

US-1/SR-878 Intersection Sub-Area Traffic Study



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Prepared by:

David Plummer & Associates
1750 Ponce de Leon Boulevard
Coral Gables, Florida 33134

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TABLE OF CONTENTS

	<u>Page</u>
List of Exhibits.....	iii
1.0 BACKGROUND	1
2.0 PURPOSE OF REPORT.....	1
3.0 DATA GATHERING	2
3.1 Other Studies.....	3
3.2 Planned Improvements.....	3
3.3 Traffic Data/Observations.....	4
4.0 ALTERNATIVE IMPROVEMENT CONCEPTS	6
4.1 Signal Timing Optimization	6
4.2 Partial Grade Separation	7
4.3 Widen US-1	8
4.4 Indirect Left Turns	8
4.5 Turbo Lanes	10
4.6 Alternate Route	11
4.7 Hybrid: Turbo Lanes and Alternate Route	13
5.0 ANALYSIS AND FINDINGS	14
5.1 Analysis Methodology	14
5.2 Findings/Summary of Benefits	16
6.0 RECOMMENDATIONS AND IMPLEMENTATION	18
6.1 Recommended Alternative, Multi Modal Options and Priorities	18
6.2 Cost Estimates.....	18
6.3 Agency/Jurisdictional Input	29
6.4 Implementation	20

Appendix A: Simulation Results

Appendix B: Conceptual Cost Estimates

Appendix C: Transportation Technical Advisory Committee (TPTAC)

LIST OF EXHIBITS

<u>Exhibit</u>	<u>Page</u>
1 Study Influence Area	2
2 Intersection Volumes	4
3 Partial Grade Separation Option	7
4 Available Right-of-Way.....	8
5 Indirect Left Turns (Alternative 1)	9
6 Turbo Lanes (Alternative 2).....	10
7 Alternative Route (Alternative 3)	13
8 US-1/SR 878 Total Delay	17
9 Network Total Delay.....	17

1.0 BACKGROUND

US-1 is a State principal arterial roadway serving the South Miami-Dade region. SR-878 is a Miami-Dade Expressway (MDX) facility that links SR-874 (Don Shula Expressway), which serves the Southwest Miami-Dade region, to the US-1 corridor. The intersection between SR-878 (Snapper Creek Expressway) and US-1 represents the convergence of two major travel markets in the attempt to reach major destinations in Central Miami-Dade. As a result, the segments of US-1 and SR-878 near this interchange experience great vehicular demand with long queues and delays, as well as, low roadway level of services (LOS). Adding to the complexity is the fact that the study area is a destination point itself containing major employment/retail centers and the two busiest park-ride stations along the Metrorail system.

The work conducted in this study includes developing a set of conceptual traffic operation strategies, roadway improvement alternatives, and traffic pattern changes to manage demand in certain components of the system. These strategies are designed to improve traffic flows along the US-1 corridor at and near the SR-878 intersection, as well as, facilitate access to the area (including the Dadeland North Metrorail Station).

2.0 PURPOSE OF REPORT

The objective of this report is to document the development of several conceptual improvement strategies to alleviate the traffic congestion along US-1 in the vicinity of SR-878. The report also portrays the study methodology and results leading to recommendations regarding which alternatives should be moved forward to the next step in the planning/design/construction process that will convert the study recommendations into reality.

3.0 DATA GATHERING

The influence area for this study (Exhibit 1) includes the two mile stretch of US-1 between the Palmetto Expressway (SR-826) and Red Rd (SW 57 Avenue). Recent significant changes in this area were taken into account in this study. However, detailed analysis of improvement alternatives required focusing on the US-1 segments between SW 70 Avenue and SW 62 Avenue. It is understood that intersections downstream and upstream from this section will interact with any improvements recommended in this study. These interactions, while expected to be positive, may need to be addressed as recommendations move closer to implementation in the future.

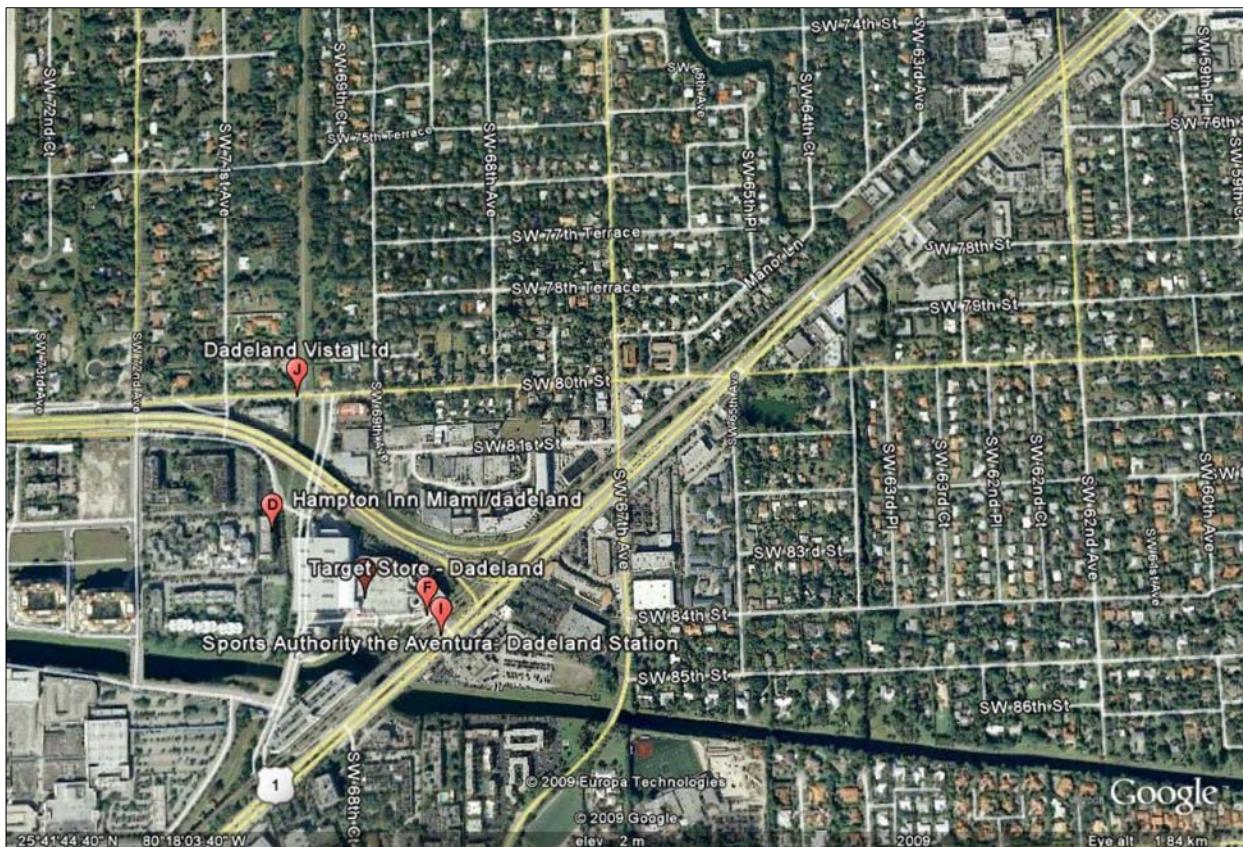


Exhibit 1: Study Influence Area

3.1 Other Studies

Previous studies related to the sub-area were secured and reviewed and/or the corresponding agencies were contacted. Such studies include:

- Arterial Grid Study
- South Dade Managed Use Lanes
- US 1 Reversible Lanes Study
- MDX Master Plan
- Kendall Link Study
- Downtown Dadeland Charrette
- M-Path Extension
- Florida East Coast Transit Connection Study

The subject studies were found not to have a significant immediate impact in the study area or to preclude any of the conceptual alternatives developed and analyzed in this study. This is still the case for the proposed M-Path Extension project, which as of this writing, was planned not to affect the southbound cross section of US-1 north of SR-878, nor include any signal for the SR-878 entrance ramp from southbound US-1.

3.2 Planned Improvements

There are two levels of transportation improvements that impact the area: short term improvements in the adopted five year Transportation Improvement Program (TIP) and the Long Range (20 year) Transportation Plan (LRTP).

The 2010 TIP (Fiscal Year – FY- 2009/2010 to 2013/2014), adopted by the Miami Urbanized Area Metropolitan Planning Organization (MPO) Board in May 2009 shows one improvement in the immediate study area as follows:

- SR-874/SR-878 Communications and Incident Management/Surveillance (MPO project Number XA10010)

The currently adopted Cost Feasible Plan component of the 2030 LRTP shows one long range improvements in the immediate study area as follows:

- SW 80 St between SW 72 Av to US-1: widen from 2 to 5 lanes (Priority IV)

That plan, however, has been recently superseded by the year 2035 LRTP. The SW 80 Street project is not included in the new plan.

The following long range improvement appears in the Transportation Needs component of the currently adopted 2030 LRTP:

- Premium Transit Corridor along the old FEC alignment (between SW 67 Av and 72 Av)

3.3 Traffic Data/Observations

Knowing that the best analysis tool for evaluating alternatives is the Synchro traffic simulation program, certain data needed by the software was collected and/or gathered as needed. From traffic work in the area by others, it was determined that the midday period of the day was nearly as important as the traditional morning and afternoon peak hours due to the existing traffic patterns and volumes. Therefore, the appropriate data (summarized in Exhibit 2) was obtained for these three time periods for seven critical intersections in the area as follows.

Exhibit 2:
US-1/SR-878 Study
Intersection Volumes

Intersection	AM Peak Hour	Midday Peak Hour	PM Peak Hour
US-1 / SW 70 Avenue	3,025	4,245	4,622
US-1 / SW 84 Avenue	2,954	4,254	4,109
US-1 / SR 878	4,633	4,799	6,598
US-1 / SW 67 Avenue	5,362	5,857	7,207
US-1 / SW 80 Street	5,362	5,606	6,923
US-1 / SW 62 Avenue	5,127	5,438	6,006
SW 80 Street / SW 67 Avenue	1,378	1,319	1,487

Additionally, other physical and operational intersection/roadway data was secured including:

- Spacing between intersections
- Major roadside features
- Available right-of-way
- Intersection geometric configuration
- Signal timing, phasing and offsets

A Synchro network, therefore, was assembled based on the road segments approaching and between the seven signalized intersections.

Qualitative field observations were also conducted at all the study intersections during the three subject time periods, including:

- Queuing
- Delays
- Cycle failures

These observations were used to obtain a better understanding of operational difficulties, degree of congestion and signal progression logic and nuances. The observations also proved most valuable in creating a realistic representation of existing conditions with the Synchro simulation software.

4.0 ALTERNATIVE IMPROVEMENT CONCEPTS

A number of traffic operation and other traditional and non-traditional traffic improvement concepts suitable for the subject corridor were developed in the initial stages of the study. Some concepts targeted the intersection of US-1/SR-878 directly. Others were aimed at indirectly improving traffic flow at the subject intersection. This section describes the alternatives considered in this study. Analysis results, findings, and recommendations are presented in subsequent sections of this report.

4.1 Signal Timing Optimization

Miami-Dade County has a very sophisticated traffic control system in place whereby traffic signals are centrally controlled by a computer program. Signal timing is optimized on a regular basis throughout the county. In the case of US-1, the county has implemented a signal timing plan that favors this major artery and has proven most successful in maintaining very high traffic flows. The FDOT, also regularly monitors and evaluates operations of the corridor and in a recent study they concluded that further optimization of the signal timing plans would not significantly increase the throughput of this facility. We agree with that assessment and, therefore, did not explore signal optimization alone any further so we could concentrate on other measures that could potentially achieve more significant improvement of the traffic conditions along US-1. Of course, the evaluation of each improvement concept below required the re-optimization of signal timing in conjunction with the alternatives' geometric, operational and traffic pattern changes under consideration.

4.2 Partial Grade Separation

Grade separation of traffic at major intersections has great potential for reducing delays and improving LOS. In the case of the US-1/SR-878 intersection, SR-878 cannot be raised because it passes under the metrorail guideway immediately west of US-1. The concept considered, therefore, was elevating the southbound lanes of US-1 while keeping the northbound lanes at grade (Exhibit 3) because the cost and impacts of elevating both directions of US-1 were deemed too extensive. The initial concept was based on a previous study of full grade separation concepts prepared by the Miami Urbanized Area Metropolitan Planning Organization (MPO). That study was based on 5% grades. At this location and using 5% grades, avoiding major intersection conflicts required the structure to clear one signalized intersection north and one south of the SR-



Exhibit 3: Partial Grade Separation Option

878 intersection. The length of the partial grade separation structure under consideration, using the MPO study parameters would have been approximately 2,400 ft. However, during the course on this study we found that FDOT would require smaller grades. This requirement would make the length of the structure and the resulting cost and access point-related conflicts unfeasible. The grade separation concept therefore, after consulting with the study advisory committee, was abandoned.

4.3 Widen US-1

Presently, US-1 has 128 ft of Right-of-Way (ROW) between SR-878 and south of SW 80 St, a length of approximately 1,700 ft. The existing cross section has 3 lanes northbound, 3-4 lanes southbound, and the median area also varies between 16 and 27 ft. Furthermore there is only one sidewalk on the east side of the road because the west side abuts the Metrorail. This means there are no pedestrian destinations along the west side of the road. However, a pedestrian/bicycle path (M-Path) can be found within the Metrorail ROW along some portions of the corridor. Given the wider than typical US-1 ROW, the cross section of US-1 in this area can be reconfigured and/or widened within the existing ROW to improve the capacity of the facility. However, because the length of this section is relatively short, it was determined that it would be more effective to use limited widening as part of other alternatives in order to maximize its effectiveness. Exhibit 4 shows the available ROW for US-1 and other roads in the study area

Exhibit 4: Available ROW

- Davis Rd (SW 80 St): 70'
- Ludlam Rd (SW 67 Av):
 - North of SW 80 St: 70'
 - South of SW 80 St: 80'
- Dixie Hwy (US-1):
 - Kendall - SR 878: 116'
 - SR 878 - SW 80 St: 128'
 - SW 80 St - Red Rd: 80' - 126'

4.4 Indirect Left Turns

Indirect Left Turns (ILT) is a traffic operations technique whereby left turns are prohibited at a major signalized intersection and rerouted to other locations. The logic behind such a change is to eliminate the protected left turn phases from the signal operation and reallocate the

corresponding green signal time from the left turn phases to the through movements thereby increasing intersection throughput.

This technique was considered as an alternative at the intersection of US-1/SW 67 Av. This intersection also experiences substantial delays. Being located north of the SR-878 intersection, it controls the flow of US-1 traffic to and from the expressway. Therefore, delays at the SW 67 Av intersection have a direct impact on the operations at the US-1/SR-878 intersection. Exhibit 5 shows the proposed rerouting of traffic using SW 67 Ave and SW 80 St on the northeast

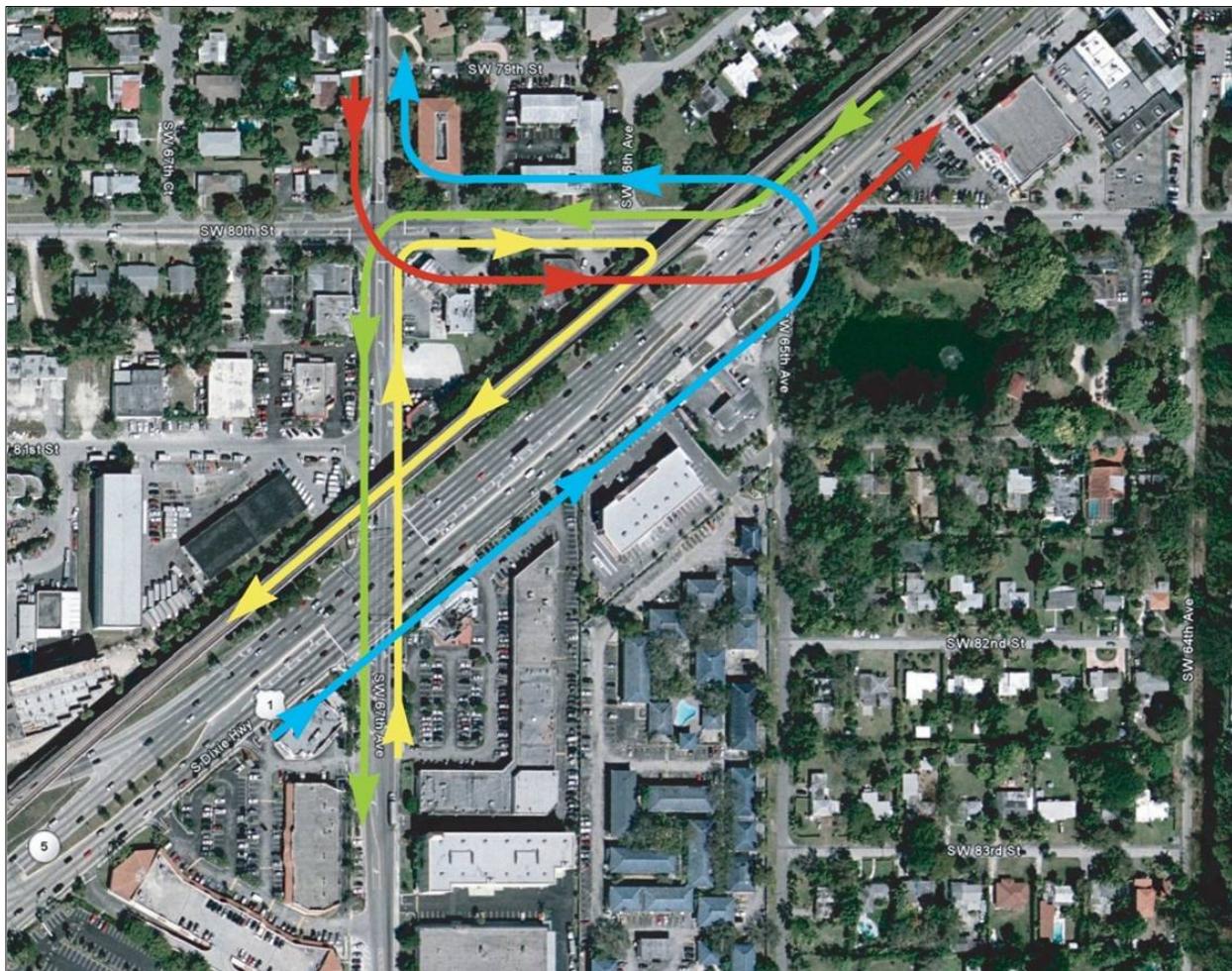


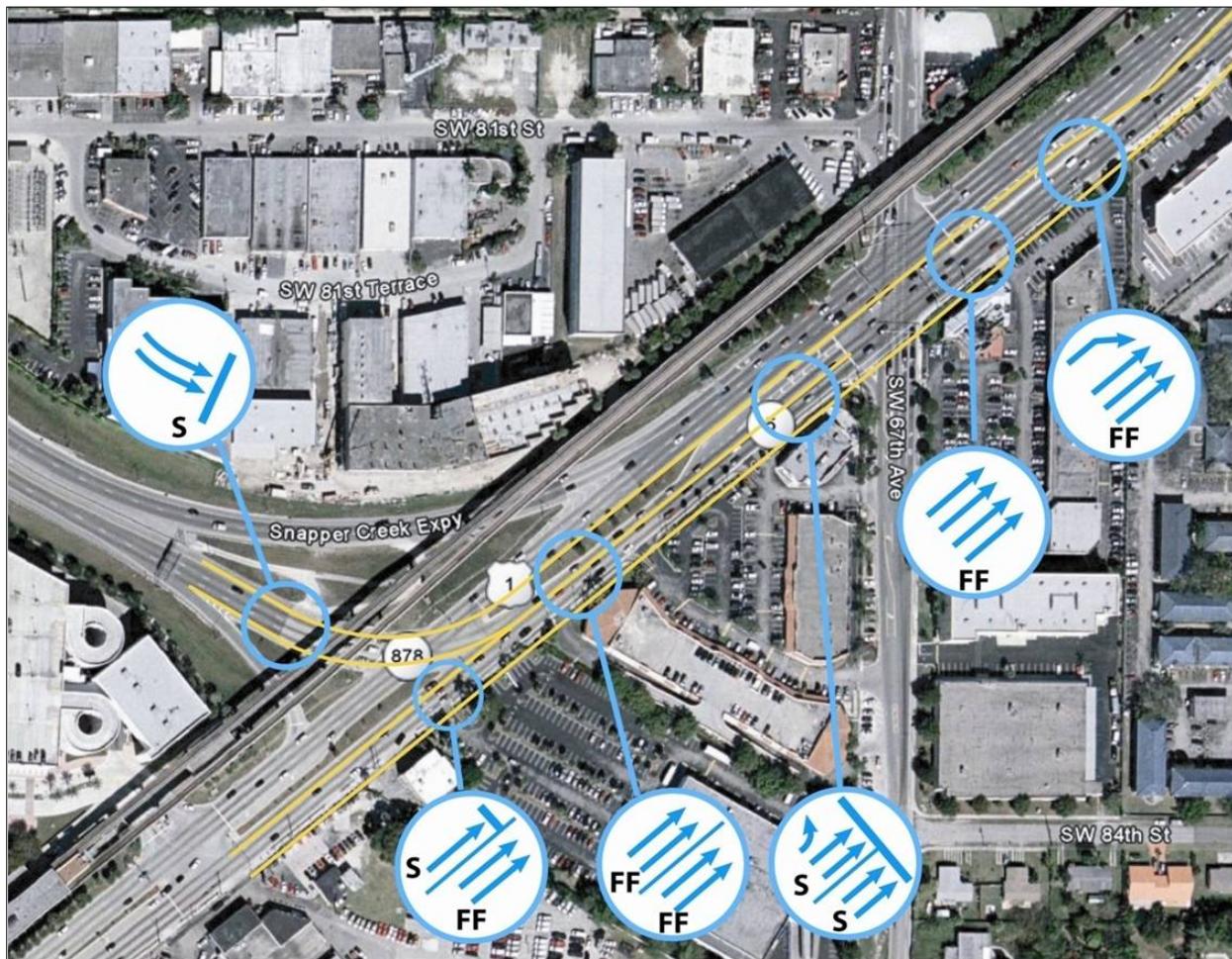
Exhibit 5: Indirect Left Turns

quadrant of the intersection. This rerouting was also used for purposes of analyzing the impacts of the alternative both at the US-1/SW 67 Av intersection as well as the affected adjacent intersections. The additional volumes shifted to nearby intersections also required extending turn

lane storage capacity at selected locations and additional turn lanes at the intersection of SW 67 Av/SW 80 St and US-1/SW 80 St.

4.5 Turbo Lanes

Turbo Lanes are the result of special intersection geometrics and signal operation that allow one or more lanes at a signalized T-intersection to flow continuously (continuous green signal indication). The intersection of US-1/SR-878 is conducive to Turbo Lane operation as shown in Exhibit 6.



At this location the geometrics would involve a concrete separator between the two outside lanes of northbound US-1 and the third (inside) lane. The separator would extend to SW 67 Av and

allow the two outside lanes to flow continuously, on the east side of the separator, until they reach that signal. The inside US-1 lane would stop at the signal with SR-878 to allow the expressway traffic to turn left under a separate signal phase, and join northbound US-1 on the west side of the separator. Pedestrians wishing to cross US-1 can be accommodated by a special actuated phase that could stop the turbo lanes only upon pedestrian demand. Operational and ROW constraints would require that the left turns from the expressway be from a double left turn lane. While this movement today takes place from a triple left turn lane, the number of expressway mainline lanes eastbound, approaching US-1 is only two. Therefore, these two lanes will instead continue through the intersection instead of widening to three. The corresponding loss in approach capacity and queuing area, however, would be compensated by increasing the amount of green signal time for the eastbound left turn movement from SR-878 to US-1.

The main appeal of this alternative is reducing eastbound traffic delays on SR-878 in the morning by taking advantage of this arrangement that allows maximizing green time for eastbound left turn movements onto US-1 while two of the three northbound US-1 lanes will get substantially more capacity as a result of the continuous green signal. Yet, the southbound US-1 traffic is not substantially impacted in the morning because that traffic demand is relatively low and well below the green time provided by the signal today. In the afternoon the traffic pattern is reversed and southbound US-1 traffic demand is high but the eastbound left turn demand is much lower.

4.6 Alternate Route

One way to reduce delays at an intersection is by diverting a portion of that traffic to other locations. This can be accomplished in a number of ways including: suggesting alternative routes with signage; reducing delays along alternative routes; and/or improving alternate routes. SW 80 St is a particularly attractive alternate route for motorists traveling between US-1 and SR-878. The reason is that, between SW 72 Av and US-1, SW 80 St is located immediately north and parallel to SR-878. In fact, today a portion of the traffic on SW 80 St is also using SR-878 west of the SW 72 Av interchange (first/last interchange west of US-1). Unfortunately, today SW 80 St is a two-lane road with little excess capacity available to divert additional traffic from SR-878.

One proposal to create an enhanced alternate route (Alternative 3) involves several components as follows:

- Widen SW 80 St from 2 to 4 lanes between SW 71 Av and US-1. This is possible within the available 70 ft of ROW.
- Enhance intersection geometrics (and capacity) along SW 80 St by constructing additional turn lanes with the existing ROW at its intersections with SW 67 Av and at US-1.
- Widen SW 67 Av between US-1 and SW 80 St from 2 to 4 lanes to add more capacity throughout, including its intersection with SW 80 St.
- Widen the entrance ramp to SR-878 at SW 72 Av from one to two lanes, tieing to the two westbound lanes of SW 80 St and across SW 72 Av. The two ramp lanes would merge into one prior to merging with the expressway mainline lanes. This change will also require realignment/termination or tieing in of SW 80 St (a local street) west of the ramp to other local streets. Such geometry will eliminate the at grade weave, stop intersection between the eastbound lanes of SW 80 St (west of SW 72 Av) and the existing single lane ramp.
- Construct a new, single lane, s-curve alignment connection between the eastbound SR-878 Frontage Road (east of SW 72 Av) and eastbound SW 80 St in the vicinity of SW 71 Av. This will require crossing under the elevated lanes of SR-878. However, there is sufficient horizontal clearance between the piers as well as vertically to effect this connection. Additionally, the area under the expressway lanes is SR-878 ROW that at the moment is leased to a local car dealer to store new vehicles. This connection will make the diversion route from eastbound SR-878 more direct and save motorists approximately 660 ft of travel compared to the more circuitous existing route which veers south, then ties in to SW 70, Av, to then go north again and meet SW 80 St.
- While a certain percent of diversions can be expected simply as a result of motorists realizing the availability of additional capacity on SW 80 St, signage (fixed or Smart sign

messages) can help to inform motorists of this option in order to maximize the diversions to SW 80 St.

This alternative (Exhibit 7) independently of the recommendations on this study, is part of the year 2035 LRTP needs plan, as an unfunded needs project.

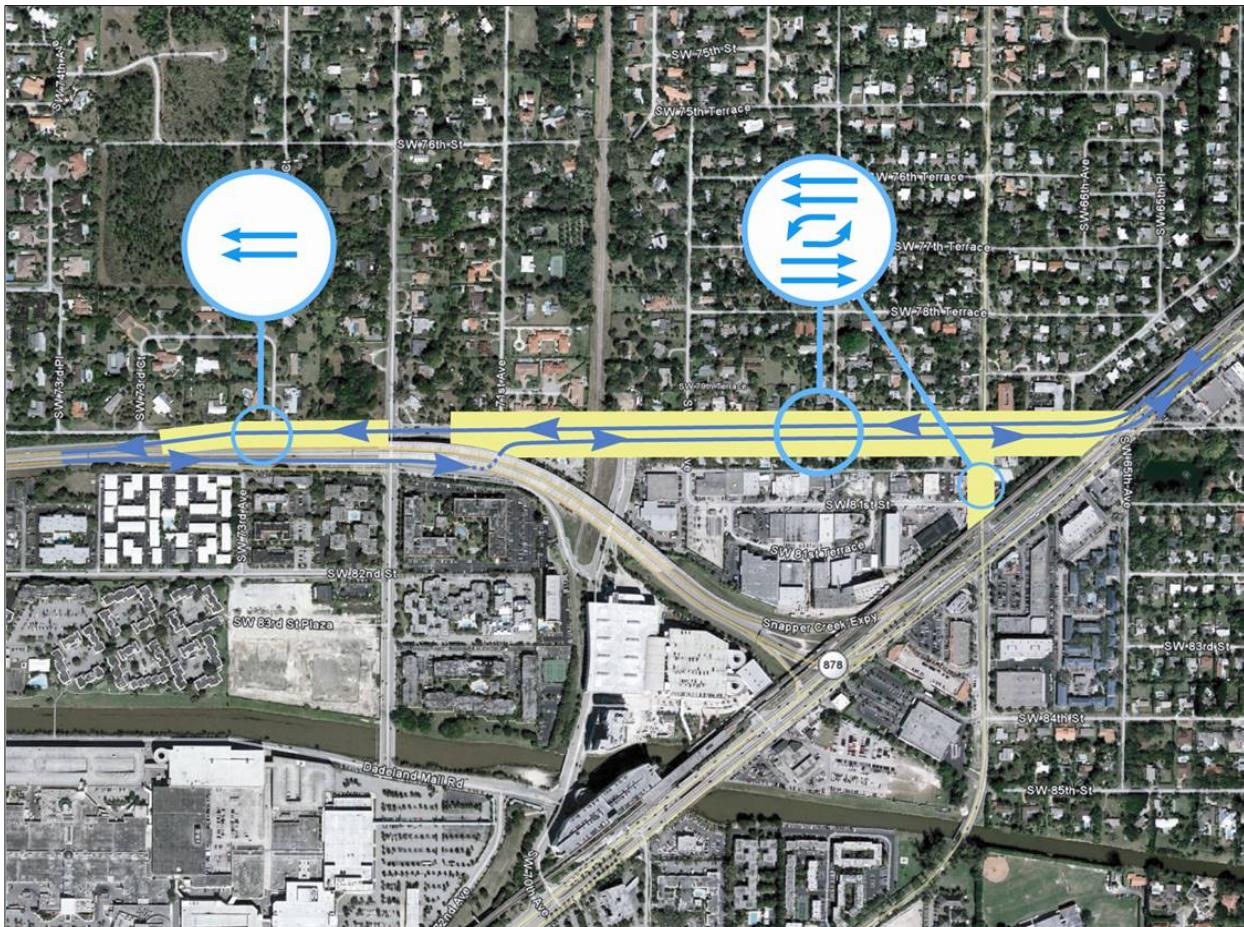


Exhibit 7: Alternative Route (widen SW 80 St)

4.7 Hybrid: Turbo Lanes and Alternate Route

A hybrid alternative was developed by combining the Turbo Lane proposal and the Alternate Route alternatives. This combination is possible because no portion of either one is mutually exclusive with the others. The Hybrid alternative has the potential to enhance overall performance over the performance of each alternative by itself.

5.0 ANALYSIS AND FINDINGS

This section describes the analysis performed as well as the study findings.

5.1 Analysis Methodology

The primary analysis tool used to develop and evaluate the aforementioned improvement concept alternatives was the software package Synchro/SimTraffic. This software is based on the widely recognized Highway Capacity Manual. Yet the program also has a visual (animation) component that allows a dynamic representation of the traffic operation conditions resulting from the roadway geometric and signalization plans under consideration. Additionally, the software is capable of generating system-wide measures of effectiveness for the network being analyzed. This feature is important in determining whether there is a net improvement in operating conditions after all the affected intersections are analyzed. It should be noted that this is an operational analysis study. As such, future traffic projections were not undertaken, nor was there any attempt to achieve minimum LOS. The measure of success for any alternative is its ability to reduce existing traffic delays.

In general, the methodology used to analyze the proposed improvements involved the following steps:

- Summarize morning, midday, and afternoon traffic count data
- Enter existing traffic volume, intersection geometrics, and signal timing onto the software
- Run existing conditions analysis and validate against field observations
- Enter traffic volume, intersection geometrics, and modified signal timing for each alternative onto the software

The four alternatives described above, after consultation with the study committee, were deemed to have the potential to improve traffic flow in the area. Each of the alternatives analyzed, by their nature, required additional analysis steps, for example:

- Indirect Left Turns (Alternative 1) assumed that the diverted left turn volumes would follow prescribed alternate routes. The subject left turn movements were manually reassigned from left turns at the intersection of US-1/SW 67 Ave to other movements and/or intersections as needed until they reached their original destinations.
- The Turbo Lane (Alternative 2) required splitting the northbound US-1 traffic approaching SR-878 onto two (outside) turbo lanes that will not go through the signal or stop and one (inside) lane that will stop at the signal. The split applied was 80% of the approaching traffic will be using the turbo lanes, based on observations at another turbo lane location in Miami-Dade county. It should also be noted that the graphical limitations of the software required a larger than normal separation between the turbo and the non-turbo lanes. Therefore, the graphical element shows the turbo lanes encroaching onto private property. In reality, the cross section needed to implement this concept will fit well within the existing ROW of US-1.
- The primary benefit of the Alternate Route (Alternative 3) is derived from the diversion of a portion of the traffic from the easternmost segment of SR-878 (which experiences severe congestion in the morning peak hours) to a parallel route with increased capacity. The alternate route, the existing SW 80 St after widening to four lanes as proposed, can divert approximately 16% of the easternmost SR-878 traffic. This diversion was estimated using the Miami Urban Area Transportation Study (FSUTMS) model base (validation) network. SR-878 traffic volumes were simply compared before and after widening SW 80 St from two to four lanes.
- Analysis of the Hybrid (Alternative 4) entailed combining the geometric and travel pattern changes used in the analysis of Alternatives 2 and 3 (the turbo lane and the improvement of SW 80 St as an alternate route).

The determination of whether a particular concept was feasible was based on:

- The magnitude of reduction in vehicle delays (including control delay and queue delay) at the primary intersection of US-1/SR-878 as well as system-wide.
- Availability of right-of-way
- Order of magnitude of the improvement cost when compared to delay reductions

5.2 Findings/Summary of Benefits

Given the focus of the study being the intersection of US-1/SR-878, the primary performance measure for that intersection (total delay by alternative – Exhibit 8) was extracted from the simulation model and analyzed. However, total delay through the entire analyzed network (Exhibit 9) was also extracted and considered. Review of the system wide performance by alternative is important in order to ensure that the recommended alternative does not have a detrimental effect on the traffic flow in the area even if the primary intersection performs very well.

The review of the total delay exhibits described below suggests that the alternative with the best performance throughout the day, both system-wide and at the main intersection, is Alternative 4. System-wide delay reductions throughout the day vary between 5% and 6%. Delay reductions at the intersection of US-1/SR-878 are more dramatic, as high as 40%. Detailed analysis results and the corresponding data are included in Appendix A. It is worth noting, that even though the ILT alternative did not perform well at the intersection of US-1/SW 67 Av, it has been found to be effective in improving traffic flow at other locations. Therefore, it should not be discarded for other intersections along US-1. In fact other improvements along the US-1 corridor can have indirect positive impacts in this study area.

Exhibit 8:
US-1/SR-878 Study
Evaluation of Alternatives
Measures of Effectives
Total Delay (hrs) - US-1/SR-878

Alternative	Period			Change		
	AM	MD	PM	AM	MD	PM
E Existing	25	11	18	NA	NA	NA
1 Indirect Left Turns	25	11	18	0%	0%	0%
2 Turbo Lanes	17	12	15	-32%	9%	-17%
3 Alternate Route	21	10	13	-16%	-9%	-28%
4 Turbo Lanes & Alt. Route	15	11	13	-40%	0%	-28%

Exhibit 9:
US-1/SR-878 Study
Evaluation of Alternatives
Measures of Effectives
Total Delay (hrs) - Network

Alternative	Period			Change		
	AM	MD	PM	AM	MD	PM
E Existing	155	150	236	NA	NA	NA
1 Indirect Left Turns	145	151	238	-6%	1%	1%
2 Turbo Lanes	139	141	228	-10%	-6%	-3%
3 Alternate Route	153	153	232	-1%	2%	-2%
4 Turbo Lanes & Alt. Route	145	142	221	-6%	-5%	-6%

6.0 RECOMMENDATIONS/IMPLEMENTATION

Following is a discussion of the recommended alternative together with other related issues and commentary from the review agencies/committees. Conceptual cost estimates and implementation issues are also presented.

6.1 Recommended Alternative, Multi Modal Options and Priorities

The preliminary recommendation resulting from this study, and endorsed by the TPTAC, was the Hybrid (Alternative 4). Its name is derived from the fact that is a combination of two other alternatives: Alternative 2 – Turbo Lanes (at the US-1/SR-878 intersection) and Alternative 3 – Alternate Route (the widening of and enhanced connections to) SW 80 Street between SW 71 Avenue and US-1. However, the Transportation Planning Council (TPC) had concerns regarding the community impacts of widening SW 80 St. Therefore, the final recommendation is the implementation of Alternative 2, the Turbo Lane.

It is recognized that in a large city such as Miami, even with alternate modes of travel available, no single mode of transportation is adequate to satisfy all travel needs and travel congestion is the rule rather than the exception. After review of a series of transportation studies for the area, it was concluded that the recommended alternative is not in conflict, nor does it preclude other improvement options that have been recently proposed. Furthermore, the system-wide improvement in traffic conditions expected in the area will be beneficial in facilitating access to the Dadeland North Metrorail Station, thereby supporting that alternate mode of travel.

6.2 Cost Estimates

Conceptual level cost estimates were developed for the proposed improvements. The cost of the proposed US-1 Turbo Lanes is \$1.0 to \$1.1 million. This estimate includes: reconstruction of US-1 between SR-878 and SW 80 St to add a lane within the existing right-of way; reconfiguration of the SR-878 eastbound approach at US-1; and modification of the US-1 signals at SR-878 and at SW 67 Avenue (Appendix B). Given the significant improvement in traffic conditions expected in the area, this is a worthwhile set of changes deserving implementation.

6.3 Agency/Jurisdictional Input

The Study Advisory Committee for this study was the MPO Transportation Planning Technical Advisory Committee (TPTAC). As of this writing, study progress, findings and recommendations were presented at four of their meetings:

- September 2, 2009
- November 4, 2009
- December 2, 2009
- February 2, 2010

The full membership list of the committee, as well as attendance sheets are included in Appendix C.

TPTAC input from the represented agencies can be summarized below:

- Notwithstanding the fact that SW 80 St was recommended for widening as part of the previous (year 2030) Miami-Dade LRTP, both the MD PWD and the Planning Department opined that adjoining neighbors in the City of South Miami might be concerned with such improvement.
- Recommendations should be presented to the Traffic Operations Office of the Miami- Dade Public Works Department (PWD) and the District 6 FDOT and/or their Scoping Committee. The TPTAC requested another presentation to them following the suggested meetings.
- FPL is planning major power line improvements using public ROW along selected corridors. This could limit improvements in certain areas.
- The FDOT District 6 Scoping Committee heard the study findings and recommendations on December 8 and had a number of questions about the details of the operational changes required and their effectiveness. They requested that the study report and the simulation models be submitted to them for review.

- The Miami-Dade Expressway Authority (MDX) indicated that they are constantly evaluating the Master Plan for all their facilities. They believe that a grade separation of the intersection precluded but the recommended alternative in this study may be a good improvement for short term implementation.
- FDOT suggested that the SW 80 St improvement should precede the turbo lanes.
- FDOT indicated that they may conduct a detailed operational analysis of the turbo lane proposal in lieu of a PDE study.

The study was also presented to the TPC on February 22, 2010. This committee favored implementation of the turbo lane without widening SW 80 St due to concerns over the community impacts of such widening.

Additional meetings with the MPO Transportation Planning Council (TPC) and the MPO Review Committee will take place as needed.

6.4 Implementation

This report provides the findings of the expected traffic operation improvement of various conceptual alternatives for the study subarea. As such, the emphasis is in developing and testing the concepts against each other by providing a quantitative measure of which concepts perform best, given the corresponding traffic patterns. This study is not intended to answer every question or implementation detail of the recommendations. Therefore, more detailed and thorough study is needed before the recommended alternative can be implemented. The implementation steps should be as follows:

- Conduct an operational study of all the components of the recommended alternative. Such study should be used to refine and investigate all details to ensure that every aspect of its implementation is thoroughly tested and addressed.
- Explore funding opportunities for the project including shared funding by the agencies with jurisdiction (MDX, FDOT).

- Include the Turbo Lanes in the LRTP and TIP.
- Proceed with final design either as a joint participation agreement for the entire package or by agency if funded by jurisdictional component.
- Bid and construct based on funding agreement for package or components.

Appendix A

Simulation Results

Existing Conditions

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	163	1971	891	3025
Control Delay / Veh (s/v)	16	4	18	9
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	16	4	18	9
Total Delay (hr)	1	2	4	7
Stops / Veh	0.25	0.23	0.66	0.35
Stops (#)	40	445	587	1072
Average Speed (mph)	14	29	22	25
Total Travel Time (hr)	1	8	10	19
Distance Traveled (mi)	16	243	225	484
Fuel Consumed (gal)	1	15	17	33
Fuel Economy (mpg)	10.7	16.5	13.2	14.6
CO Emissions (kg)	0.10	1.03	1.19	2.32
NOx Emissions (kg)	0.02	0.20	0.23	0.45
VOC Emissions (kg)	0.02	0.24	0.28	0.54
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	50	7	57

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	157	5	2048	744	2954
Control Delay / Veh (s/v)	66	59	8	1	9
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	66	59	8	2	9
Total Delay (hr)	3	0	4	0	8
Stops / Veh	0.87	1.20	0.34	0.05	0.30
Stops (#)	137	6	698	35	876
Average Speed (mph)	3	2	30	29	26
Total Travel Time (hr)	3	0	17	1	22
Distance Traveled (mi)	8	0	518	34	560
Fuel Consumed (gal)	4	0	29	2	34
Fuel Economy (mpg)	2.1	NA	18.1	19.0	16.3
CO Emissions (kg)	0.26	0.01	2.00	0.13	2.40
NOx Emissions (kg)	0.05	0.00	0.39	0.02	0.47
VOC Emissions (kg)	0.06	0.00	0.46	0.03	0.56
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	2	0	100	22	124

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	1006	2225	886	4117
Control Delay / Veh (s/v)	55	12	9	22
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	55	12	9	22
Total Delay (hr)	15	7	2	25
Stops / Veh	0.90	0.57	0.34	0.60
Stops (#)	906	1274	302	2482
Average Speed (mph)	4	8	15	6
Total Travel Time (hr)	18	9	3	30
Distance Traveled (mi)	67	73	53	193
Fuel Consumed (gal)	19	21	6	46
Fuel Economy (mpg)	3.5	3.6	8.2	4.2
CO Emissions (kg)	1.33	1.44	0.45	3.22
NOx Emissions (kg)	0.26	0.28	0.09	0.63
VOC Emissions (kg)	0.31	0.33	0.10	0.75
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	28	4	32

4: SW 67 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	508	215	3231	1408	5362
Control Delay / Veh (s/v)	118	48	9	12	22
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	118	48	9	12	22
Total Delay (hr)	17	3	8	5	32
Stops / Veh	0.83	0.75	0.50	0.41	0.52
Stops (#)	421	161	1624	577	2783
Average Speed (mph)	10	6	21	22	15
Total Travel Time (hr)	24	4	16	11	55
Distance Traveled (mi)	229	23	343	231	827
Fuel Consumed (gal)	24	4	34	17	79
Fuel Economy (mpg)	9.5	5.9	10.1	13.3	10.4
CO Emissions (kg)	1.68	0.28	2.37	1.22	5.55
NOx Emissions (kg)	0.33	0.05	0.46	0.24	1.08
VOC Emissions (kg)	0.39	0.06	0.55	0.28	1.29
Unserved Vehicles (#)	1	0	0	0	1
Vehicles in dilemma zone (#)	9	0	77	36	122

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	453	307	3226	1376	5362
Control Delay / Veh (s/v)	126	89	12	11	26
Queue Delay / Veh (s/v)	0	0	1	0	1
Total Delay / Veh (s/v)	126	89	13	11	27
Total Delay (hr)	16	8	12	4	39
Stops / Veh	1.25	0.94	0.71	0.41	0.69
Stops (#)	568	289	2304	559	3720
Average Speed (mph)	3	10	21	29	18
Total Travel Time (hr)	18	11	25	24	78
Distance Traveled (mi)	56	114	529	698	1396
Fuel Consumed (gal)	17	12	50	34	113
Fuel Economy (mpg)	3.3	9.6	10.5	20.7	12.4
CO Emissions (kg)	1.19	0.83	3.52	2.36	7.90
NOx Emissions (kg)	0.23	0.16	0.69	0.46	1.54
VOC Emissions (kg)	0.28	0.19	0.82	0.55	1.83
Unserved Vehicles (#)	24	0	0	0	24
Vehicles in dilemma zone (#)	0	0	73	46	119

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	190	370	3171	1396	5127
Control Delay / Veh (s/v)	67	68	18	12	22
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	67	68	18	12	22
Total Delay (hr)	4	7	16	5	31
Stops / Veh	0.89	0.74	0.65	0.43	0.61
Stops (#)	170	272	2072	597	3111
Average Speed (mph)	11	7	26	24	23
Total Travel Time (hr)	6	9	62	12	88
Distance Traveled (mi)	60	65	1608	283	2017
Fuel Consumed (gal)	6	10	89	19	124
Fuel Economy (mpg)	10.0	6.8	18.1	14.6	16.3
CO Emissions (kg)	0.42	0.67	6.20	1.35	8.64
NOx Emissions (kg)	0.08	0.13	1.21	0.26	1.68
VOC Emissions (kg)	0.10	0.16	1.44	0.31	2.00
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	6	7	100	46	159

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	791	129	245	213	1378
Control Delay / Veh (s/v)	47	27	6	18	33
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	47	27	6	18	33
Total Delay (hr)	10	1	0	1	13
Stops / Veh	0.84	0.74	0.23	0.48	0.67
Stops (#)	662	96	56	103	917
Average Speed (mph)	13	11	20	8	13
Total Travel Time (hr)	18	2	1	1	23
Distance Traveled (mi)	239	16	26	11	292
Fuel Consumed (gal)	21	2	2	2	26
Fuel Economy (mpg)	11.4	8.4	15.6	6.1	11.0
CO Emissions (kg)	1.47	0.13	0.12	0.13	1.85
NOx Emissions (kg)	0.29	0.03	0.02	0.02	0.36
VOC Emissions (kg)	0.34	0.03	0.03	0.03	0.43
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	1032	490	1522
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	35
Total Travel Time (hr)	15	2	16
Distance Traveled (mi)	514	53	566
Fuel Consumed (gal)	20	2	22
Fuel Economy (mpg)	26.2	24.3	26.0
CO Emissions (kg)	1.37	0.15	1.52
NOx Emissions (kg)	0.27	0.03	0.30
VOC Emissions (kg)	0.32	0.04	0.35
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	3231	1376	4607
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	5	4	8
Distance Traveled (mi)	192	146	338
Fuel Consumed (gal)	7	5	12
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.48	0.37	0.85
NOx Emissions (kg)	0.09	0.07	0.16
VOC Emissions (kg)	0.11	0.08	0.20
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp & US-1

Direction	SE	NE	SW	All
Volume (vph)	26	2225	886	3137
Control Delay / Veh (s/v)	9	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	9	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	14	40	40	39
Total Travel Time (hr)	0	3	1	3
Distance Traveled (mi)	2	102	29	132
Fuel Consumed (gal)	0	4	1	5
Fuel Economy (mpg)	NA	27.9	27.9	26.8
CO Emissions (kg)	0.02	0.25	0.07	0.35
NOx Emissions (kg)	0.00	0.05	0.01	0.07
VOC Emissions (kg)	0.00	0.06	0.02	0.08
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	15
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	15
Total Delay (hr)	155
Stops / Veh	0.41
Stops (#)	14987
Average Speed (mph)	20
Total Travel Time (hr)	343
Distance Traveled (mi)	6806
Fuel Consumed (gal)	495
Fuel Economy (mpg)	13.8
CO Emissions (kg)	34.59
NOx Emissions (kg)	6.73
VOC Emissions (kg)	8.02
Unserved Vehicles (#)	25
Vehicles in dilemma zone (#)	613
Performance Index	197.0

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	364	2002	1879	4245
Control Delay / Veh (s/v)	14	27	1	15
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	14	27	1	15
Total Delay (hr)	1	15	1	17
Stops / Veh	0.28	0.35	0.08	0.23
Stops (#)	102	696	158	956
Average Speed (mph)	15	12	38	21
Total Travel Time (hr)	2	21	13	36
Distance Traveled (mi)	36	246	475	758
Fuel Consumed (gal)	3	27	19	49
Fuel Economy (mpg)	10.7	9.2	24.9	15.4
CO Emissions (kg)	0.23	1.86	1.33	3.43
NOx Emissions (kg)	0.05	0.36	0.26	0.67
VOC Emissions (kg)	0.05	0.43	0.31	0.80
Unserved Vehicles (#)	0	53	0	53
Vehicles in dilemma zone (#)	0	76	21	97

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	71	11	1968	2204	4254
Control Delay / Veh (s/v)	36	40	10	8	10
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	36	40	10	8	10
Total Delay (hr)	1	0	6	5	11
Stops / Veh	0.76	0.91	0.35	0.31	0.34
Stops (#)	54	10	691	682	1437
Average Speed (mph)	4	3	28	13	23
Total Travel Time (hr)	1	0	18	8	27
Distance Traveled (mi)	3	0	498	101	603
Fuel Consumed (gal)	1	0	29	14	44
Fuel Economy (mpg)	3.0	NA	17.4	7.2	13.7
CO Emissions (kg)	0.08	0.01	2.01	0.98	3.08
NOx Emissions (kg)	0.02	0.00	0.39	0.19	0.60
VOC Emissions (kg)	0.02	0.00	0.46	0.23	0.71
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	0	63	150	214

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	671	1554	1896	4121
Control Delay / Veh (s/v)	36	3	5	9
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	36	3	5	10
Total Delay (hr)	7	1	3	11
Stops / Veh	0.81	0.18	0.19	0.29
Stops (#)	543	284	368	1195
Average Speed (mph)	5	19	20	13
Total Travel Time (hr)	8	3	6	16
Distance Traveled (mi)	45	51	112	209
Fuel Consumed (gal)	10	6	10	25
Fuel Economy (mpg)	4.6	9.0	11.7	8.3
CO Emissions (kg)	0.68	0.40	0.67	1.76
NOx Emissions (kg)	0.13	0.08	0.13	0.34
VOC Emissions (kg)	0.16	0.09	0.16	0.41
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	53	108	161

4: SW 67 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	473	370	2410	2604	5857
Control Delay / Veh (s/v)	61	45	14	15	20
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	61	45	14	15	20
Total Delay (hr)	8	5	9	11	33
Stops / Veh	0.93	0.65	0.50	0.34	0.47
Stops (#)	441	242	1204	888	2775
Average Speed (mph)	14	7	16	20	16
Total Travel Time (hr)	15	6	16	22	59
Distance Traveled (mi)	213	40	256	427	936
Fuel Consumed (gal)	17	6	28	32	84
Fuel Economy (mpg)	12.5	6.3	9.2	13.3	11.2
CO Emissions (kg)	1.20	0.44	1.95	2.25	5.85
NOx Emissions (kg)	0.23	0.09	0.38	0.44	1.14
VOC Emissions (kg)	0.28	0.10	0.45	0.52	1.36
Unserved Vehicles (#)	0	0	0	2	2
Vehicles in dilemma zone (#)	11	0	149	150	310

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	265	403	2548	2389	5605
Control Delay / Veh (s/v)	64	45	21	17	23
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	64	45	21	17	23
Total Delay (hr)	5	5	15	12	36
Stops / Veh	0.86	0.87	0.81	0.87	0.84
Stops (#)	229	351	2067	2082	4729
Average Speed (mph)	6	15	17	29	22
Total Travel Time (hr)	6	10	25	42	83
Distance Traveled (mi)	33	149	418	1212	1811
Fuel Consumed (gal)	6	12	46	72	136
Fuel Economy (mpg)	5.4	12.7	9.1	16.7	13.3
CO Emissions (kg)	0.42	0.82	3.22	5.06	9.53
NOx Emissions (kg)	0.08	0.16	0.63	0.98	1.85
VOC Emissions (kg)	0.10	0.19	0.75	1.17	2.21
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	149	51	200

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	296	520	2378	2244	5438
Control Delay / Veh (s/v)	43	30	15	21	20
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	30	15	21	20
Total Delay (hr)	4	4	10	13	31
Stops / Veh	0.82	0.55	0.82	0.71	0.75
Stops (#)	242	286	1961	1596	4085
Average Speed (mph)	14	13	30	19	24
Total Travel Time (hr)	7	7	40	24	78
Distance Traveled (mi)	94	92	1206	454	1846
Fuel Consumed (gal)	8	9	70	41	128
Fuel Economy (mpg)	12.0	10.4	17.3	11.0	14.4
CO Emissions (kg)	0.55	0.62	4.88	2.90	8.95
NOx Emissions (kg)	0.11	0.12	0.95	0.56	1.74
VOC Emissions (kg)	0.13	0.14	1.13	0.67	2.07
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	9	10	1	94	114

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	384	287	302	346	1319
Control Delay / Veh (s/v)	36	34	21	21	28
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	36	34	21	21	28
Total Delay (hr)	4	3	2	2	10
Stops / Veh	0.70	0.67	0.53	0.54	0.61
Stops (#)	268	192	160	187	807
Average Speed (mph)	15	9	12	7	12
Total Travel Time (hr)	8	4	3	3	17
Distance Traveled (mi)	116	35	32	18	202
Fuel Consumed (gal)	9	4	3	3	20
Fuel Economy (mpg)	12.8	7.9	9.3	5.5	9.9
CO Emissions (kg)	0.63	0.31	0.24	0.23	1.42
NOx Emissions (kg)	0.12	0.06	0.05	0.04	0.28
VOC Emissions (kg)	0.15	0.07	0.06	0.05	0.33
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	697	652	1349
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	34
Total Travel Time (hr)	10	2	12
Distance Traveled (mi)	347	70	417
Fuel Consumed (gal)	13	3	16
Fuel Economy (mpg)	26.2	24.3	25.9
CO Emissions (kg)	0.92	0.20	1.13
NOx Emissions (kg)	0.18	0.04	0.22
VOC Emissions (kg)	0.21	0.05	0.26
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	2225	2548	4773
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	3	7	10
Distance Traveled (mi)	132	271	403
Fuel Consumed (gal)	5	10	14
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.33	0.68	1.01
NOx Emissions (kg)	0.06	0.13	0.20
VOC Emissions (kg)	0.08	0.16	0.23
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp & US-1

Direction	SE	NE	SW	All
Volume (vph)	26	1554	1896	3476
Control Delay / Veh (s/v)	9	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	9	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	13	40	40	39
Total Travel Time (hr)	0	2	2	4
Distance Traveled (mi)	2	71	72	144
Fuel Consumed (gal)	0	3	3	5
Fuel Economy (mpg)	NA	27.9	27.9	26.9
CO Emissions (kg)	0.02	0.18	0.18	0.38
NOx Emissions (kg)	0.00	0.03	0.03	0.07
VOC Emissions (kg)	0.00	0.04	0.04	0.09
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	13
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	13
Total Delay (hr)	150
Stops / Veh	0.40
Stops (#)	16010
Average Speed (mph)	21
Total Travel Time (hr)	342
Distance Traveled (mi)	7328
Fuel Consumed (gal)	522
Fuel Economy (mpg)	14.0
CO Emissions (kg)	36.52
NOx Emissions (kg)	7.11
VOC Emissions (kg)	8.46
Unserved Vehicles (#)	55
Vehicles in dilemma zone (#)	1096
Performance Index	194.7

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	514	1876	2232	4622
Control Delay / Veh (s/v)	21	23	12	18
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	21	23	12	18
Total Delay (hr)	3	12	8	23
Stops / Veh	0.29	0.27	0.38	0.33
Stops (#)	151	510	852	1513
Average Speed (mph)	12	13	26	19
Total Travel Time (hr)	4	18	22	44
Distance Traveled (mi)	50	231	565	846
Fuel Consumed (gal)	5	22	34	62
Fuel Economy (mpg)	9.3	10.5	16.5	13.7
CO Emissions (kg)	0.38	1.54	2.39	4.32
NOx Emissions (kg)	0.07	0.30	0.47	0.84
VOC Emissions (kg)	0.09	0.36	0.55	1.00
Unserved Vehicles (#)	0	38	0	38
Vehicles in dilemma zone (#)	0	55	100	155

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	99	17	1756	2237	4109
Control Delay / Veh (s/v)	43	55	9	2	6
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	55	9	2	6
Total Delay (hr)	1	0	4	2	7
Stops / Veh	0.60	0.76	0.35	0.07	0.20
Stops (#)	59	13	609	155	836
Average Speed (mph)	4	2	29	25	26
Total Travel Time (hr)	1	0	16	4	21
Distance Traveled (mi)	5	1	444	102	552
Fuel Consumed (gal)	2	0	25	6	33
Fuel Economy (mpg)	3.0	NA	17.7	16.2	16.5
CO Emissions (kg)	0.11	0.02	1.76	0.44	2.34
NOx Emissions (kg)	0.02	0.00	0.34	0.09	0.45
VOC Emissions (kg)	0.03	0.01	0.41	0.10	0.54
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	1	32	91	125

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	708	1823	2288	4819
Control Delay / Veh (s/v)	81	2	1	13
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	81	2	1	13
Total Delay (hr)	16	1	1	18
Stops / Veh	0.93	0.15	0.05	0.22
Stops (#)	660	282	112	1054
Average Speed (mph)	3	23	32	10
Total Travel Time (hr)	18	3	4	24
Distance Traveled (mi)	47	60	136	243
Fuel Consumed (gal)	17	6	7	30
Fuel Economy (mpg)	2.7	10.5	20.7	8.2
CO Emissions (kg)	1.21	0.40	0.46	2.07
NOx Emissions (kg)	0.24	0.08	0.09	0.40
VOC Emissions (kg)	0.28	0.09	0.11	0.48
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	29	9	38

4: SW 67 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	319	538	2473	3877	7207
Control Delay / Veh (s/v)	67	72	15	12	20
Queue Delay / Veh (s/v)	0	0	0	2	1
Total Delay / Veh (s/v)	67	72	15	14	21
Total Delay (hr)	6	11	10	15	42
Stops / Veh	0.89	0.78	0.62	0.53	0.60
Stops (#)	283	417	1521	2072	4293
Average Speed (mph)	14	5	16	21	15
Total Travel Time (hr)	11	13	17	31	71
Distance Traveled (mi)	144	58	263	636	1100
Fuel Consumed (gal)	12	13	32	54	110
Fuel Economy (mpg)	12.1	4.6	8.2	11.8	10.0
CO Emissions (kg)	0.83	0.88	2.23	3.78	7.72
NOx Emissions (kg)	0.16	0.17	0.43	0.74	1.50
VOC Emissions (kg)	0.19	0.20	0.52	0.88	1.79
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	6	0	54	158	218

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	226	650	2502	3545	6923
Control Delay / Veh (s/v)	125	88	6	46	38
Queue Delay / Veh (s/v)	0	0	0	8	4
Total Delay / Veh (s/v)	125	88	6	54	42
Total Delay (hr)	8	16	4	53	81
Stops / Veh	1.18	0.92	0.34	0.80	0.66
Stops (#)	266	595	854	2841	4556
Average Speed (mph)	3	10	29	18	17
Total Travel Time (hr)	9	24	14	98	145
Distance Traveled (mi)	28	240	410	1798	2477
Fuel Consumed (gal)	8	25	26	131	191
Fuel Economy (mpg)	3.3	9.7	15.7	13.7	13.0
CO Emissions (kg)	0.58	1.74	1.82	9.18	13.33
NOx Emissions (kg)	0.11	0.34	0.35	1.79	2.59
VOC Emissions (kg)	0.14	0.40	0.42	2.13	3.09
Unserved Vehicles (#)	6	0	0	170	176
Vehicles in dilemma zone (#)	0	0	51	100	151

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	272	583	2187	2964	6006
Control Delay / Veh (s/v)	120	78	25	17	31
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	120	78	25	17	31
Total Delay (hr)	9	13	15	14	51
Stops / Veh	0.86	0.76	0.65	0.65	0.67
Stops (#)	234	442	1425	1930	4031
Average Speed (mph)	7	7	26	20	19
Total Travel Time (hr)	12	16	43	29	100
Distance Traveled (mi)	86	103	1109	600	1899
Fuel Consumed (gal)	12	17	65	51	144
Fuel Economy (mpg)	7.5	6.2	17.1	11.8	13.2
CO Emissions (kg)	0.81	1.15	4.53	3.56	10.05
NOx Emissions (kg)	0.16	0.22	0.88	0.69	1.96
VOC Emissions (kg)	0.19	0.27	1.05	0.83	2.33
Unserved Vehicles (#)	16	0	0	0	16
Vehicles in dilemma zone (#)	7	8	127	97	239

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	376	443	217	451	1487
Control Delay / Veh (s/v)	38	51	14	24	34
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	38	51	14	24	34
Total Delay (hr)	4	6	1	3	14
Stops / Veh	0.72	0.81	0.35	0.59	0.65
Stops (#)	271	359	76	266	972
Average Speed (mph)	15	7	14	6	10
Total Travel Time (hr)	8	8	2	4	21
Distance Traveled (mi)	114	55	23	24	215
Fuel Consumed (gal)	9	9	2	5	25
Fuel Economy (mpg)	12.5	6.2	11.7	5.1	8.8
CO Emissions (kg)	0.63	0.62	0.14	0.33	1.72
NOx Emissions (kg)	0.12	0.12	0.03	0.06	0.33
VOC Emissions (kg)	0.15	0.14	0.03	0.08	0.40
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	766	1721	2487
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	33
Total Travel Time (hr)	11	6	17
Distance Traveled (mi)	381	185	566
Fuel Consumed (gal)	15	8	22
Fuel Economy (mpg)	26.2	24.3	25.6
CO Emissions (kg)	1.02	0.53	1.55
NOx Emissions (kg)	0.20	0.10	0.30
VOC Emissions (kg)	0.24	0.12	0.36
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	2351	4009	6360
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	3	11	14
Distance Traveled (mi)	139	426	565
Fuel Consumed (gal)	5	15	20
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.35	1.07	1.42
NOx Emissions (kg)	0.07	0.21	0.28
VOC Emissions (kg)	0.08	0.25	0.33
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp & US-1

Direction	SE	NE	SW	All
Volume (vph)	58	1823	2288	4169
Control Delay / Veh (s/v)	9	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	9	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	58	0	0	58
Average Speed (mph)	13	40	40	38
Total Travel Time (hr)	0	2	2	4
Distance Traveled (mi)	4	83	75	162
Fuel Consumed (gal)	1	3	3	6
Fuel Economy (mpg)	NA	27.9	27.9	25.9
CO Emissions (kg)	0.04	0.21	0.19	0.44
NOx Emissions (kg)	0.01	0.04	0.04	0.09
VOC Emissions (kg)	0.01	0.05	0.04	0.10
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	17
Queue Delay / Veh (s/v)	1
Total Delay / Veh (s/v)	18
Total Delay (hr)	236
Stops / Veh	0.36
Stops (#)	17313
Average Speed (mph)	19
Total Travel Time (hr)	462
Distance Traveled (mi)	8626
Fuel Consumed (gal)	643
Fuel Economy (mpg)	13.4
CO Emissions (kg)	44.93
NOx Emissions (kg)	8.74
VOC Emissions (kg)	10.41
Unserved Vehicles (#)	230
Vehicles in dilemma zone (#)	926
Performance Index	284.4

Indirect Left Turns (Alternative 1)

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	163	1971	891	3025
Control Delay / Veh (s/v)	16	4	16	8
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	16	4	16	8
Total Delay (hr)	1	2	4	7
Stops / Veh	0.25	0.23	0.63	0.35
Stops (#)	40	445	565	1050
Average Speed (mph)	14	29	24	26
Total Travel Time (hr)	1	8	10	19
Distance Traveled (mi)	16	243	225	484
Fuel Consumed (gal)	1	15	16	33
Fuel Economy (mpg)	10.7	16.5	13.7	14.8
CO Emissions (kg)	0.10	1.03	1.15	2.28
NOx Emissions (kg)	0.02	0.20	0.22	0.44
VOC Emissions (kg)	0.02	0.24	0.27	0.53
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	50	7	57

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	157	5	2048	744	2954
Control Delay / Veh (s/v)	66	59	8	2	9
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	66	59	8	2	9
Total Delay (hr)	3	0	4	0	8
Stops / Veh	0.87	1.20	0.34	0.06	0.30
Stops (#)	137	6	698	42	883
Average Speed (mph)	3	2	30	28	26
Total Travel Time (hr)	3	0	17	1	22
Distance Traveled (mi)	8	0	518	34	560
Fuel Consumed (gal)	4	0	29	2	34
Fuel Economy (mpg)	2.1	NA	18.1	17.9	16.3
CO Emissions (kg)	0.26	0.01	2.00	0.13	2.40
NOx Emissions (kg)	0.05	0.00	0.39	0.03	0.47
VOC Emissions (kg)	0.06	0.00	0.46	0.03	0.56
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	2	0	100	20	122

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	1006	2225	886	4117
Control Delay / Veh (s/v)	55	12	7	21
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	55	12	7	21
Total Delay (hr)	15	7	2	25
Stops / Veh	0.90	0.57	0.28	0.59
Stops (#)	906	1274	251	2431
Average Speed (mph)	4	8	17	6
Total Travel Time (hr)	18	9	3	30
Distance Traveled (mi)	69	73	53	195
Fuel Consumed (gal)	19	21	6	45
Fuel Economy (mpg)	3.6	3.6	9.3	4.3
CO Emissions (kg)	1.33	1.44	0.39	3.17
NOx Emissions (kg)	0.26	0.28	0.08	0.62
VOC Emissions (kg)	0.31	0.33	0.09	0.73
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	28	10	38

4: SW 67 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	508	302	3231	1339	5380
Control Delay / Veh (s/v)	79	82	5	3	16
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	79	82	5	3	16
Total Delay (hr)	11	7	4	1	24
Stops / Veh	0.94	0.90	0.45	0.22	0.46
Stops (#)	475	272	1440	301	2488
Average Speed (mph)	12	4	26	32	18
Total Travel Time (hr)	18	8	13	7	46
Distance Traveled (mi)	229	32	343	220	825
Fuel Consumed (gal)	20	8	30	12	70
Fuel Economy (mpg)	11.3	4.1	11.6	18.7	11.9
CO Emissions (kg)	1.41	0.55	2.08	0.82	4.86
NOx Emissions (kg)	0.27	0.11	0.40	0.16	0.95
VOC Emissions (kg)	0.33	0.13	0.48	0.19	1.13
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	12	0	20	36	68

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	549	307	3221	1376	5453
Control Delay / Veh (s/v)	84	89	13	13	25
Queue Delay / Veh (s/v)	0	0	1	0	0
Total Delay / Veh (s/v)	84	89	14	13	25
Total Delay (hr)	13	8	13	5	38
Stops / Veh	1.26	0.94	0.51	0.45	0.59
Stops (#)	690	289	1645	617	3241
Average Speed (mph)	4	10	20	28	18
Total Travel Time (hr)	15	11	26	25	77
Distance Traveled (mi)	68	114	528	698	1407
Fuel Consumed (gal)	16	12	44	35	107
Fuel Economy (mpg)	4.2	9.6	11.9	20.0	13.1
CO Emissions (kg)	1.12	0.83	3.11	2.44	7.49
NOx Emissions (kg)	0.22	0.16	0.60	0.47	1.46
VOC Emissions (kg)	0.26	0.19	0.72	0.56	1.74
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	76	46	122

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	190	370	3171	1396	5127
Control Delay / Veh (s/v)	61	58	20	13	22
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	61	58	20	13	22
Total Delay (hr)	3	6	18	5	32
Stops / Veh	0.87	0.74	0.69	0.45	0.63
Stops (#)	166	272	2182	623	3243
Average Speed (mph)	12	8	25	24	23
Total Travel Time (hr)	5	8	64	12	89
Distance Traveled (mi)	60	65	1608	283	2017
Fuel Consumed (gal)	6	9	91	20	125
Fuel Economy (mpg)	10.4	7.3	17.7	14.2	16.1
CO Emissions (kg)	0.40	0.62	6.34	1.39	8.76
NOx Emissions (kg)	0.08	0.12	1.23	0.27	1.70
VOC Emissions (kg)	0.09	0.14	1.47	0.32	2.03
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	6	7	100	46	159

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	791	289	268	213	1561
Control Delay / Veh (s/v)	41	26	2	21	29
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	41	26	2	21	29
Total Delay (hr)	9	2	0	1	12
Stops / Veh	0.78	0.63	0.04	0.52	0.59
Stops (#)	615	181	11	110	917
Average Speed (mph)	14	11	26	7	14
Total Travel Time (hr)	17	3	1	2	23
Distance Traveled (mi)	239	36	29	11	314
Fuel Consumed (gal)	20	4	1	2	27
Fuel Economy (mpg)	12.1	8.9	21.5	5.6	11.6
CO Emissions (kg)	1.38	0.28	0.09	0.14	1.90
NOx Emissions (kg)	0.27	0.05	0.02	0.03	0.37
VOC Emissions (kg)	0.32	0.06	0.02	0.03	0.44
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	1032	490	1522
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	35
Total Travel Time (hr)	15	2	16
Distance Traveled (mi)	511	53	564
Fuel Consumed (gal)	19	2	22
Fuel Economy (mpg)	26.2	24.3	26.0
CO Emissions (kg)	1.36	0.15	1.51
NOx Emissions (kg)	0.27	0.03	0.29
VOC Emissions (kg)	0.32	0.04	0.35
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	3231	1376	4607
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	5	4	8
Distance Traveled (mi)	192	146	338
Fuel Consumed (gal)	7	5	12
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.48	0.37	0.85
NOx Emissions (kg)	0.09	0.07	0.16
VOC Emissions (kg)	0.11	0.08	0.20
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp & US-1

Direction	SE	NE	SW	All
Volume (vph)	26	2225	886	3137
Control Delay / Veh (s/v)	9	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	9	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	14	40	40	39
Total Travel Time (hr)	0	3	1	3
Distance Traveled (mi)	2	102	29	132
Fuel Consumed (gal)	0	4	1	5
Fuel Economy (mpg)	NA	27.9	27.9	26.8
CO Emissions (kg)	0.02	0.25	0.07	0.35
NOx Emissions (kg)	0.00	0.05	0.01	0.07
VOC Emissions (kg)	0.00	0.06	0.02	0.08
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	14
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	14
Total Delay (hr)	145
Stops / Veh	0.39
Stops (#)	14279
Average Speed (mph)	20
Total Travel Time (hr)	334
Distance Traveled (mi)	6836
Fuel Consumed (gal)	480
Fuel Economy (mpg)	14.2
CO Emissions (kg)	33.56
NOx Emissions (kg)	6.53
VOC Emissions (kg)	7.78
Unserved Vehicles (#)	0
Vehicles in dilemma zone (#)	566
Performance Index	184.8

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	364	2002	1879	4245
Control Delay / Veh (s/v)	14	27	2	15
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	14	27	2	15
Total Delay (hr)	1	15	1	17
Stops / Veh	0.28	0.35	0.10	0.23
Stops (#)	102	696	190	988
Average Speed (mph)	15	12	37	21
Total Travel Time (hr)	2	21	13	36
Distance Traveled (mi)	36	246	475	758
Fuel Consumed (gal)	3	27	20	50
Fuel Economy (mpg)	10.7	9.2	24.3	15.3
CO Emissions (kg)	0.23	1.86	1.37	3.46
NOx Emissions (kg)	0.05	0.36	0.27	0.67
VOC Emissions (kg)	0.05	0.43	0.32	0.80
Unserved Vehicles (#)	0	53	0	53
Vehicles in dilemma zone (#)	0	76	21	97

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	71	11	1968	2204	4254
Control Delay / Veh (s/v)	36	40	10	8	10
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	36	40	10	8	10
Total Delay (hr)	1	0	6	5	12
Stops / Veh	0.76	0.91	0.35	0.33	0.35
Stops (#)	54	10	691	721	1476
Average Speed (mph)	4	3	28	13	23
Total Travel Time (hr)	1	0	18	8	27
Distance Traveled (mi)	3	0	498	101	603
Fuel Consumed (gal)	1	0	29	14	45
Fuel Economy (mpg)	3.0	NA	17.4	7.0	13.5
CO Emissions (kg)	0.08	0.01	2.01	1.01	3.11
NOx Emissions (kg)	0.02	0.00	0.39	0.20	0.61
VOC Emissions (kg)	0.02	0.00	0.46	0.23	0.72
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	0	63	145	209

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	671	1554	1896	4121
Control Delay / Veh (s/v)	36	3	6	10
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	36	3	6	10
Total Delay (hr)	7	1	3	11
Stops / Veh	0.81	0.18	0.20	0.29
Stops (#)	543	284	381	1208
Average Speed (mph)	6	19	19	12
Total Travel Time (hr)	8	3	6	17
Distance Traveled (mi)	46	51	112	210
Fuel Consumed (gal)	10	6	10	26
Fuel Economy (mpg)	4.7	9.0	11.2	8.2
CO Emissions (kg)	0.69	0.40	0.70	1.79
NOx Emissions (kg)	0.13	0.08	0.14	0.35
VOC Emissions (kg)	0.16	0.09	0.16	0.41
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	53	136	189

4: SW 67 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	473	502	2410	2533	5918
Control Delay / Veh (s/v)	36	41	13	10	16
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	36	41	13	10	16
Total Delay (hr)	5	6	8	7	26
Stops / Veh	0.79	0.84	0.51	0.34	0.49
Stops (#)	374	420	1231	873	2898
Average Speed (mph)	18	7	17	24	18
Total Travel Time (hr)	12	8	15	18	51
Distance Traveled (mi)	213	54	256	415	939
Fuel Consumed (gal)	14	9	27	29	79
Fuel Economy (mpg)	14.9	6.2	9.3	14.5	11.9
CO Emissions (kg)	1.00	0.61	1.92	2.01	5.54
NOx Emissions (kg)	0.19	0.12	0.37	0.39	1.08
VOC Emissions (kg)	0.23	0.14	0.44	0.47	1.28
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	14	0	143	172	329

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	421	404	2625	2389	5839
Control Delay / Veh (s/v)	49	55	18	21	24
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	49	55	18	21	24
Total Delay (hr)	6	6	13	14	39
Stops / Veh	0.76	0.93	0.74	0.91	0.82
Stops (#)	321	375	1936	2170	4802
Average Speed (mph)	7	13	18	27	21
Total Travel Time (hr)	8	11	24	45	87
Distance Traveled (mi)	52	149	431	1212	1843
Fuel Consumed (gal)	8	13	44	75	140
Fuel Economy (mpg)	6.4	11.7	9.8	16.1	13.2
CO Emissions (kg)	0.57	0.89	3.08	5.25	9.80
NOx Emissions (kg)	0.11	0.17	0.60	1.02	1.91
VOC Emissions (kg)	0.13	0.21	0.71	1.22	2.27
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	149	51	200

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	296	520	2378	2244	5438
Control Delay / Veh (s/v)	43	30	18	21	22
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	30	18	21	22
Total Delay (hr)	4	4	12	13	33
Stops / Veh	0.82	0.55	0.87	0.71	0.77
Stops (#)	242	286	2074	1596	4198
Average Speed (mph)	14	13	28	19	23
Total Travel Time (hr)	7	7	42	24	80
Distance Traveled (mi)	94	92	1206	454	1846
Fuel Consumed (gal)	8	9	73	41	131
Fuel Economy (mpg)	12.0	10.4	16.6	11.0	14.1
CO Emissions (kg)	0.55	0.62	5.07	2.90	9.14
NOx Emissions (kg)	0.11	0.12	0.99	0.56	1.78
VOC Emissions (kg)	0.13	0.14	1.18	0.67	2.12
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	9	10	1	94	114

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	384	588	286	346	1604
Control Delay / Veh (s/v)	33	35	13	22	28
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	33	35	13	22	28
Total Delay (hr)	3	6	1	2	12
Stops / Veh	0.66	0.69	0.31	0.55	0.58
Stops (#)	253	404	88	189	934
Average Speed (mph)	16	9	15	7	12
Total Travel Time (hr)	7	8	2	3	20
Distance Traveled (mi)	116	72	31	18	237
Fuel Consumed (gal)	9	9	2	3	24
Fuel Economy (mpg)	13.3	7.7	12.4	5.4	9.9
CO Emissions (kg)	0.61	0.65	0.17	0.24	1.67
NOx Emissions (kg)	0.12	0.13	0.03	0.05	0.33
VOC Emissions (kg)	0.14	0.15	0.04	0.05	0.39
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	697	652	1349
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	34
Total Travel Time (hr)	10	2	12
Distance Traveled (mi)	345	70	415
Fuel Consumed (gal)	13	3	16
Fuel Economy (mpg)	26.2	24.3	25.9
CO Emissions (kg)	0.92	0.20	1.12
NOx Emissions (kg)	0.18	0.04	0.22
VOC Emissions (kg)	0.21	0.05	0.26
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	2225	2548	4773
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	3	7	10
Distance Traveled (mi)	132	271	403
Fuel Consumed (gal)	5	10	14
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.33	0.68	1.01
NOx Emissions (kg)	0.06	0.13	0.20
VOC Emissions (kg)	0.08	0.16	0.23
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp & US-1

Direction	SE	NE	SW	All
Volume (vph)	26	1554	1896	3476
Control Delay / Veh (s/v)	9	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	9	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	13	40	40	39
Total Travel Time (hr)	0	2	2	3
Distance Traveled (mi)	2	71	62	135
Fuel Consumed (gal)	0	3	2	5
Fuel Economy (mpg)	NA	27.9	27.9	26.8
CO Emissions (kg)	0.02	0.18	0.16	0.35
NOx Emissions (kg)	0.00	0.03	0.03	0.07
VOC Emissions (kg)	0.00	0.04	0.04	0.08
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	13
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	13
Total Delay (hr)	151
Stops / Veh	0.40
Stops (#)	16530
Average Speed (mph)	21
Total Travel Time (hr)	345
Distance Traveled (mi)	7389
Fuel Consumed (gal)	529
Fuel Economy (mpg)	14.0
CO Emissions (kg)	36.99
NOx Emissions (kg)	7.20
VOC Emissions (kg)	8.57
Unserved Vehicles (#)	53
Vehicles in dilemma zone (#)	1138
Performance Index	196.9

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	514	1876	2232	4622
Control Delay / Veh (s/v)	21	23	11	17
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	21	23	11	17
Total Delay (hr)	3	12	7	22
Stops / Veh	0.29	0.27	0.36	0.32
Stops (#)	151	510	813	1474
Average Speed (mph)	12	13	27	20
Total Travel Time (hr)	4	18	21	43
Distance Traveled (mi)	50	231	565	846
Fuel Consumed (gal)	5	22	33	61
Fuel Economy (mpg)	9.3	10.5	17.0	13.9
CO Emissions (kg)	0.38	1.54	2.33	4.25
NOx Emissions (kg)	0.07	0.30	0.45	0.83
VOC Emissions (kg)	0.09	0.36	0.54	0.98
Unserved Vehicles (#)	0	38	0	38
Vehicles in dilemma zone (#)	0	55	88	143

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	99	17	1756	2237	4109
Control Delay / Veh (s/v)	43	55	9	5	8
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	55	9	5	8
Total Delay (hr)	1	0	4	3	9
Stops / Veh	0.60	0.76	0.35	0.18	0.26
Stops (#)	59	13	609	399	1080
Average Speed (mph)	4	2	29	18	24
Total Travel Time (hr)	1	0	16	6	23
Distance Traveled (mi)	5	1	444	102	552
Fuel Consumed (gal)	2	0	25	10	37
Fuel Economy (mpg)	3.0	NA	17.7	10.3	14.9
CO Emissions (kg)	0.11	0.02	1.76	0.69	2.59
NOx Emissions (kg)	0.02	0.00	0.34	0.13	0.50
VOC Emissions (kg)	0.03	0.01	0.41	0.16	0.60
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	1	32	92	126

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	708	1823	2288	4819
Control Delay / Veh (s/v)	81	2	1	13
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	81	2	1	13
Total Delay (hr)	16	1	1	18
Stops / Veh	0.93	0.15	0.06	0.22
Stops (#)	660	282	131	1073
Average Speed (mph)	3	23	32	10
Total Travel Time (hr)	18	3	4	24
Distance Traveled (mi)	49	60	136	244
Fuel Consumed (gal)	17	6	7	30
Fuel Economy (mpg)	2.8	10.5	20.0	8.2
CO Emissions (kg)	1.21	0.40	0.47	2.09
NOx Emissions (kg)	0.24	0.08	0.09	0.41
VOC Emissions (kg)	0.28	0.09	0.11	0.48
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	29	30	59

4: SW 67 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	319	525	2473	3890	7207
Control Delay / Veh (s/v)	54	69	10	5	14
Queue Delay / Veh (s/v)	0	0	0	1	1
Total Delay / Veh (s/v)	54	69	10	6	14
Total Delay (hr)	5	10	7	6	28
Stops / Veh	0.85	0.87	0.57	0.21	0.41
Stops (#)	270	459	1413	822	2964
Average Speed (mph)	15	5	19	28	19
Total Travel Time (hr)	9	12	14	22	57
Distance Traveled (mi)	144	56	263	638	1101
Fuel Consumed (gal)	11	12	28	36	87
Fuel Economy (mpg)	13.2	4.6	9.2	17.9	12.6
CO Emissions (kg)	0.76	0.85	1.99	2.49	6.10
NOx Emissions (kg)	0.15	0.17	0.39	0.49	1.19
VOC Emissions (kg)	0.18	0.20	0.46	0.58	1.41
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	7	0	55	103	165

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	374	650	2485	3545	7054
Control Delay / Veh (s/v)	128	88	10	55	46
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	128	88	10	55	46
Total Delay (hr)	13	16	7	54	90
Stops / Veh	0.81	0.92	0.24	0.87	0.65
Stops (#)	304	595	597	3075	4571
Average Speed (mph)	3	10	23	18	16
Total Travel Time (hr)	15	24	17	99	155
Distance Traveled (mi)	46	240	408	1798	2492
Fuel Consumed (gal)	13	25	26	134	198
Fuel Economy (mpg)	3.5	9.7	15.8	13.4	12.6
CO Emissions (kg)	0.93	1.74	1.80	9.37	13.84
NOx Emissions (kg)	0.18	0.34	0.35	1.82	2.69
VOC Emissions (kg)	0.22	0.40	0.42	2.17	3.21
Unserved Vehicles (#)	26	0	0	233	259
Vehicles in dilemma zone (#)	0	0	51	100	151

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	272	583	2187	2964	6006
Control Delay / Veh (s/v)	120	78	23	17	30
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	120	78	23	17	30
Total Delay (hr)	9	13	14	14	50
Stops / Veh	0.86	0.76	0.64	0.65	0.67
Stops (#)	234	442	1389	1930	3995
Average Speed (mph)	7	7	26	20	19
Total Travel Time (hr)	12	16	42	29	99
Distance Traveled (mi)	86	103	1109	600	1899
Fuel Consumed (gal)	12	17	64	51	143
Fuel Economy (mpg)	7.5	6.2	17.4	11.8	13.3
CO Emissions (kg)	0.81	1.15	4.46	3.56	9.98
NOx Emissions (kg)	0.16	0.22	0.87	0.69	1.94
VOC Emissions (kg)	0.19	0.27	1.03	0.83	2.31
Unserved Vehicles (#)	16	0	0	0	16
Vehicles in dilemma zone (#)	7	8	124	97	236

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	376	561	234	451	1622
Control Delay / Veh (s/v)	51	70	8	28	45
Queue Delay / Veh (s/v)	0	1	0	0	0
Total Delay / Veh (s/v)	51	71	8	28	45
Total Delay (hr)	5	11	0	4	20
Stops / Veh	0.75	0.81	0.16	0.62	0.65
Stops (#)	281	455	38	280	1054
Average Speed (mph)	12	5	19	5	8
Total Travel Time (hr)	9	13	1	4	28
Distance Traveled (mi)	114	69	25	24	231
Fuel Consumed (gal)	10	13	2	5	30
Fuel Economy (mpg)	11.2	5.1	15.6	4.6	7.6
CO Emissions (kg)	0.71	0.94	0.11	0.36	2.12
NOx Emissions (kg)	0.14	0.18	0.02	0.07	0.41
VOC Emissions (kg)	0.16	0.22	0.03	0.08	0.49
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	766	1721	2487
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	33
Total Travel Time (hr)	11	6	17
Distance Traveled (mi)	380	184	564
Fuel Consumed (gal)	14	8	22
Fuel Economy (mpg)	26.2	24.3	25.6
CO Emissions (kg)	1.01	0.53	1.54
NOx Emissions (kg)	0.20	0.10	0.30
VOC Emissions (kg)	0.23	0.12	0.36
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	2351	4009	6360
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	3	11	14
Distance Traveled (mi)	139	426	565
Fuel Consumed (gal)	5	15	20
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.35	1.07	1.42
NOx Emissions (kg)	0.07	0.21	0.28
VOC Emissions (kg)	0.08	0.25	0.33
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp & US-1

Direction	SE	NE	SW	All
Volume (vph)	58	1823	2288	4169
Control Delay / Veh (s/v)	9	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	9	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	58	0	0	58
Average Speed (mph)	14	40	40	38
Total Travel Time (hr)	0	2	2	4
Distance Traveled (mi)	4	83	75	162
Fuel Consumed (gal)	1	3	3	6
Fuel Economy (mpg)	NA	27.9	27.9	25.9
CO Emissions (kg)	0.04	0.21	0.19	0.44
NOx Emissions (kg)	0.01	0.04	0.04	0.09
VOC Emissions (kg)	0.01	0.05	0.04	0.10
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	18
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	18
Total Delay (hr)	238
Stops / Veh	0.34
Stops (#)	16269
Average Speed (mph)	19
Total Travel Time (hr)	465
Distance Traveled (mi)	8657
Fuel Consumed (gal)	635
Fuel Economy (mpg)	13.6
CO Emissions (kg)	44.36
NOx Emissions (kg)	8.63
VOC Emissions (kg)	10.28
Unserved Vehicles (#)	313
Vehicles in dilemma zone (#)	880
Performance Index	283.4

Turbo Lanes (Alternative 2)

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	163	1971	891	3025
Control Delay / Veh (s/v)	16	4	21	10
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	16	4	21	10
Total Delay (hr)	1	2	5	8
Stops / Veh	0.25	0.23	0.75	0.38
Stops (#)	40	445	664	1149
Average Speed (mph)	14	29	21	24
Total Travel Time (hr)	1	8	11	20
Distance Traveled (mi)	16	243	225	484
Fuel Consumed (gal)	1	15	18	35
Fuel Economy (mpg)	10.7	16.5	12.3	14.0
CO Emissions (kg)	0.10	1.03	1.28	2.41
NOx Emissions (kg)	0.02	0.20	0.25	0.47
VOC Emissions (kg)	0.02	0.24	0.30	0.56
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	50	7	57

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	157	5	2048	744	2954
Control Delay / Veh (s/v)	66	59	8	0	9
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	66	59	8	0	9
Total Delay (hr)	3	0	4	0	7
Stops / Veh	0.87	1.20	0.34	0.00	0.29
Stops (#)	137	6	698	2	843
Average Speed (mph)	3	2	30	38	26
Total Travel Time (hr)	3	0	17	1	21
Distance Traveled (mi)	8	0	518	34	560
Fuel Consumed (gal)	4	0	29	1	34
Fuel Economy (mpg)	2.1	NA	18.1	26.6	16.6
CO Emissions (kg)	0.26	0.01	2.00	0.09	2.36
NOx Emissions (kg)	0.05	0.00	0.39	0.02	0.46
VOC Emissions (kg)	0.06	0.00	0.46	0.02	0.55
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	2	0	100	1	103

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	1006	445	886	2337
Control Delay / Veh (s/v)	35	28	16	27
Queue Delay / Veh (s/v)	0	1	0	0
Total Delay / Veh (s/v)	35	29	16	27
Total Delay (hr)	10	4	4	17
Stops / Veh	0.76	0.73	0.50	0.66
Stops (#)	769	326	440	1535
Average Speed (mph)	6	4	10	6
Total Travel Time (hr)	12	4	5	21
Distance Traveled (mi)	69	15	53	136
Fuel Consumed (gal)	14	6	9	30
Fuel Economy (mpg)	4.8	2.3	5.7	4.6
CO Emissions (kg)	1.00	0.45	0.64	2.08
NOx Emissions (kg)	0.19	0.09	0.12	0.41
VOC Emissions (kg)	0.23	0.10	0.15	0.48
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	4	23	27

4: US-1 & SW 67 Avenue

Direction	EB	NB	SB	NE	SW	All
Volume (vph)	1451	508	215	1780	1408	5362
Control Delay / Veh (s/v)	10	67	49	12	6	17
Queue Delay / Veh (s/v)	0	1	0	1	0	0
Total Delay / Veh (s/v)	11	68	49	13	6	17
Total Delay (hr)	4	10	3	6	2	26
Stops / Veh	0.63	0.63	0.73	0.47	0.38	0.52
Stops (#)	917	321	158	830	540	2766
Average Speed (mph)	19	14	6	20	28	18
Total Travel Time (hr)	8	17	4	18	8	55
Distance Traveled (mi)	154	229	23	359	231	997
Fuel Consumed (gal)	18	18	4	24	15	79
Fuel Economy (mpg)	8.7	12.6	5.8	14.9	15.0	12.6
CO Emissions (kg)	1.23	1.27	0.28	1.68	1.07	5.54
NOx Emissions (kg)	0.24	0.25	0.05	0.33	0.21	1.08
VOC Emissions (kg)	0.29	0.30	0.06	0.39	0.25	1.28
Unserved Vehicles (#)	0	0	0	0	0	0
Vehicles in dilemma zone (#)	0	10	0	0	0	10

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	453	307	3226	1376	5362
Control Delay / Veh (s/v)	77	89	18	11	25
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	77	89	18	11	25
Total Delay (hr)	10	8	16	4	37
Stops / Veh	1.13	0.94	0.86	0.41	0.77
Stops (#)	512	289	2782	559	4142
Average Speed (mph)	5	10	18	29	18
Total Travel Time (hr)	12	11	29	24	76
Distance Traveled (mi)	56	114	529	698	1396
Fuel Consumed (gal)	12	12	58	34	116
Fuel Economy (mpg)	4.6	9.6	9.2	20.7	12.1
CO Emissions (kg)	0.86	0.83	4.04	2.36	8.08
NOx Emissions (kg)	0.17	0.16	0.79	0.46	1.57
VOC Emissions (kg)	0.20	0.19	0.94	0.55	1.87
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	48	46	94

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	190	370	3171	1396	5127
Control Delay / Veh (s/v)	61	58	20	13	22
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	61	58	20	13	22
Total Delay (hr)	3	6	18	5	32
Stops / Veh	0.87	0.74	0.69	0.45	0.63
Stops (#)	166	272	2182	623	3243
Average Speed (mph)	12	8	25	24	23
Total Travel Time (hr)	5	8	64	12	89
Distance Traveled (mi)	60	65	1608	283	2017
Fuel Consumed (gal)	6	9	91	20	125
Fuel Economy (mpg)	10.4	7.3	17.7	14.2	16.1
CO Emissions (kg)	0.40	0.62	6.34	1.39	8.76
NOx Emissions (kg)	0.08	0.12	1.23	0.27	1.70
VOC Emissions (kg)	0.09	0.14	1.47	0.32	2.03
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	6	7	100	46	159

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	791	129	245	213	1378
Control Delay / Veh (s/v)	38	31	9	21	29
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	38	31	9	21	29
Total Delay (hr)	8	1	1	1	11
Stops / Veh	0.75	1.22	0.21	0.52	0.67
Stops (#)	597	158	51	111	917
Average Speed (mph)	15	10	18	7	14
Total Travel Time (hr)	16	2	1	2	21
Distance Traveled (mi)	239	16	26	11	292
Fuel Consumed (gal)	19	2	2	2	25
Fuel Economy (mpg)	12.4	6.8	14.7	5.6	11.5
CO Emissions (kg)	1.34	0.16	0.13	0.14	1.77
NOx Emissions (kg)	0.26	0.03	0.02	0.03	0.34
VOC Emissions (kg)	0.31	0.04	0.03	0.03	0.41
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	1032	490	1522
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	35
Total Travel Time (hr)	15	2	16
Distance Traveled (mi)	511	53	564
Fuel Consumed (gal)	19	2	22
Fuel Economy (mpg)	26.2	24.3	26.0
CO Emissions (kg)	1.36	0.15	1.51
NOx Emissions (kg)	0.27	0.03	0.29
VOC Emissions (kg)	0.32	0.04	0.35
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	1451	1376	2827
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	2	4	6
Distance Traveled (mi)	86	146	232
Fuel Consumed (gal)	3	5	8
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.22	0.37	0.58
NOx Emissions (kg)	0.04	0.07	0.11
VOC Emissions (kg)	0.05	0.08	0.13
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp &

Direction	SE	NE	SW	All
Volume (vph)	26	2225	886	3137
Control Delay / Veh (s/v)	0	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	0	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	30	40	40	40
Total Travel Time (hr)	0	3	1	3
Distance Traveled (mi)	2	102	29	132
Fuel Consumed (gal)	0	4	1	5
Fuel Economy (mpg)	NA	27.9	27.9	27.0
CO Emissions (kg)	0.01	0.25	0.07	0.34
NOx Emissions (kg)	0.00	0.05	0.01	0.07
VOC Emissions (kg)	0.00	0.06	0.02	0.08
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	15
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	15
Total Delay (hr)	139
Stops / Veh	0.44
Stops (#)	14621
Average Speed (mph)	21
Total Travel Time (hr)	329
Distance Traveled (mi)	6811
Fuel Consumed (gal)	479
Fuel Economy (mpg)	14.2
CO Emissions (kg)	33.45
NOx Emissions (kg)	6.51
VOC Emissions (kg)	7.75
Unserved Vehicles (#)	0
Vehicles in dilemma zone (#)	450
Performance Index	179.3

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	364	2002	1879	4245
Control Delay / Veh (s/v)	14	27	1	14
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	14	27	1	14
Total Delay (hr)	1	15	1	17
Stops / Veh	0.28	0.35	0.06	0.21
Stops (#)	102	696	105	903
Average Speed (mph)	15	12	38	21
Total Travel Time (hr)	2	21	12	36
Distance Traveled (mi)	36	246	475	758
Fuel Consumed (gal)	3	27	18	48
Fuel Economy (mpg)	10.7	9.2	25.7	15.6
CO Emissions (kg)	0.23	1.86	1.29	3.39
NOx Emissions (kg)	0.05	0.36	0.25	0.66
VOC Emissions (kg)	0.05	0.43	0.30	0.79
Unserved Vehicles (#)	0	53	0	53
Vehicles in dilemma zone (#)	0	76	18	94

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	71	11	1968	2204	4254
Control Delay / Veh (s/v)	36	40	10	5	8
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	36	40	10	5	8
Total Delay (hr)	1	0	6	3	9
Stops / Veh	0.76	0.91	0.35	0.23	0.30
Stops (#)	54	10	691	506	1261
Average Speed (mph)	4	3	28	18	25
Total Travel Time (hr)	1	0	18	5	24
Distance Traveled (mi)	3	0	498	101	603
Fuel Consumed (gal)	1	0	29	11	41
Fuel Economy (mpg)	3.0	NA	17.4	9.4	14.8
CO Emissions (kg)	0.08	0.01	2.01	0.75	2.85
NOx Emissions (kg)	0.02	0.00	0.39	0.15	0.56
VOC Emissions (kg)	0.02	0.00	0.46	0.17	0.66
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	0	63	121	185

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	671	311	1896	2878
Control Delay / Veh (s/v)	34	5	11	15
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	34	6	11	15
Total Delay (hr)	6	0	6	12
Stops / Veh	0.80	0.18	0.42	0.48
Stops (#)	536	57	789	1382
Average Speed (mph)	6	14	13	10
Total Travel Time (hr)	8	1	8	17
Distance Traveled (mi)	46	10	112	169
Fuel Consumed (gal)	9	1	16	27
Fuel Economy (mpg)	4.9	8.0	7.1	6.3
CO Emissions (kg)	0.66	0.09	1.11	1.86
NOx Emissions (kg)	0.13	0.02	0.22	0.36
VOC Emissions (kg)	0.15	0.02	0.26	0.43
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	12	109	121

4: US-1 & SW 67 Avenue

Direction	EB	NB	SB	NE	SW	All
Volume (vph)	982	473	370	1243	2604	5672
Control Delay / Veh (s/v)	17	40	44	18	10	18
Queue Delay / Veh (s/v)	0	0	0	0	0	0
Total Delay / Veh (s/v)	17	40	44	18	10	18
Total Delay (hr)	5	5	4	6	7	28
Stops / Veh	0.73	0.62	0.65	0.49	0.31	0.47
Stops (#)	714	294	242	609	811	2670
Average Speed (mph)	14	18	7	17	24	18
Total Travel Time (hr)	7	12	6	15	18	58
Distance Traveled (mi)	104	213	40	251	427	1035
Fuel Consumed (gal)	14	14	6	18	29	82
Fuel Economy (mpg)	7.4	15.0	6.4	13.7	15.0	12.7
CO Emissions (kg)	0.99	1.00	0.44	1.28	2.00	5.70
NOx Emissions (kg)	0.19	0.19	0.09	0.25	0.39	1.11
VOC Emissions (kg)	0.23	0.23	0.10	0.30	0.46	1.32
Unserved Vehicles (#)	0	0	0	0	0	0
Vehicles in dilemma zone (#)	0	11	0	0	0	11

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	265	404	2548	2389	5606
Control Delay / Veh (s/v)	47	56	14	16	20
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	47	56	14	16	20
Total Delay (hr)	3	6	10	11	31
Stops / Veh	0.85	0.93	0.55	0.73	0.67
Stops (#)	226	376	1393	1755	3750
Average Speed (mph)	7	13	20	30	23
Total Travel Time (hr)	5	11	21	41	77
Distance Traveled (mi)	33	149	418	1212	1812
Fuel Consumed (gal)	5	13	36	69	123
Fuel Economy (mpg)	6.4	11.6	11.6	17.7	14.8
CO Emissions (kg)	0.36	0.90	2.52	4.79	8.57
NOx Emissions (kg)	0.07	0.17	0.49	0.93	1.67
VOC Emissions (kg)	0.08	0.21	0.58	1.11	1.99
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	59	62	121

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	296	520	2378	2244	5438
Control Delay / Veh (s/v)	43	30	20	21	22
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	30	20	21	22
Total Delay (hr)	4	4	13	13	34
Stops / Veh	0.82	0.55	0.90	0.71	0.78
Stops (#)	242	286	2131	1596	4255
Average Speed (mph)	14	13	28	19	23
Total Travel Time (hr)	7	7	43	24	81
Distance Traveled (mi)	94	92	1206	454	1846
Fuel Consumed (gal)	8	9	74	41	132
Fuel Economy (mpg)	12.0	10.4	16.4	11.0	14.0
CO Emissions (kg)	0.55	0.62	5.14	2.90	9.21
NOx Emissions (kg)	0.11	0.12	1.00	0.56	1.79
VOC Emissions (kg)	0.13	0.14	1.19	0.67	2.13
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	9	10	1	94	114

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	384	287	302	346	1319
Control Delay / Veh (s/v)	31	32	21	23	27
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	31	32	21	23	27
Total Delay (hr)	3	3	2	2	10
Stops / Veh	0.65	0.64	0.52	0.57	0.60
Stops (#)	251	184	157	196	788
Average Speed (mph)	16	10	11	6	12
Total Travel Time (hr)	7	4	3	3	17
Distance Traveled (mi)	116	35	32	18	202
Fuel Consumed (gal)	9	4	3	3	20
Fuel Economy (mpg)	13.5	8.2	9.3	5.2	10.2
CO Emissions (kg)	0.60	0.30	0.24	0.24	1.39
NOx Emissions (kg)	0.12	0.06	0.05	0.05	0.27
VOC Emissions (kg)	0.14	0.07	0.06	0.06	0.32
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	697	652	1349
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	34
Total Travel Time (hr)	10	2	12
Distance Traveled (mi)	345	70	416
Fuel Consumed (gal)	13	3	16
Fuel Economy (mpg)	26.2	24.3	25.9
CO Emissions (kg)	0.92	0.20	1.12
NOx Emissions (kg)	0.18	0.04	0.22
VOC Emissions (kg)	0.21	0.05	0.26
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	982	2548	3530
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	1	7	8
Distance Traveled (mi)	58	271	329
Fuel Consumed (gal)	2	10	12
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.15	0.68	0.82
NOx Emissions (kg)	0.03	0.13	0.16
VOC Emissions (kg)	0.03	0.16	0.19
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp &

Direction	SE	NE	SW	All
Volume (vph)	26	1554	1896	3476
Control Delay / Veh (s/v)	0	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	0	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	30	40	40	40
Total Travel Time (hr)	0	2	2	3
Distance Traveled (mi)	2	71	62	135
Fuel Consumed (gal)	0	3	2	5
Fuel Economy (mpg)	NA	27.9	27.9	27.1
CO Emissions (kg)	0.01	0.18	0.16	0.35
NOx Emissions (kg)	0.00	0.03	0.03	0.07
VOC Emissions (kg)	0.00	0.04	0.04	0.08
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	13
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	13
Total Delay (hr)	141
Stops / Veh	0.40
Stops (#)	15035
Average Speed (mph)	22
Total Travel Time (hr)	334
Distance Traveled (mi)	7304
Fuel Consumed (gal)	504
Fuel Economy (mpg)	14.5
CO Emissions (kg)	35.26
NOx Emissions (kg)	6.86
VOC Emissions (kg)	8.17
Unserved Vehicles (#)	53
Vehicles in dilemma zone (#)	646
Performance Index	182.7

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	514	1876	2232	4622
Control Delay / Veh (s/v)	21	23	11	17
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	21	23	11	17
Total Delay (hr)	3	12	7	22
Stops / Veh	0.29	0.27	0.32	0.30
Stops (#)	151	510	721	1382
Average Speed (mph)	12	13	27	20
Total Travel Time (hr)	4	18	21	43
Distance Traveled (mi)	50	231	565	846
Fuel Consumed (gal)	5	22	32	60
Fuel Economy (mpg)	9.3	10.5	17.5	14.1
CO Emissions (kg)	0.38	1.54	2.26	4.18
NOx Emissions (kg)	0.07	0.30	0.44	0.81
VOC Emissions (kg)	0.09	0.36	0.52	0.97
Unserved Vehicles (#)	0	38	0	38
Vehicles in dilemma zone (#)	0	55	99	154

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	99	17	1756	2237	4109
Control Delay / Veh (s/v)	43	55	9	1	6
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	55	9	1	6
Total Delay (hr)	1	0	4	1	7
Stops / Veh	0.60	0.76	0.35	0.10	0.22
Stops (#)	59	13	609	218	899
Average Speed (mph)	4	2	29	31	27
Total Travel Time (hr)	1	0	16	3	20
Distance Traveled (mi)	5	1	444	102	552
Fuel Consumed (gal)	2	0	25	6	33
Fuel Economy (mpg)	3.0	NA	17.7	16.1	16.5
CO Emissions (kg)	0.11	0.02	1.76	0.44	2.34
NOx Emissions (kg)	0.02	0.00	0.34	0.09	0.45
VOC Emissions (kg)	0.03	0.01	0.41	0.10	0.54
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	1	32	2	36

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	708	365	2288	3361
Control Delay / Veh (s/v)	52	7	7	16
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	52	8	7	16
Total Delay (hr)	10	1	4	15
Stops / Veh	0.87	0.23	0.16	0.31
Stops (#)	619	84	355	1058
Average Speed (mph)	4	11	17	9
Total Travel Time (hr)	12	1	8	21
Distance Traveled (mi)	49	12	136	196
Fuel Consumed (gal)	13	2	12	26
Fuel Economy (mpg)	3.8	6.5	11.7	7.5
CO Emissions (kg)	0.90	0.13	0.81	1.84
NOx Emissions (kg)	0.17	0.03	0.16	0.36
VOC Emissions (kg)	0.21	0.03	0.19	0.43
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	11	93	104

4: US-1 & SW 67 Avenue

Direction	EB	NB	SB	NE	SW	All
Volume (vph)	1073	319	538	1400	3877	7207
Control Delay / Veh (s/v)	23	39	54	13	12	18
Queue Delay / Veh (s/v)	0	0	0	0	3	1
Total Delay / Veh (s/v)	23	39	54	13	15	20
Total Delay (hr)	7	3	8	5	16	39
Stops / Veh	0.78	0.59	0.76	0.39	0.54	0.57
Stops (#)	832	189	408	539	2111	4079
Average Speed (mph)	12	18	6	19	20	17
Total Travel Time (hr)	10	8	10	15	32	74
Distance Traveled (mi)	114	144	58	282	636	1234
Fuel Consumed (gal)	17	9	11	18	55	111
Fuel Economy (mpg)	6.6	15.2	5.5	15.3	11.5	11.1
CO Emissions (kg)	1.20	0.66	0.74	1.29	3.85	7.75
NOx Emissions (kg)	0.23	0.13	0.14	0.25	0.75	1.51
VOC Emissions (kg)	0.28	0.15	0.17	0.30	0.89	1.80
Unserved Vehicles (#)	0	0	0	0	0	0
Vehicles in dilemma zone (#)	0	6	0	0	0	6

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	226	650	2502	3545	6923
Control Delay / Veh (s/v)	68	88	9	46	37
Queue Delay / Veh (s/v)	0	0	0	8	4
Total Delay / Veh (s/v)	68	88	9	54	41
Total Delay (hr)	4	16	6	53	79
Stops / Veh	0.92	0.92	0.43	0.80	0.68
Stops (#)	207	595	1065	2841	4708
Average Speed (mph)	5	10	25	18	17
Total Travel Time (hr)	5	24	16	98	143
Distance Traveled (mi)	28	240	410	1798	2477
Fuel Consumed (gal)	5	25	30	131	191
Fuel Economy (mpg)	5.1	9.7	13.9	13.7	13.0
CO Emissions (kg)	0.38	1.74	2.07	9.16	13.35
NOx Emissions (kg)	0.07	0.34	0.40	1.78	2.60
VOC Emissions (kg)	0.09	0.40	0.48	2.12	3.09
Unserved Vehicles (#)	0	0	0	170	170
Vehicles in dilemma zone (#)	0	0	77	100	177

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	272	583	2187	2964	6006
Control Delay / Veh (s/v)	120	78	26	17	31
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	120	78	26	17	31
Total Delay (hr)	9	13	16	14	52
Stops / Veh	0.86	0.76	0.69	0.65	0.68
Stops (#)	234	442	1500	1930	4106
Average Speed (mph)	7	7	25	20	19
Total Travel Time (hr)	12	16	44	29	100
Distance Traveled (mi)	86	103	1109	600	1899
Fuel Consumed (gal)	12	17	66	51	145
Fuel Economy (mpg)	7.5	6.2	16.8	11.8	13.1
CO Emissions (kg)	0.81	1.15	4.62	3.56	10.14
NOx Emissions (kg)	0.16	0.22	0.90	0.69	1.97
VOC Emissions (kg)	0.19	0.27	1.07	0.83	2.35
Unserved Vehicles (#)	16	0	0	0	16
Vehicles in dilemma zone (#)	7	8	134	97	246

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	376	443	217	451	1487
Control Delay / Veh (s/v)	32	52	16	25	34
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	32	52	16	25	34
Total Delay (hr)	3	6	1	3	14
Stops / Veh	0.65	0.79	0.37	0.61	0.64
Stops (#)	246	352	81	273	952
Average Speed (mph)	16	7	13	6	10
Total Travel Time (hr)	7	8	2	4	21
Distance Traveled (mi)	114	55	23	24	215
Fuel Consumed (gal)	8	9	2	5	24
Fuel Economy (mpg)	13.4	6.2	11.0	4.9	8.8
CO Emissions (kg)	0.59	0.62	0.15	0.34	1.70
NOx Emissions (kg)	0.12	0.12	0.03	0.07	0.33
VOC Emissions (kg)	0.14	0.14	0.03	0.08	0.39
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	766	1721	2487
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	33
Total Travel Time (hr)	11	6	17
Distance Traveled (mi)	380	185	565
Fuel Consumed (gal)	14	8	22
Fuel Economy (mpg)	26.2	24.3	25.6
CO Emissions (kg)	1.01	0.53	1.54
NOx Emissions (kg)	0.20	0.10	0.30
VOC Emissions (kg)	0.23	0.12	0.36
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	1073	4009	5082
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	2	11	12
Distance Traveled (mi)	64	426	490
Fuel Consumed (gal)	2	15	18
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.16	1.07	1.23
NOx Emissions (kg)	0.03	0.21	0.24
VOC Emissions (kg)	0.04	0.25	0.28
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp &

Direction	SE	NE	SW	All
Volume (vph)	58	1823	2288	4169
Control Delay / Veh (s/v)	0	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	0	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	58	0	0	58
Average Speed (mph)	30	40	40	40
Total Travel Time (hr)	0	2	2	4
Distance Traveled (mi)	4	83	75	162
Fuel Consumed (gal)	0	3	3	6
Fuel Economy (mpg)	NA	27.9	27.9	26.4
CO Emissions (kg)	0.03	0.21	0.19	0.43
NOx Emissions (kg)	0.01	0.04	0.04	0.08
VOC Emissions (kg)	0.01	0.05	0.04	0.10
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	17
Queue Delay / Veh (s/v)	1
Total Delay / Veh (s/v)	18
Total Delay (hr)	228
Stops / Veh	0.38
Stops (#)	17242
Average Speed (mph)	19
Total Travel Time (hr)	456
Distance Traveled (mi)	8636
Fuel Consumed (gal)	637
Fuel Economy (mpg)	13.6
CO Emissions (kg)	44.50
NOx Emissions (kg)	8.66
VOC Emissions (kg)	10.31
Unserved Vehicles (#)	224
Vehicles in dilemma zone (#)	723
Performance Index	276.0

Alternate Route (Alternative 3)

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	163	1971	891	3025
Control Delay / Veh (s/v)	16	4	17	9
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	16	4	17	9
Total Delay (hr)	1	2	4	7
Stops / Veh	0.25	0.23	0.66	0.35
Stops (#)	40	445	584	1069
Average Speed (mph)	14	29	23	25
Total Travel Time (hr)	1	8	10	19
Distance Traveled (mi)	16	243	225	484
Fuel Consumed (gal)	1	15	17	33
Fuel Economy (mpg)	10.7	16.5	13.3	14.6
CO Emissions (kg)	0.10	1.03	1.19	2.32
NOx Emissions (kg)	0.02	0.20	0.23	0.45
VOC Emissions (kg)	0.02	0.24	0.28	0.54
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	50	7	57

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	157	5	2048	744	2954
Control Delay / Veh (s/v)	66	59	8	2	9
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	66	59	8	2	9
Total Delay (hr)	3	0	4	0	8
Stops / Veh	0.87	1.20	0.34	0.05	0.30
Stops (#)	137	6	698	36	877
Average Speed (mph)	3	2	30	29	26
Total Travel Time (hr)	3	0	17	1	22
Distance Traveled (mi)	8	0	518	34	560
Fuel Consumed (gal)	4	0	29	2	34
Fuel Economy (mpg)	2.1	NA	18.1	18.7	16.3
CO Emissions (kg)	0.26	0.01	2.00	0.13	2.40
NOx Emissions (kg)	0.05	0.00	0.39	0.02	0.47
VOC Emissions (kg)	0.06	0.00	0.46	0.03	0.56
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	2	0	100	25	127

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	845	2225	886	3956
Control Delay / Veh (s/v)	51	12	8	19
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	51	12	8	19
Total Delay (hr)	12	7	2	21
Stops / Veh	0.87	0.57	0.30	0.57
Stops (#)	731	1274	265	2270
Average Speed (mph)	4	8	16	7
Total Travel Time (hr)	14	9	3	26
Distance Traveled (mi)	57	73	53	182
Fuel Consumed (gal)	15	21	6	42
Fuel Economy (mpg)	3.7	3.6	8.9	4.4
CO Emissions (kg)	1.06	1.44	0.41	2.91
NOx Emissions (kg)	0.21	0.28	0.08	0.57
VOC Emissions (kg)	0.25	0.33	0.10	0.68
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	28	5	33

4: SW 67 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	508	215	3070	1330	5123
Control Delay / Veh (s/v)	118	47	8	13	22
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	118	47	8	13	22
Total Delay (hr)	17	3	7	5	31
Stops / Veh	0.83	0.73	0.47	0.30	0.47
Stops (#)	421	158	1443	398	2420
Average Speed (mph)	10	6	22	21	15
Total Travel Time (hr)	24	4	15	10	53
Distance Traveled (mi)	229	23	326	218	797
Fuel Consumed (gal)	24	4	31	15	74
Fuel Economy (mpg)	9.5	6.0	10.6	14.4	10.8
CO Emissions (kg)	1.68	0.27	2.16	1.06	5.17
NOx Emissions (kg)	0.33	0.05	0.42	0.21	1.01
VOC Emissions (kg)	0.39	0.06	0.50	0.25	1.20
Unserved Vehicles (#)	1	0	0	0	1
Vehicles in dilemma zone (#)	9	0	77	33	119

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	614	307	3065	1376	5362
Control Delay / Veh (s/v)	79	78	18	14	27
Queue Delay / Veh (s/v)	0	0	1	0	1
Total Delay / Veh (s/v)	79	78	19	14	28
Total Delay (hr)	14	7	17	5	42
Stops / Veh	1.24	0.95	0.81	0.47	0.78
Stops (#)	763	291	2479	644	4177
Average Speed (mph)	5	11	17	28	17
Total Travel Time (hr)	16	10	29	25	81
Distance Traveled (mi)	76	114	503	698	1390
Fuel Consumed (gal)	17	11	55	35	118
Fuel Economy (mpg)	4.4	10.2	9.2	19.8	11.8
CO Emissions (kg)	1.21	0.78	3.81	2.47	8.26
NOx Emissions (kg)	0.23	0.15	0.74	0.48	1.61
VOC Emissions (kg)	0.28	0.18	0.88	0.57	1.92
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	90	46	136

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	190	370	3171	1396	5127
Control Delay / Veh (s/v)	61	58	20	13	22
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	61	58	20	13	22
Total Delay (hr)	3	6	18	5	32
Stops / Veh	0.87	0.74	0.69	0.45	0.63
Stops (#)	166	272	2182	623	3243
Average Speed (mph)	12	8	25	24	23
Total Travel Time (hr)	5	8	64	12	89
Distance Traveled (mi)	60	65	1608	283	2017
Fuel Consumed (gal)	6	9	91	20	125
Fuel Economy (mpg)	10.4	7.3	17.7	14.2	16.1
CO Emissions (kg)	0.40	0.62	6.34	1.39	8.76
NOx Emissions (kg)	0.08	0.12	1.23	0.27	1.70
VOC Emissions (kg)	0.09	0.14	1.47	0.32	2.03
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	6	7	100	46	159

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	952	207	245	213	1617
Control Delay / Veh (s/v)	34	28	5	21	27
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	34	28	5	21	27
Total Delay (hr)	9	2	0	1	12
Stops / Veh	0.70	1.00	0.17	0.52	0.63
Stops (#)	667	207	41	111	1026
Average Speed (mph)	16	10	21	7	15
Total Travel Time (hr)	18	2	1	2	24
Distance Traveled (mi)	287	25	26	11	350
Fuel Consumed (gal)	22	3	2	2	29
Fuel Economy (mpg)	13.1	7.5	16.7	5.6	12.1
CO Emissions (kg)	1.54	0.24	0.11	0.14	2.03
NOx Emissions (kg)	0.30	0.05	0.02	0.03	0.39
VOC Emissions (kg)	0.36	0.05	0.03	0.03	0.47
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	871	412	1283
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	35
Total Travel Time (hr)	12	1	14
Distance Traveled (mi)	434	44	478
Fuel Consumed (gal)	17	2	18
Fuel Economy (mpg)	26.2	24.3	26.0
CO Emissions (kg)	1.16	0.13	1.28
NOx Emissions (kg)	0.22	0.02	0.25
VOC Emissions (kg)	0.27	0.03	0.30
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	3070	1298	4368
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	5	3	8
Distance Traveled (mi)	182	138	320
Fuel Consumed (gal)	7	5	11
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.46	0.35	0.80
NOx Emissions (kg)	0.09	0.07	0.16
VOC Emissions (kg)	0.11	0.08	0.19
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp & US-1

Direction	SE	NE	SW	All
Volume (vph)	26	2225	886	3137
Control Delay / Veh (s/v)	9	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	9	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	14	40	40	39
Total Travel Time (hr)	0	3	1	3
Distance Traveled (mi)	2	102	29	132
Fuel Consumed (gal)	0	4	1	5
Fuel Economy (mpg)	NA	27.9	27.9	26.8
CO Emissions (kg)	0.02	0.25	0.07	0.35
NOx Emissions (kg)	0.00	0.05	0.01	0.07
VOC Emissions (kg)	0.00	0.06	0.02	0.08
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	15
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	15
Total Delay (hr)	153
Stops / Veh	0.42
Stops (#)	15108
Average Speed (mph)	20
Total Travel Time (hr)	339
Distance Traveled (mi)	6710
Fuel Consumed (gal)	490
Fuel Economy (mpg)	13.7
CO Emissions (kg)	34.27
NOx Emissions (kg)	6.67
VOC Emissions (kg)	7.94
Unserved Vehicles (#)	1
Vehicles in dilemma zone (#)	631
Performance Index	195.4

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	364	2002	1879	4245
Control Delay / Veh (s/v)	14	27	1	15
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	14	27	1	15
Total Delay (hr)	1	15	1	17
Stops / Veh	0.28	0.35	0.09	0.23
Stops (#)	102	696	161	959
Average Speed (mph)	15	12	38	21
Total Travel Time (hr)	2	21	13	36
Distance Traveled (mi)	36	246	475	758
Fuel Consumed (gal)	3	27	19	49
Fuel Economy (mpg)	10.7	9.2	24.8	15.4
CO Emissions (kg)	0.23	1.86	1.34	3.43
NOx Emissions (kg)	0.05	0.36	0.26	0.67
VOC Emissions (kg)	0.05	0.43	0.31	0.80
Unserved Vehicles (#)	0	53	0	53
Vehicles in dilemma zone (#)	0	76	22	98

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	71	11	1968	2204	4254
Control Delay / Veh (s/v)	36	40	10	8	10
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	36	40	10	8	10
Total Delay (hr)	1	0	6	5	12
Stops / Veh	0.76	0.91	0.35	0.31	0.34
Stops (#)	54	10	691	681	1436
Average Speed (mph)	4	3	28	13	23
Total Travel Time (hr)	1	0	18	8	27
Distance Traveled (mi)	3	0	498	101	603
Fuel Consumed (gal)	1	0	29	14	44
Fuel Economy (mpg)	3.0	NA	17.4	7.2	13.7
CO Emissions (kg)	0.08	0.01	2.01	0.98	3.08
NOx Emissions (kg)	0.02	0.00	0.39	0.19	0.60
VOC Emissions (kg)	0.02	0.00	0.46	0.23	0.71
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	0	63	149	213

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	564	1554	1896	4014
Control Delay / Veh (s/v)	35	3	5	9
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	35	3	5	9
Total Delay (hr)	5	1	3	10
Stops / Veh	0.79	0.18	0.22	0.29
Stops (#)	446	284	415	1145
Average Speed (mph)	6	19	20	13
Total Travel Time (hr)	7	3	6	15
Distance Traveled (mi)	38	51	112	201
Fuel Consumed (gal)	8	6	10	24
Fuel Economy (mpg)	4.7	9.0	11.1	8.4
CO Emissions (kg)	0.56	0.40	0.71	1.67
NOx Emissions (kg)	0.11	0.08	0.14	0.32
VOC Emissions (kg)	0.13	0.09	0.16	0.39
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	53	110	163

4: SW 67 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	473	370	2303	2500	5646
Control Delay / Veh (s/v)	61	45	13	16	20
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	61	45	13	16	20
Total Delay (hr)	8	5	9	11	32
Stops / Veh	0.93	0.65	0.46	0.34	0.46
Stops (#)	441	242	1060	854	2597
Average Speed (mph)	14	7	17	19	16
Total Travel Time (hr)	15	6	15	21	57
Distance Traveled (mi)	213	40	245	410	908
Fuel Consumed (gal)	17	6	25	31	80
Fuel Economy (mpg)	12.5	6.3	9.6	13.2	11.4
CO Emissions (kg)	1.20	0.44	1.78	2.17	5.59
NOx Emissions (kg)	0.23	0.09	0.35	0.42	1.09
VOC Emissions (kg)	0.28	0.10	0.41	0.50	1.30
Unserved Vehicles (#)	0	0	0	2	2
Vehicles in dilemma zone (#)	11	0	149	143	303

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	372	403	2441	2389	5605
Control Delay / Veh (s/v)	49	45	23	19	25
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	49	45	23	19	25
Total Delay (hr)	5	5	15	13	38
Stops / Veh	0.88	0.87	0.88	0.87	0.88
Stops (#)	326	351	2156	2090	4923
Average Speed (mph)	7	15	16	28	21
Total Travel Time (hr)	7	10	25	43	85
Distance Traveled (mi)	46	149	400	1212	1807
Fuel Consumed (gal)	7	12	47	73	139
Fuel Economy (mpg)	6.2	12.7	8.6	16.5	13.0
CO Emissions (kg)	0.52	0.82	3.27	5.13	9.74
NOx Emissions (kg)	0.10	0.16	0.64	1.00	1.89
VOC Emissions (kg)	0.12	0.19	0.76	1.19	2.26
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	93	62	155

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	296	520	2378	2244	5438
Control Delay / Veh (s/v)	43	30	18	21	22
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	30	18	21	22
Total Delay (hr)	4	4	12	13	33
Stops / Veh	0.82	0.55	0.86	0.71	0.77
Stops (#)	242	286	2053	1596	4177
Average Speed (mph)	14	13	29	19	23
Total Travel Time (hr)	7	7	42	24	80
Distance Traveled (mi)	94	92	1206	454	1846
Fuel Consumed (gal)	8	9	72	41	130
Fuel Economy (mpg)	12.0	10.4	16.8	11.0	14.2
CO Emissions (kg)	0.55	0.62	5.03	2.90	9.10
NOx Emissions (kg)	0.11	0.12	0.98	0.56	1.77
VOC Emissions (kg)	0.13	0.14	1.17	0.67	2.11
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	9	10	1	94	114

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	491	391	302	346	1530
Control Delay / Veh (s/v)	30	30	21	23	27
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	30	30	21	23	27
Total Delay (hr)	4	3	2	2	11
Stops / Veh	0.63	0.63	0.52	0.57	0.59
Stops (#)	308	246	157	196	907
Average Speed (mph)	16	10	11	6	13
Total Travel Time (hr)	9	5	3	3	20
Distance Traveled (mi)	148	48	32	18	247
Fuel Consumed (gal)	11	6	3	3	23
Fuel Economy (mpg)	13.8	8.4	9.3	5.2	10.5
CO Emissions (kg)	0.75	0.40	0.24	0.24	1.64
NOx Emissions (kg)	0.15	0.08	0.05	0.05	0.32
VOC Emissions (kg)	0.17	0.09	0.06	0.06	0.38
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	590	548	1138
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	34
Total Travel Time (hr)	8	2	10
Distance Traveled (mi)	294	59	353
Fuel Consumed (gal)	11	2	14
Fuel Economy (mpg)	26.2	24.3	25.9
CO Emissions (kg)	0.78	0.17	0.95
NOx Emissions (kg)	0.15	0.03	0.19
VOC Emissions (kg)	0.18	0.04	0.22
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	2118	2444	4562
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	3	7	10
Distance Traveled (mi)	126	260	385
Fuel Consumed (gal)	4	9	14
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.31	0.65	0.96
NOx Emissions (kg)	0.06	0.13	0.19
VOC Emissions (kg)	0.07	0.15	0.22
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp & US-1

Direction	SE	NE	SW	All
Volume (vph)	26	1554	1896	3476
Control Delay / Veh (s/v)	9	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	9	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	13	40	40	39
Total Travel Time (hr)	0	2	2	4
Distance Traveled (mi)	2	71	72	144
Fuel Consumed (gal)	0	3	3	5
Fuel Economy (mpg)	NA	27.9	27.9	26.9
CO Emissions (kg)	0.02	0.18	0.18	0.38
NOx Emissions (kg)	0.00	0.03	0.03	0.07
VOC Emissions (kg)	0.00	0.04	0.04	0.09
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	14
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	14
Total Delay (hr)	153
Stops / Veh	0.41
Stops (#)	16170
Average Speed (mph)	21
Total Travel Time (hr)	342
Distance Traveled (mi)	7252
Fuel Consumed (gal)	523
Fuel Economy (mpg)	13.9
CO Emissions (kg)	36.55
NOx Emissions (kg)	7.11
VOC Emissions (kg)	8.47
Unserved Vehicles (#)	55
Vehicles in dilemma zone (#)	1046
Performance Index	197.7

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	514	1876	2232	4622
Control Delay / Veh (s/v)	21	23	12	17
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	21	23	12	17
Total Delay (hr)	3	12	7	22
Stops / Veh	0.29	0.27	0.37	0.32
Stops (#)	151	510	817	1478
Average Speed (mph)	12	13	26	20
Total Travel Time (hr)	4	18	21	43
Distance Traveled (mi)	50	231	565	846
Fuel Consumed (gal)	5	22	34	61
Fuel Economy (mpg)	9.3	10.5	16.8	13.9
CO Emissions (kg)	0.38	1.54	2.35	4.27
NOx Emissions (kg)	0.07	0.30	0.46	0.83
VOC Emissions (kg)	0.09	0.36	0.54	0.99
Unserved Vehicles (#)	0	38	0	38
Vehicles in dilemma zone (#)	0	55	95	150

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	99	17	1756	2237	4109
Control Delay / Veh (s/v)	43	55	9	2	6
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	55	9	2	6
Total Delay (hr)	1	0	4	2	7
Stops / Veh	0.60	0.76	0.35	0.07	0.20
Stops (#)	59	13	609	158	839
Average Speed (mph)	4	2	29	25	26
Total Travel Time (hr)	1	0	16	4	21
Distance Traveled (mi)	5	1	444	102	552
Fuel Consumed (gal)	2	0	25	6	33
Fuel Economy (mpg)	3.0	NA	17.7	16.1	16.5
CO Emissions (kg)	0.11	0.02	1.76	0.44	2.34
NOx Emissions (kg)	0.02	0.00	0.34	0.09	0.45
VOC Emissions (kg)	0.03	0.01	0.41	0.10	0.54
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	1	32	88	122

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	595	1823	2288	4706
Control Delay / Veh (s/v)	69	2	1	10
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	69	2	1	10
Total Delay (hr)	11	1	1	13
Stops / Veh	0.95	0.15	0.05	0.21
Stops (#)	563	282	123	968
Average Speed (mph)	3	23	32	12
Total Travel Time (hr)	13	3	4	20
Distance Traveled (mi)	40	60	136	236
Fuel Consumed (gal)	13	6	7	26
Fuel Economy (mpg)	3.0	10.5	20.3	9.2
CO Emissions (kg)	0.92	0.40	0.47	1.78
NOx Emissions (kg)	0.18	0.08	0.09	0.35
VOC Emissions (kg)	0.21	0.09	0.11	0.41
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	29	9	38

4: SW 67 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	319	538	2360	3602	6819
Control Delay / Veh (s/v)	67	71	14	10	19
Queue Delay / Veh (s/v)	0	0	0	1	0
Total Delay / Veh (s/v)	67	71	14	11	19
Total Delay (hr)	6	11	9	11	37
Stops / Veh	0.89	0.88	0.57	0.41	0.52
Stops (#)	283	471	1342	1459	3555
Average Speed (mph)	14	5	16	23	16
Total Travel Time (hr)	11	13	15	26	64
Distance Traveled (mi)	144	58	251	591	1043
Fuel Consumed (gal)	12	13	29	44	97
Fuel Economy (mpg)	12.1	4.5	8.7	13.5	10.7
CO Emissions (kg)	0.83	0.89	2.02	3.05	6.79
NOx Emissions (kg)	0.16	0.17	0.39	0.59	1.32
VOC Emissions (kg)	0.19	0.21	0.47	0.71	1.57
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	6	0	53	148	207

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	339	650	2389	3545	6923
Control Delay / Veh (s/v)	74	88	7	60	45
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	74	88	7	60	45
Total Delay (hr)	7	16	4	59	86
Stops / Veh	0.94	0.92	0.36	0.81	0.67
Stops (#)	319	595	854	2867	4635
Average Speed (mph)	5	10	28	17	16
Total Travel Time (hr)	8	24	14	104	150
Distance Traveled (mi)	42	240	392	1798	2472
Fuel Consumed (gal)	9	25	26	136	195
Fuel Economy (mpg)	4.9	9.7	15.3	13.2	12.7
CO Emissions (kg)	0.60	1.74	1.79	9.50	13.63
NOx Emissions (kg)	0.12	0.34	0.35	1.85	2.65
VOC Emissions (kg)	0.14	0.40	0.41	2.20	3.16
Unserved Vehicles (#)	0	0	0	270	270
Vehicles in dilemma zone (#)	0	0	50	98	148

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	272	583	2187	2964	6006
Control Delay / Veh (s/v)	120	78	23	17	30
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	120	78	23	17	30
Total Delay (hr)	9	13	14	14	50
Stops / Veh	0.86	0.76	0.60	0.65	0.65
Stops (#)	234	442	1316	1930	3922
Average Speed (mph)	7	7	27	20	19
Total Travel Time (hr)	12	16	42	29	98
Distance Traveled (mi)	86	103	1109	600	1899
Fuel Consumed (gal)	12	17	63	51	142
Fuel Economy (mpg)	7.5	6.2	17.7	11.8	13.4
CO Emissions (kg)	0.81	1.15	4.39	3.56	9.92
NOx Emissions (kg)	0.16	0.22	0.85	0.69	1.93
VOC Emissions (kg)	0.19	0.27	1.02	0.83	2.30
Unserved Vehicles (#)	16	0	0	0	16
Vehicles in dilemma zone (#)	7	8	126	97	238

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	489	718	217	451	1875
Control Delay / Veh (s/v)	31	36	16	25	30
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	31	36	16	25	30
Total Delay (hr)	4	7	1	3	16
Stops / Veh	0.64	0.70	0.35	0.61	0.62
Stops (#)	314	503	76	273	1166
Average Speed (mph)	16	9	14	6	11
Total Travel Time (hr)	9	10	2	4	25
Distance Traveled (mi)	148	88	23	24	283
Fuel Consumed (gal)	11	12	2	5	30
Fuel Economy (mpg)	13.5	7.5	11.3	4.9	9.6
CO Emissions (kg)	0.76	0.82	0.14	0.34	2.07
NOx Emissions (kg)	0.15	0.16	0.03	0.07	0.40
VOC Emissions (kg)	0.18	0.19	0.03	0.08	0.48
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	653	1446	2099
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	33
Total Travel Time (hr)	9	5	14
Distance Traveled (mi)	325	156	481
Fuel Consumed (gal)	12	6	19
Fuel Economy (mpg)	26.2	24.3	25.6
CO Emissions (kg)	0.87	0.45	1.31
NOx Emissions (kg)	0.17	0.09	0.26
VOC Emissions (kg)	0.20	0.10	0.30
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	2238	3734	5972
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	3	10	13
Distance Traveled (mi)	133	397	529
Fuel Consumed (gal)	5	14	19
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.33	0.99	1.33
NOx Emissions (kg)	0.06	0.19	0.26
VOC Emissions (kg)	0.08	0.23	0.31
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp & US-1

Direction	SE	NE	SW	All
Volume (vph)	58	1823	2288	4169
Control Delay / Veh (s/v)	9	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	9	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	58	0	0	58
Average Speed (mph)	13	40	40	38
Total Travel Time (hr)	0	2	2	4
Distance Traveled (mi)	4	83	75	162
Fuel Consumed (gal)	1	3	3	6
Fuel Economy (mpg)	NA	27.9	27.9	25.9
CO Emissions (kg)	0.04	0.21	0.19	0.44
NOx Emissions (kg)	0.01	0.04	0.04	0.09
VOC Emissions (kg)	0.01	0.05	0.04	0.10
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	18
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	18
Total Delay (hr)	232
Stops / Veh	0.35
Stops (#)	16621
Average Speed (mph)	19
Total Travel Time (hr)	454
Distance Traveled (mi)	8503
Fuel Consumed (gal)	628
Fuel Economy (mpg)	13.5
CO Emissions (kg)	43.86
NOx Emissions (kg)	8.53
VOC Emissions (kg)	10.17
Unserved Vehicles (#)	324
Vehicles in dilemma zone (#)	903
Performance Index	277.9

Hybrid: Turbo Lane & Alternate Route (Alternative 4)

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	163	1971	891	3025
Control Delay / Veh (s/v)	16	4	20	9
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	16	4	20	9
Total Delay (hr)	1	2	5	8
Stops / Veh	0.25	0.23	0.73	0.37
Stops (#)	40	445	647	1132
Average Speed (mph)	14	29	21	24
Total Travel Time (hr)	1	8	11	20
Distance Traveled (mi)	16	243	225	484
Fuel Consumed (gal)	1	15	18	34
Fuel Economy (mpg)	10.7	16.5	12.5	14.2
CO Emissions (kg)	0.10	1.03	1.26	2.39
NOx Emissions (kg)	0.02	0.20	0.25	0.46
VOC Emissions (kg)	0.02	0.24	0.29	0.55
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	50	7	57

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	157	5	2048	744	2954
Control Delay / Veh (s/v)	66	59	8	0	9
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	66	59	8	0	9
Total Delay (hr)	3	0	4	0	7
Stops / Veh	0.87	1.20	0.34	0.00	0.29
Stops (#)	137	6	698	2	843
Average Speed (mph)	3	2	30	38	26
Total Travel Time (hr)	3	0	17	1	21
Distance Traveled (mi)	8	0	518	34	560
Fuel Consumed (gal)	4	0	29	1	34
Fuel Economy (mpg)	2.1	NA	18.1	26.6	16.6
CO Emissions (kg)	0.26	0.01	2.00	0.09	2.36
NOx Emissions (kg)	0.05	0.00	0.39	0.02	0.46
VOC Emissions (kg)	0.06	0.00	0.46	0.02	0.55
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	2	0	100	1	103

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	845	445	886	2176
Control Delay / Veh (s/v)	33	28	16	25
Queue Delay / Veh (s/v)	0	1	0	0
Total Delay / Veh (s/v)	33	29	16	25
Total Delay (hr)	8	4	4	15
Stops / Veh	0.72	0.73	0.42	0.60
Stops (#)	612	326	370	1308
Average Speed (mph)	6	4	10	7
Total Travel Time (hr)	10	4	5	19
Distance Traveled (mi)	58	15	53	125
Fuel Consumed (gal)	11	6	8	26
Fuel Economy (mpg)	5.1	2.3	6.2	4.8
CO Emissions (kg)	0.80	0.45	0.59	1.83
NOx Emissions (kg)	0.16	0.09	0.11	0.36
VOC Emissions (kg)	0.19	0.10	0.14	0.42
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	4	23	27

4: US-1 & SW 67 Avenue

Direction	EB	NB	SB	NE	SW	All
Volume (vph)	1290	508	215	1780	1330	5123
Control Delay / Veh (s/v)	9	67	50	12	6	17
Queue Delay / Veh (s/v)	0	0	0	1	0	0
Total Delay / Veh (s/v)	9	68	50	13	6	17
Total Delay (hr)	3	10	3	6	2	24
Stops / Veh	0.56	0.63	0.76	0.47	0.28	0.47
Stops (#)	727	320	164	830	371	2412
Average Speed (mph)	21	14	6	20	29	18
Total Travel Time (hr)	7	17	4	18	8	53
Distance Traveled (mi)	137	229	23	359	218	967
Fuel Consumed (gal)	14	18	4	24	13	74
Fuel Economy (mpg)	9.5	12.6	5.7	15.0	16.7	13.1
CO Emissions (kg)	1.01	1.27	0.28	1.68	0.91	5.15
NOx Emissions (kg)	0.20	0.25	0.05	0.33	0.18	1.00
VOC Emissions (kg)	0.23	0.29	0.07	0.39	0.21	1.19
Unserved Vehicles (#)	0	0	0	0	0	0
Vehicles in dilemma zone (#)	0	10	0	0	0	10

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	614	307	3065	1376	5362
Control Delay / Veh (s/v)	90	78	21	12	30
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	90	78	21	12	30
Total Delay (hr)	15	7	18	5	45
Stops / Veh	1.18	0.95	0.92	0.44	0.82
Stops (#)	725	291	2805	601	4422
Average Speed (mph)	4	11	16	28	17
Total Travel Time (hr)	18	10	31	25	84
Distance Traveled (mi)	76	114	503	698	1390
Fuel Consumed (gal)	18	11	59	35	123
Fuel Economy (mpg)	4.1	10.2	8.5	20.2	11.3
CO Emissions (kg)	1.29	0.78	4.11	2.41	8.59
NOx Emissions (kg)	0.25	0.15	0.80	0.47	1.67
VOC Emissions (kg)	0.30	0.18	0.95	0.56	1.99
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	9	46	55

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	190	370	3171	1396	5127
Control Delay / Veh (s/v)	61	58	22	13	23
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	61	58	22	13	23
Total Delay (hr)	3	6	19	5	33
Stops / Veh	0.87	0.74	0.71	0.45	0.65
Stops (#)	166	272	2246	623	3307
Average Speed (mph)	12	8	25	24	22
Total Travel Time (hr)	5	8	65	12	90
Distance Traveled (mi)	60	65	1608	283	2017
Fuel Consumed (gal)	6	9	92	20	127
Fuel Economy (mpg)	10.4	7.3	17.4	14.2	15.9
CO Emissions (kg)	0.40	0.62	6.46	1.39	8.87
NOx Emissions (kg)	0.08	0.12	1.26	0.27	1.73
VOC Emissions (kg)	0.09	0.14	1.50	0.32	2.06
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	6	7	95	46	154

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	952	207	245	213	1617
Control Delay / Veh (s/v)	34	26	8	20	27
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	34	26	8	20	27
Total Delay (hr)	9	1	1	1	12
Stops / Veh	0.70	0.65	0.21	0.49	0.59
Stops (#)	667	135	51	104	957
Average Speed (mph)	16	11	18	7	15
Total Travel Time (hr)	18	2	1	2	24
Distance Traveled (mi)	287	25	26	11	350
Fuel Consumed (gal)	22	3	2	2	29
Fuel Economy (mpg)	13.1	8.8	14.9	5.9	12.3
CO Emissions (kg)	1.54	0.20	0.12	0.13	2.00
NOx Emissions (kg)	0.30	0.04	0.02	0.03	0.39
VOC Emissions (kg)	0.36	0.05	0.03	0.03	0.46
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	871	412	1283
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	35
Total Travel Time (hr)	12	1	14
Distance Traveled (mi)	432	44	476
Fuel Consumed (gal)	16	2	18
Fuel Economy (mpg)	26.2	24.3	26.0
CO Emissions (kg)	1.15	0.13	1.28
NOx Emissions (kg)	0.22	0.02	0.25
VOC Emissions (kg)	0.27	0.03	0.30
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	1290	1298	2588
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	2	3	5
Distance Traveled (mi)	76	138	214
Fuel Consumed (gal)	3	5	8
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.19	0.35	0.54
NOx Emissions (kg)	0.04	0.07	0.10
VOC Emissions (kg)	0.04	0.08	0.12
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp &

Direction	SE	NE	SW	All
Volume (vph)	26	2225	886	3137
Control Delay / Veh (s/v)	0	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	0	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	30	40	40	40
Total Travel Time (hr)	0	3	1	3
Distance Traveled (mi)	2	102	29	132
Fuel Consumed (gal)	0	4	1	5
Fuel Economy (mpg)	NA	27.9	27.9	27.0
CO Emissions (kg)	0.01	0.25	0.07	0.34
NOx Emissions (kg)	0.00	0.05	0.01	0.07
VOC Emissions (kg)	0.00	0.06	0.02	0.08
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	16
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	16
Total Delay (hr)	145
Stops / Veh	0.44
Stops (#)	14407
Average Speed (mph)	20
Total Travel Time (hr)	333
Distance Traveled (mi)	6715
Fuel Consumed (gal)	477
Fuel Economy (mpg)	14.1
CO Emissions (kg)	33.34
NOx Emissions (kg)	6.49
VOC Emissions (kg)	7.73
Unserved Vehicles (#)	0
Vehicles in dilemma zone (#)	406
Performance Index	184.9

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	364	2002	1879	4245
Control Delay / Veh (s/v)	14	27	1	14
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	14	27	1	14
Total Delay (hr)	1	15	1	17
Stops / Veh	0.28	0.35	0.06	0.21
Stops (#)	102	696	104	902
Average Speed (mph)	15	12	38	21
Total Travel Time (hr)	2	21	12	36
Distance Traveled (mi)	36	246	475	758
Fuel Consumed (gal)	3	27	18	48
Fuel Economy (mpg)	10.7	9.2	25.8	15.6
CO Emissions (kg)	0.23	1.86	1.29	3.39
NOx Emissions (kg)	0.05	0.36	0.25	0.66
VOC Emissions (kg)	0.05	0.43	0.30	0.78
Unserved Vehicles (#)	0	53	0	53
Vehicles in dilemma zone (#)	0	76	18	94

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	71	11	1968	2204	4254
Control Delay / Veh (s/v)	36	40	10	5	8
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	36	40	10	5	8
Total Delay (hr)	1	0	6	3	9
Stops / Veh	0.76	0.91	0.35	0.23	0.30
Stops (#)	54	10	691	507	1262
Average Speed (mph)	4	3	28	18	25
Total Travel Time (hr)	1	0	18	5	24
Distance Traveled (mi)	3	0	498	101	603
Fuel Consumed (gal)	1	0	29	11	41
Fuel Economy (mpg)	3.0	NA	17.4	9.4	14.8
CO Emissions (kg)	0.08	0.01	2.01	0.75	2.85
NOx Emissions (kg)	0.02	0.00	0.39	0.15	0.56
VOC Emissions (kg)	0.02	0.00	0.46	0.17	0.66
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	0	63	120	184

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	564	311	1896	2771
Control Delay / Veh (s/v)	32	5	11	14
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	32	6	11	14
Total Delay (hr)	5	0	6	11
Stops / Veh	0.77	0.18	0.43	0.47
Stops (#)	434	57	807	1298
Average Speed (mph)	6	14	13	10
Total Travel Time (hr)	6	1	8	15
Distance Traveled (mi)	39	10	112	161
Fuel Consumed (gal)	8	1	16	25
Fuel Economy (mpg)	5.1	8.0	7.0	6.4
CO Emissions (kg)	0.53	0.09	1.13	1.75
NOx Emissions (kg)	0.10	0.02	0.22	0.34
VOC Emissions (kg)	0.12	0.02	0.26	0.41
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	12	108	120

4: US-1 & SW 67 Avenue

Direction	EB	NB	SB	NE	SW	All
Volume (vph)	875	473	370	1243	2500	5461
Control Delay / Veh (s/v)	16	40	43	18	10	18
Queue Delay / Veh (s/v)	0	0	0	0	0	0
Total Delay / Veh (s/v)	16	40	43	18	10	18
Total Delay (hr)	4	5	4	6	7	27
Stops / Veh	0.67	0.62	0.65	0.49	0.32	0.46
Stops (#)	585	294	242	609	792	2522
Average Speed (mph)	15	18	7	17	24	18
Total Travel Time (hr)	6	12	6	15	17	56
Distance Traveled (mi)	93	213	40	251	410	1007
Fuel Consumed (gal)	12	14	6	18	28	78
Fuel Economy (mpg)	7.8	15.0	6.4	13.7	14.9	12.9
CO Emissions (kg)	0.83	1.00	0.44	1.28	1.92	5.47
NOx Emissions (kg)	0.16	0.19	0.08	0.25	0.37	1.06
VOC Emissions (kg)	0.19	0.23	0.10	0.30	0.45	1.27
Unserved Vehicles (#)	0	0	0	0	0	0
Vehicles in dilemma zone (#)	0	11	0	0	0	11

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	372	404	2441	2389	5606
Control Delay / Veh (s/v)	51	56	13	16	20
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	51	56	13	16	20
Total Delay (hr)	5	6	9	11	32
Stops / Veh	0.89	0.93	0.52	0.73	0.67
Stops (#)	330	376	1278	1748	3732
Average Speed (mph)	7	13	21	29	23
Total Travel Time (hr)	7	11	19	41	78
Distance Traveled (mi)	46	149	400	1212	1807
Fuel Consumed (gal)	8	13	34	69	123
Fuel Economy (mpg)	6.0	11.6	11.9	17.7	14.7
CO Emissions (kg)	0.53	0.90	2.35	4.79	8.57
NOx Emissions (kg)	0.10	0.17	0.46	0.93	1.67
VOC Emissions (kg)	0.12	0.21	0.54	1.11	1.99
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	60	62	122

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	296	520	2378	2244	5438
Control Delay / Veh (s/v)	43	30	21	21	23
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	30	21	21	23
Total Delay (hr)	4	4	14	13	35
Stops / Veh	0.82	0.55	0.93	0.71	0.80
Stops (#)	242	286	2201	1596	4325
Average Speed (mph)	14	13	27	19	22
Total Travel Time (hr)	7	7	44	24	82
Distance Traveled (mi)	94	92	1206	454	1846
Fuel Consumed (gal)	8	9	75	41	133
Fuel Economy (mpg)	12.0	10.4	16.0	11.0	13.8
CO Emissions (kg)	0.55	0.62	5.26	2.90	9.32
NOx Emissions (kg)	0.11	0.12	1.02	0.56	1.81
VOC Emissions (kg)	0.13	0.14	1.22	0.67	2.16
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	9	10	1	94	114

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	491	391	302	346	1530
Control Delay / Veh (s/v)	30	30	21	20	26
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	30	30	21	20	26
Total Delay (hr)	4	3	2	2	11
Stops / Veh	0.63	0.63	0.52	0.51	0.58
Stops (#)	308	246	157	175	886
Average Speed (mph)	16	10	11	7	13
Total Travel Time (hr)	9	5	3	3	19
Distance Traveled (mi)	148	48	32	18	247
Fuel Consumed (gal)	11	6	3	3	23
Fuel Economy (mpg)	13.8	8.4	9.3	5.8	10.7
CO Emissions (kg)	0.75	0.40	0.24	0.22	1.62
NOx Emissions (kg)	0.15	0.08	0.05	0.04	0.31
VOC Emissions (kg)	0.17	0.09	0.06	0.05	0.37
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	590	548	1138
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	34
Total Travel Time (hr)	8	2	10
Distance Traveled (mi)	292	59	351
Fuel Consumed (gal)	11	2	14
Fuel Economy (mpg)	26.2	24.3	25.9
CO Emissions (kg)	0.78	0.17	0.95
NOx Emissions (kg)	0.15	0.03	0.18
VOC Emissions (kg)	0.18	0.04	0.22
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	875	2444	3319
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	1	7	8
Distance Traveled (mi)	52	260	312
Fuel Consumed (gal)	2	9	11
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.13	0.65	0.78
NOx Emissions (kg)	0.03	0.13	0.15
VOC Emissions (kg)	0.03	0.15	0.18
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp &

Direction	SE	NE	SW	All
Volume (vph)	26	1554	1896	3476
Control Delay / Veh (s/v)	0	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	0	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	26	0	0	26
Average Speed (mph)	30	40	40	40
Total Travel Time (hr)	0	2	2	3
Distance Traveled (mi)	2	71	62	135
Fuel Consumed (gal)	0	3	2	5
Fuel Economy (mpg)	NA	27.9	27.9	27.1
CO Emissions (kg)	0.01	0.18	0.16	0.35
NOx Emissions (kg)	0.00	0.03	0.03	0.07
VOC Emissions (kg)	0.00	0.04	0.04	0.08
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	14
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	14
Total Delay (hr)	142
Stops / Veh	0.40
Stops (#)	14953
Average Speed (mph)	22
Total Travel Time (hr)	333
Distance Traveled (mi)	7227
Fuel Consumed (gal)	501
Fuel Economy (mpg)	14.4
CO Emissions (kg)	35.05
NOx Emissions (kg)	6.82
VOC Emissions (kg)	8.12
Unserved Vehicles (#)	53
Vehicles in dilemma zone (#)	645
Performance Index	183.6

1: SW 70 Avenue & US-1

Direction	SB	NE	SW	All
Volume (vph)	514	1876	2232	4622
Control Delay / Veh (s/v)	21	23	10	17
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	21	23	10	17
Total Delay (hr)	3	12	6	21
Stops / Veh	0.29	0.27	0.31	0.29
Stops (#)	151	510	685	1346
Average Speed (mph)	12	13	27	20
Total Travel Time (hr)	4	18	21	42
Distance Traveled (mi)	50	231	565	846
Fuel Consumed (gal)	5	22	32	59
Fuel Economy (mpg)	9.3	10.5	17.8	14.3
CO Emissions (kg)	0.38	1.54	2.21	4.14
NOx Emissions (kg)	0.07	0.30	0.43	0.80
VOC Emissions (kg)	0.09	0.36	0.51	0.96
Unserved Vehicles (#)	0	38	0	38
Vehicles in dilemma zone (#)	0	55	96	151

2: SW 84 Street & US-1

Direction	SE	NW	NE	SW	All
Volume (vph)	99	17	1756	2237	4109
Control Delay / Veh (s/v)	43	55	9	1	6
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	43	55	9	1	6
Total Delay (hr)	1	0	4	1	7
Stops / Veh	0.60	0.76	0.35	0.10	0.22
Stops (#)	59	13	609	222	903
Average Speed (mph)	4	2	29	31	27
Total Travel Time (hr)	1	0	16	3	20
Distance Traveled (mi)	5	1	444	102	552
Fuel Consumed (gal)	2	0	25	6	33
Fuel Economy (mpg)	3.0	NA	17.7	16.0	16.5
CO Emissions (kg)	0.11	0.02	1.76	0.45	2.34
NOx Emissions (kg)	0.02	0.00	0.34	0.09	0.46
VOC Emissions (kg)	0.03	0.01	0.41	0.10	0.54
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	1	1	32	2	36

3: SR 878 NB Off-Ramp & US-1

Direction	EB	NE	SW	All
Volume (vph)	595	365	2288	3248
Control Delay / Veh (s/v)	48	7	7	14
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	48	8	7	15
Total Delay (hr)	8	1	4	13
Stops / Veh	0.84	0.23	0.16	0.29
Stops (#)	499	84	357	940
Average Speed (mph)	4	11	17	10
Total Travel Time (hr)	9	1	8	18
Distance Traveled (mi)	41	12	136	188
Fuel Consumed (gal)	10	2	12	24
Fuel Economy (mpg)	4.0	6.5	11.7	7.9
CO Emissions (kg)	0.72	0.13	0.81	1.66
NOx Emissions (kg)	0.14	0.03	0.16	0.32
VOC Emissions (kg)	0.17	0.03	0.19	0.38
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	11	88	99

4: US-1 & SW 67 Avenue

Direction	EB	NB	SB	NE	SW	All
Volume (vph)	1017	319	538	1400	3602	6876
Control Delay / Veh (s/v)	21	39	46	13	11	17
Queue Delay / Veh (s/v)	0	0	0	0	1	0
Total Delay / Veh (s/v)	21	39	46	13	12	18
Total Delay (hr)	6	3	7	5	12	34
Stops / Veh	0.72	0.59	0.70	0.39	0.45	0.50
Stops (#)	731	189	374	539	1605	3438
Average Speed (mph)	12	18	7	19	22	18
Total Travel Time (hr)	9	8	9	15	27	67
Distance Traveled (mi)	108	144	58	282	591	1183
Fuel Consumed (gal)	15	9	10	18	46	99
Fuel Economy (mpg)	7.0	15.2	6.1	15.3	12.9	12.0
CO Emissions (kg)	1.08	0.66	0.66	1.29	3.20	6.90
NOx Emissions (kg)	0.21	0.13	0.13	0.25	0.62	1.34
VOC Emissions (kg)	0.25	0.15	0.15	0.30	0.74	1.60
Unserved Vehicles (#)	0	0	0	0	0	0
Vehicles in dilemma zone (#)	0	6	0	0	0	6

5: SW 80 Street & US-1

Direction	EB	WB	NE	SW	All
Volume (vph)	339	650	2389	3545	6923
Control Delay / Veh (s/v)	108	88	8	50	42
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	108	88	8	50	42
Total Delay (hr)	10	16	5	49	81
Stops / Veh	0.87	0.92	0.37	0.80	0.67
Stops (#)	296	595	878	2838	4607
Average Speed (mph)	4	10	26	19	17
Total Travel Time (hr)	12	24	15	94	145
Distance Traveled (mi)	42	240	392	1798	2472
Fuel Consumed (gal)	11	25	27	128	191
Fuel Economy (mpg)	3.9	9.7	14.7	14.0	13.0
CO Emissions (kg)	0.76	1.74	1.86	8.98	13.34
NOx Emissions (kg)	0.15	0.34	0.36	1.75	2.59
VOC Emissions (kg)	0.18	0.40	0.43	2.08	3.09
Unserved Vehicles (#)	8	0	0	204	212
Vehicles in dilemma zone (#)	0	0	77	99	176

6: SW 62 Avenue & US-1

Direction	NB	SB	NE	SW	All
Volume (vph)	272	583	2187	2964	6006
Control Delay / Veh (s/v)	120	78	24	17	30
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	120	78	24	17	30
Total Delay (hr)	9	13	15	14	51
Stops / Veh	0.86	0.76	0.64	0.65	0.67
Stops (#)	234	442	1405	1930	4011
Average Speed (mph)	7	7	26	20	19
Total Travel Time (hr)	12	16	42	29	99
Distance Traveled (mi)	86	103	1109	600	1899
Fuel Consumed (gal)	12	17	64	51	143
Fuel Economy (mpg)	7.5	6.2	17.3	11.8	13.3
CO Emissions (kg)	0.81	1.15	4.49	3.56	10.02
NOx Emissions (kg)	0.16	0.22	0.87	0.69	1.95
VOC Emissions (kg)	0.19	0.27	1.04	0.83	2.32
Unserved Vehicles (#)	16	0	0	0	16
Vehicles in dilemma zone (#)	7	8	133	97	245

7: SW 80 Street & SW 67 Avenue

Direction	EB	WB	NB	SB	All
Volume (vph)	489	718	217	451	1875
Control Delay / Veh (s/v)	31	37	16	17	28
Queue Delay / Veh (s/v)	0	0	0	0	0
Total Delay / Veh (s/v)	31	37	16	17	28
Total Delay (hr)	4	7	1	2	15
Stops / Veh	0.64	0.71	0.37	0.44	0.59
Stops (#)	314	507	81	197	1099
Average Speed (mph)	16	9	13	8	12
Total Travel Time (hr)	9	10	2	3	24
Distance Traveled (mi)	148	88	23	24	283
Fuel Consumed (gal)	11	12	2	4	29
Fuel Economy (mpg)	13.5	7.5	11.0	6.4	9.9
CO Emissions (kg)	0.76	0.83	0.15	0.26	2.00
NOx Emissions (kg)	0.15	0.16	0.03	0.05	0.39
VOC Emissions (kg)	0.18	0.19	0.03	0.06	0.46
Unserved Vehicles (#)	0	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0	0

8: SR 878 & SR 878 NB Off-Ramp

Direction	EB	WB	All
Volume (vph)	653	1446	2099
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	35	30	33
Total Travel Time (hr)	9	5	14
Distance Traveled (mi)	324	156	479
Fuel Consumed (gal)	12	6	19
Fuel Economy (mpg)	26.2	24.3	25.6
CO Emissions (kg)	0.86	0.45	1.31
NOx Emissions (kg)	0.17	0.09	0.25
VOC Emissions (kg)	0.20	0.10	0.30
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

10: SR 878 On-Ramp & US-1

Direction	NE	SW	All
Volume (vph)	960	3734	4694
Control Delay / Veh (s/v)	0	0	0
Queue Delay / Veh (s/v)	0	0	0
Total Delay / Veh (s/v)	0	0	0
Total Delay (hr)	0	0	0
Stops / Veh	0.00	0.00	0.00
Stops (#)	0	0	0
Average Speed (mph)	40	40	40
Total Travel Time (hr)	1	10	11
Distance Traveled (mi)	57	397	454
Fuel Consumed (gal)	2	14	16
Fuel Economy (mpg)	27.9	27.9	27.9
CO Emissions (kg)	0.14	0.99	1.14
NOx Emissions (kg)	0.03	0.19	0.22
VOC Emissions (kg)	0.03	0.23	0.26
Unserved Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0

15: SR 878 SB Off-Ramp &

Direction	SE	NE	SW	All
Volume (vph)	58	1823	2288	4169
Control Delay / Veh (s/v)	0	0	0	0
Queue Delay / Veh (s/v)	0	0	0	0
Total Delay / Veh (s/v)	0	0	0	0
Total Delay (hr)	0	0	0	0
Stops / Veh	1.00	0.00	0.00	0.01
Stops (#)	58	0	0	58
Average Speed (mph)	30	40	40	40
Total Travel Time (hr)	0	2	2	4
Distance Traveled (mi)	4	83	75	162
Fuel Consumed (gal)	0	3	3	6
Fuel Economy (mpg)	NA	27.9	27.9	26.4
CO Emissions (kg)	0.03	0.21	0.19	0.43
NOx Emissions (kg)	0.01	0.04	0.04	0.08
VOC Emissions (kg)	0.01	0.05	0.04	0.10
Unserved Vehicles (#)	0	0	0	0
Vehicles in dilemma zone (#)	0	0	0	0

Network Totals

Number of Intersections	10
Control Delay / Veh (s/v)	18
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	18
Total Delay (hr)	221
Stops / Veh	0.37
Stops (#)	16402
Average Speed (mph)	19
Total Travel Time (hr)	447
Distance Traveled (mi)	8519
Fuel Consumed (gal)	619
Fuel Economy (mpg)	13.8
CO Emissions (kg)	43.26
NOx Emissions (kg)	8.42
VOC Emissions (kg)	10.03
Unserved Vehicles (#)	266
Vehicles in dilemma zone (#)	713
Performance Index	266.8

Appendix B

Conceptual Cost Estimates

US – 1 / SR 878 Recommended Improvements

Turbo Lane (\$1M - \$1.1M)

1. Stripping out one off-ramp lane on SR 878 (?)
2. Add a NB lane along US-1 from SR 878 to north of SW 67th Avenue (\$600k)
3. Splitter on US-1 / SR 878 (included in \$600k)
4. Signal modification on US-1 / SR 878 (\$200k)
5. Signal modification on US-1 / SR 878 (\$250k)

Alternate Route (\$1M - \$1.2M)

1. Widen SW 80th Street from US-1 to SW 71th Ave (2 lanes to 4 lanes) (\$700k - \$800k)
2. Add a EB left turn lane on US-1 / SW 80th St (\$50k in standalone improvement)
3. Left turn signal on SW 80th St / SW 67th Avenue (EB/WB) (\$250k)
4. Add a SB thru lane on SW 80th St / SW 67th Avenue (\$60k - \$70k)
5. Add a NB right turn lane on SW 80th St / SW 67th Avenue (\$40k - \$50k)

SW 67th Avenue

1. Add a SB lane from SW 80th Ave to US-1 (\$65k - \$75k)

SW 80th Street (\$280k - \$310k)

1. EB Connection to SW 80th Street (\$180k - \$200k)
2. Two-lane on-ramp (\$100k - \$110k)

Total Construction Cost: \$2,345,000 - \$2,685,000

Appendix C

Transportation Technical Advisory Committee (TPTAC)



Metropolitan Planning Organization for the Miami Urbanized Area Planning transportation systems for Miami-Dade County in Florida!

HOMEPAGE

Resources for...

- Residents
- Transportation Partners
- MPO Staff

Sections

- Governing Board
- Committees
- Plans
- Programs
- Studies
- Downloads

Mini-Sites

- InteractTIP 2010
- TIP with Google Maps!
- My Neighborhood
- LRTP 2035
- Civic Center/Health District
- Intermodal Database
- Integrated Transportation Information System

Modes of Travel

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- Buses, Trains, and Movers
- Bicycling and Walking
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- Maritime and Aviation

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Transportation Planning Technical Advisory Committee

The Transportation Plan Technical Advisory Committee, or **TPTAC**, provides technical support, via a review process, to the [TPC](#). TPTAC discussions are focused on technical aspects related to the projects.

This committee is composed of representatives of the entities that have TPC voting members and are appointed by the director of each entity. It meets once a month and is open to the public.

These entities include:

- [Florida Department of Transportation](#) (FDOT)
- [Miami-Dade Aviation Department](#)
- [Miami-Dade Department of Environmental Resources Management](#) (DERM)
- [Miami-Dade Expressway Authority](#) (MDX)
- [Miami-Dade Planning & Zoning](#) (MDPZ)
- [Miami-Dade Public Works](#) (MDPW)
- [Miami-Dade Seaport Department](#)
- [Miami-Dade Transit](#) (MDT)
- [South Florida Regional Transportation Authority/Tri-Rail](#) (SFRTA)

Meeting Information

- Next meeting on January 6, 2010.
- Calendar of Meetings for [2009](#) and [2010](#)

Membership

- **Chairman** Mark Woerner ([MDPZ](#))
- **Vice-Chairman** Carl Filer ([FDOT](#))
- **Members**
 - Manuel Armada ([MDPZ](#))
 - Linda Glass-Johnson ([FDOT](#))
 - Sunil Harman ([Aviation Dept.](#))
 - Javier Heredia ([MDPW](#))
 - Alfred Lurigados ([MDX](#))
 - Mallika Muthiah ([DERM](#))
 - Felix Pereira ([Seaport Dept.](#))
 - Joe Quinty ([SFRTA](#))
 - Irma San Roman** (MPO)
 - Phil Steinmiller ([FDOT](#))

Alternates

Maria Batista, Derek Bradchulis, Jean Casto, Mayra Diaz, [Jesus Guerra](#), Rolando Jimenez, Suzie Papillon, Napoleon Somoza

■ **Coordinator** [Zainab Salim](#) (305.375.4507)

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TRANSPORTATION PLANNING TECHNICAL ADVISORY COMMITTEE (TPTAC)

WEDNESDAY, SEPTEMBER 2, 2009 AT 10:00 A.M.

ROOM 9-3

NAME	ORGANIZATION	PHONE/EMAIL
MARK WOERNER	DP&Z	305-375-2835 mwerner@miamicode.gov
Manuel Arredondo	DP&Z	305-375-2845 mau@miamicode.gov
Phil Steinmiller	FDOT- Planning	305-476-5825 phil.steinmiller@dot.state.fl.us
Claudio Diateria	FOOT- Planning	305-470-5466 claudio.diateria@dot.state.fl.us
Malika Muthiah	DERM	305-372-6425 mmuthiah@miamicode.gov
Alissa Escobar	POM	305-329-4035 escobar@miamicode.gov
Franklin - via Roman	MPO	IPM@miamicode.gov
ED CARSON	FPOT D6- PTO	305-470-5255 edcarson@dot.state.fl.us
Larry Foutz	M-D MPO	305-375-1522 lfoutz@miamicode.gov
Edu Gómez	MPO	305-375-2069 edgomez@miamicode.gov
CARLOS CEJAS	GANNETT FLEMING	786-225-7740 cejas@gf.fmlaw.com
Franusco Gonzalez	Corradino	305-213-9837 fgonzalez@corradino.com
Wilson Fernandez	MPO	305-375-1886 wilson@miamicode.gov
Joe Corradino	Corradino	—
Josh Bocks	Corradino	305-594-0735
Hector Diaz	TCDX	305-637-3277 hdiaz@tcdxway.com
Rolando Jimenez	PWD	305-375-5681 rjimenez@miamicode.gov
Ramon Alvarez	David Planners Assoc.	305-447-0900 ramon.alvarez@dplanners.com
Zainab Salim	MPO	305-375-4507 zsalim@miamicode.gov



TRANSPORTATION PLANNING TECHNICAL ADVISORY COMMITTEE (TPTAC)

WEDNESDAY, November 4, 2009 AT 10:00 A.M.

ROOM 9-3

NAME	ORGANIZATION	PHONE/EMAIL
Derek Sardoulie	DEPM	305-372-6940 derecs@miamicode.gov
Phil Steinmiller	FDOT	305-470-5825 phil.steinmiller@dot.state.fl.us
Carl Filer	FDOT	305-470-5187 carl.filer@dot.state.fl.us
Rolando Jiménez Jr	PWD	305-375-5681 rjimenezm@miamidade.gov
GARRET ROIGE	DP&Z	305-375-2835 garrett.roige@miamidade.gov
Alissa Escobar	POM	305-329-4035 escobas@miamidade.gov
FELIX PEREIRA	POM	305-331-4933 fpereira@miamidade.gov
MARIA C. BATISTA	MDT	786-469-5245 BPC@miamidade.gov
David Henderson	MPO	305-375-1647 davidh@miamidade.gov
Ramon Alvarez	DPA	305-447-0900 ramon.alvarez@plumtree.com
Stewart Robertson	Kimley-Horn	stewart.robertson@kimley-horn.com
Mayra Diaz	MDX	305-637-3277 mdiaz@maxway.com
Zainab Salim	MPO Clerk	250-375-4507 zsalima@miamidade.gov



**TRANSPORTATION PLANNING TECHNICAL ADVISORY
COMMITTEE (TPTAC)/ TRANSPORTATION
IMPROVEMENT DEVELOPMENT COMMITTEE**

WEDNESDAY, December 2, 2009 AT 10:00 A.M.

ROOM 9-3

NAME	ORGANIZATION	PHONE/EMAIL
CARL FILER	FDOT - PTO	305 470 5137 carl.filere@dot.state.fl.us
MARK R. WOERNER	Miami-Dade DP&Z	305-375-2835 mwoerner@miamidade.gov
JOHN GARCIA	MDT - PLANNING	786-469-5252 jogarcia@miamicidade.gov
Napoleon Soriano	Miami-Dade DP&Z	305/375-2835 nvs@miamidade.gov
Marie Suzie Papillon	SFRTA	954-788-7908 papillon@sfraa.fl.gov
Carla DeLaTorre	MDT	786 469 5836 carlae@miamidade.gov
MARJAN MARZA	MDT	Mmarza@miamidade.gov
Rolando Jiménez Jr	PWD	305 375 5681 rimene@miamidade.gov
JAVIER HEREDIA	MDC-PWD	305-375-1901 javierh@miamidade.gov
DAVID HAYS	MDC-PWD TRAFFIC	305 375 1019 hays@miamidade.gov
Rebecca Schwartz	MDT	786 469 5841 RSCHW@miamidade.gov
Kortressia Young	MDT	786-469-5342 young.k@miamidade.gov
Ken Jeffries	FDOT	305-470-6736 ken.jeffries@dot.state.fl.us
Zainab Salim	MPO Clerk	25salim@miamidade.gov 305 375-4507
Wilson Fernandez	MPO	(305)375-1886 wilson@miamidade.gov
Antonius Barry	MDT	786-469-5348 barry@miamidade.gov
Mayron Diaz	MDX	305-6373277 ext 218 mdiaz@mdxway.com
Felix Pereira	PIM	(3)347.5505 fpereir@miamidade.gov



PREPARED BY DAVID PLUMMER & ASSOCIATES

