

DRAFT

METRO-DADE

**Metropolitan
Planning Organization**

***Long Range
Transportation Plan
Update***

**1990 AND 1993
HIGHWAY AND TRANSIT
NETWORKS**

Gannett Fleming
ENGINEERS AND PLANNERS

Frederic R. Harris, Inc.

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I. INTRODUCTION

Technical Memorandum Number 2 provides documentation relative to the 1990 and 1993 traffic and transit networks developed for the Metro-Dade MPO Long Range Transportation Plan Update validation analysis. As discussed in Technical Memorandum Number 1 two base year networks have been developed for the project to determine the impacts of Hurricane Andrew on traffic and transit trip patterns. These impacts will be considered for long range and/or interim implications to the traffic and transit networks.

This memorandum is formatted into five sections. In addition to this introduction the following sections are provided:

Section II 1990 and 1993 Highway Network Review and Description

Section III 1990 and 1993 Transit Network Review and Description

Section IV 1990 and 1993 Validation Traffic Counts

Section V 1990 and 1993 Validation Transit Ridership Data

Sections II and III provide documentation relative to a review of the traffic and transit networks respectively as developed by the Metro-Dade MPO Long Range Transportation Plan Update Network Committee (Network Committee). These Sections also include other network information for the traffic and transit network that are pertinent to the validation procedure. Sections IV and V provide documentation as to the development of traffic count and transit ridership data that will be used in the calibration process to support the model's validity.

II. 1990 and 1993 Highway Network Review and Description

1990 Highway Network Review

The Network Committee provided a 1990 highway network in FSUTMS format for review by the project team. Two files were provided specifically for review including the LINKS file and the TCARDS file. The LINKS file includes network descriptors relative to network characteristics including area type, number of lanes, directionality and facility type. The TCARDS file is used to describe turn prohibitors to exclude any prohibited traffic movements from the model simulation process. Turn prohibitors are most commonly used to restrict movements onto one-way facilities such as expressway ramps and one-way collectors and arterials.

A reasonableness and consistency check was performed for all pertinent LINKS file characteristics. Five methods were used to review the highway network including:

- Visual review of color plots for consistency
- Identification of invalid FSUTMS coding
- Review of Summary Statistical Information
- Review of Centroid Ties
- Screenline Review

Visual Review

Each collector, arterial and expressway facility were reviewed on color network plots to ensure link-to-link consistency and appropriate coding based the actual highway network and adjacent land use. The review indicated some areas or links where additional research was performed. A minimal number of revisions were identified and the Network Committee was notified. Revisions were coded into the LINKS.90A file.

Invalid Coding

FSUTMS coding provides certain coding ranges for the area type and facility type characteristics as follows:

<u>AREA</u> <u>TYPE</u> _____	<u>FACILITY</u> <u>TYPE</u> _____
1 - CBD	1 - Expressway
2 - Fringe	2 - Divided Arterial
3 - Residential	3 - Undivided Arterial
4 - Outlying Business District	4 - Collector
5 - Rural	5 - Centroid Tie
	6 - One-Way

A review of the links file was performed to determine whether any links had been coded with invalid area type or facility type codes. No illegal codes were identified, subsequently no revisions were required. The same type of analysis was performed for the number of lanes on each roadway link. In this instance the LINKS file was reviewed for any links coded with 0 lanes or in excess of 6 lanes by direction. This review also resulted in no revisions to the final 1990 base network.

Review of Summary Statistical Information

The FSUTMS HEVAL procedure was utilized to provide summary network statistical information. Tables 1, 2 and 3 provide the final information utilized in this review. Each cell of the tables was reviewed for reasonableness which resulted in no revisions to the base network.

TABLE 1

HIGHWAY LANE MILES FROM "HEVAL"

	CBD	FRINGE	RESIDENTIAL	OBD	RURAL	TOTAL
FREEWAY	2.71	65.07	496.90	182.53	95.36	822.57
DIVIDED ARTERIAL	6.70	28.09	880.33	686.55	76.73	1678.40
UNDIVIDED ARTERIAL	24.30	33.85	709.38	321.44	259.74	1348.71
COLLECTOR	11.30	18.69	571.40	132.47	166.66	900.52
ONE WAY	0	0	0	0	0	0
TOTAL	45.01	145.70	2658.01	1302.99	598.49	4750.20

Source: Gannett Fleming Inc.

TABLE 2

NUMBER OF LINKS BY FACILITY TYPE
AND BY AREA TYPE

	CBD	FRINGE	RESIDENTIAL	OBD	RURAL	TOTAL
FREEWAY	18	131	569	227	50	995
DIVIDED ARTERIAL	13	45	754	637	44	1493
UNDIVIDED ARTERIAL	121	110	934	454	193	1812
COLLECTOR	76	74	853	201	153	1357
ONE WAY	0	0	0	0	0	0
TOTAL	282	360	3110	1519	440	5657

Source: Gannett Fleming Inc.

TABLE 3

NUMBER OF LINKS BY FACILITY TYPE
AND BY NUMBER OF LANES

	NUMBER OF LANES									TOTAL
	1	2	3	4	5	6	7	8	9+	
FREEWAY	349	263	170	154	49	9	0	0	0	995
DIVIDED ARTERIAL	73	106	3	958	0	342	0	10	0	1493
UNDIVIDED ARTERIAL	48	1018	193	511	1	32	0	9	0	1812
COLLECTOR	15	1160	9	171	0	2	0	0	0	1357
ONE WAY	0	0	0	0	0	0	0	0	0	0
TOTAL	485	2548	375	1794	50	385	0	19	0	5657

Source: Gannett Fleming Inc.

Review of Centroid Ties

An extensive review of the 1990 network centroid ties was undertaken where each zone was reviewed for access to the local and regional transportation network. Network plots and Traffic Analysis Zone maps were compared to a detailed street map. A number of zones were identified for further review and aerial photographs were used to verify the coding. The results indicated a handful of revisions that were coded to the LINKS.90A file.

Screenline/Cutline Review

Screenline plots were developed to identify the location of screenline/cutline links. The locations were reviewed with respect to the screenline\cutlines approved by the Long Range Plan Update Steering Committee. Figure 1 shows the approved screenlines. The review indicate a significant number of revisions were required so that LINKS.90A is consistent with Figure 1.

TCARDS Review

The 1990 turn prohibitor file was reviewed for accuracy and completeness. Each restricted movement identified in the TCARDS file was located on the 1990 highway network using the FSUTMS network editor file HNIS. The turn prohibitors are classified into three categories where they have been used to:

- prohibit illegal turns onto expressway ramps,
- prohibit "wrong direction" turns onto one-way facilities,
- and to obstruct movements at traffic signals where certain turns are prohibited.

No coding errors were identified and it was determined the file included all prohibitors needed to simulate the 1990 Dade County Highway Network.

METRO-DADE MPO LONG RANGE TRANSPORTATION PLAN UPDATE

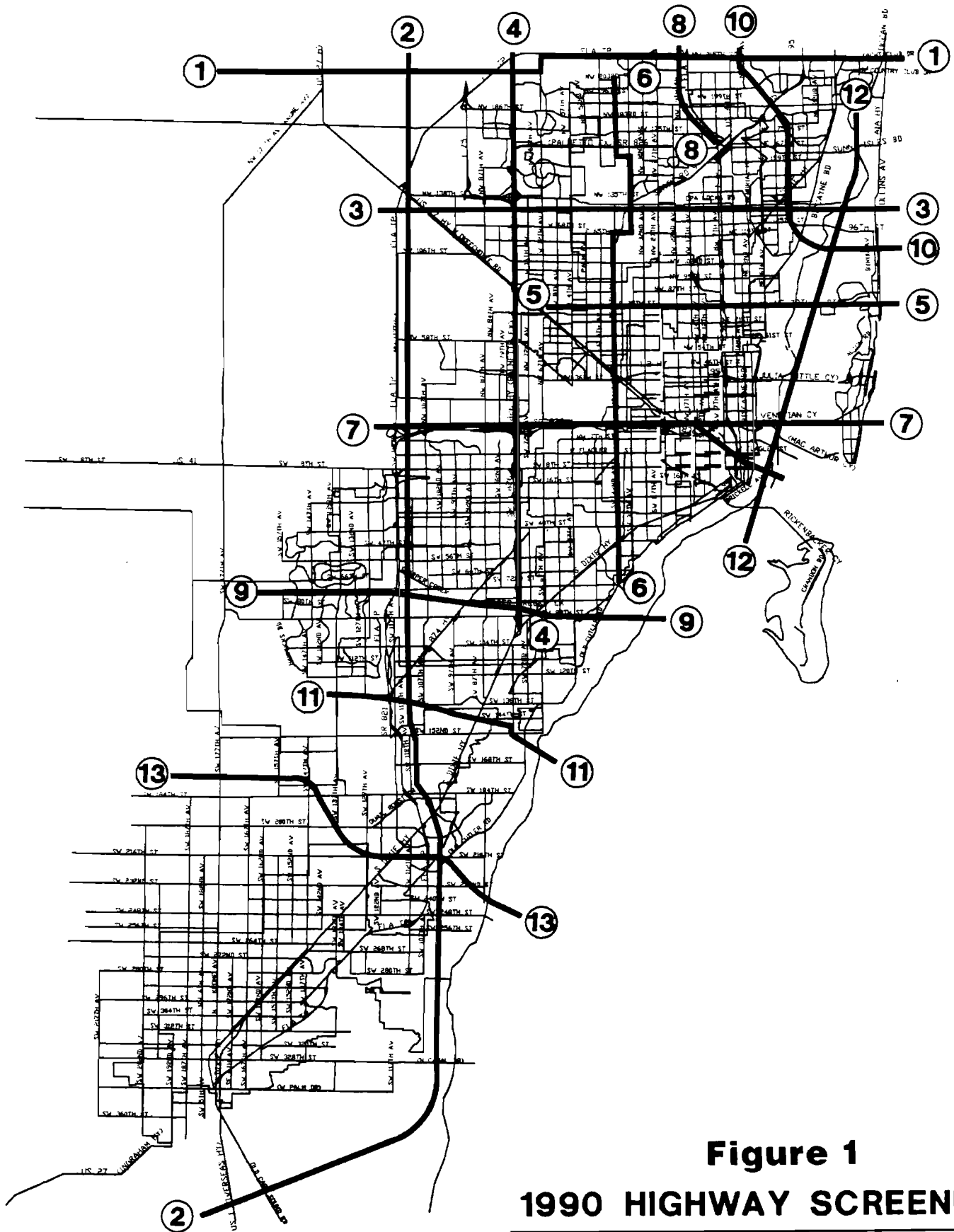


Figure 1
1990 HIGHWAY SCREENLINES

1993 Highway Network Development

Once the 1990 network had been reviewed for consistency and accuracy a 1993 network was developed. The 1993 network was built utilizing the reviewed/approved 1990 network as a base and coding in capacity increases based on highway improvement projects completed between the years 1990 and 1993. Table 4 provides a list of the projects identified by the Metro-Dade MPO and reviewed by the Project Steering Committee.

TABLE 4

**ROADWAY CAPACITY IMPROVEMENT PROJECTS
COMPLETED DURING 1990, 1991 AND 1992**

WORK ITEM #	PROJECT	LIMITS		COMPLETED IMPROVEMENTS
		FROM	TO	
Primary System				
6113213	SW 88 St.	HEFT	SW 152 Ave.	4 to 6 & 8 lanes
6113235	NW 36 St.	SR 826	NW 57 Ave.	4 to 6 lanes
6113886	GRATIGNY P/WAY	NW 32 Ave.	NW 25 Ave.	new 8 lanes
6151837	HEFT	@ NW 41 St.		interchange
6151849	HEFT	SW 8 St.	SR 836	4 to 6 lanes
Secondary System				
662306	Coral Way/sw 26 St.	SW 137 Ave.	SW 127 Ave.	2 to 4 lanes
662348	NW 36/41 St.	NW 114 Ave.	NW 102 Ave.	2 to 5 lanes
	NW 36/41 St.	NW 102 Ave.	NW 87 Ave.	2 to 6 lanes
662271	SW 104 St.	SW 122 Ave.	SW 117 Ave.	4 to 6 lanes
662186	NW 119 St.	NW 57 Ave.	NW 42 Ave.	2 to 4 lanes
662215	SW 67 Ave.	NW 170 St.	NW 202 St.	2 to 6 lanes
662210	NW 58 St.	SR 826	NW 72 Ave.	2 to 4 lanes
662034	SW 107 Ave.	SW 56 St.	SW 24 St.	2 to 4 lanes
662090	SW 67 Ave.	SW 40 St.	W Flagler St.	2 to 4 lanes
662190	NW 25 St.	NW 107 Ave.	NW 72 Ave.	2 to 4 lanes & ramp construction
662162	SW 42 St.	SW 142 Ave.	SW 127 Ave.	2 to 4 lanes
650538	SW 137 Ave.	SW 42 St.	SW 26 St.	0 to 6 lanes
680009	Palmetto Xway Ramp	@ NW 25 St.		interchange
671901	NW 87 Ave.	NW 103 St.	NW 122 St.	Right turn lane and bicycle lane
662329	SW 127 Ave. Bridge	SW 8 St.	SW 6 St.	New 3 lane Bridge and approaches
680007	SW 137 Ave.	SW 120 St.	SW 88 ST.	2 to 6 lanes

III. 1990 and 1993 Transit Network Review and Description

1990 Transit Network Review

The Network Committee provided a 1990 transit network in FSUTMS format for review by the project team. A number files were provided by the committee, those specifically reviewed include:

- LINK46AM.90Y Metrobus, Express bus "off-highway" links AM
- LINK46MD.90Y Metrobus, Express Bus "off-highway" links Midday
- LINK5AM.90Y Metrorail Links AM
- LINK5MD.90Y Metrorail Links Midday
- LINK8AM.90Y Metromover Links AM
- LINK8MD.90Y Metromover Links Midday
- MODE4AM.90Y Metrobus, Express bus routes AM
- MODE4MD.90Y Metrobus, Express Bus routes Midday
- MODE5AM.90Y Metrorail route AM
- MODE5MD.90Y Metrorail route Midday
- MODE6AM.90Y Express bus routes AM
- MODE6MD.90Y Express Bus routes Midday
- MODE8AM.90Y Metromover route AM
- MODE8MD.90Y Metromover route Midday
- STATDAT.90Y Transit station description
- PROFILE.MAS Contains mode/route fares

A systematic review was performed on the transit network to verify link to link coding, headway and fare data.

Note the submitted transit network does not contain any coding for the TRrail system or the Jitney network.

Metrobus\Express Bus Review

Historical metrobus and express bus route maps were obtained from the Metro-Dade Transit Agency. Route maps were reviewed to identify route configurations, and headways in effect in 1990. This information was utilized to review the Network Committee route coding for each individual route. Highway network maps were plotted and the route files were traced onto the maps based on coding provided by the Network Committee. Inconsistencies between the network plots and the route coding files were identified for further research. The second level of review included the cross checking of individual route maps with the link coding to ensure routes were placed properly onto the highway network. The third level of review for route coding included the review of the "off-highway" network links to verify sections of metrobus routes not shown on the 1990 highway link plots.

The review identified some coding revisions that were documented and transmitted to the Network Committee for revision. The same type of review was performed for the express bus routes.

Additional data were assimilated for the validation process of this study including the number of vehicles available for each route during peak and regular hours and headway information for peak and off-peak hours. Table 5 provides the vehicle information for the metrobus and express bus modes and Table 6 provides the headway information. The review identified some headway revisions were required. This information was transmitted to the Network Committee for revision.

Metrorail, Metromover Review

The two rail modes were also reviewed for consistency with network coding and headway information. Since all three modes are separate from the highway network the links files (LINK5XX.90Y, LINK8XX.90Y where XX represents AM or Midday) were reviewed to ensure consistency with the route files (MODE5XX.90Y, MODE8XX.90Y where XX represents AM or Midday). No revisions were identified as necessary.

TABLE 5
METRO-DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE
1990 MDTA METROBUS AND EXPRESS BUS NO. OF VEHICLES

1990				
ROUTE	MD. VEH.	TOTAL PEAK VEHICLES		TOTAL PULL OUT
		AM.	PM	
1	4	11	11	22
2	8	8	8	8
3	12	15	15	18
7	7	7	8	15
8	10	10	10	10
9	5	9	9	13
10	4	7	7	10
11	14	20	20	40
12	6	6	6	6
16	7	7	8	8
17	7	11	11	15
21	5	5	5	5
22	7	10	10	N/A
24	10	10	10	N/A
27	13	14	16	17
28	2	2	2	4
29	2	2	2	N/A
32	7	10	9	12
33	3	6	5	N/A
35	6	6	6	12
36	5	10	9	14
37	7	7	7	7
38	0	5	5	10
40	5	5	5	5
42	3	3	3	3
46	0	4	4	8
48	3	3	3	6
52	6	8	10	12
54	3	8	6	11
57	3	5	5	7
62	7	11	11	15
65	0	1	1	2
71	4	4	4	8
73	4	7	7	10
74	2	2	2	2
75	7	7	8	8
77	7	11	12	16
83	6	7	8	9
87	2	3	3	4
88	3	6	6	12
91	2	2	2	2

TABLE 5
METRO-DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE
1990 MDTA METROBUS AND EXPRESS BUS NO. OF VEHICLES

1990				
ROUTE	MD. VEH.	TOTAL PEAK VEHICLES		TOTAL PULL OUT
		AM.	PM	
126	0	0	0	0
132	0	1	1	2
133	0	1	1	2

SOURCE: FREDERIC R. HARRIS

METRO-DADE TRANSIT AGENCY

TABLE 6
METRO-DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE

METROBUS AND EXPRESS BUS 1990 AM AND MIDDAY HEADWAYS

ROUTE NUMBER	AM		MD	
	MODEL	ACTUAL	MODEL	ACTUAL
A	30	30	30	30
B	24	15-30	40	40
C	20	20	20	20
D	30	30	30	30
E	60	60	60	60
F	20	20	30	30
G	30	15-30	30	15-30
H	15	15	15	15
J	20	20	30	20
K	20	20	20	20
L	30	7.5-15	30	30
M	30	30	30	30
R	60	60	60	60
S	15	15	15	15
T	20	20	20	20
V	120		60	60
W	24	24	24	24
1	12	7.5	30	30
2	60	15	60	15
3	20	20	20	20
6	60	60	60	60
7	40	20-40	40	20-40
8	30	15	30	15
9	40	10-40	40	40
10	40	40	40	40
11	15	7.5-15	20	10
12	30	30	30	30
16	20	20	20	20
17	30	15-30	30	30-60
21	60	30-60	60	30-60
22	60	20-60	60	30-60
24	30	15-30	30	15-30
27	30	12-30	30	15-30
28	60	60	60	60
29	70	70	70	70
32	20	20	30	30
33	30	30	30	45
35	60	60	20	60
36	30	20-60	60	30-60
37	30	30	30	30
40	60	30	60	30
42	60	60	60	60
48	60	60	60	60
52	30	30-60	60	60

TABLE 6
METRO-DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE

METROBUS AND EXPRESS BUS 1990 AM AND MIDDAY HEADWAYS

ROUTE NUMBER	AM		MD	
	MODEL	ACTUAL	MODEL	ACTUAL
54	20	20	60	60
56	60	60	60	60
57	60	60		60
62	60	10-20	30	15
65	60	N/A		N/A
67	60	60	60	60
70	60	60	60	60
71	60	60	60	60
72	60	30	60	40
73	60	30-60	60	60
74	60	60	60	60
75	60	30	30	30
77	30	12-60	40	20-60
83	60	20-60	30	30
87	60	60	60	60
88	30	15-30	60	30-60
91	60	60	60	60

SOURCE: FREDERIC R. HARRIS

SOURCE: METRO-DADE TRANSIT AGENCY

Transit Fares File Review

The PROFILE.MAS file was reviewed for consistency with the 1990 transit fare schedule. A summary of the transit schedule is provided below:

Local Bus Regular Fare	\$1.00
Express Bus Regular Fare	\$1.25
Metrorail Regular Fare	\$1.00
Metromover Regular Fare	\$0.25
Local Bus to Local Bus Transfer	\$0.25
Local Bus to Express Bus Transfer	\$1.00
Local Bus to Metrorail Transfer	\$0.25
Local Bus to Metromover Transfer	\$0.25
Express Bus to Local Bus Transfer	\$0.25
Express Bus to Metrorail Transfer	\$0.25
Express Bus to Metromover Transfer	\$0.25
Metrorail to Local Bus Transfer	\$0.25
Metrorail to Express Bus Transfer	\$0.25
Metrorail to Metromover Transfer	\$0.00
Metromover to Local Bus Transfer	\$1.00
Metromover to Express Bus Transfer	\$1.50
Metromover to Metrorail Transfer	\$0.75

1993 Transit Network Review

The 1993 transit network is currently being developed by the Network Committee and will be reviewed in the same manner as the 1990 network upon receipt of the draft network.

IV. 1990 and 1993 Validation Traffic Counts

1990 Traffic Counts for Validation Purposes

The Metro-Dade County Long Range Plan Update Steering Committee and the Project Team agreed that the most appropriate type of traffic count to utilize in this analysis are traffic counts adjusted to represent peak season, average weekday, daily conditions (PSAWDT). This is consistent with the trip generation module.

Peak Season Factor

Two main sources of information were available to determine seasonality including the Florida Department of Transportation (FDOT) and Metro-Dade County. The most reliable source of information for seasonal analysis are the FDOT's continuous count stations at nine separate locations in Dade County. Weekly adjustment factor data for those stations were obtained and analyzed for seasonality.

The results of the analysis indicated seasonality had two distinct patterns where the traffic influx during the peak season of the year is greater at beach access points than at mainland locations. For this reason two seasonality factors were developed including one for mainland traffic counts and one for beach traffic counts where the intracoastal waterway defined the mainland-beach border. Information obtained for the seven mainland continuous count stations were combined to indicate the mainland seasonality factor for 1990 (1.02) while the continuous count stations located on I-195 and I-395 east of I-95 were combined to determine the beach seasonality factor (1.10).

Average Weekday Factor

Traffic count information received by the FDOT and Metro-Dade County were not in a consistent format. FDOT counts are factored based on the continuous counter traffic count information and are adjusted to Average Annual daily Traffic (AADT). The AADT format accounts for traffic fluctuations throughout the year including changes occurring on Saturdays and Sundays. This is different from the Metro-Dade County

traffic count information which is reported in Average Weekday Daily Traffic (AWDT) format. This is based on traffic fluctuations on weekdays exclusive of weekend impacts. As stated above, the Steering Committee and the Project Team agreed the trip generation module results are reflective of weekday conditions so an AADT to AWDT factor was developed to adjust FDOT counts to AWDT.

Information was obtained from the Department indicating weekday traffic counts and entire week traffic counts for the peak month of the year at four different traffic count locations. Table 7 shows the information and compares the weekday (5-Day) average to the (7-Day) average. Three mainland stations were averaged together indicating weekday traffic is approximately 6% greater than the entire week average. The beach location indicated weekday average is less than the entire week average with a .98 factor. This information is supported by the same analysis performed for 1991 data as shown on Table 8. Therefore a mainland AADT to AWDT factor of 1.06 and a beach AADT to AWDT factor of .98 were selected to convert FDOT AADT traffic counts.

Appendix A provides a summary of the 1990 traffic count information used in the validation analysis.

Additional Review

An additional review of traffic counts was required for the I-95 corridor where the 1990 traffic counts were not reflective of historical information. Table 9 provides an analysis indicating the results of an interpolation of traffic counts between 1988 and 1992 to provide a more realistic traffic volume for I-95 in northeast dade County for 1990.

1993 Traffic Counts for Validation Purposes

Traffic count data for 1993 was also obtained from FDOT and Metro-Dade County. Similar to 1990 the FDOT data was obtained in AADT format and again was adjusted to AWDT format. A second seasonality analysis was performed using 1993 continuous counter information. The results of the analysis indicated there was no difference between the mainland seasonality factor and the beach seasonality factor where the continuous counter information reflected a 5% increase in traffic for both areas.

Table 7. - Comparison of 5- day and 7- day 1990 Daily Traffic Counts

Station #	Location	Dir	3/4- 3/10			3/11- 3/17			3/18- 3/24			3/25- 3/31			Total Month		
			5 Day	7 Day	5/7 Day Factor	5 Day	7 Day	5/7 Day Factor	5 Day	7 Day	5/7 Day Factor	5 Day	7 Day	5/7 Day Factor	5 Day	7 Day	5/7 Day Factor
178	US- 1 S of Granada	SB	48,631	46,594	1.04	48,399	46,605	1.04	49,516	47,222	1.05	48,163	46,316	1.04	48,677	46,684	1.04
		NB	45,474	43,424	1.05	45,864	43,825	1.05	46,823	44,648	1.05	45,019	43,124	1.04	45,795	43,755	1.05
137	SR- 826 2600' W of NW 67 Ave	WB	53,305	49,069	1.09	53,407	49,226	1.08	53,844	49,544	1.09	54,667	50,238	1.09	53,806	49,519	1.09
111	SR- 7 S of NW 46th St	SB	9,152	8,394	1.09	9,144	8,424	1.09	9,110	8,345	1.09	8,953	8,268	1.08	9,090	8,358	1.09
		NB	9,967	9,284	1.07	9,920	9,266	1.07	9,892	9,177	1.08	9,895	9,196	1.08	9,918	9,230	1.07
31	McArthur Cswy W of Palm Isl.	WB	32,422	32,920	0.98	34,140	34,807	0.98	33,328	34,185	0.97	32,730	33,914	0.97	33,155	33,956	0.98
		EB	33,706	34,074	0.99	34,913	35,453	0.98	34,398	34,808	0.99	33,467	34,408	0.97	34,121	34,686	0.98

Source: Frederic R. Harris, Inc.

Florida Department of Transportation

Mainland Stations (178, 137, 111) 1.06

Beach Station (31) 0.98

Table 8. - Comparison of 5- day and 7- day 1991 Daily Traffic Counts

Station #	Location	Dir	3/3- 3/9			3/10- 3/16			3/17- 3/23			3/24- 3/30			Total Month		
			5 Day	7 Day	5/7 Day Factor	5 Day	7 Day	5/7 Day Factor	5 Day	7 Day	5/7 Day Factor	5 Day	7 Day	5/7 Day Factor	5 Day	7 Day	5/7 Day Factor
178	US- 1 S of Granada	SB	*	*		47,969	46,057	1.04	48,672	*		*	*		48,320	46,057	1.05
		NB	49,057	46,219	1.06	49,465	46,412	1.07	50,023	47,616	1.05	50,104	47,730	1.05	49,662	46,994	1.06
137	SR- 826 2600' W of NW 67 Ave	WB	55,026	50,752	1.08	55,055	50,068	1.10	56,590	51,937	1.09	56,826	52,573	1.08	55,874	51,332	1.09
111	SR- 7 S of NW 46th St	SB	9,031	8,218	1.10	*	*		8,987	8,266	1.09	*	*		9,009	8,242	1.09
		NB	9,790	8,997	1.09	*	*		9,878	9,199	1.07	*	*		9,834	9,098	1.08
31	McArthur Cswy W of Palm Isl.	WB	34,859	35,613	0.98	35,091	35,367	0.99	35,484	36,151	0.98	36,460	36,962	0.99	35,474	36,023	0.98
		EB	35,470	35,592	1.00	35,893	36,034	1.00	36,340	36,639	0.99	36,439	36,785	0.99	36,035	36,263	0.99
240	SR- 9 SW of Biscayne Canal Br.	NB	*	*		*	*		11,468	10,102	1.14	11,388	10,024	1.14	11,428	10,063	1.14
		SB	*	*		*	*		10,394	9,238	1.13	10,306	9,147	1.13	10,350	9,193	1.13

Source: Frederic R. Harris, Inc.

Florida Department of Transportation

* Error in traffic count

Mainland Stations (178, 137, 111, 240) 1.07

Beach Station (31) 0.98

TABLE 9
Analysis of I-95 Traffic Counts in NE Dade County

Roadway	Location	1988 AADT	1989 AADT	1990 AADT	1991 AADT	1992 AADT
Historical Analysis Indicating Recorded AADT						
I-95	South of Broward County Line	134,369	130,374	115,037	119,023	137,000
	South of Ives Dairy Road	140,260	129,801	123,917	119,225	164,000
	South of Miami Gardens Drive	126,458	121,819	115,673	115,463	133,500
	North of 135th Street	171,365	173,410	163,946	170,099	N/A
	South of 135th Street	197,972	181,994	171,724	172,465	178,000
Revised 1990 AADT's Based on 1988 to 1992 Interpolation						
I-95	South of Broward County Line	134,369	130,374	135,685	N/A	137,000
	South of Ives Dairy Road	140,260	129,801	152,130	N/A	164,000
	South of Miami Gardens Drive	126,458	121,819	129,979	N/A	133,500
	North of 135th Street	171,365	173,410	170,521	N/A	N/A
	South of 135th Street	197,972	181,994	187,986	N/A	178,000
Adjustment of Interpolated AADT's to PSAWDT						
I-95	South of Broward County Line	145,280	140,960	<i>146,702</i>	N/A	148,124
	South of Ives Dairy Road	151,649	140,341	<i>164,483</i>	N/A	177,317
	South of Miami Gardens Drive	136,726	131,711	<i>140,533</i>	N/A	144,340
	North of 135th Street	185,280	187,491	<i>184,367</i>	N/A	N/A
	South of 135th Street	214,047	196,772	<i>203,250</i>	N/A	192,454

Source: Frederic R. Harris, Inc.

Florida Department of Transportation

Note: Volumes in italic are final estimates used in 1990 network

Four adjustments were required to transform the single day counts to PSAWDT format including:

- an axle adjustment factor,
- an AADT factor,
- an AADT to AWDT factor
- and a peak season factor.

A 1993 axle adjustment factor has been developed based on information obtained from the FDOT continuous counter locations. An average of the stations indicates a countywide axle adjustment factor of .975 which was applied to the raw counts. The FDOT weekly adjustment factors were utilized to adjust the single day axle adjusted volumes to AADT. The 1993 weekly adjustment factors for Dade County ranged from .91 to 1.06 for the 1993 calendar year. AADT data were then converted to AWDT based on the 1990 information and the aforementioned peak season factor applied to provide PSAWDT.

Metro-Dade County traffic count information was received in the form of single day raw traffic count machine reports. The data was made consistent with the 1990 Metro-Dade traffic count station locations where feasible and entered to the 1993 highway network. Appendix B provides a listing of the 1993 traffic count data.

Table 10 provides a summary of all the traffic count factors used in developing the 1990 and 1993 PSAWDT counts for the validation procedure.

**Metro-Dade MPO
Long Range Transportation Plan Update**

Table 10. – Traffic Count Factor Summary

Agency/Location		Axle Adjust Factor		(1) AADT Factor		AADT to AWDT Factor		Peak Season Factor	
1990 FDOT Mainland AADT	x	N/A	x	N/A	x	1.06	x	1.02	= 1990 PSAWDT
1990 FDOT Beach AADT	x	N/A	x	N/A	x	.98	x	1.10	= 1990 PSAWDT
1990 County Mainland AWDT	x	N/A	x	N/A	x	N/A	x	1.02	= 1990 PSAWDT
1990 County Beach AWDT	x	N/A	x	N/A	x	N/A	x	1.10	= 1990 PSAWDT
1993 FDOT Mainland AADT	x	N/A	x	N/A	x	1.06	x	1.05	= 1993 PSAWDT
1993 FDOT Beach AADT	x	N/A	x	N/A	x	.98	x	1.05	= 1993 PSAWDT
1993 County Mainland Raw Data	x	.975	x	0.91–1.06	x	1.06	x	1.05	= 1993 PSAWDT
1993 County Beach Raw Data	x	.975	x	0.91–1.06	x	.98	x	1.05	= 1993 PSAWDT

(1) – A single factor is applied based on the date of the traffic count and the corresponding weekly factor as reported by FDOT. Note, range of values shown represent the year's high and low value.

V. 1990 and 1993 Transit Ridership Data

Metro-Dade Transit Agency identified March as the peak month of the year for ridership and information was collected for the Metrobus, Metrorail and Metromover systems for March 1990 and March 1993. In addition, Trirail was contacted and ridership data collected for the same time periods.

Table 11 provides the 1990 and 1993 data for Metrobus ridership by route for average weekday and for the peak month. Table 12 and 13 provide ridership data in the same format by station for Metrorail and Metromover respectively. Note, the information for 1993 Metromover ridership reflects a decrease between 1990 and 1993. This is a result of the closing of the outer loop to allow for construction of the Metromover south extension. Table 14 provides monthly ridership data by station for the Trirail system.

Additional data were collected to be used in the validation procedure and is included on Table 15.

TABLE 11
METRO-DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE

TOTAL BOARDINGS FOR EXPRESS\METROBUS ROUTES
(MONTH OF MARCH)

ROUTE	1990		1993	
	AVERAGE WEEKDAY	MONTHLY BOARDINGS	AVERAGE WEEKDAY	MONTHLY BOARDINGS
A	572	14,134	556	13,197
B	1,433	39,915	1,269	35,036
C	4,782	134,259	3,801	105,781
D	2,431	65,866	N/A	N/A
E	695	18,076	879	22,064
F	1,773	43,655	1,171	29,357
G	3,351	92,593	2,882	78,655
H	7,059	209,244	5,265	153,937
J	5,504	144,476	5,271	140,622
K	4,852	134,783	4,618	127,489
L	11,051	302,141	12,196	334,128
M	2,165	61,255	1,767	50,396
R	552	14,798	438	10,077
S	10,271	303,972	17,006	503,589
T	3,180	82,824	2,340	61,824
V	396	8,712	619	14,240
W	896	24,905	756	20,781
1	3,340	85,942	1,871	52,505
2	4,318	113,194	4,096	107,515
3	8,707	243,386	8,691	260,262
6	567	12,480	174	4,005
7	3,250	87,027	3,946	110,369
8	6,907	186,352	8,019	216,442
9	5,138	118,732	4,998	123,173
10	2,591	60,329	2,416	58,435
11	13,780	371,795	15,837	438,627
12	3,249	71,481	3,167	72,843
16	4,978	129,132	4,823	131,100
17	5,732	146,222	5,432	140,832
21	2,200	48,390	2,393	55,030
22	3,924	100,364	4,360	114,253
24	4,453	120,617	5,101	135,849
27	8,870	230,948	8,774	234,578
28	713	15,690	755	17,359
29	445	9,788	563	12,944
32	3,850	95,551	4,208	105,748
33	1,854	47,352	2,310	59,680

TABLE 11
METRO-DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE

TOTAL BOARDINGS FOR EXPRESS\METROBUS ROUTES
(MONTH OF MARCH)

ROUTE	1990		1993	
	AVERAGE WEEKDAY	MONTHLY BOARDINGS	AVERAGE WEEKDAY	MONTHLY BOARDINGS
35/70	2,212	48,672	1,637	37,652
36	3,696	95,260	3,569	95,004
37	3,576	93,331	3,777	98,303
40	2,422	62,365	2,399	63,795
42	1,049	31,191	942	27,072
48	827	20,027	654	15,047
51	N/A	N/A	1,724	25,855
52/56	2,445	53,790	1,900	43,705
54	2,273	57,906	3,067	78,546
57/72	1,353	29,759	1,137	26,157
62	5,936	152,911	5,744	151,235
70	N/A	N/A	N/A	1,559
71	N/A	2,674	1,155	30,181
73	2,256	55,342	2,472	62,244
74	298	6,555	N/A	N/A
75	3,324	76,497	3,874	93,309
77	7,531	199,133	8,763	230,189
80	N/A	N/A	265	6,097
83	3,971	104,539	4,365	113,590
87	1,046	25,797	989	25,544
88	2,584	70,890	2,479	70,807
91	752	19,515	818	22,028
TOTAL	197,380	5,196,534	204,498	5,470,641

SOURCE: FREDERIC R. HARRIS

SOURCE: METRO-DADE TRANSIT AGENCY

TABLE 12
METRO-DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE
TOTAL BOARDINGS FOR METRORAIL BY STATION
(MONTH OF MARCH)

STATION	1990		1993	
	AVERAGE WEEKDAY	TOTAL BOARDINGS	AVERAGE WEEKDAY	TOTAL BOARDINGS
DADELAND SOUTH	5,007	132,352	4,893	132,069
DADELAND NORTH	4,749	120,258	4,810	123,778
SOUTH MIAMI	2,764	69,414	2,790	71,184
UNIVERSITY	1,825	47,823	1,631	43,611
DOUGLAS	2,405	62,417	2,510	65,966
COCONUT GROVE	1,224	32,740	1,199	32,807
VIZCAYA	928	25,510	1,046	28,606
BRICKELL	1,854	57,570	1,984	57,086
GOVERNMENT CENTER	11,026	280,147	10,705	277,723
OVERTOWN/ARENA	2,353	70,616	1,253	41,779
CULMER	575	15,519	598	16,182
CIVIC CENTER	4,486	105,607	4,729	115,901
SANTA CLARA	523	13,269	535	13,886
ALLAPATTAH	1,160	31,223	1,499	40,964
EARLINGTON HEIGHTS	936	25,282	1,038	28,227
BROWNSVILLE	585	15,990	676	18,149
MARTIN LUTHER KING	991	26,140	1,135	30,144
NORTHSIDE	1,537	44,383	1,864	52,413
TRI-RAIL	1,085	24,881	1,999	49,723
HIALEAH	1,232	34,230	1,367	36,276
OKEECHOBEE	2,049	54,761	2,316	60,925
TOTAL	49,294	1,290,132	50,577	1,337,399

SOURCE: FREDERIC R. HARRIS

SOURCE: METRO-DADE TRANSIT AGENCY

TABLE 13
METRO DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE
TOTAL BOARDINGS FOR METRO-MOVER BY STATION
MONTH OF MARCH

STATION	YEAR			
	1990		1993	
	AVERAGE(1) WEEKDAY	MONTHLY	AVERAGE(1) WEEKDAY	MONTHLY
GOVERNMENT CENTER	4,275	112,548	1,758	47,038
MIAMI AVENUE	898	23,653	756	20,228
FORT DALLAS	72	1,908	0	0
KNIGHT CENTER	762	20,060	961	25,696
BAYFRONT PARK	2,581	67,963	1,865	49,893
FIRST STREET	419	11,033	251	6,723
COLLEGE/BAYSIDE	1,428	37,587	935	25,003
COLLEGE/NORTH	435	11,463	288	7,701
ARENA/STATE PLAZA	249	6,558	303	8,094
TOTAL	11,121	292,773	7,117	190,376

SOURCE: FREDERIC R. HARRIS

SOURCE: METRO-DADE TRANSIT AGENCY

1. BASED ON METROBUS WEEKDAY TO MONTHLY RELATIONSHIPS.

TABLE 14
METRO-DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE

TRIRAIL RIDERSHIP - MARCH 1990 AND 1993

STATIONS	1990				1993			
	Northbound		Southbound		Northbound		Southbound	
	On	Off	On	Off	On	Off	On	Off
Miami Airport	7,760	0	0	6,697	15,885	0	0	14,464
Metrorail	21,930	0	5	24,135	54,794	5	14	57,654
Golden Glades	4,838	340	395	4,660	9,267	1,616	1,526	8,809
Hollywood	5,588	2,929	4,050	4,451	9,040	7,620	10,201	8,446
Ft Laud Airport	2,763	1,839	2,043	2,739	4,322	4,515	5,276	4,632
Ft Lauderdale	4,641	4,348	4,500	3,943	9,792	12,646	14,451	10,339
Cypress Creek	2,456	4,425	4,780	2,716	5,300	8,066	9,071	5,434
Pompano Beach	1,781	3,495	3,440	1,443	4,573	7,068	8,083	4,106
Deefield Beach	1,470	4,345	5,223	1,165	3,410	7,376	8,653	3,277
Boca Raton	1,646	6,243	5,370	1,525	5,267	11,223	11,105	5,970
Delray Beach	640	2,422	2,819	823	2,793	6,172	6,488	2,552
Boynton Beach	414	2,914	3,436	537	2,832	7,020	7,969	2,472
Lake Worth	99	4,218	5,241	502	2,320	11,921	13,829	1,816
Palm Beach Airport	6	3,213	3,032	109	195	9,281	8,597	126
West Palm Beach	0	12,305	11,111	0	0	35,261	24,894	0

SOURCE: FREDERIC R. HARRIS

SOURCE: TRI-RAIL PASSENGER AUDIT REPORT

**TABLE 15
METRO-DADE MPO
LONG RANGE TRANSPORTATION PLAN UPDATE
1990 VEHICLE OPERATING CHARACTERISTICS**

ITEM	AVERAGE WEEKDAY				ANNUAL TOTAL
	AM PEAK	PM PEAK	MD	TOTAL	
NUMBER OF VEHICLES IN OPERATION	396	409	295	409	N/A
TOTAL VEHICLE MILES	17,365	20,839	14,587	69,462	21,863,275
TOTAL VEHICLE HOURS	1,415	1,189	1,698	5,662	1,775,591

SOURCE: FREDERIC R. HARRIS

SOURCE: METRO-DADE TRANSIT AGENCY

APPENDIX A

**Metro-Dade MPO
Long Range Transportation Plan Update**

1990 PSAWDT Counts

1990 Count Report

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
1171	2036	State		3845	3845	7690
1175	2030	State		73351		73351
1185	2046	State		5760	5760	11520
1501	4831	State		8315	8315	16630
1505	6308	State		8699		8699
1506	1507	State		38908	38908	77816
1510	1505	State	2262	7416		7416
1515	6241	State	2260	11122		11122
1520	1510	State	2260	12151		12151
1521	1524	State		7805	7806	15611
1543	3973	County	974	3510	3510	7020
1545	1540	State		53040		53040
1548	1564	State		15427	15428	30855
1562	1568	State	5170	10838	10838	21676
1565	6178	State		5060	5060	10120
1572	1574	State	5385	36289	38905	75194
1572	3457	State		42284	43931	86215
1575	6144	State		13101		13101
1577	1578	State	5383	11327	11327	22654
1581	1591	State		17200	17201	34401
1585	1570	State		13833		13833
1588	1592	State	1018	15157	15157	30314
1595	1590	State		58205		58205
1605	1650	State	2264	14285		14285
1608	3069	State	142	21261	21261	42522
1610	1600	State		64364		64364
1611	1612	State		17243	17244	34487
1618	1619	State		6307	6307	12614
1625	1615	State		67187		67187
1628	1629	State	520	10180	10180	20360
1629	1632	State		20438		20438
1630	6103	State		7115	7115	14230
1631	1628	State		22875		22875
1632	1634	County	116	18960		18960
1633	1631	County	180	20660		20660
1637	1638	State	132	9864	9864	19728
1641	1642	State	540	1331	1331	2662
1642	1643	State		19355	19356	38711

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
1645	6106	State	2264	13698		13698
1648	1651	State	124	18150	18150	36300
1652	1653	State		20939	20939	41878
1653	2975	State		20939	20939	41878
1656	1657	State		16680	16680	33360
1657	1658	State	314	11436	11436	22872
1658	1659	State		11246	11246	22492
1659	1661	County	572	12650	12650	25300
1662	1647	State		70024		70024
1671	2303	State		74629		74629
1715	1664	State		70722		70722
1717	4832	State		2196	2197	4393
1725	5948	State		25163	25163	50326
1745	5944	State		7235	7235	14470
1751	1753	State		5		5
1751	2306	State		32650	32650	65300
1752	2428	State		3745	3745	7490
1765	1735	State		28992		28992
1767	3370	State	2134	92189		92189
1774	3348	State		58653		58653
1775	1765	State	2254	43764		43764
1776	1777	State		59831		59831
1787	1784	State	2266	44151		44151
1789	1788	State		18024		18024
1792	3546	State	2193	80862		80862
1795	1790	State		29703		29703
1796	4431	State		86866		86866
1797	4432	County	618	9855	9855	19710
1802	1804	State		21232		21232
1806	1803	State		21232		21232
1807	1808	State		21232	21232	42464
1808	4609	County	348	9415	9415	18830
1812	3549	State	2243	53257		53257
1813	1834	County	358	28510		28510
1821	4414	County	360	15835	15835	31670
1823	4592	State	1211	27540	27541	55081
1829	1832	County	358	14255	14255	28510
1834	1838	State		53112		53112

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
1835	1845	State		38475		38475
1839	1812	State	2244	52590		52590
1858	3584	State	569	99999		99999
1859	4601	State		30980	31782	62762
1860	3594	State	567	99999		99999
1872	3576	State		90795		90795
1886	4416	State		21122	21122	42244
1889	4603	State	1201	12834	12834	25668
1893	3553	State	2242	30917		30917
1897	4161	State		26375	26376	52751
1898	1899	State		21976	21976	43952
1901	1909	State		11680	11680	23360
1904	4290	State		50687	50687	101374
1905	1915	State		14307		14307
1911	4302	State		6740	6740	13480
1916	4168	State		11387	11387	22774
1924	2218	State		4431	4431	8862
1926	1925	State	2248	15066		15066
1928	1927	State		15066		15066
1930	1933	State	2502	19302		19302
1931	1928	State		15066		15066
1949	5061	County	802	7680	7680	15360
1957	3656	State		31492		31492
1958	1787	State		31206		31206
1965	1809	State	2270	33477		33477
1990	5469	County	660	18410	18410	36820
2004	2817	State		6781	6781	13562
2006	2007	County	438	4360	4360	8720
2009	2010	County	416	21442	21443	42885
2009	2013	State	156	14907	14907	29814
2010	2011	State		25175	25175	50350
2014	5869	State		5940	5940	11880
2019	2020	State	158	15775	15775	31550
2020	2021	County	328	22365	22365	44730
2023	2024	County	284	2900	2900	5800
2025	2026	County	642	3380	3380	6760
2029	2080	County	292	2800	2800	5600
2031	2088	County	186	8335	8335	16670

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
2033	2092	County	146	1725	1725	3450
2036	2096	State	268	15400	15401	30801
2041	1930	State		26688		26688
2048	2049	County	562	2805	2805	5610
2053	2054	County	560	7680	7680	15360
2055	2168	State		16869	16870	33739
2056	2058	County	558	9050	9050	18100
2058	2061	County	556	8480	8480	16960
2067	6356	State		7880	7880	15760
2069	2070	State	365	29969	29970	59939
2076	2077	County	200	15215	15215	30430
2081	2082	County	198	23640	23640	47280
2082	3357	State		21075	21075	42150
2083	3355	State	2485	82242		82242
2089	2090	County	184	8450	8450	16900
2089	2091	County	196	24315	24315	48630
2094	2199	County	980	7685	7685	15370
2103	2104	State		3885	3885	7770
2104	2208	State	584	7760	7760	15520
2106	2583	State		2099	2099	4198
2109	2112	State		15369		15369
2110	2666	State		15863	15863	31726
2116	2222	County	170	1040	1040	2080
2117	3239	County	254	8700	8700	17400
2123	2457	County	232	12645	12645	25290
2124	2127	County	252	12195	12195	24390
2127	6361	State		11874	11874	23748
2129	2249	State		18171	17280	35451
2132	2133	State	632	9958	9958	19916
2137	6364	State		11635	11635	23270
2148	2150	State	1232	14056	14056	28112
2149	2150	County	414	25090	25090	50180
2153	2280	State		24463	24464	48927
2160	2164	State	146	18058	18058	36116
2164	2168	State	148	6515	6515	13030
2173	2174	State	5006	27810	27810	55620
2174	2176	State	21	33950	33950	67900
2179	2182	State	1230	20498	20499	40997

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
2184	3360	State		22936	22937	45873
2186	2083	State		67934		67934
2200	2204	State	150	18782	18782	37564
2203	2915	State		11173	11173	22346
2203	2985	State		29798	29798	59596
2217	2109	State		15369		15369
2220	4168	State		8000	8000	16000
2223	3242	State		960	960	1920
2228	2229	County	550	4815	4815	9630
2229	2232	County	230	25280	25280	50560
2236	2237	State	554	48755		48755
2244	2246	State	405	54318		54318
2247	2242	County	190	12220		12220
2248	2250	County	606	3920		3920
2249	2247	County	608	6610		6610
2250	2384	State		19698	19698	39396
2253	2254	State		65143		65143
2262	2266	State	577	64371		64371
2265	3204	State		8460	8460	16920
2270	2392	County	436	11540	11540	23080
2272	2276	County	604	11060		11060
2273	2277	State		67332		67332
2274	2271	County	602	12860		12860
2276	2396	State		5530	5530	11060
2281	2400	State		7740	7740	15480
2284	2288	State		70491		70491
2292	2416	State		6895	6895	13790
2298	2304	State		68240		68240
2303	2297	State		66313		66313
2304	1672	State		74312		74312
2306	2308	State		34125	34125	68250
2310	2311	State	168	12812	12812	25624
2311	2312	State		12607	12607	25214
2313	2318	State		28365	28365	56730
2325	2591	State		3825	3825	7650
2344	2350	State		22890	22890	45780
2350	2461	State		21185	21185	42370
2351	2352	State		22104	22105	44209

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
2357	2358	County	302	18165	18165	36330
2372	2373	County	544	16485	16485	32970
2374	3735	County	258	12535	12535	25070
2377	2378	County	228	18935	18935	37870
2383	2386	County	256	6740	6740	13480
2399	2403	County	542	4590	4590	9180
2401	2402	State		17966	17966	35932
2403	2404	State		17966	17966	35932
2407	2410	County	542	4590	4590	9180
2415	2635	State		400	400	800
2417	2420	State	96	10294	10294	20588
2419	2421	County	540	1235	1235	2470
2422	2423	State		14441	14441	28882
2423	2427	County	536	2055	2055	4110
2423	2549	State	436	11540	11540	23080
2426	3372	County	538	1215	1215	2430
2433	2434	County	316	3025	3025	6050
2458	2925	State		9214	9214	18428
2462	2464	State	556	8480	8480	16960
2466	2359	State	2248	15369		15369
2469	2471	County	534	4315	4315	8630
2479	3724	State	2500	19536		19536
2484	2599	County	168	3325	3325	6650
2487	2489	County	532	5290	5290	10580
2488	3733	State	576	57150		57150
2491	2492	State		3880	3880	7760
2493	2494	County	462	14615	14615	29230
2494	2497	County	226	11725	11725	23450
2494	2499	State		8941	8941	17882
2498	2614	County	224	15020	15020	30040
2499	2500	County	460	5680	5680	11360
2502	2504	County	530	9995	9995	19990
2503	2504	State		18524	18524	37048
2504	2506	State		18524	18524	37048
2504	2508	State		13490	13490	26980
2510	2512	State		12630	12630	25260
2512	2518	State		12238	12238	24476
2521	2531	State	1222	9772	9772	19544

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
2528	2529	State		28633	28633	57266
2531	2533	State		11906		11906
2531	2644	State		26906	26906	53812
2532	2530	State		12546		12546
2534	2536	County	216	10620	10620	21240
2535	5972	State		1165	1165	2330
2536	3127	County	394	10195	10195	20390
2545	5976	County	210	5020	5020	10040
2545	6027	State		5565	5565	11130
2548	2551	State	1403	16890		16890
2550	2544	State	1417	13784		13784
2551	2554	County	526	16430		16430
2553	2550	County	596	15710		15710
2560	2562	State		20297	20297	40594
2561	2562	County	306	2635	2635	5270
2565	2691	County	288	9605	9605	19210
2566	2568	State	144	15161	15161	30322
2577	2579	State	1026	8373	8373	16746
2578	2579	State		18796	18588	37384
2607	2608	County	522	22940	22940	45880
2616	2617	State	360	15835	15835	31670
2621	2623	County	518	5740	5740	11480
2637	2638	State		14242	14242	28484
2642	2643	County	426	9410	9410	18820
2646	2647	County	412	19310	19310	38620
2646	2648	State		9408	9408	18816
2653	2654	County	374	5000	5000	10000
2655	2665	State		1770	1770	3540
2656	2657	County	376	4880	4880	9760
2660	2661	County	356	1610	1610	3220
2660	2662	State	122	26165	26165	52330
2662	2666	State		13461	13461	26922
2663	2667	County	524	9520	9520	19040
2664	2666	State	128	16214	16214	32428
2665	6157	State		545	545	1090
2666	2668	County	516	12165	12165	24330
2673	2677	State		7150	7150	14300
2677	2681	County	324	1190	1190	2380

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5102	3606	State		93335		93335
5109	5110	County	120	18985	18985	37970
5109	5252	County	240	9975	9975	19950
5118	5258	State		11011	11011	22022
5128	5129	County	118	11060	11060	22120
5142	5280	State		14630	14630	29260
5163	5167	State		21934	21934	43868
5178	5181	State		14383	14383	28766
5180	5181	State		3664	3664	7328
5189	5190	State		8505	8505	17010
5199	5201	State		5668	5668	11336
5206	5207	County	112	1440	1440	2880
5207	5363	County	826	1955	1955	3910
5209	5212	County	110	5075	5075	10150
5212	5368	County	804	8535	8535	17070
5214	5217	County	108	11935	11935	23870
5217	5373	County	776	8610	8610	17220
5223	5224	County	72	19361	19361	38722
5228	5229	State	74	20734	20734	41468
5237	5388	County	700	6880	6880	13760
5238	5242	State	76	24585	24585	49170
5242	5394	State	41	14024	14024	28048
5245	5248	State		29204	29204	58408
5250	5255	State		32859	32859	65718
5251	5407	County	684	5230	5230	10460
5257	5259	State	80	24400	24400	48800
5259	5261	State	1049	24379	24379	48758
5278	5284	State	1048	21425	21425	42850
5280	5281	State		14630	14630	29260
5284	5286	State	82	20065	20065	40130
5289	5290	County	624	8080	8080	16160
5304	5309	State		40203	40203	80406
5306	5310	County	104	6125	6125	12250
5308	5309	State		10783	10783	21566
5309	5310	County	674	10050	10050	20100
5309	5311	State		48184	48184	96368
5319	5324	State		49376	49376	98752
5321	5323	County	650	13375	13375	26750

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5326	5327	State		9691	9691	19382
5329	5333	State		12220		12220
5330	5333	State		7200		7200
5332	5336	State		14481	14481	28962
5338	5348	County	640	14965	14965	29930
5340	5344	State		3300	3300	6600
5341	5347	State		14789	14789	29578
5352	5353	County	136	11755	11755	23510
5364	5461	County	827	6855	6855	13710
5366	5367	County	274	14055	14055	28110
5371	5464	County	806	13535	13535	27070
5374	5468	County	778	7545	7545	15090
5376	5378	County	270	16555	16555	33110
5378	5473	County	744	9410	9410	18820
5379	5383	County	268	16485	16485	32970
5387	5391	County	266	16895	16895	33790
5391	5483	County	702	4010	4010	8020
5393	5397	County	264	8730	8730	17460
5397	5398	State		13610	13610	27220
5401	5402	County	262	22315	22315	44630
5426	5527	State		47432	47432	94864
5428	5429	State		11641	11641	23282
5431	5432	County	218	12315	12315	24630
5433	5437	State		43025	43025	86050
5440	5441	County	680	4875	4875	9750
5449	5451	County	652	11355	11355	22710
5459	5462	County	664	8480	8480	16960
5463	5466	County	662	11570	11570	23140
5466	5554	County	808	14290	14290	28580
5469	5563	County	780	6065	6065	12130
5470	5474	State	1071	17281	17281	34562
5476	5481	State	1070	21938	21938	43876
5479	5481	State		10038	10038	20076
5481	5482	State	68	20448	20448	40896
5486	5489	County	658	21465	21465	42930
5492	3641	State		39084		39084
5493	5494	State	1068	19388	19388	38776
5498	5499	County	688	5040	5040	10080

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5507	5509	State		14661	14661	29322
5510	5514	State		40778	40778	81556
5513	5514	State	34	9261	9261	18522
5516	5517	County	634	10505	10505	21010
5531	5532	County	656	6550	6550	13100
5534	5537	County	194	8385	8385	16770
5536	5628	County	582	8635	8635	17270
5538	5539	State	10	2740	2740	5480
5538	5629	State	682	4247	4247	8494
5544	5546	County	856	1750	1750	3500
5547	5630	State		3780	3780	7560
5548	5551	State		10428	10468	20896
5548	5640	State		2355	2355	4710
5549	5551	County	828	6500	6500	13000
5551	5552	State		19715	19715	39430
5551	5637	County	830	6835	6835	13670
5557	5558	County	810	14840	14840	29680
5559	5561	State	60	23477	23477	46954
5567	5568	State		28334	28334	56668
5567	5646	County	782	6880	6880	13760
5571	5649	County	748	13915	13915	27830
5574	5576	State	592	5065	5065	10130
5576	5578	State		24834	25847	50681
5577	5578	State	45	14522	14522	29044
5578	5654	County	726	14185	14185	28370
5579	5581	State		29720	29720	59440
5583	3654	State		49561		49561
5589	5590	State		26023	22701	48724
5590	5593	State	66	22382	22383	44765
5592	5593	State		13015	13014	26029
5593	5663	County	172	10125	10125	20250
5598	5599	State	684	23971	20995	44966
5601	5602	County	138	8965	8965	17930
5601	5608	State	683	14551	15124	29675
5603	5609	County	966	25990	25990	51980
5612	5671	County	244	5650	5650	11300
5621	5674	County	636	7705	7705	15410
5624	5626	County	202	3025	3025	6050

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5626	5678	County	584	7760	7760	15520
5634	5638	County	724	11025	11025	22050
5638	5684	County	832	4140	4140	8280
5639	5642	County	722	16745	16745	33490
5642	5688	County	812	11505	11505	23010
5644	5647	County	720	22620	22620	45240
5654	5656	State	1092	10667	10667	21334
5656	5657	County	716	28160	28160	56320
5666	5667	County	714	6895	6895	13790
5667	5669	State	110	51580	51580	103160
5668	5670	County	712	4275	4275	8550
5680	5705	County	768	8770	8770	17540
5693	5694	County	760	1730	1730	3460
5696	3991	State		18800		18800
5697	5698	County	750	11815	11815	23630
5699	5701	County	742	5250	5250	10500
5712	5714	State	58	6102	6102	12204
5716	5719	State	1093	7178	7178	14356
5718	5719	State	14	39945	39944	79889
5734	5782	County	638	9755	9755	19510
5743	5744	State		12685	12685	25370
5751	1956	State		31492		31492
5753	5801	County	752	9530	9530	19060
5761	5762	County	710	830	830	1660
5766	5767	County	796	7750	7750	15500
5769	5772	County	794	5440	5440	10880
5769	5816	County	968	38220	38220	76440
5774	5822	County	692	4485	4485	8970
5779	5780	County	792	8050	8050	16100
5779	5828	County	248	1925	1925	3850
5787	5832	County	834	1980	1980	3960
5792	5794	County	854	8255	8255	16510
5793	5794	State		10860	10860	21720
5796	5797	State		15480	15480	30960
5798	5803	County	850	20840	20840	41680
5799	5751	State		43665		43665
5803	5836	County	754	6645	6645	13290
5807	5808	State		15684	15684	31368

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5811	5812	State	1106	14340	14340	28680
5811	5838	County	728	2710	2710	5420
5813	5814	State		38656	38657	77313
5813	5851	State		38925	38924	77849
5817	5820	County	848	6695	6695	13390
5826	5858	County	588	8430	8430	16860
5843	5844	County	868	4940	4940	9880
5846	5893	State	332	3850		3850
5852	5854	County	866	3210	3210	6420
5859	5907	County	590	7910	7910	15820
5862	5863	County	880	2600	2600	5200
5862	5918	County	208	6405	6405	12810
5868	5923	County	836	2575	2575	5150
5871	5927	County	820	845	845	1690
5876	5931	County	788	1045	1045	2090
5878	5881	County	876	12730	12730	25460
5881	5939	County	756	6480	6480	12960
5882	5806	State	2254	43400		43400
5887	5952	County	730	4430	4430	8860
5889	5890	County	874	10770	10770	21540
5890	5899	County	872	9355	9355	18710
5899	5900	County	708	6460	6460	12920
5903	5967	County	174	2825	2825	5650
5904	5906	County	870	2830	2830	5660
5906	5970	County	592	5065	5065	10130
5918	5919	State	1117	2683	2683	5366
5924	5926	County	892	3030	3030	6060
5929	5933	State	1116	2857	2857	5714
5943	5948	County	890	15450	15450	30900
5947	5882	State		28993		28993
5952	5958	County	882	6615	6615	13230
5953	5954	County	732	6405	6405	12810
5954	5959	County	970	25545	25545	51090
5956	5957	County	114	8705	8705	17410
5958	5959	State	1114	6615	6615	13230
5976	5977	County	902	1130	1130	2260
5982	6032	County	862	370	370	740
5984	5986	County	900	1735	1735	3470

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5991	5992	County	898	3655	3655	7310
5994	5996	County	758	6475	6475	12950
5998	5999	County	346	15082	15083	30165
6001	6003	State		12583	12582	25165
6003	6004	County	894	9195	9195	18390
6008	6009	County	896	6955	6955	13910
6013	6016	County	594	8765	8765	17530
6027	6028	County	912	2690	2690	5380
6034	6087	County	842	1905	1905	3810
6036	6037	County	910	1380	1380	2760
6038	6042	County	908	1655	1655	3310
6041	6049	County	906	1095	1095	2190
6042	6098	State		21858	21859	43717
6046	6047	County	904	1860	1860	3720
6053	6054	County	736	9290	9290	18580
6076	6077	State		5226	5226	10452
6077	6078	County	918	2065	2065	4130
6093	6096	County	916	4305	4305	8610
6094	6138	County	822	1720	1720	3440
6099	6101	County	914	2165	2165	4330
6104	6147	County	738	6960	6960	13920
6118	6119	County	920	995	9951	10946
6133	6136	County	924	14080	14080	28160
6142	6143	County	922	5315	5315	10630
6157	6203	County	212	4815	4815	9630
6161	6162	County	864	1365	1365	2730
6164	6166	County	932	3280	3280	6560
6172	6173	County	926	1625	1625	3250
6173	6174	County	846	3415	3415	6830
6174	6178	County	930	5060	5060	10120
6182	6186	State		5440	5440	10880
6184	6187	County	928	7865	7865	15730
6203	6204	State		6395	6395	12790
6208	6258	State		8164	8164	16328
6212	6219	County	948	9185	9185	18370
6214	6224	County	936	2995	2995	5990
6216	6217	State	544	16485	16485	32970
6219	6222	County	946	10510	10510	21020

1990 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
6219	6268	State		13563	13563	27126
6222	6223	State		6725	6725	13450
6226	6229	County	934	4970	4970	9940
6238	6239	State		2360	2360	4720
6263	6301	State		4607	4607	9214
6264	6269	County	954	3030	3030	6060
6264	6306	State		8700	8700	17400
6283	6284	County	952	1235	1235	2470
6293	6298	State	84	2987	2987	5974
6304	6337	State	518	5740	5740	11480
6307	1515	State	2262	6745		6745
6308	6307	State		8699		8699
6322	6324	County	956	1500	1500	3000
6329	6331	State		594	594	1188
6337	6338	State		1007	1007	2014
6342	6343	State	9	6082	6083	12165

APPENDIX B

**Metro-Dade MPO
Long Range Transportation Plan Update**

1993 PSAWDT Counts

1993 Count Report

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
1192	4271	County	400	19223	19223	38446
1510	1505	State	2262	7050		7050
1515	6241	State	2260	12413		12413
1519	1523	State	5159	8217	8217	16434
1520	1510	State	2260	12413		12413
1539	1551	State	12	17130	17130	34260
1543	3973	County	974	3889	3889	7778
1562	1568	State	5170	13695	13695	27390
1570	1560	State	2258	15888		15888
1572	1574	State	5385	21102	21102	42204
1588	1592	State	1018	14399	14399	28798
1597	1603	State	11	42428		42428
1605	1650	State	2264	12909		12909
1607	1619	State	5189	5585	5585	11170
1608	1609	State	533	16633	16633	33266
1608	3069	State	142	18868	18868	37736
1627	1628	State	525	10472	10472	20944
1628	1629	State	520	11278	11278	22556
1632	1634	County	116	21610		21610
1633	1631	County	180	23030		23030
1637	1638	State	132	9881	9881	19762
1641	1642	State	540	19065	19065	38130
1645	6106	State	2264	12909		12909
1648	1651	State	124	20140	20140	40280
1651	1652	State	269	22019	22019	44038
1657	1658	State	314	16917	16917	33834
1659	1661	County	572	10974	10974	21948
1735	1727	State	2256	26067		26067
1767	3370	State	2134	88381		88381
1775	1765	State	2254	43446		43446
1787	1784	State	2266	53128		53128
1792	3546	State	2193	86643		86643
1797	4432	County	618	12830	12830	25660
1808	4609	County	348	9558	9558	19116
1812	3549	State	2243	50149		50149
1813	1834	County	358	13028		13028
1821	4414	County	360	14897	14897	29794
1823	4592	State	1211	24329	24329	48658

1993 Count Report

(Continued)

A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
1829	1832	County	358	13028	13028	26056
1839	1812	State	2244	57596		57596
1858	3584	State	569	89622		89622
1860	3594	State	567	87388		87388
1867	1872	State	2188	82175		82175
1879	1852	State	2188	82175		82175
1889	4603	State	1201	12413	12413	24826
1893	3553	State	2242	36246		36246
1900	1901	County	428	14289	14289	28578
1910	1913	County	102	6596		6596
1914	1908	County	100	5742		5742
1923	1921	State	2250	49652		49652
1926	1925	State	2248	22343		22343
1930	1933	State	2502	21598		21598
1949	5061	County	802	15987	15987	31974
1965	1809	State	2270	35005		35005
1980	1793	State	2504	19116		19116
1990	5469	County	660	17812	17812	35624
2006	2007	County	438	4159	4159	8318
2009	2010	County	416	18481	18481	36962
2009	2013	State	156	9732	9732	19464
2019	2020	State	158	12164	12164	24328
2020	2021	County	328	23436	23436	46872
2023	2024	County	284	2485	2485	4970
2025	2026	County	642	3319	3319	6638
2029	2080	County	292	2142	2142	4284
2031	2088	County	186	1506	1506	3012
2033	2092	County	146	2446	2446	4892
2036	2096	State	268	15640	15640	31280
2048	2049	County	562	2263	2263	4526
2053	2054	County	560	7659	7659	15318
2056	2058	County	558	9366	9366	18732
2058	2061	County	556	9211	9211	18422
2069	2070	State	365	26564	26564	53128
2076	2077	County	200	15388	15388	30776
2081	2082	County	198	22319	22319	44638
2083	3355	State	2485	69265		69265
2089	2090	County	184	7459	7459	14918

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
2089	2091	County	196	23640	23640	47280
2094	2199	County	980	8689	8689	17378
2104	2208	State	584	6057	6057	12114
2116	2222	County	170	1552	1552	3104
2117	3239	County	254	10359	10359	20718
2123	2457	County	232	12997	12997	25994
2124	2127	County	252	12052	12052	24104
2132	2133	State	632	9037	9037	18074
2137	6362	County	250	10774	10774	21548
2148	2150	State	1232	14151	14151	28302
2149	2150	County	414	22290	22290	44580
2160	2164	State	146	13903	13903	27806
2164	2168	State	148	20357	20357	40714
2173	2174	State	5006	26564	26564	53128
2174	2176	State	21	26812	26812	53624
2179	2182	State	1230	19861	19861	39722
2185	2205	County	630	8050	8050	16100
2194	2196	County	296	9870	9870	19740
2200	2204	State	150	16385	16385	32770
2209	2211	State	52	2681	2681	5362
2228	2229	County	550	4619	4619	9238
2229	2232	County	230	25833	25833	51666
2236	2237	State	554	51390		51390
2241	2377	State	38	19116	19116	38232
2244	2246	State	405	58838		58838
2247	2242	County	190	13004		13004
2248	2250	County	606	12232		12232
2262	2266	State	577	63803		63803
2270	2392	County	436	11784	11784	23568
2272	2276	County	604	3157		3157
2299	2300	County	357	5605	5605	11210
2310	2311	State	168	12909	12909	25818
2357	2358	County	302	18544	18544	37088
2372	2373	County	544	17212	17212	34424
2374	3735	County	258	12399	12399	24798
2377	2378	County	228	18397	18397	36794
2399	2403	County	542	4400	4400	8800
2407	2410	County	542	4400	4400	8800

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
2419	2421	County	540	1200	1200	2400
2423	2549	State	436	12909	12909	25818
2426	3372	County	538	1839	1839	3678
2454	2456	State	5225	25819	25819	51638
2456	2574	State	531	11420	11420	22840
2459	2462	State	5222	24329	24329	48658
2462	2463	State	5219	20109	20109	40218
2462	2464	State	556	19612	19612	39224
2466	2359	State	2248	22343		22343
2468	2467	State	2250	49652		49652
2471	3221	County	514	8733	8733	17466
2479	3724	State	2500	28054		28054
2484	2599	County	168	4445	4445	8890
2487	2489	County	532	5137	5137	10274
2488	3733	State	576	55611		55611
2493	2494	County	462	12382	12382	24764
2494	2497	County	226	13053	13053	26106
2498	2614	County	224	13662	13662	27324
2499	2500	County	460	6101	6101	12202
2502	2504	County	530	9540	9540	19080
2518	2520	State	1223	10129	10129	20258
2521	2522	State	519	28550	28550	57100
2521	2531	State	1222	4021	4021	8042
2534	2536	County	216	10412	10412	20824
2536	3127	County	394	9169	9169	18338
2545	5976	County	210	5004	5004	10008
2553	2550	County	596	13939		13939
2556	2558	State	1025	17875	17875	35750
2566	2568	State	144	14151	14151	28302
2575	5973	County	884	1292	1292	2584
2577	2579	State	1026	8143	8143	16286
2616	2617	State	360	22095	22095	44190
2621	2623	County	518	4487	4487	8974
2625	3122	County	520	10046	10046	20092
2642	2643	County	426	10938	10938	21876
2646	2647	County	412	21035	21035	42070
2650	2652	State	1220	15888	15888	31776
2653	2654	County	374	5477	5477	10954

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
2656	2657	County	376	5966	5966	11932
2660	2661	County	356	1861	1861	3722
2660	2662	State	122	17626	17626	35252
2663	2667	County	524	9303	9303	18606
2664	2666	State	128	17130	17130	34260
2666	2668	County	516	10318	10318	20636
2669	2673	State	1219	7944	7944	15888
2684	2689	State	1024	14647	14647	29294
2687	2797	County	282	9459	9459	18918
2698	2701	County	290	3106	3106	6212
2706	2707	County	294	8148	8148	16296
2709	2710	State	524	16137	16137	32274
2713	2714	State	1023	11420	11420	22840
2717	2721	County	504	11579	11579	23158
2719	2722	State	109	14399	14399	28798
2721	2726	State	109	14399	14399	28798
2723	2728	State	1217	5908	5908	11816
2724	2822	County	578	21205	21205	42410
2725	5764	County	706	4308	4308	8616
2729	2731	County	502	10175	10175	20350
2734	2736	County	474	12930	12930	25860
2740	2828	County	222	13721	13721	27442
2741	2743	County	500	26419	26419	52838
2752	2753	County	600	10742	10742	21484
2759	2761	State	112	19861	19861	39722
2760	2761	State	30	16137	16137	32274
2761	2851	State	19	17378	17378	34756
2764	2766	State	23	21102	21102	42204
2766	2767	State	431	20357	20357	40714
2766	2768	State	1214	14647	14647	29294
2767	2858	State	135	18371	18371	36742
2768	2770	County	498	14658	14658	29316
2778	2871	County	372	5700	5700	11400
2784	2786	County	496	16432	16432	32864
2845	5669	State	562	19612		19612
2864	2867	County	492	2224	2224	4448
2879	2880	State	235	15144	15144	30288
2880	2882	County	490	9398	9398	18796

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
2889	2890	County	312	8327	8327	16654
2893	2894	County	280	8244	8244	16488
2899	2900	State	1009	5064	5064	10128
2900	3060	State	522	19116	19116	38232
2918	2919	County	480	10818	10818	21636
2928	2932	State	534	17378	17378	34756
2929	3093	State	39	12909	12909	25818
2936	2938	County	220	7742	7742	15484
2938	2946	County	576	22104	22104	44208
2946	2947	County	458	7217	7217	14434
2956	2957	County	628	12086	12086	24172
2963	2964	County	598	16467		16467
2967	2966	County	140	9374		9374
2971	2972	County	144	12274	12274	24548
2977	2978	State	1180	20357	20357	40714
2978	2980	County	214	17500	17500	35000
2980	4034	State	1179	18868	18868	37736
2988	2989	County	424	10123	10123	20246
2994	3000	County	472	1714	1714	3428
3001	3004	State	538	11916	11916	23832
3004	3006	State	20	16881	16881	33762
3004	3008	State	539	14647	14647	29294
3007	3009	County	466	8528	8528	17056
3011	3012	County	370	10081	10081	20162
3011	3014	State	546	17626	17626	35252
3017	3014	County	488	13866		13866
3018	3019	County	354	5654	5654	11308
3020	3023	County	464	10764	10764	21528
3022	3027	County	486	13459	13459	26918
3023	3029	County	470	3753	3753	7506
3024	3026	State	529	14647	14647	29294
3027	3028	County	338	13849	13849	27698
3029	4080	State	5144	10427	10427	20854
3038	3039	County	322	2643	2643	5286
3044	3046	County	310	10699	10699	21398
3052	3053	County	278	7333	7333	14666
3059	3063	County	298	12186	12186	24372
3060	3061	County	300	7795	7795	15590

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
3062	3063	State	5068	20854	20854	41708
3063	3064	State	5065	21102	21102	42204
3074	3076	County	456	4104	4104	8208
3079	3082	County	454	5455	5455	10910
3087	3091	County	452	13046	13046	26092
3089	4132	County	482	10860	10860	21720
3118	6126	County	860	974	974	1948
3164	5794	County	818	7177	7177	14354
3168	5866	County	878	3333	3333	6666
3171	5924	County	838	2814	2814	5628
3172	5984	County	840	2397	2397	4794
3173	5987	County	858	473	473	946
3188	5259	County	632	9075	9075	18150
3194	5419	County	260	11214	11214	22428
3251	5408	County	686	5611	5611	11222
3253	5253	County	242	11085	11085	22170
3264	4866	County	690	5051	5051	10102
3276	5087	County	126	25327	25327	50654
3298	5474	County	746	20722	20722	41444
3300	5584	County	704	6935	6935	13870
3302	5647	County	784	4333	4333	8666
3316	5777	County	586	8446	8446	16892
3320	5728	County	246	5248	5248	10496
3321	5719	County	740	4373	4373	8746
3323	5219	County	106	19813	19813	39626
3327	5374	County	272	17215	17215	34430
3337	4839	County	137	4242	4242	8484
3348	2180	State	2137	65789		65789
3359	3353	State	2485	69265		69265
3377	3382	State	2100	91857		91857
3378	3373	State	2100	91857		91857
3390	3395	State	2085	82423		82423
3391	3387	State	2085	82423		82423
3394	3401	State	2041	96574		96574
3396	3392	State	2041	96574		96574
3400	3407	State	2036	94339		94339
3402	3397	State	2036	94339		94339
3409	1918	State	2065	47914		47914

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
3410	4171	State	2065	47914		47914
3411	3409	State	2060	48659		48659
3419	3412	State	2055	44190		44190
3425	3421	State	2050	36494		36494
3426	4201	County	368	4987	4987	9974
3427	3431	State	2023	44935		44935
3430	3425	State	2023	44935		44935
3455	3441	State	2095	91609		91609
3463	3489	State	2240	73237		73237
3489	3493	State	2208	50894		50894
3490	4489	State	2240	73237		73237
3496	3491	State	2208	50894		50894
3501	3502	State	2232	68768		68768
3504	4462	State	2232	68768		68768
3505	3515	State	2210	82175		82175
3519	3520	State	2207	71003		71003
3535	4446	State	2207	71003		71003
3551	4407	County	508	25837	25837	51674
3552	1865	State	2242	36246		36246
3585	1862	State	569	89622		89622
3593	3588	State	567	87388		87388
3611	3613	State	566	90367		90367
3612	3605	State	566	90367		90367
3614	3631	State	564	49652		49652
3615	3624	State	565	51390		51390
3628	5415	State	565	51390		51390
3632	3636	State	563	35005		35005
3635	3633	State	563	35005		35005
3663	5606	County	646	9265		9265
3664	3662	County	648	4028		4028
3672	3690	State	571	88133		88133
3688	3669	State	571	88133		88133
3692	3693	State	572	90367		90367
3694	3689	State	572	90367		90367
3696	3698	State	573	94836		94836
3701	3714	State	553	92353		92353
3702	3695	State	573	94836		94836
3705	3702	County	616	4023		4023

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
3707	3701	County	612	3685		3685
3712	3703	State	553	92353		92353
3716	3717	State	574	82671		82671
3718	3713	State	574	82671		82671
3723	3720	State	575	69513		69513
3725	3719	State	575	69513		69513
3726	3727	State	2500	28054		28054
3729	3761	State	2501	22095		22095
3753	3730	State	576	55611		55611
3759	3758	State	2502	21598		21598
3760	2364	State	2501	22095		22095
3979	1979	State	2504	19116		19116
3989	5570	County	204	36233	36233	72466
3994	5472	State	2252	32771		32771
4016	4022	County	142	12408		12408
4029	4030	County	978	3135	3135	6270
4032	4036	State	5265	10675	10675	21350
4036	4039	State	541	9930	9930	19860
4049	4052	County	450	7937	7937	15874
4050	4054	County	446	3630	3630	7260
4051	4052	County	410	15790	15790	31580
4058	4059	County	410	15790	15790	31580
4059	4060	County	390	10345	10345	20690
4066	4069	State	542	11420	11420	22840
4079	4084	County	448	8632	8632	17264
4080	4081	State	5141	12413	12413	24826
4106	4109	State	5355	5114	5114	10228
4109	4110	State	5060	18123	18123	36246
4112	4832	State	582	3178	3178	6356
4121	4123	County	440	5416	5416	10832
4124	4126	County	434	15112	15112	30224
4127	4128	County	166	11671	11671	23342
4129	4132	County	432	29926	29926	59852
4132	4135	County	484	5931	5931	11862
4136	4137	State	1205	18371	18371	36742
4137	4142	State	1172	33763	33763	67526
4137	4272	State	1204	18371	18371	36742
4149	4151	County	430	32831	32831	65662

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
4153	4154	County	182	7737	7737	15474
4167	4168	County	422	5328	5328	10656
4172	4177	State	107	13158	13158	26316
4179	4186	State	5087	11420	11420	22840
4186	4188	State	5080	11668	11668	23336
4186	4313	State	323	12661	12661	25322
4209	4216	State	5083	9583	9583	19166
4213	4214	State	1147	9880	9880	19760
4218	4224	State	5079	8143	8143	16286
4219	4222	County	444	3391	3391	6782
4224	4227	State	5077	7447	7447	14894
4224	4369	State	5005	11171	11171	22342
4226	4499	State	2095	91609		91609
4247	4248	State	5059	22343	22343	44686
4249	4396	State	143	20357	20357	40714
4252	4254	County	408	1871	1871	3742
4253	4254	County	512	9627	9627	19254
4256	4257	County	510	16985	16985	33970
4258	4261	County	406	8840	8840	17680
4262	4412	County	494	1754	1754	3508
4263	4266	County	404	15247	15247	30494
4264	4266	County	164	17482	17482	34964
4267	4414	County	162	19431	19431	38862
4268	4275	County	402	23152	23152	46304
4272	4273	State	1203	16137	16137	32274
4274	4276	State	1202	17378	17378	34756
4292	4297	County	388	10110	10110	20220
4304	4311	County	568	6550	6550	13100
4306	4319	County	566	10154	10154	20308
4336	4339	County	384	10604	10604	21208
4361	4370	County	420	5712	5712	11424
4368	4374	County	382	7581	7581	15162
4374	4490	County	336	9271	9271	18542
4378	4511	County	330	2501	2501	5002
4383	4517	County	276	7482	7482	14964
4384	4523	County	320	597	597	1194
4391	4531	County	308	3804	3804	7608
4397	4398	State	5058	19364	19364	38728

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
4408	4583	State	1218	30536	30536	61072
4431	4434	State	2198	95084		95084
4452	3503	State	2210	82175		82175
4456	4651	State	552	24329	24329	48658
4490	4496	County	378	1858	1858	3716
4491	4512	County	366	2711	2711	5422
4494	4507	County	350	1092		1092
4494	4676	State	5003	5958	5958	11916
4497	4493	County	352	1397		1397
4581	4846	County	160	16256	16256	32512
4582	4584	County	158	19442	19442	38884
4586	4588	County	156	16754	16754	33508
4591	4594	County	154	20948	20948	41896
4607	4869	County	236	8474	8474	16948
4612	4614	County	152	17418	17418	34836
4627	4632	State	54	10079	10079	20158
4628	4630	County	346	15776	15776	31552
4630	4634	County	344	14546	14546	29092
4631	4632	State	27	28550	28550	57100
4649	4654	State	97	16881	16881	33762
4650	4652	County	342	13535	13535	27070
4653	4654	State	5128	21847	21847	43694
4654	4656	State	5105	8441	8441	16882
4663	4668	County	340	11455	11455	22910
4666	4661	State	5099	16385		16385
4670	4671	State	5011	7696	7696	15392
4679	4684	County	564	3490	3490	6980
4681	4682	State	5000	3128	3128	6256
4682	4683	State	5096	7447	7447	14894
4683	4939	County	150	9121	9121	18242
4688	4678	County	334	1684		1684
4688	4689	County	332	1258	1258	2516
4832	4833	State	377	3376	3376	6752
4832	5054	State	4	2979	2979	5958
4838	5058	County	800	10480	10480	20960
4842	4843	State	380	19612	19612	39224
4842	5064	County	772	5307	5307	10614
4844	4846	County	764	2724	2724	5448

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
4844	5069	County	766	11006	11006	22012
4848	4849	State	90	14896	14896	29792
4852	5081	State	1090	24826	24826	49652
4856	5084	County	698	7161	7161	14322
4858	4861	State	589	16137	16137	32274
4859	4861	State	44	15144	15144	30288
4861	5090	State	1074	15888	15888	31776
4863	5098	County	694	3909	3909	7818
4870	5107	County	238	13421	13421	26842
4873	5111	County	682	1931	1931	3862
4874	4877	State	527	19116	19116	38232
4876	4877	State	36	11668	11668	23336
4877	4878	State	118	19116	19116	38232
4877	5116	State	37	12661	12661	25322
4881	5123	County	176	3248	3248	6496
4883	5131	County	644	1191	1191	2382
4884	4886	State	56	14647	14647	29294
4886	4887	State	5117	19364	19364	38728
4886	5137	State	25	22592	22592	45184
4891	4892	County	620	4341	4341	8682
4892	5153	County	622	7388	7388	14776
4894	4897	County	958	14837	14837	29674
4897	5160	County	678	19009	19009	38018
4898	4901	State	5104	17378	17378	34756
4900	4901	State	5126	18123	18123	36246
4901	4902	State	5103	15640	15640	31280
4901	5164	State	5125	19116	19116	38232
4914	5169	County	672	10225	10225	20450
4918	4922	State	5100	16385		16385
4922	5174	County	670	10275	10275	20550
4926	4930	State	5098	16882		16882
4930	5179	County	668	5817	5817	11634
5057	5061	County	134	2157	2157	4314
5063	5068	County	132	11446	11446	22892
5068	5073	County	124	26985	26985	53970
5068	5216	County	774	6897	6897	13794
5073	5074	County	130	22671	22671	45342
5076	5078	County	734	3046	3046	6092

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5079	5082	County	128	23341	23341	46682
5101	5103	County	122	29582	29582	59164
5109	5110	County	120	19101	19101	38202
5109	5252	County	240	11198	11198	22396
5128	5129	County	118	10555	10555	21110
5177	5178	State	1037	14151	14151	28302
5206	5207	County	112	2154	2154	4308
5207	5363	County	826	6601	6601	13202
5209	5212	County	110	13091	13091	26182
5212	5368	County	804	16204	16204	32408
5214	5217	County	108	16144	16144	32288
5217	5373	County	776	9367	9367	18734
5228	5229	State	74	20109	20109	40218
5237	5388	County	700	6439	6439	12878
5238	5242	State	76	24826	24826	49652
5242	5394	State	41	13158	13158	26316
5251	5407	County	684	7910	7910	15820
5257	5259	State	80	28302	28302	56604
5259	5261	State	1049	24826	24826	49652
5278	5284	State	1048	21350	21350	42700
5284	5286	State	82	21350	21350	42700
5289	5290	County	624	8544	8544	17088
5294	5296	State	5120	10179	10179	20358
5297	5439	State	5201	54121	54121	108242
5306	5310	County	104	7862	7862	15724
5309	5310	County	674	10416	10416	20832
5313	5319	State	5036	53376	53376	106752
5321	5323	County	650	12370	12370	24740
5334	5336	County	188	3078	3078	6156
5338	5348	County	640	16008	16008	32016
5352	5353	County	136	12124	12124	24248
5364	5461	County	827	8739	8739	17478
5366	5367	County	274	12375	12375	24750
5371	5464	County	806	17730	17730	35460
5374	5468	County	778	7437	7437	14874
5376	5378	County	270	19517	19517	39034
5378	5473	County	744	10611	10611	21222
5379	5383	County	268	20120	20120	40240

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5387	5391	County	266	23865	23865	47730
5391	5483	County	702	3926	3926	7852
5393	5397	County	264	21555	21555	43110
5401	5402	County	262	21332	21332	42664
5405	5492	State	2278	39722		39722
5431	5432	County	218	9130	9130	18260
5440	5441	County	680	5562	5562	11124
5449	5451	County	652	11803	11803	23606
5459	5462	County	664	10211	10211	20422
5463	5466	County	662	13201	13201	26402
5466	5554	County	808	14814	14814	29628
5469	5563	County	780	6501	6501	13002
5470	5474	State	1071	20109	20109	40218
5476	5481	State	1070	23833	23833	47666
5478	5479	State	46	13158	13158	26316
5481	5482	State	68	21847	21847	43694
5486	5489	County	658	23716	23716	47432
5493	5494	State	1068	23088	23088	46176
5498	5499	County	688	7924	7924	15848
5509	5511	State	70	13406	13406	26812
5513	5514	State	34	10675	10675	21350
5516	5517	County	634	11867	11867	23734
5531	5532	County	656	6323	6323	12646
5534	5537	County	194	10096	10096	20192
5536	5628	County	582	10252	10252	20504
5538	5539	State	10	3773	3773	7546
5538	5629	State	682	6206	6206	12412
5542	5543	State	1080	20357	20357	40714
5544	5546	County	856	3955	3955	7910
5549	5551	County	828	7501	7501	15002
5551	5637	County	830	8660	8660	17320
5557	5558	County	810	14003	14003	28006
5559	5561	State	60	30536	30536	61072
5565	5568	State	62	30784	30784	61568
5566	5567	County	206	24874	24874	49748
5567	5646	County	782	6983	6983	13966
5571	5649	County	748	13980	13980	27960
5574	5576	State	592	30536	30536	61072

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5577	5578	State	45	14151	14151	28302
5578	5654	County	726	12955	12955	25910
5590	5593	State	66	24826	24826	49652
5593	5663	County	172	8895	8895	17790
5598	5599	State	684	25322	25322	50644
5601	5602	County	138	9456	9456	18912
5601	5608	State	683	19364	19364	38728
5603	5609	County	966	40390	40390	80780
5612	5671	County	244	6151	6151	12302
5621	5674	County	636	8038	8038	16076
5624	5626	County	202	3371	3371	6742
5626	5678	County	584	7936	7936	15872
5634	5638	County	724	11593	11593	23186
5638	5684	County	832	4567	4567	9134
5639	5642	County	722	15823	15823	31646
5642	5688	County	812	12649	12649	25298
5644	5647	County	720	23556	23556	47112
5651	5680	County	718	25521	25521	51042
5654	5656	State	1092	9930	9930	19860
5656	5657	County	716	26951	26951	53902
5658	5707	State	1089	18620	18620	37240
5666	5667	County	714	7252	7252	14504
5667	5669	State	110	48907	48907	97814
5668	5670	County	712	4446	4446	8892
5680	5705	County	768	6454	6454	12908
5693	5694	County	760	8576	8576	17152
5697	5698	County	750	13523	13523	27046
5699	5701	County	742	6207	6207	12414
5712	5714	State	58	7696	7696	15392
5716	5719	State	1093	7001	7001	14002
5718	5719	State	14	39970	39970	79940
5734	5782	County	638	10612	10612	21224
5753	5801	County	752	10460	10460	20920
5761	5762	County	710	1079	1079	2158
5766	5767	County	796	8821	8821	17642
5768	5770	State	1077	5809	5809	11618
5769	5772	County	794	5416	5416	10832
5769	5816	County	968	38315	38315	76630

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5774	5822	County	692	4225	4225	8450
5779	5780	County	792	7957	7957	15914
5779	5828	County	248	1922	1922	3844
5787	5832	County	834	2875	2875	5750
5792	5794	County	854	8890	8890	17780
5798	5803	County	850	20700	20700	41400
5803	5836	County	754	8243	8243	16486
5804	5807	State	56	14647	14647	29294
5811	5812	State	1106	16137	16137	32274
5811	5838	County	728	3171	3171	6342
5817	5820	County	848	7484	7484	14968
5826	5858	County	588	9121	9121	18242
5843	5844	County	868	4875	4875	9750
5846	5893	State	332	63058		63058
5852	5854	County	866	5516	5516	11032
5859	5907	County	590	8299	8299	16598
5862	5863	County	880	2715	2715	5430
5862	5918	County	208	6088	6088	12176
5868	5923	County	836	2977	2977	5954
5871	5927	County	820	810	810	1620
5876	5931	County	788	2473	2473	4946
5878	5881	County	876	11111	11111	22222
5881	5939	County	756	6136	6136	12272
5882	5806	State	2254	43446		43446
5887	5952	County	730	5921	5921	11842
5889	5890	County	874	10546	10546	21092
5890	5899	County	872	8166	8166	16332
5899	5900	County	708	7949	7949	15898
5903	5967	County	174	2932	2932	5864
5904	5906	County	870	2733	2733	5466
5906	5970	County	592	4833	4833	9666
5918	5919	State	1117	2333	2333	4666
5924	5926	County	892	2883	2883	5766
5929	5933	State	1116	2830	2830	5660
5941	5944	State	54	10079	10079	20158
5943	5948	County	890	5340	5340	10680
5952	5958	County	882	7444	7444	14888
5953	5954	County	732	9499	9499	18998

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
5954	5959	County	970	27260	27260	54520
5956	5957	County	114	8107	8107	16214
5958	5959	State	1114	8192	8192	16384
5976	5977	County	902	1679	1679	3358
5982	6032	County	862	679	679	1358
5984	5986	County	900	2103	2103	4206
5989	5991	County	790	225	225	450
5991	5992	County	898	2934	2934	5868
5994	5996	County	758	5918	5918	11836
5998	5999	County	346	15776	15776	31552
5998	6000	State	1095	9434	9434	18868
6003	6004	County	894	5315	5315	10630
6008	6009	County	896	8302	8302	16604
6013	6016	County	594	8568	8568	17136
6027	6028	County	912	1476	1476	2952
6034	6087	County	842	1962	1962	3924
6038	6042	County	908	1530	1530	3060
6046	6047	County	904	2641	2641	5282
6053	6054	County	736	8166	8166	16332
6077	6078	County	918	2138	2138	4276
6093	6096	County	916	2968	2968	5936
6094	6138	County	822	1161	1161	2322
6099	6101	County	914	2716	2716	5432
6104	6147	County	738	4296	4296	8592
6118	6119	County	920	1440	1440	2880
6133	6136	County	924	4487	4487	8974
6142	6143	County	922	4220	4220	8440
6157	6203	County	212	4826	4826	9652
6161	6162	County	864	1271	1271	2542
6164	6166	County	932	3017	3017	6034
6166	6168	County	972	14300	14300	28600
6172	6173	County	926	1434	1434	2868
6173	6174	County	846	3419	3419	6838
6174	6178	County	930	4562	4562	9124
6184	6187	County	928	5893	5893	11786
6204	6206	State	5017	5163	5163	10326
6207	6208	State	131	4121	4121	8242
6214	6224	County	936	3529	3529	7058

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A Node	B Node	Source	Station #	A Obs. Vol.	B Obs. Vol.	Total Obs Vol
6216	6217	State	544	9533	9533	19066
6216	6224	State	545	11916	11916	23832
6226	6229	County	934	4791	4791	9582
6283	6284	County	952	714	714	1428
6293	6298	State	84	3029	3029	6058
6304	6337	State	518	993	993	1986
6307	1515	State	2262	3153		3153
6322	6324	County	956	610	610	1220
6339	6341	State	543	12661	12661	25322
6342	6343	State	9	5511	5511	11022