PUBLIC MEETINGS

Pre-Route Development

In March 1999, the City held a public meeting at the North Miami Library to solicit input from residents on the development of a City circulator service. The City advertised the meeting in the newspaper and sent letters inviting community leaders to participate. Ten individuals attended, all of who were enthusiastic about a citywide transit service. Specific comments and suggestions included:

- ≥ Develop routes which supplement services provided by the North Miami Foundation to elderly residents;
- Provide services which connect to the Elderly Institute at Florida International University, to the Aventura Mall, and to the Intracoastal Mall;
- ≥ Coordinate services so that transfers to MDTA and other municipal circulators is convenient to North Miami residents; and
- ≥ Provide services in the evenings and on weekends to take residents to social events, such as movies, dining out, etc.

Post-Route Development

Subsequent to data collection, the City developed two route alternatives. Meetings were held in September and October 1999 with three community groups (Westside Property Owners' Association, Central North Miami Homeowners' Association, and Keystone Point Homeowners' Association) to obtain input on the proposed route alignments. The City invited the general public to attend through advertisements in the Miami Herald.

The community groups preferred Alternative 1, with minor route modifications. They suggested:

- ≥ The North Miami Library should not serve as the transfer site.
- ≥ Route should not travel along NE 127th Street, instead crossing from NE 2nd Avenue to NE 6th Avenue further north.

The City also provided a survey for the Keystone Pointe Homeowners' Association newsletter. Appendix Gprovides a copy of the blank survey. The Keystone Pointe Homeowners Association has not received any responses to the survey. The Central North Miami Homeowners' Association formed a committee to work with the City during implementation of the circulator.

6. SERVICE ALTERNATIVES DEVELOPMENT

Two alternatives were developed to provide community circulator service to elderly residents, school children and city residents, and to afford more effective neighborhood transfers to MDTA regional bus routes.

To most effectively provide service throughout the City, each alternative recommended two routes. The routes were timed to meet at or near the City Library so that passengers could transfer between them. This site was selected as the transfer point because it is centrally located, is close to major City facilities, and can provide a safe, comfortable, and convenient waiting area throughout the circulator's hours of operation.

ALTERNATIVE 1

Route A serves the City west of the Library. The route begins at the West Side Community Center and terminates at North Miami Elementary. Stops include Ben Franklin Elementary, US Post Office on NW 119th Street, Gratigny Elementary, and Publix (NE 6th Avenue). Approximate time to complete one run (from the West Side Community Center to North Miami Elementary and return to West Side Community Center) is 78 minutes (1 hour, 18 minutes).

Route B serves the City east of the Library. The route begins at Besade Park and terminates at the eastern end of 135th Street. Stops include Johnson & Wales University, Gwen Margolis Community Center, City Hall, and Publix (Biscayne Blvd). Approximate run time (from Besade Park to 135th Street and back to Besade Park) is 88 minutes (1 hour, 28 minutes).

ALTERNATIVE 2

Route A begins at the West Side Community Center and terminates at Biscayne Boulevard and 145th Street. Stops include Ben Franklin Elementary, Natural Bridge Elementary, and Publix (NE 6th Avenue). Approximate time to complete one run (from the West Side Community Center to Biscayne Boulevard and 145th Street and return to West Side Community Center) is 90 minutes (1 hour, 30 minutes).

Route B begins at the eastern end of NE 135th Street and terminates at Gratigny Elementary. Stops include Johnson & Wales University, Gwen Margolis Community Center, City Hall, and Publix (Biscayne Blvd). Approximate run time (from NE 135th Street to Gratigny Elementary and back to NE 135th Street) is 82 minutes (1 hour, 22 minutes).

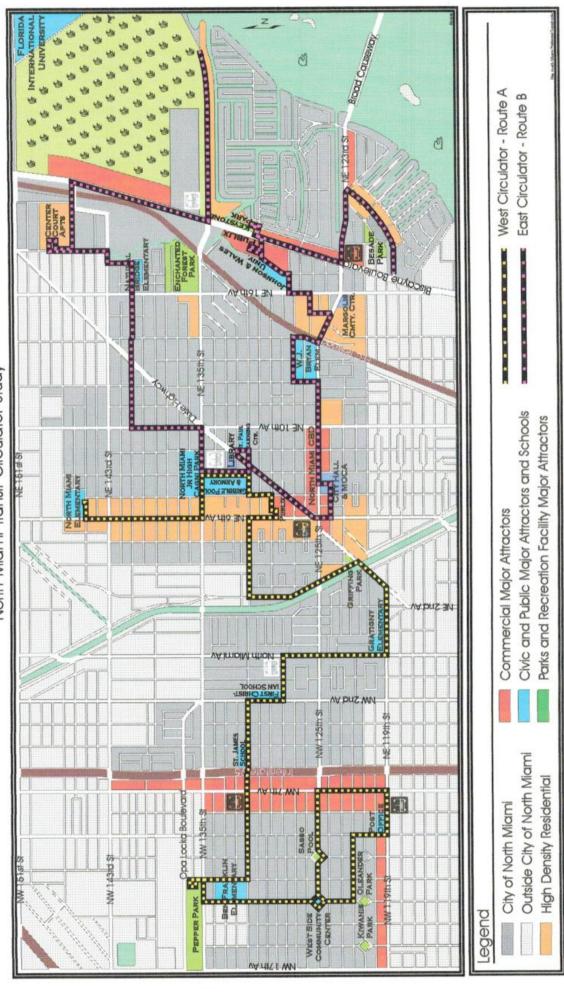
Appendix H provides summary statistics and alignments for Alternatives 1 and 2.

ROUTE SELECTION

After review of Alternatives 1 and 2 with North Miami staff and at the public meetings, the City has chosen to implement Alternative 1 with minor modifications (Figure 6-1). Approximate headways for each route is 45 minutes, with a total round trip run time of one hour, 30 minutes. Both routes will provide service weekdays, 10 hours a day, starting at approximately 9:00 AM and ending at approximately 7:00 PM. The City projects that service will begin in 2000 once funding is available.

The City will consider providing weekend to special express services to locations outside of the City, such as: Kane Concourse, Bal Harbour and Surfside, or Aventura Mall. Weekend excursion trips could depart from the North Miami Library, with passengers transferring from regular circulators that would run their normal or curtailed routes (without school and work location stops).

City of North Miami Transit Circulator Routes - Preferred Alternative North Miami Transit Circulator Study Figure 6-1



7. OPERATIONAL PLAN & IMPLEMENTATION

The City proposes to initiate service in 2000 as soon as funding is available. Routes will operate ten hours a day, Monday through Friday. For the first ninety days, the service will be offered without charge. The City will evaluate ridership and determine a fare structure, if any, during that period. For approximately the first year of service, the City intends to contract with a private vendor to provide vehicles and operate the service.

Within one year following program startup, the City plans to purchase alternative fuel vehicles for the service, and will seek a distinctive vehicle design, such as a trolley. The City proposes to provide the vehicles to a private vendor, who will operate the transit service and collect required Federal, State and County transit information. The City will seek public and private grants to help fund acquisition of the alternative fuel vehicles.

Funding for technical assistance during the implementation phase has been provided through the FY 2000 MPO Municipal Grant Program. The City will request funds from Miami-Dade County to offset operating costs in the first year of operation. The City has included an appropriation for the service in its FY 2000 budget and is seeking funding from other sources.

The City proposes to implement the circulator service during phases 2 and 3:

PHASE 2

Finalize circulator route alignments, schedules, and budgets

Develop marketing program

Hire vendor to operate circulator services

Prepare and issue RFP and/or RFB for service

Analyze responses

Select vendor

Audit selected vendor to assure compliance with FTA, FDOT and County requirements, including Rule 1490

Execute agreement with vendor

Prepare resolution adopting vendor's safety plan, complaint response plan, and other plans as required by FTA, FDOT, and County procedures.

plans as required by FTA, FDOT, and County procedures.

Establish evaluation & monitoring and complaint & customer satisfaction tracking systems.

Execute Interlocal Agreement with Miami-Dade County

Review existing Interlocal Agreements between Municipalities and Miami-Dade County

Modify Interlocal Agreement as necessary to reflect requirements of North Miami and provide copies to Miami-Dade Transit Agency

Obtain City Council approval and execute Interlocal Agreement

Obtain County Commission approval and County Manager's signature, executing Agreement

PHASE 3

Begin service

Initiate monitoring, evaluation and complaint/customer satisfaction activities

Review tools used by other municipal and regional transit providers

Adapt tools as appropriate

Review with funding source(s) to assure all necessary information provided

Train staff/vendor employees to use tools

Begin monitoring, evaluation and complaint/customer satisfaction activities

Evaluate ridership and determine fare(s) to be charged (if any)

Finalize fare collection policy if necessary

Begin collection of fares

Obtain alternative funding for acquisition of vehicles and operation of service

Research possible public and private funding sources, and apply for funds as opportunities are identified

Prepare and submit request to County for operating monies to fund circulators Prepare and submit request to County for capital funds to acquire alternative fuel vehicles

Acquire alternative fuel vehicles and provide to vendor

Develop specifications for acquisition of alternative fuel vehicles Issue RFP/RFB Review responses and select vendor

Determine final specifications and details for vehicle construction

Final inspection & receipt of vehicles

Place vehicles into operation

Coordinate with other entities providing municipal, circulator and regional transit services

8. **EUNDING STRATEGY**

The 2000 MPO Municipal Grant Program has provided funding for technical assistance during the implementation phase of this project. The City's FY 2000 Operating Budget includes an appropriation for marketing and operating the service through September 30, 2000

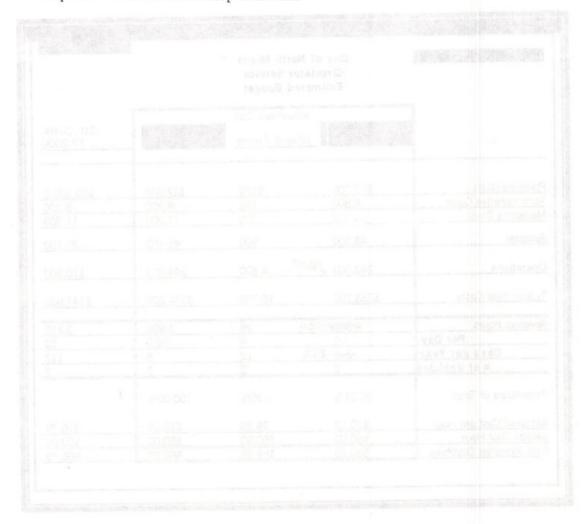
The preliminary budget for first year service appears in Table 8-1. Budget assumptions include:

➤ Technical assistance during the implementation phase will be provided through consultants and in-house staff.

	Circ	of North Miami ulator Service mated Budget		
		F-1 0 -1		
		Special Events		Est. Costs FY 2000
Planning Costs	\$27,000	\$500	\$27,500	\$20,600.0
Administrative Costs	6,800	100	6,900	5,200
Marketing Costs	14,700	300	15,000	11,300
Subtotal	48,500	900	49,400	37,100
Operations	240,000	256,000 4,800	244,800	110,500
Typical Year Costs	\$288,500	\$5,700	\$294,200	\$147,600
Revenue Hours	4,800	5720 96	4,896	2,210
Per Day	10	4	10.0	10
Days per Year	240 2	256 12	5	112
# of Vehicles	2	2	2	2
Percentage of Total	98.04%	1.96%	100.00%	
Allocated Cost per Hour	\$10.10	\$9.38	\$10.09	\$16.79
Vehide Cost/Hour	\$50.00	\$50.00	\$50.00	\$50.00
Fully Allocated Cost/hour	\$60.10	\$59.38	\$60.09	\$66.79

The City plans to a private transit operator, which will provide vehicles and drivers. The cost per hour for an alternatively fueled minibus is estimated at \$50. The City estimates that it will operate the vehicles 10 hours a day, 5 days a week. Additionally, the City may use the vehicles for several special events during the year.

The City is seeking funding for the program startup and is requesting funds from Miami-Dade County to offset FY 2000 operating and marketing costs. During the next year, the City will seek public and private grant funds for acquisition of alternatively fueled vehicles. During the second year of services, the City may explore the feasibility of private-public partnerships to operate and market routes, and to acquire and maintain bus stop amenities.





APPENDIX A:

CITY OF NORTH MIAMI CIRCULATOR STUDY AREA

North Miami Transit Circulator Study

Appendix A

City of North Miami - Transiit Circulator Study Area

APPENDIX B MDTA METROBUS ON-BOARD AND TELEPHONE SURVEY INSTRUMENTS

NORTHEAST DADE - MDTA RIDER SURVEY

Where did you start this trip? (checkHomeSchoolShoppi WorkMedicalOther_	
What is the location of the place th	
(Address, Bo	uilding or nearest street intersection)
Where did you get on this bus?	
Streets	that intersect nearest the bus stop)
114	
How did you get to the bus stop wh	nere you got on this bus? (check only one)
Walked 0-3 blocks	Was dropped off
Walked more than 3 blocks	Transferred from Metrorail
	Transferred from Metromover
Transferred from Tri-Rail	Transferred from Metrobus
Other	(from Route #)
Where will you get off this bus?	
Where will you got on <u>time</u> was	&
(Streets	that intersect nearest the bus stop)
What will you do when you get off	this bus? (check only one)
Walk 0-3 blocks	Be picked up
	Transfer to Metrorail
	Transfer to Metromover
Transfer to Tri-Rail	Transfer to another Metrobus
	(to Route #)
We way sains to now2/about	contranal
Where are you going to now?(check HomeSchool	Shopping/Errands
WorkMedical	Other
Workwedicar	
What is the location of the place th	nat you are going to?
(Address, E	Building or nearest street intersection)
How many one-way bus trips do v	ou take in a typical week? (check only one)
	_11-1515+
What day of the week do you ride:	? (check only one)

Do you l If yes, pl	nave any physical difficulty g ease describe briefly:	etting to,	getting on, or getting the bus?Yesh
Jitne		inium shu	tle
Of the fo		ovements	check what you feel is most important in
a)	Shorter walk to bus stop, or More frequent bus service	i) <u> </u>	More evening service, or More weekend service
b)	Regular size MDTA buses, or Smaller MDTA buses	i) <u> </u>	Telephones at bus stops, or Schedules posted at bus stops
	Faster bus service, or More bus stops along routes	k)	Bus service closer to my home, or Express bus service in my area
	More information at bus stops, or Better lighting at stops	n <u> </u>	Direct service to Metrorail, or Shuttle bus service to shopping malls
	More bus shelters at stops, or Benches at all bus stops	m) <u> </u>	Regular size MDTA buses, or Very long MDTA buses with more seats
	Allowing transfer from jitneys, or Less jitneys on the street	n)	More rush hour bus service, or Direct service with less transferring
g) <u> </u>	Better signage on buses, or Cleaner buses	o) <u> </u>	Bus service to other places, or More frequent weekend service
h)	Direct service with no transferring or Neighborhood shuttle routes	p)	Shuttle routes servicing my neighborhood County bus system serving my neighborhood
Which of		eive as the	biggest concern with MDTA service?
=	Total travel time Driver courtesy Security	Availabilit Fare Bus break	y of information
=	Doesn't go where you want Other:	•	
Your ag	<u> </u>	15 years o 16-19 year 20-29 year	50-59 years

Thank you for your cooperation. Please return the completed survey to the surveyor on the bus.

NORTHEAST DADE - ENCUESTA PARA PASAJEROS DEL MDTA

MDTA esta constantemente tratando de mejorar el servicio para los pasajeros de autobús. Por favor tome unos minutos para completar esta encuesta y devuélvala al encuestador en el autobús.
1. Donde comenzó usted este viaje o recorrido? (marque solo una)
Casa Escuela Compras/Diligencias Trabajo Medico Otro
2. Cual es la localidad del lugar de donde usted viene?
dirección, edificio o interseccion mas cercana
3. Donde subio usted este autobus?
calles que mas cerca intersectan la parada
4. Como llego a la parada donde subio al autobus? (marque solo una)
Caminé 0–3 cuadras Caminé mas de 3 cuadras Cuiélestacione Me trajéron Transferi del Metrorail Transferi del Metromover
Guié/estacioné Transferi del Metromover Transferi del Metrobus Otro (de la Ruta #)
5. Donde se bajará usted de este autobús?
calles mas cercanas que intersectan la parada
6. Que hara usted cuanto se baje de este autobus? (marque solo una)
Caminar de 0-3 cuadras Caminar mas de 3 cuadras Trasferir al Tri-Rial Transferir al Metromover Transferir a otro autobus (a la Ruta #)
7. Adonde va ahora? (marque solo una)
Casa Escuela Compras/Diligencias Trabajo Medico Otro
8. Cual es la localidad del lugar donde va?
dirección, edificio o intersección mas cercana
9. Cuantos viajes "de ida" hace usted en autobús en una semana fipica? (marque solo una)1-56-1011-1515+
10. Cuando viaja usted? (marque solo una) Dia de semana Dia de semana y fin de semana
11. Viaja usted típicamente durante: (marque el período de tiempo que viaja con mas frecuencia) Antes de las 6:00 am 6:00 am –9:00 am & 3:00 pm –6:00 pm 9:00am –3:00 pm Después de las 6:00 pm

12. Tiene usted algun impedimento fisico que leSiNo Si marca "Si", por favor expli	ique brevemente:
13. Ha usado usted los siguientes en los últimos Pequeno autobus colectivo Servicio Esp Autobus de enlace de Condominio (Shuttle)	s seis meses? (marque solo una) pecial de Transporte (STS)
14. De los siguientes pares de "mejoras para el importante:	servicio", marque el que usted considere mas
a) Caminatas mas cortas hacia la parada, o servicio de autobús mas frecuente	h)Mas servicios noctumos, o mas servicio en el fin de semana
b) Autobuses MDTA de tamaño regular, o autobuses MDTA mas pequeño	i)Teléfonos en las paradas, o itinerarios en las paradas
c)Servicio de autobus mas rápidos, o mas paradas en las rutas	j)Servicio de autobús mas cerca de mi casa, o servicio de autobús Expreso en mi area
d)Mas información en las parada, omejor alumbrado en las paradas	k) Servicio directo al Metrorail, o servicio de autobus de enlace a los Centros Comerciales
e) Mas amparo en las paradas, o bancos en todas las paradas	Autobuses MDTA de tamaño regular, o autobuses MDTA mas largas con mas asier
f) Permitir transferencias desde los pequeños omnibuses colectivos, o menos pequeño autobuses colectivos en las calles	m) Mas autobuses en las horas de mayor transito (Rush Hour), o servicio directo con menos transferencias
g) Mejor información de autobuses,o autobuses mas limpios	n) Servicio de autobus a otros lugares, o servicio mas frecuente en el fin de semana
15. Su edad es: (marque solo una) 15 anos o menor 16–19 anos 20–29 anos 30–39 anos	40–49 años 50–59 años 60–64 años 65 años o mayor
16. Su ingreso familiar anual es: (marque solo u Menos the \$10,000\$20,000 - \$ \$10,000 - \$14,000\$30,000 - \$ \$15,000 - \$19,000\$40,000 y m	29,000 39,000
17. Su origen étnico es: (marque solo una) HispanoAfricano—AmericanoOtro:	Blanco/No-Hispano
18. Tiene usted algún otro comentario?	

Gracias por su cooperacion. Por favor devuelva esta encuesta, ya completa, al encuestador en el autobus.

NORTHEAST DADE - MDTA RIDER SURVEY

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The state of

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1.

100

1

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· Acres

137

MDTA ap fè tout posib-li pou touttan amelyore sèvis transpòtasyon yo. Silvouplè, pran kèk minit, konplete envantè saa, retounen-la chofè bis-la. Ki kote pu te pran bis-la? (tcheke yonn sèlman) Lekòl Mache/Komisyon Lakay Lopital/Klinik Travay Lokalize kote ou soti-a? 2. (Adrès, kay oubyen lari pipre entèsesyon-an) 3. ² Ki kote ou te monte nan bis-la? (Lari ak entèsesyon pipre arè bis-la) Ki mwayen ou itilize pou ou rive nan arè bis-la? (tcheke yonn sèlman) 4. Mache 0-3 blok Yo te depoze-m Transfere de "Metrorail" Mache pliske 3 blòk Transfere de "Metromover" Kondui/Pake machin mwen Transfere de "Metrobus" Transfere de "Tri-Rail" (de wout #) Lòt Ki kote ou ap desann bis-la? 5. (Lari ak entèsesyon pipre arè bis-la) Ki sa ou ap fè lè-ou de sann bis-la? (tcheke yonn sèlman) 6. Pran woulib Mache de 0-3 blòk Transfere nan "Metrorail" Mache pliske 3 blòk Transfere nan "Metromover" Kondui machin mwen Transfere nan "Tri-Rail" Transfere nan lot "Metrobus" (a wout#) Lòt Ki kote ou prale kounye-a? (tcheke yonn sèlman) 7. Mache/Komisyon Lekòl Lakay Lopital/Klinik Travay 8. Ki kote ou prale la-a? (Adrès, kay oubyen lari pipre entèsesyon-an) Konbyen fwa nan semèn-lan ou pran bis-la sèlman pou mete-ou kote ou prale-a? (tcheke yonn sèlman) 9. 6-10 ___11-15 ___15+ 10. Ki jou nan semèn-lan ou pran bis? (tcheke yonn sèlman) Jou week-end Jou ouvrab ak week-end Jou ouvrab Lepli souvan, ou pran bis-la: (make lè ki pi enpòtan pou-ou pran bis-la) 11. ___6:00 am-9:00 am e 3:00 pm-6:00 pm 9:00am-3:00 pm Apre 6:00 pm

Si-ou konn pran nan twa sa yo? (tcheke kilès) JitneySTSNavèt kondominyo	òm ·
Pami amelyorasyon nan sèvis sa yo, tcheke pi en	
a) Rakousl distans pou rive nan bis-la, oubyen Pi gwo/gwòsè regilye, oubyen	h) Plis sèvis apre midi, oubyen Plis sèvis nan week-end
b) Pi gwo/gwòsè regilye, oubyen Pipiti bis	i) Telefòn nan arè bis yo, oubyen Poste orè nan arè bis yo
c) Bis k'ale pi vit, oubyen Plis arè sore wout-la	j) Plase sèvis bis toupre lakay mwen, oubye Express bis nan zòn mwen
d) Plis enfòmasyon nan arè yo, oubyen Plis limyè nan arè yo	k) Sèvis dirèk pou "Metrorail", oubyen Navèt sèvis nan "Shopping Mall" yo
e) Plis abri nan arè yo, oubyen Plis ban nan tout arè yo	Gwòsè regilye MDTA bis yo, oubyen Bis trè long ak plis ban
f) Pèmèt Jitney bay transfè, oubyen Mwens Jitney nan lari yo	m) Plis bis sèvis nan le trafik, oubyen Dirije sèvis-la ak mwens transfè
g) Mete plis siy nan bis yo, oubyen Mentni bis yo pi pwòp	n) Sèvis bis nan lòt andwa, oubyen Plis sèvis nan week-end yo
Laj-ou: (tcheke yonn sèlman) 15 an ou pipiti 16-19 an 20-29 an 30-39 an	40-49 an 50-59 an 60-64 an 65 an oubyen plizaje
\$10,000-\$14,000 \$30,000	-\$29,000 -\$39,000 ou plis
Orijin etik-ou: (tcheke yonn sèlman) Ispanik Afriken-Ameriken Ayisyen-Ameriken Lòt	Blan Non-Ispanik

.

Mèsi anpil pou kooperasyon-oul Retounen envantè sila-a bay chofè bis-la.

"CONSUMER TRANSIT SURVEY -NORTHEAST DADE TRANSIT IMPROVEMENT STUDY"

Time Started:
Type of Survey: Telephone Interview Note to Interviewer: The purpose of this survey is to provide the Metro-Dade Transit Agency with information that will improve public transportation service in Northeast Dade, generate more ridership and thereby reduce traffic congestion and improve the environment. All information from the survey will be used for statistical and planning purposes only.
Survey Script:
Hello, my name is with DataKey, a market research company located in North Miami. We are working with the Metro Dade Transit Agency (MDTA) to develop information that will improve transit service in the northeast portion of the County. We are speaking to people to ask them about their typical travel patterns and opinions about transportation. The information will help MDTA better plan for the future of the area. First of all, I need to speak with an adult 18 years of age or older who lives in this household. Would that be you?
Yes, continue
No, ask to speak with someone who qualifies. Repeat
If no one over 18 is in the household, thank the respondent and terminate.
First, we'd like to ask questions about your travel during the weekday. When we refer to your "typical" trip, we are talking about your travel to a daily destination, such as work or school.
1. What is the purpose of your typical weekday trip? WorkSchoolShoppingMedicalOther
What is the street address, or corner or building from which you begin this trip?
3. What is the street address, or corner or building at which you end this trip?

4.		day trip?
	Rail	_AutoMDTA BusOther (please define (i.e., walk, bicycle, carpool, Metro , Tri Rail)).
If t the	he re	sponse to the above is auto or other, go to question 5; if onse is bus, skip to question 6;
5.	Α.	How long does it take you to get to your destination (i.e., school or work) on your typical trip.
		minutes
	в.	Have you ever used Metrobus?
		If yes, why did you ride the bus?; how many times (once, once a month, more than once a month), would you consider riding Metrobus again?
		If no, please state the main reason you do not ride Metrobus.
		Are there other reasons? DO NOT READ RESPONSES, RECORD 1ST MENTION ONLY.
		<pre>I prefer driving my car I need my car during the day/at work Bus taken too long to get to destination/not frequent Inconvenient/doesn't run where I live or where I need to go. Not reliable/breaks down/poor air conditioning Safety on board/safety at stops Other (please specify)</pre>
		If you awoke tomorrow morning and found you had no choice but to take Metrobus to somewhere you'd never been before, how would you go about finding which bus to take?
		DO NOT READ RESPONSES, RECORD 1ST MENTION ONLY.
		Call transit information line Get a schedule/route map Go to a bus stop and wait Ask a friend or relative Ask a bus driver Other (PLEASE SPECIFY I don't know
	C	Now I would like to know what kind of this are

C. Now, I would like to know what kind of things Metro Dade Transit could do to encourage your use of the bus. We

are interested in learning what improvements might change your use of transit.

As I read each item, tell me yes or no if the item would cause you to think about riding the bus.

			Yes	No
	i.	There was a marketing program that helped you become familiar with the service available for your particular needs.		
	ii.	Buses ran more frequently.		
	iii.	There was greater security at bus transfer areas and in parking areas.		
	iv.	Fares were reduced by 50%.		
	v.	The wait time for transfers was reduced.		
	vi.	There was an express bus route available within 3 blocks of where you work.		
	vii.	There was an express bus from a park- ride lot near your home to the nearest rail station.		
	viii.	There was a park-and-ride lot near your home.		
	ix.	Buses started earlier and ran later.		
	x.	Buses arrived and departed on time.		
	xi.	Trains ran more frequently.		
	xii.	There were more shelters and benches at bus stops.		
	xiii.	Bus stops were cleaner.		
	xiv.	You could be assured a ride home if you worked later than usual or had an emergency while at work.		
	xv.	You did not have to transfer.		
D.	Foll tran	owing are some questions concerning y sportation activities:	your	daily
	i.	Do you pay for parking when you drive toYesNo	wor)	c?
	ii.	Would you consider taking the bus to were:cheaperfaster (Choose 1	work or bo	if it

	iii. Would you ride the bus if it were less expensive than parking? YesNo Why not?
	iv. Do you know the bus schedule in your area? YesNo Why not?
	v. Could you get the schedule easily?YesNo Why not?
	vi. Would you feel safe using public transit?YesNo Why not?
E.	Of the following items which would cause you to use public transportation,
	increased trafficYesNo increased parking feesYesNo gas prices increased to more thanYesNoNo
F.	If there was any one thing MDTA could do to encourage you to use transit on a daily basis, what would it be?
Following	the completion of this section, proceed to question 7.
6. A.	How many one-way bus trips do you take in a typical week?
	1-5 6-10 11-15 15+
В.	For the following questions, answer on the basis of the trip you use to get to your primary place of travel.
	i. What day of the week do you ride? (check one)
	WeekdayWeekend OnlyWeekday and Weekend
	<pre>ii. What route do you generally ride? (Fill in number, letter or name):</pre>
	iii. Do you transfer on your trip?YesNo
	To which route? (fill in number, letter or name)
	<pre>iv. Do you typically ride: (check time period of most rides) Early morning Midday Evening Morning rush hour Afternoon rush hour</pre>
c.	Do you have any physical difficulty getting to, getting on, or getting off the bus? Yes No
	If yes, please describe briefly:

		you used the following within the last six months? k as appropriate) JitneySTSCondominium shuttle
	to re	e following service improvements which we are going and to you, answer yes or no if they would represent inficant improvement to you when you ride the bus.
		Yes No
	i.	Shorter walk to bus stop
	ii.	More frequent bus service
	iii.	Faster bus service
	iv.	More bus stops along routes
	v.	More information at bus stops
	vi.	Better lighting at stops
	vii.	More bus shelters at stops
	viii.	Benches at all bus stops
	ix.	Better signage on buses
	x.	Cleaner buses
	xi.	More 'evening service
	xii.	More weekend service
	xiii.	Telephones at bus stops
	xiv.	Direct service to Metrorail
	xv.	Shuttle bus service to shopping malls
	xvi.	Regular size MDTA buses
	xvii.	Very long MDTA buses with more seats
	xviii.	More rush hour bus service
	xix.	Direct service with less transferring
7.	Your age	is: (check only one) 15 years or under40-49 years16-19 years50-59 years20-29 years60-64 years30-39 years65 years or older
8.	less \$10,	l annual household income is: (check only one) than \$10,000\$20,000 - \$29,000 000 - \$14,000\$30,000 - \$39,000 000 - \$19,000\$40,000 and over
9.	Hisp	ic origin is (check only one): anicAfrican-AmericanWhite/Non-Hispanic ian-AmericanOther:

omeone ob cor	ou very much. Those are all the questions I have from my office may call just to verify that I did rectly. May I just check the number I dialed. If you kee to talk with someone about this survey, please call
RECORD	TELEPHONE NUMBER)
	ou again.
-	
	CODE AFTER INTERVIEW
	GENDER: Male Female
	INTERVIEW ID#:
	REPLICATE#:
	SAMPLE PAGE #:
	TIME ENDED::
	LENGTH OF INTERVIEW: (in minutes)

10.

APPENDIX C: METROBUS RIDER SURVEY STATED TRIP CHARACTERISTICS

Trip Characteristics by Planning Sector, Results from 1993 Metrobus Rider Survey Table 4-2

	Raw %	Raw % Weighted %	PLANNING Raw %	PLANNING SECTOR 2 Raw % Weighted %	PLANNING Raw %	PLANNING SECTOR 3 Raw % Weighted %	PLANNING Raw %	PLANNING SECTOR 4 Raw % Weighted %	PLANNING Raw %	PLANNING SECTOR 5 Raw % Weighted %	PLANNING Raw %	PLANNING SECTOR 6 Raw % Weighted %	PLANNING Raw %	PLANNING SECTOR 7 Raw % Weighted %	CITY Raw %	CITY WIDE
Number of Responses	89	10%	147	17%	139	16%	30	84	216	25%	109	13%	126	15%	856	100%
Trip Type																
Home	43%	45%	48%	49%	4746	48%	45%	46%	43%	44%	46%	47%	48%	49%	46%	47%
School	486	496	696	909	246	203	304	30%	30%	31.48	124	120%	15%	1596	896	894
Medical	86	% 60	3%	2%	2%	2%	38,	2%	8 2	8	80	%	5%	2%	8	8-
Shopping	7%	7%	2%	965	7%	746	968	966	78	7%	7%	7%	3%	3%	969	96,99
Visit / Recreational	3%	3%	5%	2%	8	2	23%	596	338	88	8	84	33%	3%	3%	33%
Hotel	960	960	986	960	960	960	960	960	860	%	960	960	%0	960	960	960
Other	9690	969	969	986	969	2%	985	965	596	965	336	3%	596	965	286	286
Mode To / From Bus	8/6		800		444		986		404		48%		4/4		2//	
Walk 0 to 3 Blocks	80%	54%	48%	81%	51%	9858	43%	47%	49%	53%	42%	45%	45%	4996	4896	81%
Walk 3 or More Blocks	18%	1996	16%	17%	15%	16%	15%	16%	16%	17%	21%	22%	18%	19%	17%	18%
Bus Transfer	16%	17%	1996	21%	20%	21%	23%	25%	20%	32%	20%	21%	25%	27%	20%	22%
MetroRail	2%	2%	1%	36	3%	3%	885	2%	2%	5%	196	1%	5%	2%	5%	5%
MetroMover	8 8	86	8 8	86	8 8	8	86	%	96	960	86	%0	8	\$6	8	96
December 1	8 2	£ 8	96 8	8 8	8 8	8 3	8 %	86	86	**	8 3	8 3	86	8 8	8 2	86
Drove Self	2 3	8 8	96.5	8 8	19.1	P 70	R d	2 10	8 8	F 2	R 36	R at	2.49	P 2	P 26	7.49
Other	969	969	285	969	需	2 gg	2 26	8 %	386	336	\$ \$	86	386	396	8 8	3 4
	93%		93%		9656		97%		95%		93%		9696		9646	
Number of Transfers	2000	2000	2016	****		-				-	-		-		-	
None	3006	3730	3196	33%	31%	33%	27.8	29%	298	3196	25%	27%	24%	26%	29%	31%
. 2	20%	22%	14%	15%	961	20%	13%	14%	21%	22%	22%	24%	2396	25%	20%	2196
3 or More	8%	8%	986	*	*	*	13%	14%	876	966	896	*	10%	-18	%	10%
	9396		93%		9696		87%		94%	1	9656		9446		9446	
Transfer Attitude	700		700.9		-										-	
Not Bothered by Transfer	4.58	25%	47%	49%	25%	54%	47%	49%	58%	6196	40%	42%	20%	58%	51%	54%
Prefer Not To Make Any	2404	25%	2494	250%	2194	27%	138	28%	18%	129	2306	22%	1506	7 146	2006	2196
Will Not Transfer	969	969	296	286	35	796	30%	2 2	40%	404	504	26.50	266	286	200	306
	9696		9656		9446		9606		9656		9526		9626		9446	2
Bus Use Frequency																
5 or More Days / Week	82.49	72%	76%	82%	75%	9608	73%	79%	77%	82%	74%	80%	71%	77%	74%	90%
3 or 4 Days per Week	12%	13%	16%	178	15%	16%	13%	14%	13%	13%	10%	38	13%	14%	13%	14%
I or 2 Days per Week	10%	811	4%	4%	969	7%	3%	4%	969	969	8%	\$6	10%	11%	78	7%
Less than Once / week	93%	g.	9666	9.59	9666	£	3%	8	396	£.	9896	950	9996	£	3%	8
Dante Wishin Month Mismil Head																
Notice Within 1906 of Mildrin Osed	960		960		960		30%		260		185		960		5	
ım	43%	18	14%	1	27%		28.		456		136		498		13%	
6	\$60		496		8		27%		1996		396		960		7%	
01	2 7		960		4%		33%		10%		969		960		8	
10	8 78		256		£ 3		8 8		967		\$ 8		2 7 P		£ 25	
22	§ £		2 %		1 3		P 8		8 2		\$ 48 8 48		40%		2 2	
28	496		38		18		S SE		960		14%		78		498	
75	246		2996		10%		980		13%		16%		14%		14%	
77	960		7%		246		960		8		22%		28%		968	
Biscayne Max (93)	18%		2%		16%		980		8		8.		£6		23%	
X-56	8 :		8 8	Ī	8 :		86		8		%		8		8 7	
c	130%		200		200		8 8		g 75		8 8		200		e d	
,	88%		84%		89%		80%		70%		8596		80%		83%	

Trip Characteristics by Planning Sector, Results from 1993 Metrobus Rider Survey Table 4-2

	The state of the s	Colored Section	The state of the state of	CONTRACTOR SECTOR S	TOURING SECTOR 2	Jerion -	The state of the s	PLANNING SECTOR 4	CANNING	PLANNING SECTORS	PLANNING	PLANNING SECTOR 6	PLANNING	PLANNING SECTOR 7	S	CITY WIDE
CHARACTERISTICS	Raw %	Weighted %	Raw 96	Weighted %	Raw 96	Weighted %	Raw %	Weighted %	Raw 96	Weighted %	Raw %	Weighted %	Raw %	Weighted %	Raw %	Weighted %
Age	100	7000														
15 Years or Less	4%	296	3%	49%	2%	2%	10%	10%	965	965	9699	7%	4%	4%	496	2%
16 to 19 Years	12%	13%	12%	13%	16%	17%	20%	21%	17%	17%	20%	21%	18%	198	16%	17%
20 to 29 Years	25%	26%	34%	36%	30%	32%	17%	17%	28%	29%	32%	34%	34%	36%	30%	31%
30 to 39 Years	22%	24%	22%	24%	28%	29%	27%	28%	24%	25%	20%	21%	15%	16%	22%	23%
40 to 49 Years	15%	15%	15%	9691	17%	17%	10%	10%	14%	15%	10%	11%	12%	12%	14%	14%
50 to 59 Years	光	796	78	746	53%	296	38	746	8%	966	78	968	968	8%	7%	746
60 to 64 Years	3%	496	1%	1%	1%	2%	336	396	1%	82	2%	5%	4%	43%	2%	296
65 and Over	7%	796	3%	396	3%	3%	960	960	2%	5%	81	1%	4%	496	3%	3%
	9696		9686		9666		93%		9886		9666		9666		98%	
Sex																
Female	53%	9655	64%	67%	9609	96396	50%	52%	9665	62%	61%	64%	51%	53%	58%	6196
Male	44%	4696	35%	37%	35%	37%	40%	42%	36%	38%	36%	37%	38%	40%	37%	3996
	94.26		9666		95%		9606		9656		94.66		8996		95%	
Number in Household																
-	18%	1996	10%	10%	13%	14%	3%	33%	12%	13%	10%	11%	%	966	11%	1296
2	35%	36%	18%	1996	24%	26%	13%	14%	22%	23%	888	986	17%	17%	20%	21%
3	36	286	24%	25%	19%	20%	23%	24%	23%	24%	27%	28%	20%	21%	21%	22%
4	21%	22%	27%	28%	1996	20%	37%	38%	198	20%	23%	24%	21%	22%	22%	23%
5 or More	13%	14%	20%	21%	22%	23%	13%	14%	20%	21%	29%	31%	31%	32%	22%	23%
	94.26	1	9666		98%		9606		9696		97%		95.6		97%	
Vehicles in Household																
None	46%	48%	45%	47%	48%	9605	4096	42%	3996	41%	36%	37%	35%	37%	41%	43%
	35%	36%	37%	3996	30%	32%	40%	42%	39%	41%	34%	36%	41%	43%	37%	38%
2	13%	14%	10%	10%	14%	14%	10%	10%	13%	13%	21%	22%	15%	16%	14%	14%
3 or More	5%	546	969	9699	969	969	960	960	2%	5%	496	49%	4%	436	2%	246
	9626		9686		98%		9606		%56		9446		%56		9696	
Household Income	1	-		,		;	į			į		-	,	-	2006	2005
Under \$ 10,000	04.97	27.70	94.7	21.30	22.52	50%	33%	35%	24%	25%	3330	32%	30.5	37%	94.87	2,240
\$10,000 to \$14,999	15%	15%	18%	1996	21%	353%	13%	14%	18%	1986	17%	18%	178	1796	18%	986
\$15,000 to \$19,999	18%	1996	13%	14%	16%	17%	10%	10%	17%	18%	9601	11%	10%	10%	14%	15%
\$20,000 to \$29,999	10%	11%	12%	12%	12%	13%	13%	1496	\$	10%	13%	13%	15%	16%	12%	12%
\$30,000 to \$39,999	9%	968	7%	8%	8%	8%	9%0	960	10%	10%	2%	2%	7%	78	7.8	7%
Over \$40,000	746	736	969	969	969	969	7%	7%	446	44%	7%	968	496	436	5%	969
	85%		86%		88%		77%		82%		83%		83%		84%	

Trip Characteristics by Planning Sector, Results from 1993 Metrobus Rider Survey Table 4-2

TRANSIT TRIP	PLANNING SECTOR 1	SECTOR 1	PLANNING SECTOR 2	SECTOR 2	PLANNING SECTOR 3	SECTOR 3	PLANNING SECTOR 4	SECTOR 4	PLANNING SECTOR 5	SECTOR 5	PLANNING SECTOR 6	SECTOR 6	PLANNING SECTOR 7	SECTOR 7	CITY	CITY WIDE
DISTRIBUTION	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Number of Responses	89	10%	147	17%	139	16%	30	4%	216	25%	109	13%	126	15%	856	100%
I Response per TAZ per Planning Sector	ector															
	TAZ 43	5%	TAZ 340	35%	TAZ 45	26%	TAZ 338	48%	TAZ 337	21%	TAZ 335	26%	TAZ 302	41%		
	TAZ 44	16%	TAZ 341	23%	TAZ 46	811	TAZ 339	52%	TAZ 345	26%	TAZ 336	5%	TAZ 303	22%		
	TAZ 47	47%	TAZ 342	16%	TAZ 344	22%			TAZ 346	14%	TAZ 349	25%	TAZ 304	1996		
	TAZ 365	25%	TAZ 343	26%	TAZ 363	23%			TAZ 347	15%	TAZ 350	23%	TAZ 305	18%		
	TAZ 366	11%		1.000	TAZ 364	1996			TAZ 348	14%	TAZ 351	21%				
						50500			TAZ 352	178						
	Sum	100%	Sum	100%	Sum	100%	Sum	100%	Sum	100%	Sum	1000%	Sum	96001		
Response per TAZ within City																
	TAZ 43	0.2%	TAZ 340	5.9%	TAZ 45	4.1%	TAZ 338	1.7%	TAZ 337	5.3%	TAZ 335	3.3%	TAZ 302	6.1%		
	TAZ 44	1.6%	TAZ 341	3.9%	TAZ 46	1.8%	TAZ 339	1,8%	TAZ 345	6.5%	TAZ 336	9690	TAZ 303	3.2%		
	TAZ 47	4.8%	TAZ 342	2.8%	TAZ 344	3.6%	No. of Contract of		TAZ 346	3.4%	TAZ 349	3.1%	TAZ 304	2.7%		
	TAZ 365	2.6%	TAZ 343	4.5%	TAZ 363	3.7%			TAZ 347	3.7%	TAZ 350	3.0%	TAZ 305	2.7%		
***	TAZ 366	1.1%			TAZ 364	3.0%			TAZ 348	3.6%	TAZ 351	2.7%				
	0.000							-	TAZ 352	2.7%						
	Sum	10%	Sum	17%	Sum	16%	Sum	40%	Sum	25%	Sum	13%	Sum	15%		

APPENDIX D: METROBUS RIDER SURVEY STATED TRIP CHARACTERISTICS AND PREFERENCES

All Mode Trip Characteristics and Preferences, Results from 1994 N.E. Dade Transit Improvement Study Table 4-3

From Northeast Dade Transit Improvement Study, 1994 Month March Cobsess Takebooks Consess Day of	Interes	Auto	uto and	Auto and Other Modes	her Modes	1			MDTA Bus	Bus			All A	All Respondents	lents
Allof North Marri Bicame Park part of Ricame Cardens	Wr Coun Percent	Perrent	Rank	Rank Ith Coun Percent	Portont	Pant	The Court Parents	-		LACCOUR BOTTON		rips	117	All rip U/D rairs	Pairs
Trip Purpose					1	William	500		NOTIN	in a		Marin	N COOK		
Work	8,098	36%	2	9,732	84%	-	3,852	4996	-	432	100%	-	22,114	52%	-
School	662	3%	m	133	1%	4	621	968	ж	0	960	2	1,416	3%	m
Shopping	13,846	9619	-	1,470	1396	2	3,210	41%	7	0	960	7	18,526	43%	2
Medical	0	960	5	0	960	'n	218	396	4	0	960	7	218	1%	5
Other	137	28	4	219	2%	m	0	960	2	0	960	7	356	1%	4
Transportation Mode															
Auto	22,285	9686	1	10,805	9626	1	0	960	2	0	960	2	33.090	78%	1
MDTA Bus	0	960	m	0	960	m	7,902	100%	-	432	100%	-	8.334	2096	. 2
Other	457	2%	2	388	3%	7	0	960	7	0	960	7	845	2%	m
AUTO and OTHER MODE RESPONSES															
Trip Time		Ũ	Cumulative	u	U	Cumulative	9								Cumulative
5 Minutes	5,772	25%	25%	129	196	196	Z	,		N.A			5,901	18%	18%
10 Minutes	11,189	45%	75%	882	968	1096	Z A		,	N.A.			12,071	36%	54%
12 Minutes	0	960	75%	0	960	10%	Z A			Z,			0	960	54%
15 Minutes	196	496	20%	1,891	18%	27%	Z A			Z A			2,852	966	9689
20 Minutes	3,658	16%	95%	2,869	27%	55%	ZA			N.A.			6,527	20%	82%
25 Minutes	439	2%	97%	1,348	13%	67%	Z Y			Z A			1,787	236	87%
30 Minutes	441	236	9666	1,747	17%	84%	Y :		,	Y Y			2,188	7%	94%
40 Minutes	0 0	86	9666	104	646	88%	Z S			Z :			401	26	95%
45 Minutes	65	960	100%	265	3 %	970%	2 2			Z Z			330	£ 5	9/40
50 Minutes	0	960	10096	200	79%	9496	Z Z			Z Z			2002	10%	9806
60 Minutes	0	960	100%	417	496	9686	ž	0.0		ž			417	1961	9666
75 Minutes	0	960	100%	218	23%	96001	N.A.			N.A.		,	218	196	100%
Have You Ever Used the Bus													Average Trip Time	o Time =	91
Yes	11,106	50%	-	4 245	3996	2	A	,		A		,	15 351	4696	2
No	11,049	50%	7	6,780	61%	-	Y Y	э		Y Y			17,829	54%	-
If Yes. How Many Times		ũ	- Cumulative		C	Cumulative	4								Commitation
Once	2,291	20%	20%	2,319	55%	55%	XX			NA		,	4,610	3096	30%
Once per Month	842	796	28%	219	596	9609	X			X		,	1001	796	3796
More than Once per Month	8,142	72%	100%	1,706	4096	100%	N.		٠	Y Y			9,848	9689	10096
Would You Use the Bus Again															
Yes	6,295	64%	-	2,695	75%	1	X			NA			8,990	9629	-
No	3,589	36%	7	893	25%	7	X.			Z Z			4,482	33%	2
Why You Do Not Use the Bus			91												
Prefer to Drive My Car	12,473	11%	-			######	Z	٠		NA			12,473	71%	-
Need my Car During the Day or at work	2,842	16%				*****	N. A.			Z'A		2	2,842	16%	2
Bus takes Too Long	909	3%		missing	****	******	Z Z		٠	NA		8	909	3%	4
Bus Stops / Routes are Inconvenient	1,305	7%		missing		****	NA	ř		N.A.			1,305	200	m
Bus is Not Reliable / Poor Comfort	222	36	s			*****	Z		•	Z'A			222	196	ın
Safety On Board and at Stops	0	960		missing		*****	Z		•	Z Z		•	0	960	7
Other	219	196		missing	*****	***	N.A.			N.A.		,	219	196	9

Table 4-3 All Mode Trip Characteristics and Preferences, Results from 1994 N.E. Dade Transit Improvement Study

From Northeast Dade Transit Improvement Study, 1994	- Infari	Auto	uto an	Auto an Other Modes	odes				MDTA Bus	Bus			N .	All Respondents	ents
worst mostly Statemen Telephothe Survey Results All of North Milami, Biscayne Park, part of Biscayne Gardens	WtCoun Percent	Percent	×	Wt.Coun Percent	Coun Percent Ran	Rank	Mt.Coun Percent	Coun Percent Ran	×	Wt.Coun Percent	External NED Trips Coun Percent Ran	Rank	Wt.Count	All Trip O/D Pairs unt Percent R	Pairs Rank
	_ ;														
Eamiliarity Program	de me bu	,	•			********									,
Yes	0 400	4007	7			#N/A				:					4
0 2	13016	4530		missing			¥ 5			Z Z			14,139	42%	
Diese Gran More Cracing	000	202		Phissing	****		Z.	٠		Z			19,392	28%	0
passa rati more riequently	0,70	***	-			#N/A	100								-
. T	10,268	46%		missing	****		N.A.	•	٠	N.A.		¥.	15,298	46%	
Š	12,238	54%		missing	****		NA			NA			18,233	54%	
Greater Security			10			#N/A									7
Yes	6,007	40%		missing	######		NA			N N			13.419	4096	
No	13,499	9609		missing	######		N N			Z			20 117	6096	
Fares Reduced by 50%			9	1		#N/A							1	9	0
Yes	8,857	3996		missing	*****		AN	•	3	A	,		13 196	3006	
No	13,649	6196		missing	****		X			Z			20 335	6196	
Reduce Wait for Transfers			01	1		#N/A									12
Yes	8,331	37%		missing	*****		N N			N N	,		17417	3796	!
No	14.175	63%		missing	*****		A			A N			21 110	4304	
Route Within 3 Blocks of Home / Work			11	n		#N/A								200	u
Yes	7,906	35%		6.231	5746		AN			A			14 137	4794	1
No	14,600	65%		4 793	4306		AN			A N			10 202	5896	
Express Bus from Convenient Park&Ride			14			#N/A			0				676,71	200	14
Yes	6.939	3196		1773	16%		AN			AN		,	2 6 6 7	24.04	
No	15,567	9669		9,302	84%		X			Y X			24 869	74%	
Park & Ride Lot Near Home			12			#N/A									13
Yes	7,862	35%		4,281	3996		N.A.		,	N.A.		i	12,143	36%	
No	14,643	9659		6,744	6196		NA	ř		N.A.		i	21,387	6496	
Longer Hours of Bus Operation			7			#N/A									89
Yes	8,742	3996		4,544	4196		N.A.		į.	N.A.		·	13,286	4096	
No	13,782	61%		6,480	9665		NA			N.A.	<u>*</u>	¥	20,262	9609	
Better On Time Reliability			4			#N/A									m
Yes	9,143	41%		5,422	4996		NA		10	N.A.	85		14,565	43%	
No	13,363	29%		5,603	51%		N.A.		į.	N.A.	51	i	18,966	57%	
More Frequent Trains			15			#N/A									15
Yes	6,300	28%		1,856	1796		N.A.	•		N.A	•		8,156	24%	
	16,206	72%		9,169	8396		N.A.	٠		NA	•		25,375	76%	
More Shelters and Benches at Bus Stops			m			#N/A									9
Yes	9,208	41%		4,370	4004		NA.	•		NA	9		13,578	40%	
No	13,297	29%		6,655	9609		N.A.			NA	**		19,952	9609	
Cleaner Bus Stops			6			#N/A									11
Yes	8,617	38%		3,803	34%		NA			NA	20		12,420	37%	
No	13,889	9629		7,222	9699		N.A.			Z	•		21,111	9689	
Assured Ride Home Program			13			#N/A									0
Yes	7,754	34%		5,212	47%		NA			Z	•		12,966	3668	
No	14,752	9699		5,813	53%		NA	·	i.	Z	•		20,565	6196	
Do Not Have to Transfer			80			#N/A									7
res	8,681	39%		6,167	26%		NA			N N			14,848	44%	
CN	13875	9619		4.858	44%		N. N.			N N			18 683	5404	

All Mode Trip Characteristics and Preferences, Results from 1994 N.E. Dade Transit Improvement Study Table 4-3

From Northeast Dade Transit Improvement Study, 1994 North Mani Cabana Talanbora E. Colfored Canada Decele	Intere	Auto	uto and	Auto and Other Modes	her Modes	1	-	TOM CONTRACT	MDTA Bus	Bus	S Control of the Cont	, in	IIV	All Respondents	lents
All of North Mamil, Biscayne Park, part of Biscayne Gardens	Wt.Coun Percent	Percent	×	Wt.Coun Percent	Percent	Rank	Wt.Coun Percent	Percent		Rank Wt.Coun Percent Rank	Percent	Rank	Wt.Count	unt Percent R	Rank
BUS RIDER RESPONSES How Many Bus Trips Do You Take Per Week									Cumulative			Cumulative	9		Cumulative
1 to 5	N.A.			N.A.			6.137	78%	10096	505	37%	10096	6.642	72%	10096
6 to 10	N.	,		N.		٠	1,326	1796	2296	637	47%	63%	1,963	21%	28%
11 to 15	N.A.		,	Y Y	×		439	969	969	218	16%	16%	657	7%	7%
Over 15	Z.			N.A.	٠	٠	0	960	960	0	960	960	0	960	960
What Day of the Week Do You Ride															
	Z.			N.A.	·	•	4,729	9609	-	722	53%	-	5,451	59%	-
Weekends	N.A.			N.A.	e		1,678	21%	7	0	960	m	1,678	18%	m
Both Weekdays and Weekends	NA.	٠		N.A.		٠	1,496	19%	m	638	47%	2	2,134	23%	2
When Do You Ride															
Early Morning	N.A.		í	N.A.			4,917	6196	-	876	64%	-	5,793	61%	-
Midday	N.A.			N.A.	•		2,544	31%	7	420	31%	7	2,964	31%	7
Evening	N.A.	r		N.A.	•	٠	441	2%	m	65	5%	m	506	5%	m
Morning Rush Hour	N.A.			N.A.		٠	221	366	4	0	960	4	221	2%	4
Afternoon Rush Hour	N.A.			N.A.	٠	•	0	960	S	0	960	4	0	960	'n
Do You Transfer on the Trip															
Yes	NA		,	N.A.		•	1,527	2096	7	218	16%	7	1,745	1996	2
No	NA			N.A.	E		6,155	9608	-	1,142	84%	+	7,297	81%	-
Have You Used within the past 6 Months															
Jitney	237	96001		0	960		443	100%		219	100%		899	84%	
STS	0	960		169	100%		0	960		0	960		169	16%	
Condominium Shuttle	0	%0		0	%		0	960		0	960		0	960	
From NE Dade Transit Improvement Sludy On-Board Survey, 19	1994 - 0.15												ŀ		
Biggest Concern with MDTA Service															
Total Travel Time	N.A.	×		N.A.	•	,	509	27%	-	518	23%	-	1,027	25%	-
Driver Courtesy	N.A.			N.A.			344	18%	7	383	17%	7	727	18%	7
Security	NA			N.A.			211	1196	2	321	1496	m	532	1396	m
Doesn't Go Where You Want	N.A.			Z Y	,	,	239	13%	m	256	1196	4	495	12%	4
Availability of Information	N.A.	×		Z A			222	12%	4	152	796	7	374	966	7
Fare	Z.A			Z Z	•	•	172	966	9	225	10%	9	397	10%	9
Bus Breakdown	N.A.			NA.			144	3%	7	255	1.3	2	399	10%	2
Other	NA.			N.A.			19	196	89	139	969	89	158	466	8

Table 4-3

All Mode Trip Characteristics and Preferences, Results from 1994 N.E. Dade Transit Improvement Study

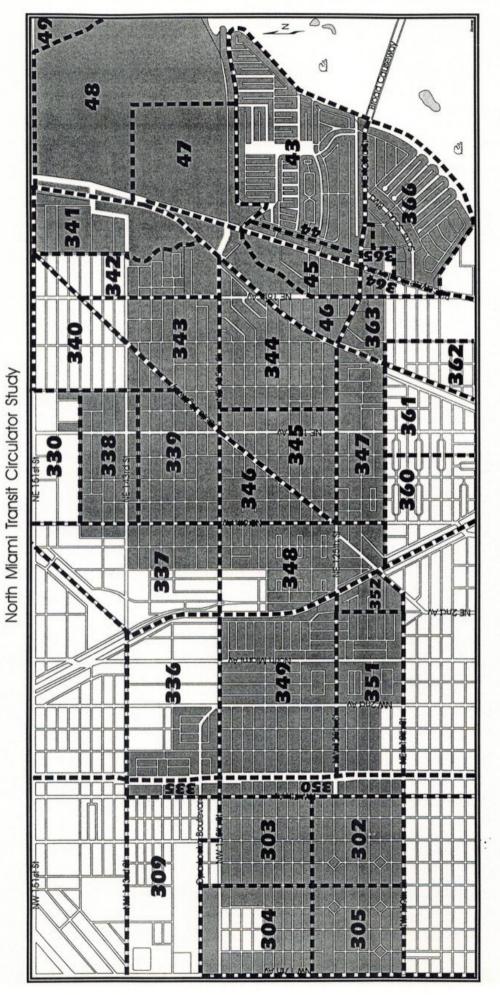
From Northeast Dade Transit Improvement Study, 1994		Auto an	Auto and Other Modes	odes				MOL	MDTA Bus			2	All Respondents	sents
North Martii Subarea Telephone Survey Results All of North Martii, Biscayne Park, part of Biscayne Gardens	Wt.Coun Percent Ran	_	Rank Wt.Coun Percent			Mr Coun Percent	Internal NED Trips	Rank	3	External NED Trips	Trips	Wr Count	All Trip O/D Pairs	Pairs
Which Improvements are Important					$\overline{}$		1000	Marian		1000	New In	1000	1000	1
Shorter Walk to Stop		-			-			19			4			19
. N	237 100%		691	100%		4,288	2996		1,142	-		5,836	6496	
More Frequent Service		-	•	Š	19	3,00,0	5	L.	218	10%0	-	3,222	30%	9
Yes	-		0	960		6,655	816	i.	1,360	-		8,252	91%	
Faster Bus Service	960 0		169	100%	-	637	966		0	960		806	966	,
. Yes	737 10006	-	140	10006	-	7 7 6 6	791.0	n	0761	10004	-	1640	7000	7
200			60	086		637	000		005,1	96,90		6,421	79%	
More Bus Stops Along Routes		-	•	200	-	100	270	-	•	6	m	(50	04/	-
Yes	237 100%		169	100%		6,873	9446		1,295	956	1	8.574	9536	
No	960 0		0	960		419	969		65	5%		484	5%	
More Information at Stops		-			-			8			6			11
Yes	-		169	100%		6,285	9698		959			7,349	81%	
NO NO STATE OF STATE	%0 0		0	960		1,007	14%		702	25%	(1,709	1996	
better Lighting at stops	337 10006	-	27.	1000	-	,,,,,	7000	-		7000	00	27.5	200	0
20 0			69	500		0,000	1704		1,0,1	25.0		7,549	3340	
More Shelters at Bus Stops		1)	2	-	1,440	04.71	7	507	0417	4	100'	04/1	m
Yes	-		169	10096		6,872	9446		1,142	84%		8,420	93%	V.
No.	960 0		0	960))	420	969		218			638	796	
Benches at All Bus Stops		-						7	The state of the s		4			m
Yes			691	96001		6,872	9446		1,142	84%		8,420	93%	
Better Signage on Buses	265		0	960		420	969		218	16%		638	136	
Yes	237 100%		169	10096		5 447	7506	2	440	3796	11	6 703	4004	1
No			0	960		1,845	25%		920	9689		2,765	31%	
Cleaner Buses		-			-			12			6			14
Yes	237 100%		169	100%		5,798	80%		658			6,862	76%	
More Evening Service		-	>	5	ं	464	20%	2	70/	25%	4	7,176	74%	12
Yes	237 100%		169	10096		5,648	77%	Y	1,142	84%		7,196	2006	
No	960 0		0	960	-	1,644	23%		218			1,862	21%	
More Weekend Service		-			-	-		6			*****	1	-	80
D 8	237 100%		691	100%		6,221	35%		prissim	*******		1,787	36%	
Telephones at Bus Stops		-	>	200	-	10,	2.50	16	STREET,	*****	*****		1430	15
Yes			169	100%	9	5,382	74%	Ē	missing	######			75%	
No	960 0		0	960		1,909	26%		missing	***		2,265	25%	
Direct service to interfoldiii	727 10006	-	140	10000	-	201	7012	11	a distinct	********	######	7 5 5 5 7	7306	16
2 0			0	086		2,109	200%		missing	*****		2 502	28%	
Shuttle Bus Service to Shopping Malls		-			-			4	1		****			Ŋ
Yes	237 100%		169	96001		6,673	92%		missing	*****		8,324	92%	
Regular Size MDTA Buses	85		>	5	-	619	240	o.	missing	######	*****	/34	200	13
Yes	237 100%		169	96001		4.877	67%	2	missing	*****		6.193	9689	2
No	960 0		0	960		2,414	33%		missing	######			32%	
Long MDTA Buses with More Seats		-						4			######			13
. S	237 100%		169	100%		5,579	77%		guissim	*****		7,026	78%	100
More Rush Hour Bus Service		1	0	200	-	2111	4370	10	Sinconn		****	4,032	6.670	6
Yes			169	100%		6,084	83%		missing	*****		7,625	84%	
No Direct Comittee with Lage Transfers	960 0		0	960		1,208	17%	r	missing	***		1,433	16%	r
Yes	737 100%	-	160	100%	-	6.452	9000		missing	*****	****	2 0 6 2	9008	,
112			2	Ode		מבמים	1146		Discisor H	******		994	114	

All Mode Trip Characteristics and Preferences, Results from 1994 N.E. Dade Transit Improvement Study Table 4-3

forn Northeast Dade Transit Improvement Study, 1994		•	Auto and	Auto an Other Modes	odes				MDTA Bus	Bus			All	All Respondents	dents
North Manni Subarea Telephone Survey Results	Interr	Internal NED Trips	Trips	Extern	External NED Trips	Trips	Interi	Internal NED Trips	Trips	Exter	External NED Trips	Trips	All	All Trio O/D Pairs	Paire
All of North Mianii, Biscayne Park, part of Biscayne Gardens	WtCoun Percent Rank WtCoun Percent	Percent	Rank	WtCoun	Percent	Rank	WtCoun Percent	Percent		WtCour	Rank Wt.Coun Percent	Rank	Wt.Count	Percent	t Cumulative
RESPONDENT CHARACTERISTICS															
-de		U	Cumulative	. 64	J	Cumulative	_ 94	0	Cumulative	- 9	Ü	- Cumulative	_ 4		= aviteliumi)
15 Years or Less	0	960	960	0	960	960	0	960	960	missing	****	*****	1_	900	700
16 to 19 Years	439	296	362	65	136	196	1.083	1596	1596	missing		******	1 20	966	200
20 to 29 Years	3,457	16%	17%	1.297	1296	1306	877	1 706	2704	2	*******	******	100,1	264	944
30 to 39 Years	3,186	1496	32%	3 0 7 0	2896	4106	1750	2406	5.104	Pinesim	100		150,0	14%	1840
40 to 49 Years	4,228	1996	51%	2389	2206	6396	1556	2106	7704	Princeim	= =	*******	0,010	2007	38%
50 to 59 Years	2,604	12%	62%	1.240	1 196	7496	827	1196	8204	The state of	353	*******	0,173	200	9690
60 to 64 Years	1,398	969	9669	620	949	80%	169	794	8596	missing		******	1,0,4	967	0740
65 and Over	6,989	31%	100%	2,158	20%	10096	1,073	15%	100%		****	****	10,220	25%	100%
Gender															
Female	16,596	74%		6.547	9609		5 642	75%		miceina	******		207.05	1005	
Male	5,978	26%		4,344	40%		1.922	25%		missing			17 744	306	
										1			474		
Ethnic Origin															
Hispanic	3,104	14%		1,796	16%		1,200	16%		missing	******		4 100	1506	
African American	1,407	969		838	796		1.661	22%		missing			2006	900	
White / Non-Hispanic	15,768	20%		6.582	59%		2.984	3996		missing			25 324	4104	
Haitian - American	1,184	236		1,913	1796		1,431	1996		missing	*****		4578	1106	
Other	1,058	5%		65	8		406	5%		missing	######		1,529	496	
Household Income		Ü	- Cumulative		Ü	- Cumulative		Ü	- Cumulative		C	- Cumulative			- 1
Under \$10,000	868	969	969	133	296	296	675	11%	1196	missing	· · · · · · · · · · · · · · · · · · ·	*****	1 706	404	YOU YOU
\$10,000 to \$14,999	3,628	24%	30%	509	796	966	2.524	42%	5496	missing	*****	*****	4.441	2406	200
\$15,000 to \$19,999	4,267	2996	2996	689	10%	1996	1912	3206	8696	missing	*******	*****	4 849	2504	2039
\$20,000 to \$29,999	2,200	15%	74%	1,047	15%	33%	609	10%	9696	missing		*****	3,856	1406	4004
\$30,000 to \$39,999	1,363	966	83%	1,225	17%	51%	0	960	9696	missing		*****	2,000	004	2004
Over \$40,000	2503	1796	10006	25.18	400%	10096	222	496					4,200	244	260/

APPENDIX E: CITY OF NORTH MIAMI TRANSPORTATION ANALYSIS ZONES (TAZ)

City of North Miami Transportation Analysis Zones (TAZ) (MUATS Model) Appendix E



APPENDIX F: JOHNSON & WALES UNIVERSITY SURVEY

North Miami Community Transit Circulator Study Survey

This survey is being taken to help the City of North Miami improve transit within the City, and consider the feasibility of developing a public community minibus service. Your help is important to use, and greatly appreciated. Please fill in all questions.

Your	current address:				
1	Would you use a Ci		transit minibus to t	ravel to destinations	Yeso No o
2	If a minibus were av	ailable, would you	use it to get to and	d from classes if you	
		arrived before clas	ss:	had to wait after	class:
	30 - 45 minutes	Yes o	No o	Yeso	No o
	15 - 20 minutes	Yes o	No o	Yeso	No o
	5 - 10 minutes	Yes o	No o	Yeso	No o
3	Where would you g	o in addition to cla	sses? (Check all tha	at apply)	
	o work	Where?			
	o shopping	Where?			
	o visit friends/relati	ves	o beaches	o dining	o movies
4	Which trips would y	ou make most oft	en?		
	Where are these?			-	
5	How do you get the	re now?		/I	
	o walk	o bicycle	o Metrobus or jiti	ney	o drive own car
	o drive someone els	se's car	o ride with some	one else	o taxi
	o don't go without	transportation		o other transports	ation
6	How often do you g	o to places other	than classes?	o Once a week	
	o Twice a week		o Three or more d	ays a week	
7	What day(s) do you	go?	o Monday	o Tuesday	o Wednesday
	o Thursday	o Friday	o Saturday	o Sunday	
8	How long would you	be willing to wai	t to catch the minib	us before or after yo	ur trip?
	o 30 - 45 minutes		o 15 - 20 minutes		o 5 - 10 minutes
9	How far would you	be willing to walk	to and from the min	nibus and your destin	ation?
	During the day?			after sundown?	
	o 3 - 5 city blocks After sundown?		o 1 to 3 city block	ss.	o less than 1 block
	o 3 - 5 city blocks	:	o 1 to 3 city block	rs .	o less than 1 block
10	Do you have any spe	ecial transportation	n needs?		

APPENDIX G:

KEYSTONE POINT HOMEOWNER ASSOCIATION SURVEY

The City of North Miami received a grant from the County to study the feasibility of providing transit services, using minibuses or "circulators," specifically tailored to the needs of the North Miami residents. As a result of the Study, the City has designed two alternatives which will supplement Metrobus routes and provide service to areas of North Miami which currently do not have access to transit. While the circulator will target three populations with the greatest need (Senior Citizens, Students, Commuters), anyone can use the minibuses and will have the ability to transfer to Metrobus.

The City reviewed the two alternatives with the Keystone Point Homeowners Association leadership at its October 21st meeting. While both alternatives provide service along NE 123 Street, San Souci Blvd, and Biscayne Blvd, neither alternate currently provides service within Keystone Point. The City will modify the service to include Keystone Point if we can demonstrate that our residents have sufficient interest in using the circulators.

If you are interested in using the minibus service, please contact Giovanni Batista, City of North Miami, at (305) 893-6511, extension 2182, or complete the survey below and return it to City of North Miami Bus Survey, 776 NE 125 Street, North Miami, Florida 33161.

North Miami Community Transit Circulator Study Survey

This survey is being taken to help the City of North Miami improve transit within the City. Your help is important to use, and greatly appreciated. Please fill in all questions.

Your	current address:			
1	Would you use a City-operated destinations in or near North Miami	public transit n	ninibus to travel to	Yes (No (
2	If a minibus were available, where w work Where?		shopping	Where?
	visit friends/relativesother	0 beaches	• dining	• movies
3	Which trips would you make most often?		Where are these?	
4	How do you get there now?			
	walk bicycle	Metrobus or	jitney	1 drive own car
	drive someone else's car	1 ride with som	neone else	0 taxi
	don't go without transportation		Other transporta	
5	What day(s) do you go?	Monday	↑ Tuesday	() Wednesday
		♦ Saturday	♦ Sunday	Virodilosday
6	Do you have any special transportation			

APPENDIX H: SERVICE ALTERNATIVES

Alternative 1

Alternative 2

	Route A	Route B	Route A	Route B
Destinations:				
Schools, Community Ctrs.	West Side Franklin Elem. St. James Sch. First Christ Sch. Gratigny Elem. Armory Library N. Miami Jr. High N. Miami Elem.	Natural Bridge El. N. Miami Jr. High Armory Library St.Paul Learning Ctr. City Hall MOCA WJ Bryan Elem. Gwen Margolis Ctr. Johnson & Wales	West Side Franklin Elem. St. James Sch. First Christ Sch. Armory Library N. Miami Jr. High N. Miami Elem. Natural Bridge El.	Johnson & Wales Gwen Margolis Ctr. WJ Bryan Elem. St. Paul Learning Ctr Library Armory Gratigny Elem.
Parks	Oleander Park Sasso Pool Ben Franklin Pepper Park Griffing Park Gribble Pool Cagni Park	Besade Park Keystone Park Gribble Pool Cagni Park Enchanted Forest	Oleander Park Sasso Pool Ben Franklin Pepper Park Gribble Pool Cagni Park	Keystone Park Besade Park Gribble Pool Griffing Park
Commercial Locations	Publix (NE 6 th Av.)	Biscayne Boulevard Publix (Bisc. Blvd.) North Miami CBD		Publix (Bisc. Blvd.) Biscayne Boulevard North Miarni CBD Publix (NE 6th Av.) NE 6th Av. Shopping
MDTA Bus Transfers	2, 9, 10, 16, 28, 75, 77, E, G	3, 9, 10, 16, 28, 75, 93, G	2, 3, 9, 10, 16 28, 75, 77, 93, E, G	2, 3, 9, 10, 16, 28, 75, G
Total Distance	7.50 mi.	8.85 mi.	9.00 mi.	8.15 mi.
Distance to Library Transfer (mi.)	6.25 (from West) 1.25 (from North)	5.50 (from South) 3.35 (from North)	5.40 (from West) 3.60 (from North)	6.25 (from East) 1.90 (from West)
Average Travel Speed (est.)	12 mph	12 mph	12 mph	12 mph
Total Travel Time (one way)	39 min.	44 min.	45 min.	41 min.
Headway (same direction, 1 bus)	78 min.	88 min.	90 min.	82 min.