

**HOUSTON - GALVESTON
REGIONAL TRANSPORTATION STUDY**

**Houston Central Business District/
Activity Center Travel Time Study**

by

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IMPLEMENTATION STATEMENT

This document presents travel time data concerning the Houston central business district (CBD) and nine surrounding activity centers. The intent of this study is to assist in planning, design and evaluation of transportation facilities.

DISCLAIMER

The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the views or policies of the Texas Department of Transportation. This report does not constitute a standard, specification or regulation.

INTRODUCTION

The Houston-Galveston Regional Transportation Study (H-GRTS) initiated this study to evaluate regional mobility within greater Houston. The intent is to periodically update travel time data in order to formulate trend analysis for the area. The most recent Activity Center Study was performed in January 1991 with the supporting report completed in May 1991.

The Texas Transportation Institute (TTI) in cooperation with the Texas Department of Transportation (TxDOT) have updated the travel time data for the H-GRTS study area. Figure 1 shows a map of the Houston area locating the Central Business District (CBD) and the surrounding nine activity centers to and from which travel times were studied.

DATA COLLECTION AND ANALYSIS

The study facilities and their respective limits, were obtained from the H-GRTS roadway inventory. Data was collected for the A.M. peak period (7:00 - 8:00 am), OFF-peak period (9:30 am - 3:30 pm) and P.M. peak period (4:30 - 5:30 pm) for the peak directions of travel. Where practical, the data for the non-peak directions of travel were also obtained within these time periods. Peak directions of travel include inbound for the A.M. peak period and outbound for the P.M. peak period. Travel time run requirements for this study included:

- o 3 runs in the peak direction for the A.M. and P.M. peak periods.
- o 2 runs in the non-peak direction for the A.M. and P.M. peak periods.
- o 1 run in both directions for the OFF-peak period.

Data presented in the appendix of this report is listed by activity center, direction and time period of travel. Segment descriptions are given for each travel time run. These segments were utilized as checkpoints in the data collection process. Actual travel time and calculated speeds are shown for each of the segments.

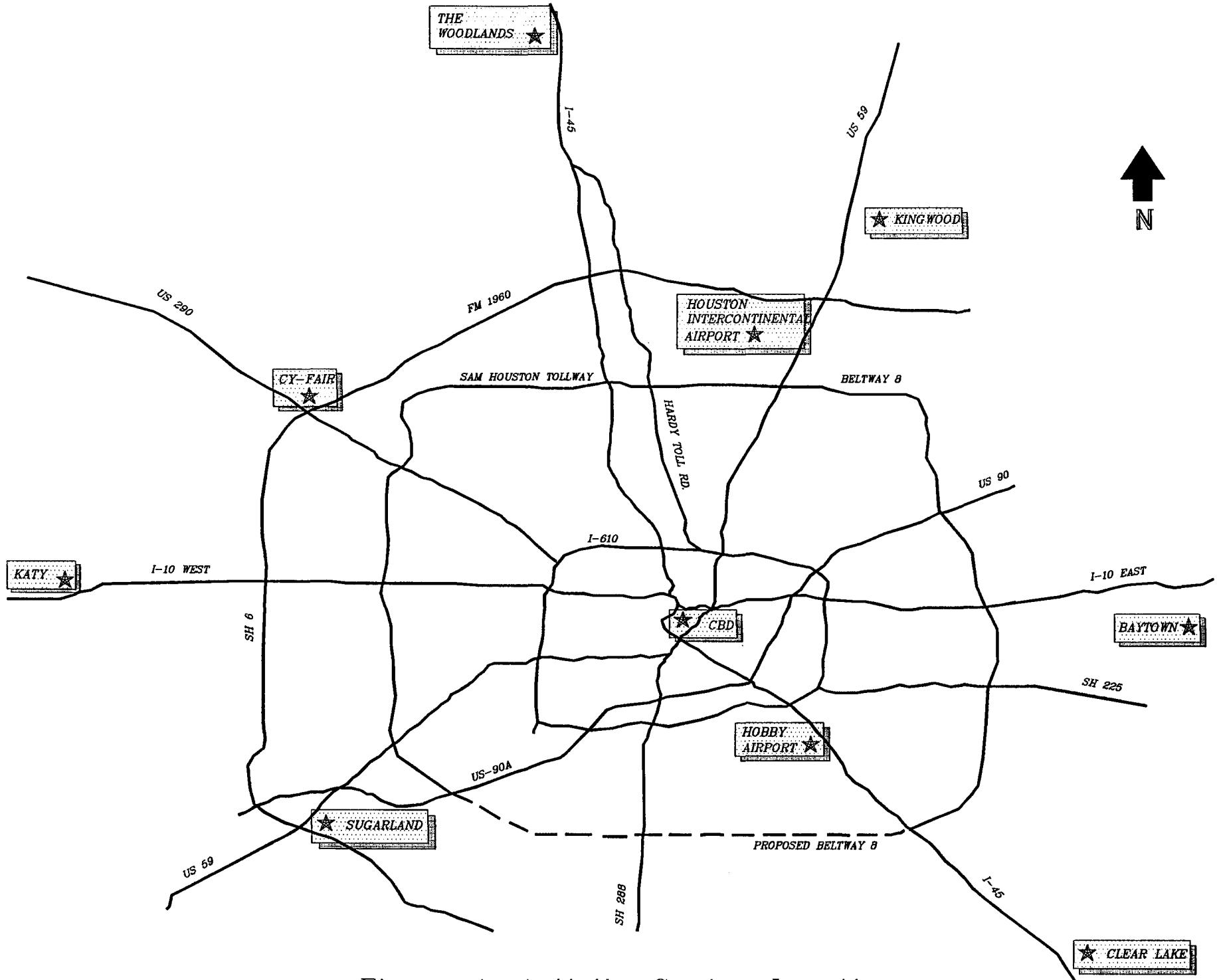


Figure 1. Activity Center Locations

Dates and start times are given for each travel time run for most of the activity centers. The data was collected during May 1993 while schools were still in session so as to better represent "typical" travel times. The activity centers that do not show dates or start times are combinations of different runs (i.e., Kingwood via Hardy Toll Road which utilizes part of the Eastex Freeway, Sam Houston Parkway and Hardy Toll Road data). While this is an entire route in itself, the three different sets of travel time data might have been collected on different days. Table 1 presents a catalog of the activity center travel time data. This catalog lists the location of each activity center as well as the major facilities utilized. Included in this catalog is a page listing of where to locate data for each activity center in the appendix of this report.

Table 1. Activity Center Facility and Page Listing

Activity Center/Location	Facilities Utilized	Data on Page
1. BAYTOWN Decker Dr. @ Texas Ave.	Spur 330 (Decker), I-10 (East) and US 59 (Eastex)	A-1
2. CLEAR LAKE Bay Area Blvd. @ I-45	I-45 (Gulf)	A-3
3. CYPRESS-FAIRBANKS FM 1960 @ US 290	US 290 (Northwest), I-610 (West), I-10 (Katy) and I-45 (North)	A-5
4. HOBBY Airport Entrance	Broadway and I-45 (Gulf)	A-7
5. KATY US 90 @ I-10	I-10 (Katy) and I-45 (North)	A-9
6a. KINGWOOD Kingwood Dr. @ US 59	US 59 (Eastex)	A-11
6b. KINGWOOD VIA HARDY TOLL ROAD Kingwood Dr. @ US 59	US 59 (Eastex), Sam Houston Parkway, Hardy Toll Rd., I-610 (North) and US 59 (Eastex)	A-13
7. SUGARLAND SH 6 @ US 59	US 59 (Southwest) and Spur 527	A-15
8a. HOUSTON INTERCONTINENTAL AIRPORT Terminal "B" Entrance	Will Clayton and US 59 (Eastex)	A-17
8b. HOUSTON INTERCONTINENTAL AIRPORT VIA HARDY TOLL ROAD Terminal "B" Entrance	JFK Blvd., Sam Houston Parkway, Hardy Toll Rd., I-610 (North) and US 59 (Eastex)	A-19
9a. WOODLANDS Woodlands @ I-45	I-45 (North)	A-21
9b. WOODLANDS VIA HARDY TOLL ROAD Woodlands @ I-45	I-45 (North), Hardy Toll Rd., I-610 (North) and US 59 (Eastex)	A-23

RESULTS

The results of data collection from this year have been compared to data collected in January 1991. The inbound travel time information is detailed by activity center and peak period in Table 2. The outbound travel time comparison is likewise displayed in Table 3. If the change in travel time was found to be less than one minute, the tables state SAME.

The average travel times to and from the activity centers have remained basically constant with some slight variances. Comparisons with January 1991 data find decreases in the travel times for Baytown (Inbound), Clear Lake (Inbound), Hobby Airport (Inbound and Outbound), Kingwood (Inbound) and Sugarland (Outbound). The completion of expanding US 59 (Southwest Freeway) greatly contributed to the reduction of the PM outbound travel time to Sugarland by 18.3 minutes as shown in Table 3.

The most noted increases were found for the travel times to and from Cypress Fairbanks along US 290 in both peak hours. The travel times to and from Katy represented a slight increase. Although conditions for the outbound direction to Sugarland were improved by the US 59 construction, inbound travel times increased by 3 minutes in the AM peak period. Further investigation of the data on page A-15 in the Appendix reveals a large contributer to the overall delay. The average travel time from SH 6 to the Fort Bend/Harris County Line (4.70 miles) is 14.56 minutes. The first phase of US 59 construction did not include this portion of the freeway.

The data to and from the Houston Intercontinental Airport via Hardy Toll Road may have been slightly affected by the ongoing construction along John F. Kennedy Boulevard which resulted in vehicle speeds dropping from 50 mph to 25 mph through two temporary detours. "The Houston Department of Aviation expects to complete rebuilding the access road to JFK this month." In addition, delays due to expansion construction at Hobby Airport will begin in September when the city will shut down the passenger drop-off ramp for 6 months.¹ The travel times to and from The Woodlands also slightly increased on both routes.

Table 2. Inbound Travel Time Comparison to January 1991

Activity Center	Peak Period	Average Travel Time, min.		Change in Travel Time, Minutes
		January 1991	May 1993	
BAYTOWN	A.M. P.M. Off Peak	36.6 34.6 32.2	32.0 30.7 30.9	-4.6 -3.9 -1.3
CLEAR LAKE	A.M. P.M. Off Peak	37.1 27.5 25.2	35.7 25.7 24.3	-1.4 -1.8 SAME
CYPRESS FAIRBANKS	A.M. P.M. Off Peak	30.0 23.9 24.1	37.7 23.2 24.8	+7.7 SAME SAME
HOBBY	A.M. P.M. Off Peak	23.3 19.6 17.2	19.5 19.8 16.7	-3.8 SAME SAME
KATY	A.M. P.M. Off Peak	44.9 31.1 29.5	46.1 32.8 30.1	+1.2 +1.7 SAME
KINGWOOD	A.M. P.M. Off Peak	41.6 26.3 25.3	37.4 27.7 26.1	-4.2 +1.4 SAME
KINGWOOD VIA HARDY TOLL ROAD	A.M. P.M. Off Peak	47.7 35.2 33.8	42.7 33.8 36.1	-5.0 -1.4 +2.3
SUGARLAND	A.M. P.M. Off Peak	35.1 24.0 22.0	38.2 24.4 24.8	+3.1 SAME +2.8
TERMINAL "B" INTERCONTINENTAL AIRPORT	A.M. P.M. Off Peak	36.1 27.2 25.7	35.6 31.1 25.8	SAME +3.9 SAME
TERMINAL "B" INTERCONTINENTAL AIRPORT VIA HARDY TOLL ROAD	A.M. P.M. Off Peak	33.6 28.6 28.4	35.1 29.3 26.8	+1.5 SAME -1.6
WOODLANDS	A.M. P.M. Off Peak	40.3 30.3 29.2	42.5 30.0 30.2	+2.2 SAME SAME
WOODLANDS VIA HARDY TOLL ROAD	A.M. P.M. Off Peak	39.1 35.2 33.5	43.1 34.3 36.8	+4.0 SAME +3.3

NOTE: If change in travel time was less than 1 minute, table states SAME.

Table 3. Outbound Travel Time Comparison to January 1991

Activity Center	Peak Period	Average Travel Time, min.		Change in Travel Time, Minutes
		January 1991	May 1993	
BAYTOWN	A.M. P.M. Off Peak	31.7 33.7 30.9	31.9 34.9 32.8	SAME +1.2 +1.9
CLEAR LAKE	A.M. P.M. Off Peak	24.7 32.8 25.2	24.6 31.3 24.9	SAME -1.5 SAME
CYPRESS FAIRBANKS	A.M. P.M. Off Peak	24.8 29.2 23.7	24.9 34.6 23.4	SAME +5.4 SAME
HOBBY	A.M. P.M. Off Peak	16.9 20.3 17.3	15.6 21.2 15.6	-1.3 SAME -1.7
KATY	A.M. P.M. Off Peak	31.1 42.2 30.9	29.8 45.6 30.7	-1.3 +3.4 SAME
KINGWOOD	A.M. P.M. Off Peak	26.6 35.3 25.6	28.3 35.2 24.7	+1.7 SAME SAME
KINGWOOD VIA HARDY TOLL ROAD	A.M. P.M. Off Peak	35.8 40.5 33.5	37.2 42.1 33.8	+1.4 +1.6 SAME
SUGARLAND	A.M. P.M. Off Peak	24.9 44.6 25.0	23.8 26.3 24.5	-1.1 -18.3 SAME
TERMINAL "B" INTERCONTINENTAL AIRPORT	A.M. P.M. Off Peak	28.0 34.4 27.4	27.6 37.0 28.5	SAME +2.6 +1.1
TERMINAL "B" INTERCONTINENTAL AIRPORT VIA HARDY TOLL ROAD	A.M. P.M. Off Peak	29.1 29.7 27.4	32.1 33.6 27.7	+3.0 +3.9 SAME
WOODLANDS	A.M. P.M. Off Peak	29.4 37.1 29.3	30.8 39.6 29.3	+1.4 +2.5 SAME
WOODLANDS VIA HARDY TOLL ROAD	A.M. P.M. Off Peak	35.4 36.1 34.4	38.1 37.7 34.0	+2.7 +1.6 SAME

NOTE: If change in travel time was less than 1 minute, table states SAME.

LIMITATIONS

The travel time data presented in this report should be viewed as "representative" values. These data should be adequate for most planning endeavors. Site specific applications may warrant more extensive data to supplement the data presented within this study.

REFERENCES

¹ Corporate Travel, June 1993, page 42.

APPENDIX

ACTIVITY CENTER : BAYTOWN
 DIRECTION : INBOUND TOWARD THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 700		715		745		AVERAGE		
		RUN DATE : 04/29/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	
TEXAS AVENUE to LOOP 201	1.00	1.25	48.00	1.75	34.29	2.00	30.00	1.67	36.00	
LOOP 201 to BAYWAY DRIVE	3.75	4.88	46.08	6.25	36.00	6.25	36.00	5.79	38.83	
BAYWAY DRIVE to DECKER (SPUR 330) @ I-10	1.20	1.32	54.68	1.73	41.54	1.27	56.84	1.44	50.04	
DECKER (SPUR 330) @ IH 10 to BELTWAY 8	6.55	7.20	54.58	6.27	62.71	7.50	52.40	6.99	56.23	
BELTWAY 8 to EAST LOOP (IH 610)	6.65	6.82	58.53	6.43	62.02	6.88	57.97	6.71	59.45	
EAST LOOP (IH 610) to US 59N @ IH 10	4.85	5.88	49.46	5.10	57.06	4.63	62.81	5.21	55.90	
US 59N @ IH 10 to CAPITOL @ CHENEVERT	1.40	2.28	36.79	2.00	42.00	2.02	41.65	2.10	40.00*	
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.43	18.84	1.73	15.58	1.68	16.04	1.62	16.70*	
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.38	31.30	0.52	23.23	0.40	30.00	0.43	27.69*	
TOTAL(S)		26.05	31.45	49.70	31.78	49.18	32.63	47.90	31.96	48.91

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1800						AVERAGE	
		RUN DATE : 05/11/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
TEXAS AVENUE to LOOP 201	1.00	1.98	30.25	.	.	.	.	1.98	30.25
LOOP 201 to BAYWAY DRIVE	3.75	5.63	39.94	.	.	.	.	5.63	39.94
BAYWAY DRIVE to DECKER (SPUR 330) @ I-10	1.20	1.33	54.00	.	.	.	.	1.33	54.00
DECKER (SPUR 330) @ IH 10 to BELTWAY 8	6.55	6.63	59.25	.	.	.	.	6.63	59.25
BELTWAY 8 to EAST LOOP (IH 610)	6.65	6.70	59.55	.	.	.	.	6.70	59.55
EAST LOOP (IH 610) to US 59N @ IH 10	4.85	4.88	59.59	.	.	.	.	4.88	59.59
US 59N @ IH 10 to CAPITOL @ CHENEVERT	1.40	1.67	50.40	.	.	.	.	1.67	50.40*
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.67	16.20	.	.	.	.	1.67	16.20*
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.40	30.00	.	.	.	.	0.40	30.00*
TOTAL(S)		26.05	30.90	50.58	.	.	.	30.90	50.58

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1710		1730				AVERAGE	
		RUN DATE : 04/29/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
TEXAS AVENUE to LOOP 201	1.00	1.77	33.96	1.52	39.56	.	.	1.64	36.55
LOOP 201 to BAYWAY DRIVE	3.75	5.28	42.59	6.07	37.09	.	.	5.68	39.65
BAYWAY DRIVE to DECKER (SPUR 330) @ I-10	1.20	1.92	37.57	1.90	37.89	.	.	1.91	37.73
DECKER (SPUR 330) @ IH 10 to BELTWAY 8	6.55	5.62	69.97	6.53	60.15	.	.	6.08	64.69
BELTWAY 8 to EAST LOOP (IH 610)	6.65	7.15	55.80	6.65	60.00	.	.	6.90	57.83
EAST LOOP (IH 610) to US 59N @ IH 10	4.85	5.27	55.25	4.73	61.48	.	.	5.00	58.20
US 59N @ IH 10 to CAPITOL @ CHENEVERT	1.40	2.10	40.00	1.68	49.90	.	.	1.89	44.41*
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.42	19.06	0.60	45.00	.	.	1.01	26.78*
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.77	15.65	0.43	27.69	.	.	0.60	20.00*
TOTAL(S)		26.05	31.28	49.96	30.12	51.90	.	30.70	50.91

* - AVERAGE TRAVEL TIME FROM THE KINGWOOD & TERMINAL 'B' IAC ROUTES

ACTIVITY CENTER : BAYTOWN
 DIRECTION : OUTBOUND FROM THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		745		800		700		AVERAGE	
		RUN DATE	TIME	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	3.10	11.61	2.03	17.70	2.80	12.86	2.64	13.61*		
WALKER @ US 59 N to US 59 @ 1H 10 EXIT	1.50	1.63	55.10	2.12	42.52	2.38	37.76	2.04	44.02*		
US 59 @ 1H 10 EXIT to EAST LOOP (IH 610)	4.85	5.35	54.39	5.08	57.25	5.13	56.69	5.19	56.08		
EAST LOOP (IH 610) to BELTWAY 8	6.65	7.00	57.00	6.57	60.76	6.83	58.39	6.80	58.68		
BELTWAY 8 to DECKER (SPUR 330) EXIT	6.55	6.70	58.66	6.28	62.55	6.40	61.41	6.46	60.83		
DECKER (SPUR 330) EXIT to BAYWAY DRIVE	1.20	1.47	49.09	1.57	45.96	2.12	34.02	1.72	41.94		
BAYWAY DRIVE to LOOP 201	3.75	3.90	57.69	5.45	41.28	6.18	36.39	5.18	43.45		
LOOP 201 to TEXAS AVENUE	1.00	1.62	37.11	2.08	28.80	1.88	31.86	1.86	32.24		
TOTAL(S)		26.10	30.77	50.90	31.18	50.22	33.73	46.42	31.89	49.10	

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1035						AVERAGE	
		RUN DATE	TIME	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.63	22.04	.	.	.	.	.	.	1.63	22.04*
WALKER @ US 59 N to US 59 @ 1H 10 EXIT	1.50	2.12	42.52	.	.	.	.	.	.	2.12	42.52*
US 59 @ 1H 10 EXIT to EAST LOOP (IH 610)	4.85	5.35	54.39	.	.	.	.	.	.	5.35	54.39
EAST LOOP (IH 610) to BELTWAY 8	6.65	6.97	57.27	.	.	.	.	.	.	6.97	57.27
BELTWAY 8 to DECKER (SPUR 330) EXIT	6.55	6.63	59.25	.	.	.	.	.	.	6.63	59.25
DECKER (SPUR 330) EXIT to BAYWAY DRIVE	1.20	1.78	40.37	.	.	.	.	.	.	1.78	40.37
BAYWAY DRIVE to LOOP 201	3.75	6.22	36.19	.	.	.	.	.	.	6.22	36.19
LOOP 201 to TEXAS AVENUE	1.00	2.13	28.13	.	.	.	.	.	.	2.13	28.13
TOTAL(S)		26.10	32.83	47.70		.	.	.	.	32.83	47.70

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1630		1700		1715		AVERAGE	
		RUN DATE	TIME	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	2.62	13.76	2.92	12.34	3.58	10.05	3.04	11.85*		
WALKER @ US 59 N to US 59 @ 1H 10 EXIT	1.50	2.13	42.19	3.18	28.27	4.22	21.34	3.18	28.32*		
US 59 @ 1H 10 EXIT to EAST LOOP (IH 610)	4.85	6.20	46.94	5.28	55.08	6.83	42.59	6.11	47.66		
EAST LOOP (IH 610) to BELTWAY 8	6.65	6.68	59.70	6.63	60.15	6.70	59.55	6.67	59.80		
BELTWAY 8 to DECKER (SPUR 330) EXIT	6.55	7.47	52.63	6.40	61.41	6.45	60.93	6.77	58.03		
DECKER (SPUR 330) EXIT to BAYWAY DRIVE	1.20	1.78	40.37	1.55	46.45	1.65	43.64	1.66	43.34		
BAYWAY DRIVE to LOOP 201	3.75	5.80	38.79	5.47	41.16	5.82	38.68	5.69	39.51		
LOOP 201 to TEXAS AVENUE	1.00	1.27	47.37	1.65	36.36	2.48	24.16	1.80	33.33		
TOTAL(S)		26.10	33.95	46.13	33.08	47.34	37.73	41.50	34.92	44.84	

* - AVERAGE TRAVEL TIME FROM THE KINGWOOD & TERMINAL 'B' IAC ROUTES

ACTIVITY CENTER : CLEAR LAKE
 DIRECTION : INBOUND TOWARD THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 730		715		700		AVERAGE	
		RUN DATE : 04/30/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
BAY AREA BLVD @ I-45 to SAM HOUSTON PKWY	6.10	6.17	59.35	5.93	61.69	7.25	50.48	6.45	56.74
SAM HOUSTON PKWY to AIRPORT	4.25	8.15	31.29	7.40	34.46	8.07	31.61	7.87	32.39
AIRPORT to PARK PLACE	2.80	8.80	19.09	7.93	21.18	7.07	23.77	7.93	21.18
PARK PLACE to SOUTH LOOP (IH 610)	1.10	1.03	63.87	1.20	55.00	1.28	51.43	1.17	56.30
SOUTH LOOP (IH 610) to CALHOUN	3.60	5.33	40.50	4.97	43.49	4.62	46.79	4.97	43.44*
CALHOUN to SCOTT	0.75	1.18	38.03	1.12	40.30	0.78	57.45	1.03	43.78*
SCOTT to PEASE @ DOWLING	0.85	0.82	62.45	1.00	51.00	1.05	48.57	0.96	53.37*
PEASE @ DOWLING to PEASE @ MAIN	0.85	3.15	16.19	3.17	16.11	3.32	15.38	3.21	15.88*
PEASE @ MAIN to MAIN @ MCKINNEY	0.45	2.13	12.66	2.02	13.39	2.15	12.56	2.10	12.86*
TOTAL(S)		20.75	36.77	33.86	34.73	35.84	35.58	34.99	35.69
									34.88

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 930						AVERAGE	
		RUN DATE : 04/30/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
BAY AREA BLVD @ I-45 to SAM HOUSTON PKWY	6.10	6.00	61.00	.	.	.	.	6.00	61.00
SAM HOUSTON PKWY to AIRPORT	4.25	4.17	61.20	.	.	.	.	4.17	61.20
AIRPORT to PARK PLACE	2.80	2.97	56.63	.	.	.	.	2.97	56.63
PARK PLACE to SOUTH LOOP (IH 610)	1.10	1.08	60.92	.	.	.	.	1.08	60.92
SOUTH LOOP (IH 610) to CALHOUN	3.60	3.78	57.09	.	.	.	.	3.78	57.09*
CALHOUN to SCOTT	0.75	0.97	46.55	.	.	.	.	0.97	46.55*
SCOTT to PEASE @ DOWLING	0.85	0.82	62.45	.	.	.	.	0.82	62.45*
PEASE @ DOWLING to PEASE @ MAIN	0.85	2.47	20.68	.	.	.	.	2.47	20.68*
PEASE @ MAIN to MAIN @ MCKINNEY	0.45	2.03	13.28	.	.	.	.	2.03	13.28*
TOTAL(S)		20.75	24.28	51.27	.	.	.	24.28	51.27

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1630		1715				AVERAGE	
		RUN DATE : 04/27/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
BAY AREA BLVD @ I-45 to SAM HOUSTON PKWY	6.10	5.95	61.51	6.33	57.79	.	.	6.14	59.59
SAM HOUSTON PKWY to AIRPORT	4.25	4.25	60.00	3.60	70.83	.	.	3.93	64.97
AIRPORT to PARK PLACE	2.80	3.03	55.38	4.67	36.00	.	.	3.85	43.64
PARK PLACE to SOUTH LOOP (IH 610)	1.10	1.10	60.00	1.02	64.92	.	.	1.06	62.36
SOUTH LOOP (IH 610) to CALHOUN	3.60	3.90	55.38	2.98	72.40	.	.	3.44	62.76*
CALHOUN to SCOTT	0.75	1.17	38.57	1.07	42.19	.	.	1.12	40.30*
SCOTT to PEASE @ DOWLING	0.85	0.78	65.11	0.85	60.00	.	.	0.82	62.45*
PEASE @ DOWLING to PEASE @ MAIN	0.85	3.18	16.02	3.23	15.77	.	.	3.21	15.90*
PEASE @ MAIN to MAIN @ MCKINNEY	0.45	2.10	12.86	2.10	12.86	.	.	2.10	12.86*
TOTAL(S)		20.75	25.47	48.89	25.85	48.16	.	25.66	48.52

* - AVERAGE TRAVEL TIME FROM THE HOBBY AIRPORT ROUTE

ACTIVITY CENTER : CLEAR LAKE
 DIRECTION : OUTBOUND FROM THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 815		740				AVERAGE	
		RUN DATE : 04/30/93	05/04/93	TIME	SPEED	TIME	SPEED	TIME	SPEED
FANNIN @ MCKINNEY to FANNIN @ JEFFERSON	0.50	2.73	10.98	2.50	12.00	.	.	2.62	11.46*
FANNIN @ JEFFERSON to JEFERSON @ DOWLING	0.80	2.33	20.57	2.33	20.57	.	.	2.33	20.57*
JEFFERSON @ DOWLING to IH 45 @ SCOTT	0.85	1.00	51.00	0.98	51.86	.	.	0.99	51.43*
IH 45 @ SCOTT to CALHOUN	0.75	0.73	61.36	0.73	61.36	.	.	0.73	61.36*
CALHOUN to SOUTH LOOP (IH 610)	3.60	4.00	54.00	3.57	60.56	.	.	3.78	57.09*
SOUTH LOOP (IH 610) to PARK PLACE	1.10	1.18	55.77	1.10	60.00	.	.	1.14	57.81
PARK PLACE to AIRPORT	2.80	2.80	60.00	2.85	58.95	.	.	2.83	59.47
AIRPORT to SAM HOUSTON PKWY	4.25	4.22	60.47	4.10	62.20	.	.	4.16	61.32
SAM HOUSTON PKWY to BAY AREA BLVD @ I-45	6.10	6.12	59.84	6.00	61.00	.	.	6.06	60.41
TOTAL(S)		20.75	25.12	49.57	24.17	51.52		24.64	50.52

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1515						AVERAGE	
		RUN DATE : 04/27/93		TIME	SPEED	TIME	SPEED	TIME	SPEED
FANNIN @ MCKINNEY to FANNIN @ JEFFERSON	0.50	1.53	19.57	.	.	.	.	1.53	19.57*
FANNIN @ JEFFERSON to JEFERSON @ DOWLING	0.80	2.50	19.20	.	.	.	.	2.50	19.20*
JEFFERSON @ DOWLING to IH 45 @ SCOTT	0.85	1.03	49.35	.	.	.	.	1.03	49.35*
IH 45 @ SCOTT to CALHOUN	0.75	0.85	52.94	.	.	.	.	0.85	52.94*
CALHOUN to SOUTH LOOP (IH 610)	3.60	3.88	55.62	.	.	.	.	3.88	55.62*
SOUTH LOOP (IH 610) to PARK PLACE	1.10	1.12	59.10	.	.	.	.	1.12	59.10
PARK PLACE to AIRPORT	2.80	3.05	55.08	.	.	.	.	3.05	55.08
AIRPORT to SAM HOUSTON PKWY	4.25	4.62	55.23	.	.	.	.	4.62	55.23
SAM HOUSTON PKWY to BAY AREA BLVD @ I-45	6.10	6.32	57.94	.	.	.	.	6.32	57.94
TOTAL(S)		20.75	24.90	50.00		.	.	24.90	50.00

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1645		1700		1715		AVERAGE		
		RUN DATE : 04/29/93	05/04/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	
FANNIN @ MCKINNEY to FANNIN @ JEFFERSON	0.50	2.30	13.04	2.52	11.92	1.67	18.00	2.16	13.88*	
FANNIN @ JEFFERSON to JEFERSON @ DOWLING	0.80	2.93	16.36	2.28	21.02	2.40	20.00	2.54	18.91*	
JEFFERSON @ DOWLING to IH 45 @ SCOTT	0.85	1.77	28.87	1.22	41.92	1.27	40.26	1.42	36.00*	
IH 45 @ SCOTT to CALHOUN	0.75	0.67	67.50	0.88	50.94	0.77	58.70	0.77	58.27*	
CALHOUN to SOUTH LOOP (IH 610)	3.60	4.22	51.23	3.87	55.86	3.98	54.23	4.02	53.70*	
SOUTH LOOP (IH 610) to PARK PLACE	1.10	2.72	24.29	5.02	13.16	3.08	21.41	3.61	18.31	
PARK PLACE to AIRPORT	2.80	3.78	44.41	4.70	35.74	4.05	41.48	4.18	40.21	
AIRPORT to SAM HOUSTON PKWY	4.25	4.73	53.87	5.17	49.35	8.77	29.09	6.22	40.98	
SAM HOUSTON PKWY to BAY AREA BLVD @ I-45	6.10	6.27	58.40	6.42	57.04	6.52	56.16	6.40	57.19	
TOTAL(S)		20.75	29.38	42.37	32.07	38.83	32.50	38.31	31.32	39.76

* - AVERAGE TRAVEL TIME FROM THE HOBBY AIRPORT ROUTE

ACTIVITY CENTER : CYPRESS-FAIRBANKS
 DIRECTION : INBOUND TOWARD THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 800		720		700		AVERAGE	
		RUN DATE : 04/29/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
FM 1960 @ US 290 to SAM HOUSTON TOLLWAY	4.75	4.87	58.56	4.98	57.19	4.82	59.17	4.89	58.30
SAM HOUSTON TOLLWAY to NORTH LOOP (18TH)	7.85	20.63	22.83	18.68	25.21	12.52	37.63	17.28	27.26
NORTH LOOP (18TH STREET) to WASHINGTON	2.75	7.02	23.52	6.15	26.83	3.78	43.61	5.65	29.20
WASHINGTON to IH 45 @ HOGAN ST	3.80	5.48	41.58	4.40	51.82	4.72	48.34	4.87	46.85
IH 45 @ HOGAN ST to McKINNEY @ MAIN	1.70	7.10	14.37	3.92	26.04	3.95	25.82	4.99	20.45
TOTAL(S)	20.85	45.10	27.74	38.13	32.81	29.78	42.00	37.67	33.21

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1115						AVERAGE	
		RUN DATE : 05/14/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
FM 1960 @ US 290 to SAM HOUSTON TOLLWAY	4.75	4.62	61.73	.	.	.	.	4.62	61.73
SAM HOUSTON TOLLWAY to NORTH LOOP (18TH)	7.85	8.03	58.63	.	.	.	.	8.03	58.63
NORTH LOOP (18TH STREET) to WASHINGTON	2.75	4.65	35.48	.	.	.	.	4.65	35.48
WASHINGTON to IH 45 @ HOGAN ST	3.80	3.77	60.53	.	.	.	.	3.77	60.53
IH 45 @ HOGAN ST to McKINNEY @ MAIN	1.70	3.70	27.57	.	.	.	.	3.70	27.57
TOTAL(S)	20.85	24.77	50.51	.	.	.	.	24.77	50.51

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1650		1630				AVERAGE	
		RUN DATE : 05/03/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
FM 1960 @ US 290 to SAM HOUSTON TOLLWAY	4.75	4.75	60.00	4.75	60.00	.	.	4.75	60.00
SAM HOUSTON TOLLWAY to NORTH LOOP (18TH)	7.85	8.10	58.15	7.88	59.75	.	.	7.99	58.94
NORTH LOOP (18TH STREET) to WASHINGTON	2.75	3.33	49.50	3.12	52.94	.	.	3.22	51.16
WASHINGTON to IH 45 @ HOGAN ST	3.80	3.73	61.07	4.03	56.53	.	.	3.88	58.71
IH 45 @ HOGAN ST to McKINNEY @ MAIN	1.70	4.50	22.67	2.10	48.57	.	.	3.30	30.91
TOTAL(S)	20.85	24.42	51.24	21.88	57.17	.	.	23.15	54.04

ACTIVITY CENTER : CYPRESS-FAIRBANKS
 DIRECTION : OUTBOUND FROM THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		800		818		AVERAGE	
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
WALKER @ MAIN to IH 10 @ HOGAN	1.50	3.23	27.84	3.22	27.98	.	.	3.23	27.91
IH 10 @ HOGAN to WASHINGTON	3.80	4.13	55.16	4.22	54.07	.	.	4.18	54.61
WASHINGTON to NORTH LOOP (18TH STREET)	2.75	4.15	39.76	4.05	40.74	.	.	4.10	40.24
NORTH LOOP (18TH) to SAM HOUSTON TOLLWAY	7.85	8.67	54.35	8.35	56.41	.	.	8.51	55.36
SAM HOUSTON TOLLWAY to FM 1960 @ US 290	4.75	4.85	58.76	5.00	57.00	.	.	4.93	57.87
TOTAL(S)	20.65	25.03	49.49	24.83	49.89	.	.	24.93	49.69

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1045		AVERAGE			
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	
WALKER @ MAIN to IH 10 @ HOGAN	1.50	3.23	27.84	.	.	.	.	3.23	27.84
IH 10 @ HOGAN to WASHINGTON	3.80	3.95	57.72	.	.	.	.	3.95	57.72
WASHINGTON to NORTH LOOP (18TH STREET)	2.75	3.00	55.00	.	.	.	.	3.00	55.00
NORTH LOOP (18TH) to SAM HOUSTON TOLLWAY	7.85	8.37	56.29	.	.	.	.	8.37	56.29
SAM HOUSTON TOLLWAY to FM 1960 @ US 290	4.75	4.82	59.17	.	.	.	.	4.82	59.17
TOTAL(S)	20.65	23.37	53.02	.	.	.	.	23.37	53.02

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1715		1700		1645		AVERAGE	
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
WALKER @ MAIN to IH 10 @ HOGAN	1.50	4.27	21.09	4.17	21.60	2.77	32.53	3.73	24.11		
IH 10 @ HOGAN to WASHINGTON	3.80	4.30	53.02	4.18	54.50	4.22	54.07	4.23	53.86		
WASHINGTON to NORTH LOOP (18TH STREET)	2.75	3.32	49.75	3.15	52.38	5.27	31.33	3.91	42.19		
NORTH LOOP (18TH) to SAM HOUSTON TOLLWAY	7.85	21.27	22.15	20.87	22.57	11.08	42.50	17.74	26.55		
SAM HOUSTON TOLLWAY to FM 1960 @ US 290	4.75	5.03	56.62	4.72	60.42	5.07	56.25	4.94	57.71		
TOTAL(S)	20.65	38.18	32.45	37.08	33.41	28.40	43.63	34.56	35.86		

ACTIVITY CENTER : HOBBY AIRPORT
 DIRECTION : INBOUND TOWARD THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 715		730		730		AVERAGE	
		RUN DATE : 04/30/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
AIRPORT @ BROADWAY to BELLFORT	1.00	2.43	24.66	2.42	24.83	2.58	23.23	2.48	24.22
BELLFORT to PARK PLACE @ IH 45 FR RD	0.90	2.80	19.29	2.88	18.73	3.20	16.88	2.96	18.24
PARK PLACE @ IH 45 FR RD to SOUTH LOOP	1.10	1.22	54.25	1.20	55.00	1.07	61.88	1.16	56.84
SOUTH LOOP (IH 610) to CALHOUN	3.60	4.70	45.96	6.48	33.32	5.10	42.35	5.43	39.80
CALHOUN to SCOTT	0.75	0.77	58.70	1.00	45.00	1.05	42.86	0.94	47.93
SCOTT to PEASE @ DOWLING	0.85	1.03	49.35	1.02	50.16	1.00	51.00	1.02	50.16
PEASE @ DOWLING to PEASE @ MAIN	0.85	3.47	14.71	4.58	11.13	3.38	15.07	3.81	13.38
PEASE @ MAIN to MAIN @ MCKINNEY	0.45	1.20	22.50	2.00	13.50	1.82	14.86	1.67	16.15
TOTAL(S)		9.50	17.62	32.36	21.58	26.41	19.20	29.69	19.47
									29.28

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 930		930		930		AVERAGE	
		RUN DATE : 05/05/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
AIRPORT @ BROADWAY to BELLFORT	1.00	2.23	26.87	.	.	.	.	2.23	26.87
BELLFORT to PARK PLACE @ IH 45 FR RD	0.90	1.85	29.19	.	.	.	.	1.85	29.19
PARK PLACE @ IH 45 FR RD to SOUTH LOOP	1.10	1.78	37.01	.	.	.	.	1.78	37.01
SOUTH LOOP (IH 610) to CALHOUN	3.60	3.80	56.84	.	.	.	.	3.80	56.84
CALHOUN to SCOTT	0.75	1.00	45.00	.	.	.	.	1.00	45.00
SCOTT to PEASE @ DOWLING	0.85	1.22	41.92	.	.	.	.	1.22	41.92
PEASE @ DOWLING to PEASE @ MAIN	0.85	2.95	17.29	.	.	.	.	2.95	17.29
PEASE @ MAIN to MAIN @ MCKINNEY	0.45	1.90	14.21	.	.	.	.	1.90	14.21
TOTAL(S)		9.50	16.73	34.06		.	.		16.73
									34.06

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1700		1700		1730		1730		AVERAGE	
		RUN DATE : 04/28/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	TIME	SPEED
AIRPORT @ BROADWAY to BELLFORT	1.00	3.53	16.98	3.42	17.56	.	.	.	.	3.48	17.27
BELLFORT to PARK PLACE @ IH 45 FR RD	0.90	4.58	11.78	3.53	15.28	.	.	.	.	4.06	13.31
PARK PLACE @ IH 45 FR RD to SOUTH LOOP	1.10	1.53	43.04	1.02	64.92	.	.	.	.	1.28	51.76
SOUTH LOOP (IH 610) to CALHOUN	3.60	3.47	62.31	3.93	54.92	.	.	.	.	3.70	58.38
CALHOUN to SCOTT	0.75	0.73	61.36	0.75	60.00	.	.	.	.	0.74	60.67
SCOTT to PEASE @ DOWLING	0.85	2.03	25.08	1.53	33.26	.	.	.	.	1.78	28.60
PEASE @ DOWLING to PEASE @ MAIN	0.85	3.37	15.15	2.57	19.87	.	.	.	.	2.97	17.19
PEASE @ MAIN to MAIN @ MCKINNEY	0.45	2.03	13.28	1.57	17.23	.	.	.	.	1.80	15.00
TOTAL(S)		9.50	21.28	26.78	18.32	31.12		.	.	19.80	28.79

ACTIVITY CENTER : HOBBY AIRPORT
 DIRECTION : OUTBOUND FROM THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		715		730		AVERAGE	
		RUN DATE	04/29/93	TIME	SPEED	TIME	SPEED	TIME	SPEED
FANNIN @ MCKINNEY to FANNIN @ JEFFERSON	0.50	2.45	12.24	1.82	16.51	.	.	2.13	14.06
FANNIN @ JEFFERSON to JEFERSON @ DOWLING	0.80	2.88	16.65	2.28	21.02	.	.	2.58	18.58
JEFFERSON @ DOWLING to SCOTT	0.85	1.07	47.81	1.03	49.35	.	.	1.05	48.57
SCOTT to CALHOUN	0.75	0.77	58.70	0.75	60.00	.	.	0.76	59.34
CALHOUN to SOUTH LOOP (IH 610)	3.60	3.72	58.12	3.67	58.91	.	.	3.69	58.51
SOUTH LOOP to PARK PLACE @ IH 45 FR RD	1.10	1.17	56.57	1.17	56.57	.	.	1.17	56.57
PARK PLACE @ IH 45 FR RD to BELLFORT	0.90	2.08	25.92	2.27	23.82	.	.	2.18	24.83
BELLFORT to AIRPORT	1.00	1.85	32.43	2.23	26.87	.	.	2.04	29.39
TOTAL(S)	9.50	15.98	35.66	15.22	37.46	.	.	15.60	36.54

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1530		AVERAGE			
		RUN DATE	04/27/93	TIME	SPEED	TIME	SPEED	TIME	SPEED
FANNIN @ MCKINNEY to FANNIN @ JEFFERSON	0.50	2.55	11.76	.	.	.	.	2.55	11.76
FANNIN @ JEFFERSON to JEFERSON @ DOWLING	0.80	2.37	20.28	.	.	.	.	2.37	20.28
JEFFERSON @ DOWLING to SCOTT	0.85	1.08	47.08	.	.	.	.	1.08	47.08
SCOTT to CALHOUN	0.75	0.83	54.00	.	.	.	.	0.83	54.00
CALHOUN to SOUTH LOOP (IH 610)	3.60	3.83	56.35	.	.	.	.	3.83	56.35
SOUTH LOOP to PARK PLACE @ IH 45 FR RD	1.10	1.35	48.89	.	.	.	.	1.35	48.89
PARK PLACE @ IH 45 FR RD to BELLFORT	0.90	1.32	41.01	.	.	.	.	1.32	41.01
BELLFORT to AIRPORT	1.00	2.23	26.87	.	.	.	.	2.23	26.87
TOTAL(S)	9.50	15.57	36.62	.	.	.	.	15.57	36.62

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1640		1715		1700		AVERAGE	
		RUN DATE	04/28/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
FANNIN @ MCKINNEY to FANNIN @ JEFFERSON	0.50	2.07	14.52	1.77	16.98	2.67	11.25	2.17	13.85		
FANNIN @ JEFFERSON to JEFERSON @ DOWLING	0.80	3.15	15.24	2.47	19.46	2.15	22.33	2.59	18.54		
JEFFERSON @ DOWLING to SCOTT	0.85	1.20	42.50	1.08	47.08	1.20	42.50	1.16	43.92		
SCOTT to CALHOUN	0.75	1.27	35.53	2.42	18.62	1.05	42.86	1.58	28.52		
CALHOUN to SOUTH LOOP (IH 610)	3.60	5.43	39.75	5.48	39.39	3.98	54.23	4.97	43.49		
SOUTH LOOP to PARK PLACE @ IH 45 FR RD	1.10	1.35	48.89	6.03	10.94	3.73	17.68	3.71	17.81		
PARK PLACE @ IH 45 FR RD to BELLFORT	0.90	2.17	24.92	2.25	24.00	1.98	27.23	2.13	25.31		
BELLFORT to AIRPORT	1.00	3.33	18.00	2.83	21.18	2.53	23.68	2.90	20.69		
TOTAL(S)	9.50	19.97	28.55	24.33	23.42	19.30	29.53	21.20	26.89		

ACTIVITY CENTER : KATY
DIRECTION : INBOUND TOWARD THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		700		710		730		AVERAGE	
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED	
US 90 @ IH 10 M/L to SH 6	9.50	10.88	52.37	13.33	42.75	10.43	54.63	11.55	49.35		
SH 6 to SAM HOUSTON TOLLWAY	4.95	10.45	28.42	5.83	50.91	9.65	30.78	8.64	34.36		
SAM HOUSTON TOLLWY to WEST LOOP (IH 610)	6.65	14.92	26.75	20.00	19.95	16.73	23.84	17.22	23.18		
WEST LOOP (IH 610) to WASHINGTON	1.50	1.90	47.37	1.57	57.45	1.83	49.09	1.77	50.94		
WASHINGTON to IH 45 @ HOGAN ST	4.00	3.68	65.16	3.77	63.72	3.68	65.16	3.71	64.67*		
IH 45 @ HOGAN ST to McKINNEY @ MAIN	1.70	2.15	47.44	3.48	29.28	3.90	26.15	3.18	32.10*		
TOTAL(S)	28.30	43.98	38.61	47.98	35.39	46.23	36.73	46.07	36.86		

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1415		AVERAGE		
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED
US 90 @ IH 10 M/L to SH 6	9.50	9.47	60.21	.	.	.	.	9.47 60.21
SH 6 to SAM HOUSTON TOLLWAY	4.95	4.92	60.41	.	.	.	.	4.92 60.41
SAM HOUSTON TOLLWY to WEST LOOP (IH 610)	6.65	6.78	58.82	.	.	.	.	6.78 58.82
WEST LOOP (IH 610) to WASHINGTON	1.50	1.50	60.00	.	.	.	.	1.50 60.00
WASHINGTON to IH 45 @ HOGAN ST	4.00	3.87	62.07	.	.	.	.	3.87 62.07*
IH 45 @ HOGAN ST to McKINNEY @ MAIN	1.70	3.55	28.73	.	.	.	.	3.55 28.73*
TOTAL(S)	28.30	30.08	56.44	.	.	.	.	30.08 56.44

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1800		1640		AVERAGE	
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
US 90 @ IH 10 M/L to SH 6	9.50	10.37	54.98	11.72	48.65	.	.	.	11.04 51.62
SH 6 to SAM HOUSTON TOLLWAY	4.95	5.48	54.16	5.73	51.80	.	.	.	5.61 52.96
SAM HOUSTON TOLLWY to WEST LOOP (IH 610)	6.65	7.05	56.60	8.08	49.36	.	.	.	7.57 52.73
WEST LOOP (IH 610) to WASHINGTON	1.50	1.47	61.36	1.53	58.70	.	.	.	1.50 60.00
WASHINGTON to IH 45 @ HOGAN ST	4.00	3.85	62.34	4.30	55.81	.	.	.	4.08 58.90*
IH 45 @ HOGAN ST to McKINNEY @ MAIN	1.70	3.65	27.95	2.30	44.35	.	.	.	2.97 34.29*
TOTAL(S)	28.30	31.87	53.28	33.67	50.44	.	.	.	32.77 51.82

* - AVERAGE TRAVEL TIME FROM THE CYPRESS-FAIRBANKS ROUTE

ACTIVITY CENTER : KATY
DIRECTION : OUTBOUND FROM THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		750		700		AVERAGE	
		RUN DATE	05/04/93	TIME	SPEED	TIME	SPEED	TIME	SPEED
WALKER @ MAIN to IH 10 @ HOGAN	1.50	3.20	28.13	3.10	29.03	.	.	3.15	28.57*
IH 10 @ HOGAN to WASHINGTON	4.00	3.57	67.29	4.02	59.75	.	.	3.79	63.30*
WASHINGTON to WEST LOOP (IH 610)	1.50	1.43	62.79	1.58	56.84	.	.	1.51	59.67
WEST LOOP (IH 610) to SAM HOUSTON TOLL	6.65	6.80	58.68	6.82	58.53	.	.	6.81	58.60
SAM HOUSTON TOLLWAY to SH 6	4.95	4.52	65.76	4.98	59.60	.	.	4.75	62.53
SH 6 to US 90 @ IH 10 M/L	9.50	8.67	65.77	10.87	52.45	.	.	9.77	58.36
TOTAL(S)	28.10	28.18	59.82	31.37	53.75	.	.	29.77	56.62

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1345		AVERAGE			
		RUN DATE	04/27/93	TIME	SPEED	TIME	SPEED		
WALKER @ MAIN to IH 10 @ HOGAN	1.50	4.05	22.22	.	.	.	.	4.05	22.22*
IH 10 @ HOGAN to WASHINGTON	4.00	3.93	61.02	.	.	.	.	3.93	61.02*
WASHINGTON to WEST LOOP (IH 610)	1.50	1.53	58.70	.	.	.	.	1.53	58.70
WEST LOOP (IH 610) to SAM HOUSTON TOLL	6.65	6.60	60.45	.	.	.	.	6.60	60.45
SAM HOUSTON TOLLWAY to SH 6	4.95	4.90	60.61	.	.	.	.	4.90	60.61
SH 6 to US 90 @ IH 10 M/L	9.50	9.67	58.97	.	.	.	.	9.67	58.97
TOTAL(S)	28.10	30.68	54.95	.	.	.	.	30.68	54.95

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1700		1730		1645		AVERAGE	
		RUN DATE	05/03/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
WALKER @ MAIN to IH 10 @ HOGAN	1.50	3.80	23.68	3.85	23.38	2.93	30.68	3.53	25.51*		
IH 10 @ HOGAN to WASHINGTON	4.00	4.23	56.69	3.70	64.86	3.75	64.00	3.89	61.63*		
WASHINGTON to WEST LOOP (IH 610)	1.50	1.68	53.47	4.42	20.38	3.30	27.27	3.13	28.72		
WEST LOOP (IH 610) to SAM HOUSTON TOLL	6.65	18.75	21.28	20.23	19.72	15.65	25.50	18.21	21.91		
SAM HOUSTON TOLLWAY to SH 6	4.95	7.93	37.44	6.13	48.42	6.68	44.44	6.92	42.94		
SH 6 to US 90 @ IH 10 M/L	9.50	10.42	54.72	10.55	54.03	8.87	64.29	9.94	57.32		
TOTAL(S)	28.10	46.82	36.01	48.88	34.49	41.18	40.94	45.63	36.95		

* - AVERAGE TRAVEL TIME FROM THE CYPRESS-FAIRBANKS ROUTE

ACTIVITY CENTER : KINGWOOD
 DIRECTION : INBOUND TOWARD THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		700		735		715		AVERAGE	
		RUN DATE		04/30/93		05/07/93		05/12/93		TIME	SPEED
KINGWOOD DR @ US 59 M/L to FM 1960	3.50	4.95	42.42	4.57	45.99	5.63	37.28	5.05	41.58		
FM 1960 to WILL CLAYTON PKWY	1.70	2.72	37.55	2.58	39.48	2.28	44.67	2.53	40.35		
WILL CLAYTON PKWY to N SAM HOUSTON PKWY	3.10	3.12	59.68	3.95	47.09	3.85	48.31	3.64	51.11		
N SAM HOUSTON PKWY to NORTH LOOP (I 610)	9.70	12.37	47.06	11.83	49.18	18.43	31.57	14.21	40.95		
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	2.80	5.17	32.52	8.37	20.08	6.88	24.41	6.81	24.69		
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	2.18	38.47	1.78	47.10	2.40	35.00	2.12	39.58		
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	2.33	11.57	2.05	13.17	1.97	13.73	2.12	12.76		
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.97	12.41	0.50	24.00	1.17	10.29	0.88	13.67		
TOTAL(S)		22.85	33.80	40.56	35.63	38.48	42.62	32.17	37.35	36.71	

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1225		938		AVERAGE		TIME	SPEED
		RUN DATE		04/27/93		04/30/93		TIME	SPEED		
KINGWOOD DR @ US 59 M/L to FM 1960	3.50	3.93	53.39	4.07	51.64	.	.	.	.	4.00	52.50
FM 1960 to WILL CLAYTON PKWY	1.70	2.02	50.58	1.70	60.00	.	.	.	.	1.86	54.89
WILL CLAYTON PKWY to N SAM HOUSTON PKWY	3.10	3.00	62.00	3.52	52.89	.	.	.	.	3.26	57.08
N SAM HOUSTON PKWY to NORTH LOOP (I 610)	9.70	9.52	61.16	10.77	54.06	.	.	.	.	10.14	57.39
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	2.80	2.82	59.64	3.28	51.17	.	.	.	.	3.05	55.08
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	1.88	44.60	1.75	48.00	.	.	.	.	1.82	46.24
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.18	22.82	1.33	20.25	.	.	.	.	1.26	21.46
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.80	15.00	0.58	20.57	.	.	.	.	0.69	17.35
TOTAL(S)		22.85	25.15	54.51	27.00	50.78				26.07	52.58

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1725		1740		AVERAGE		TIME	SPEED
		RUN DATE		05/10/93		05/12/93		TIME	SPEED		
KINGWOOD DR @ US 59 M/L to FM 1960	3.50	3.87	54.31	3.43	61.17	.	.	.	.	3.65	57.53
FM 1960 to WILL CLAYTON PKWY	1.70	1.93	52.76	1.67	61.20	.	.	.	.	1.80	56.67
WILL CLAYTON PKWY to N SAM HOUSTON PKWY	3.10	3.85	48.31	3.28	56.65	.	.	.	.	3.57	52.15
N SAM HOUSTON PKWY to NORTH LOOP (I 610)	9.70	14.08	41.33	9.47	61.48	.	.	.	.	11.77	49.43
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	2.80	2.87	58.60	2.77	60.72	.	.	.	.	2.82	59.64
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	2.43	34.52	1.65	50.91	.	.	.	.	2.04	41.14
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.22	22.19	1.60	16.88	.	.	.	.	1.41	19.17
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.72	16.74	0.50	24.00	.	.	.	.	0.61	19.73
TOTAL(S)		22.85	30.97	44.27	24.37	56.27				27.67	49.55

ACTIVITY CENTER : KINGWOOD
 DIRECTION : OUTBOUND FROM THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 733		700				AVERAGE	
		RUN DATE : 04/30/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	2.08	17.28	2.42	14.90	.	.	2.25	16.00
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.98	30.17	2.87	31.40	.	.	2.93	30.77
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.47	48.46	3.00	56.00	.	.	3.23	51.96
NORTH LOOP (IH 610) to SAM HOUSTON PKWY	9.70	10.77	54.06	11.47	50.76	.	.	11.12	52.35
N SAM HOUSTON PKWY to WILL CLAYTON PKWY	3.10	3.67	50.73	3.10	60.00	.	.	3.38	54.98
WILL CLAYTON PKWY to FM 1960	1.70	1.97	51.86	1.33	76.50	.	.	1.65	61.82
FM 1960 to KINGWOOD DR @ US 59 M/L	3.50	3.87	54.31	3.67	57.27	.	.	3.77	55.75
TOTAL(S)	22.90	28.80	47.71	27.85	49.34	.	.	28.32	48.51

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1155						AVERAGE	
		RUN DATE : 04/27/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.57	22.98	.	.	.	.	1.57	22.98
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.27	39.71	.	.	.	.	2.27	39.71
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	2.70	62.22	.	.	.	.	2.70	62.22
NORTH LOOP (IH 610) to SAM HOUSTON PKWY	9.70	9.82	59.29	.	.	.	.	9.82	59.29
N SAM HOUSTON PKWY to WILL CLAYTON PKWY	3.10	3.02	61.66	.	.	.	.	3.02	61.66
WILL CLAYTON PKWY to FM 1960	1.70	1.30	78.46	.	.	.	.	1.30	78.46
FM 1960 to KINGWOOD DR @ US 59 M/L	3.50	4.03	52.07	.	.	.	.	4.03	52.07
TOTAL(S)	22.90	24.70	55.63	.	.	.	.	24.70	55.63

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1645		1700		1717		AVERAGE	
		RUN DATE : 05/10/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.68	21.39	2.22	16.24	3.12	11.55	2.34	15.39
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.68	33.54	3.47	25.96	2.27	39.71	2.81	32.08
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.43	48.93	3.12	53.90	3.30	50.91	3.28	51.17
NORTH LOOP (IH 610) to SAM HOUSTON PKWY	9.70	13.33	43.65	14.52	40.09	16.83	34.57	14.89	39.07
N SAM HOUSTON PKWY to WILL CLAYTON PKWY	3.10	5.43	34.23	4.23	43.94	5.28	35.21	4.98	37.32
WILL CLAYTON PKWY to FM 1960	1.70	1.92	53.22	3.17	32.21	2.53	40.26	2.54	40.18
FM 1960 to KINGWOOD DR @ US 59 M/L	3.50	4.45	47.19	4.05	51.85	4.50	46.67	4.33	48.46
TOTAL(S)	22.90	32.93	41.72	34.77	39.52	37.83	36.32	35.18	39.06

ACTIVITY CENTER : Kingwood via Hardy Toll Road
 DIRECTION : Inbound Toward the CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE		
								TIME	SPEED	
KINGWOOD DR @ US 59 M/L to FM 1960	3.25	4.95	39.39	4.57	42.70	5.63	34.62	5.05	38.61	
FM 1960 to WILL CLAYTON PKWY	1.70	2.72	37.54	2.58	39.49	2.28	44.68	2.53	40.35	
WILL CLAYTON PKWY to N SAM HOUSTON PKWY	3.10	3.12	59.67	3.95	47.09	3.85	48.31	3.64	51.11	
US 59 N (EASTEX) to JFK BLVD	2.10	2.72	46.37	3.85	32.73	2.70	46.67	3.09	40.79	
JFK BLVD to HARDY TOLL BOOTH FR ROAD	3.95	5.33	44.44	5.13	46.17	5.62	42.19	5.36	44.21	
TOLL BOOTH S. OF BELTWAY 8 to HARDY EXIT	8.20	9.03	54.47	10.52	46.78	9.73	50.55	9.76	50.40	
HARDY EXIT to EASTEX @ NORTH LOOP	0.85	1.18	43.11	1.55	32.90	1.33	38.26	1.36	37.63	
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	1.40	5.17	16.26	8.37	10.04	6.88	12.20	6.81	12.34	
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	2.18	38.48	1.78	47.11	2.40	35.00	2.12	39.59	
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	2.33	11.57	2.05	13.17	1.97	13.73	2.12	12.76	
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.97	12.41	0.50	24.00	1.17	10.28	0.88	13.67	
TOTAL(S)		26.60	39.70	40.20	44.85	35.59	43.57	36.63	42.71	37.37

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE	
								TIME	SPEED
KINGWOOD DR @ US 59 M/L to FM 1960	3.25	3.93	49.58	4.07	47.95	.	.	4.00	48.75
FM 1960 to WILL CLAYTON PKWY	1.70	2.02	50.57	1.70	60.00	.	.	1.86	54.88
WILL CLAYTON PKWY to N SAM HOUSTON PKWY	3.10	3.00	62.00	3.52	52.89	.	.	3.26	57.08
US 59 N (EASTEX) to JFK BLVD	2.10	3.83	32.87	.	.	.	.	3.83	32.87
JFK BLVD to HARDY TOLL BOOTH FR ROAD	3.95	4.98	47.56	.	.	.	.	4.98	47.56
TOLL BOOTH S. OF BELTWAY 8 to HARDY EXIT	8.20	10.50	46.86	.	.	.	.	10.50	46.86
HARDY EXIT to EASTEX @ NORTH LOOP	0.85	0.83	61.22	.	.	.	.	0.83	61.22
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	1.40	2.82	29.82	3.28	25.59	.	.	3.05	27.54
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	1.88	44.61	1.75	48.00	.	.	1.82	46.24
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.18	22.82	1.33	20.26	.	.	1.26	21.46
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.80	15.00	0.58	20.58	.	.	0.69	17.35
TOTAL(S)		26.60	35.78	44.60	16.23	98.32		36.08	44.23

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE	
								TIME	SPEED
KINGWOOD DR @ US 59 M/L to FM 1960	3.25	3.87	50.43	3.43	56.80	.	.	3.65	53.42
FM 1960 to WILL CLAYTON PKWY	1.70	1.93	52.77	1.67	61.19	.	.	1.80	56.67
WILL CLAYTON PKWY to N SAM HOUSTON PKWY	3.10	3.85	48.31	3.28	56.66	.	.	3.57	52.15
US 59 N (EASTEX) to JFK BLVD	2.10	2.80	45.00	2.48	50.75	.	.	2.64	47.70
JFK BLVD to HARDY TOLL BOOTH FR ROAD	3.95	4.07	58.27	5.63	42.07	.	.	4.85	48.87
TOLL BOOTH S. OF BELTWAY 8 to HARDY EXIT	8.20	9.13	53.87	9.90	49.70	.	.	9.52	51.70
HARDY EXIT to EASTEX @ NORTH LOOP	0.85	0.93	54.66	0.80	63.75	.	.	0.87	58.86
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	1.40	2.87	29.30	2.77	30.36	.	.	2.82	29.82
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	2.43	34.53	1.65	50.91	.	.	2.04	41.15
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.22	22.19	1.60	16.88	.	.	1.41	19.17
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.72	16.74	0.50	24.00	.	.	0.61	19.72
TOTAL(S)		26.60	33.82	47.20	33.72	47.34		33.77	47.27

ACTIVITY CENTER : Kingwood via Hardy Toll Road
 DIRECTION : Outbound From the CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	2.08	17.28	2.42	14.89	.	.	2.25	16.00
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.98	30.17	2.87	31.39	.	.	2.93	30.77
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.47	48.46	3.00	56.00	.	.	3.23	51.96
EASTEX @ NORTH LOOP to HARDY TOLL EXIT	0.85	1.25	40.80	0.93	54.66	.	.	1.09	46.72
HARDY EXIT to TOLL BOOTH S. OF BELTWAY 8	8.20	10.33	47.61	10.57	46.56	.	.	10.45	47.08
HARDY TOLL BOOTH FR ROAD to JFK BLVD	3.95	4.83	49.04	5.88	40.29	.	.	5.36	44.23
JFK BLVD to US 59 N (EASTEX)	2.10	2.83	44.48	3.28	38.38	.	.	3.06	41.20
N SAM HOUSTON PKWY to WILL CLAYTON PKWY	3.10	3.67	50.72	3.10	60.00	.	.	3.38	54.97
WILL CLAYTON PKWY to FM 1960	1.70	1.97	51.86	1.33	76.52	.	.	1.65	61.82
FM 1960 to KINGWOOD DR @ US 59 M/L	3.25	3.87	50.43	3.67	53.18	.	.	3.77	51.77
TOTAL(S)	28.05	37.28	45.14	37.05	45.43	.	.	37.17	45.28

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.57	22.97	.	.	.	.	1.57	22.97
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.27	39.70	.	.	.	.	2.27	39.70
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	2.70	62.22	.	.	.	.	2.70	62.22
EASTEX @ NORTH LOOP to HARDY TOLL EXIT	0.85	1.03	49.37	.	.	.	.	1.03	49.37
HARDY EXIT to TOLL BOOTH S. OF BELTWAY 8	8.20	9.73	50.55	.	.	.	.	9.73	50.55
HARDY TOLL BOOTH FR ROAD to JFK BLVD	3.95	5.68	41.70	.	.	.	.	5.68	41.70
JFK BLVD to US 59 N (EASTEX)	2.10	2.48	50.75	.	.	.	.	2.48	50.75
N SAM HOUSTON PKWY to WILL CLAYTON PKWY	3.10	3.02	61.65	.	.	.	.	3.02	61.65
WILL CLAYTON PKWY to FM 1960	1.70	1.30	78.46	.	.	.	.	1.30	78.46
FM 1960 to KINGWOOD DR @ US 59 M/L	3.25	4.03	48.35	.	.	.	.	4.03	48.35
TOTAL(S)	28.05	33.82	49.77	.	.	.	.	33.82	49.77

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.68	21.39	2.22	16.24	3.12	11.55	2.34	15.39
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.68	33.54	3.47	25.96	2.27	39.70	2.81	32.08
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.43	48.94	3.12	53.90	3.30	50.91	3.28	51.17
EASTEX @ NORTH LOOP to HARDY TOLL EXIT	0.85	1.07	47.80	0.92	55.62	0.97	52.74	0.98	51.85
HARDY EXIT to TOLL BOOTH S. OF BELTWAY 8	8.20	10.75	45.77	9.65	50.98	10.20	48.24	10.20	48.24
HARDY TOLL BOOTH FR ROAD to JFK BLVD	3.95	4.58	51.71	4.32	54.90	5.08	46.63	4.66	50.85
JFK BLVD to US 59 N (EASTEX)	2.10	6.20	20.32	5.75	21.91	5.98	21.06	5.98	21.08
N SAM HOUSTON PKWY to WILL CLAYTON PKWY	3.10	5.43	34.24	4.23	43.94	5.28	35.21	4.98	37.33
WILL CLAYTON PKWY to FM 1960	1.70	1.92	53.21	3.17	32.21	2.53	40.27	2.54	40.17
FM 1960 to KINGWOOD DR @ US 59 M/L	3.25	4.45	43.82	4.05	48.15	4.50	43.33	4.33	45.00
TOTAL(S)	28.05	42.20	39.88	40.88	41.16	43.23	38.93	42.11	39.97

ACTIVITY CENTER : SUGARLAND
 DIRECTION : INBOUND TOWARD THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		730		720		700		AVERAGE	
		RUN DATE	04/27/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
SH 6 @ US 59 to FORT BEND/HARRIS CO LINE	4.70	15.17	18.59	16.00	17.63	12.52	22.53	14.56	19.37		
FORT BEND/HARRIS CO to SAM HOUSTON TOLL	1.20	1.33	54.00	1.17	61.71	3.27	22.04	1.92	37.46		
SAM HOUSTON TOLLWAY to WESTPARK	5.90	8.22	43.08	6.68	52.97	9.40	37.66	8.10	43.70		
WESTPARK to WEST LOOP (IH 610)	1.95	2.48	47.11	2.72	43.07	3.65	32.05	2.95	39.66		
WEST LOOP (IH 610) to BUFFALO SPEEDWAY	2.00	1.80	66.67	1.70	70.59	1.85	64.86	1.78	67.29		
BUFFALO SPEEDWAY to SPUR 527 @ LOUISIANA	3.10	4.20	44.29	3.50	53.14	3.17	58.74	3.62	51.35		
SPUR 527 @ LOUISIANA to LA. @ MCKINNEY	1.50	3.37	26.73	3.80	23.68	3.87	23.28	3.68	24.47		
LOUISIANA @ MCKINNEY to MAIN @ MCKINNEY	0.20	0.60	20.00	1.92	6.26	2.28	5.26	1.60	7.50		
TOTAL(S)		20.55	37.17	33.17	37.48	32.89	40.00	30.82	38.22	32.26	

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1115						AVERAGE	
		RUN DATE	05/17/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
SH 6 @ US 59 to FORT BEND/HARRIS CO LINE	4.70	4.77	59.16	.	.	.	.	.	.	4.77	59.16
FORT BEND/HARRIS CO to SAM HOUSTON TOLL	1.20	1.13	63.53	.	.	.	.	.	.	1.13	63.53
SAM HOUSTON TOLLWAY to WESTPARK	5.90	5.08	69.64	.	.	.	.	.	.	5.08	69.64
WESTPARK to WEST LOOP (IH 610)	1.95	2.63	44.43	.	.	.	.	.	.	2.63	44.43
WEST LOOP (IH 610) to BUFFALO SPEEDWAY	2.00	1.93	62.07	.	.	.	.	.	.	1.93	62.07
BUFFALO SPEEDWAY to SPUR 527 @ LOUISIANA	3.10	4.45	41.80	.	.	.	.	.	.	4.45	41.80
SPUR 527 @ LOUISIANA to LA. @ MCKINNEY	1.50	4.28	21.01	.	.	.	.	.	.	4.28	21.01
LOUISIANA @ MCKINNEY to MAIN @ MCKINNEY	0.20	0.52	23.23	.	.	.	.	.	.	0.52	23.23
TOTAL(S)		20.55	24.80	49.72	.	.	.	.	.	24.80	49.72

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1700		1645				AVERAGE	
		RUN DATE	04/29/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
SH 6 @ US 59 to FORT BEND/HARRIS CO LINE	4.70	4.42	63.85	4.43	63.61	.	.	.	.	4.43	63.73
FORT BEND/HARRIS CO to SAM HOUSTON TOLL	1.20	1.15	62.61	1.15	62.61	.	.	.	.	1.15	62.61
SAM HOUSTON TOLLWAY to WESTPARK	5.90	5.63	62.84	5.77	61.39	.	.	.	.	5.70	62.11
WESTPARK to WEST LOOP (IH 610)	1.95	1.98	58.99	1.98	58.99	.	.	.	.	1.98	58.99
WEST LOOP (IH 610) to BUFFALO SPEEDWAY	2.00	1.88	63.72	1.78	67.29	.	.	.	.	1.83	65.45
BUFFALO SPEEDWAY to SPUR 527 @ LOUISIANA	3.10	3.68	50.50	2.78	66.83	.	.	.	.	3.23	57.53
SPUR 527 @ LOUISIANA to LA. @ MCKINNEY	1.50	4.63	19.42	5.13	17.53	.	.	.	.	4.88	18.43
LOUISIANA @ MCKINNEY to MAIN @ MCKINNEY	0.20	1.32	9.11	1.05	11.43	.	.	.	.	1.18	10.14
TOTAL(S)		20.55	24.70	49.92	24.08	51.20	.	.	.	24.39	50.55

ACTIVITY CENTER : SUGARLAND
 DIRECTION : OUTBOUND FROM THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		800		745		AVERAGE			
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED	
WALKER @ MAIN to WALKER @ SMITH	0.25	0.78	19.15	1.28	11.69	.	.	.	.	1.03	14.52
WALKER @ SMITH to SMITH @ JEFFERSON	0.55	2.82	11.72	1.47	22.50	.	.	.	.	2.14	15.41
SMITH @ JEFFERSON to BUFFALO SPEEDWAY	4.20	5.78	43.57	5.03	50.07	.	.	.	.	5.41	46.59
BUFFALO SPEEDWAY to WEST LOOP (IH 610)	2.00	2.00	60.00	1.82	66.06	.	.	.	.	1.91	62.88
WEST LOOP (IH 610) to WESTPARK	1.95	2.07	56.61	1.80	65.00	.	.	.	.	1.93	60.52
WESTPARK to SAM HOUSTON TOLLWAY	5.90	5.95	59.50	5.45	64.95	.	.	.	.	5.70	62.11
SAM HOUSTON TOLL to HARRIS/FORT BEND CO	1.20	1.20	60.00	1.15	62.61	.	.	.	.	1.18	61.28
HARRIS/FORT BEND CO LINE to SH 6 @ US 59	4.70	4.78	58.95	4.22	66.88	.	.	.	.	4.50	62.67
TOTAL(S)	20.75	25.38	49.05	22.22	56.04	.	.	.	.	23.80	52.31

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1045		AVERAGE					
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED	
WALKER @ MAIN to WALKER @ SMITH	0.25	0.83	18.00	.	.	.	.	.	.	0.83	18.00
WALKER @ SMITH to SMITH @ JEFFERSON	0.55	1.67	19.80	.	.	.	.	.	.	1.67	19.80
SMITH @ JEFFERSON to BUFFALO SPEEDWAY	4.20	6.08	41.42	.	.	.	.	.	.	6.08	41.42
BUFFALO SPEEDWAY to WEST LOOP (IH 610)	2.00	2.02	59.50	.	.	.	.	.	.	2.02	59.50
WEST LOOP (IH 610) to WESTPARK	1.95	1.95	60.00	.	.	.	.	.	.	1.95	60.00
WESTPARK to SAM HOUSTON TOLLWAY	5.90	5.90	60.00	.	.	.	.	.	.	5.90	60.00
SAM HOUSTON TOLL to HARRIS/FORT BEND CO	1.20	1.18	60.85	.	.	.	.	.	.	1.18	60.85
HARRIS/FORT BEND CO LINE to SH 6 @ US 59	4.70	4.88	57.75	.	.	.	.	.	.	4.88	57.75
TOTAL(S)	20.75	24.52	50.78	.	.	.	.	.	.	24.52	50.78

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1645		1702		1715		AVERAGE			
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED	
WALKER @ MAIN to WALKER @ SMITH	0.25	1.83	8.18	0.80	18.75	1.20	12.50	1.28	11.74	.	.		
WALKER @ SMITH to SMITH @ JEFFERSON	0.55	2.97	11.12	1.90	17.37	1.95	16.92	2.27	14.52	.	.		
SMITH @ JEFFERSON to BUFFALO SPEEDWAY	4.20	5.95	42.35	6.63	37.99	5.28	47.70	5.96	42.31	.	.		
BUFFALO SPEEDWAY to WEST LOOP (IH 610)	2.00	2.10	57.14	2.08	57.60	1.92	62.61	2.03	59.02	.	.		
WEST LOOP (IH 610) to WESTPARK	1.95	2.18	53.59	2.05	57.07	1.82	64.40	2.02	58.02	.	.		
WESTPARK to SAM HOUSTON TOLLWAY	5.90	5.82	60.86	5.80	61.03	5.77	61.39	5.79	61.09	.	.		
SAM HOUSTON TOLL to HARRIS/FORT BEND CO	1.20	1.32	54.68	1.20	60.00	1.63	44.08	1.38	52.05	.	.		
HARRIS/FORT BEND CO LINE to SH 6 @ US 59	4.70	5.90	47.80	5.22	54.06	5.52	51.12	5.54	50.86	.	.		
TOTAL(S)	20.75	28.07	44.36	25.68	48.48	25.08	49.63	26.28	47.38	.	.		

ACTIVITY CENTER : TERMINAL 'B' - IAC
DIRECTION : INBOUND TOWARD THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 740		700		725		AVERAGE	
		RUN DATE : 05/05/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
TERMINAL B to JOHN F KENNEDY	0.75	1.60	28.13	1.60	28.13	1.15	39.13	1.45	31.03
JOHN F KENNEDY to LEE ROAD	2.00	1.62	74.23	3.75	32.00	3.50	34.29	2.96	40.60
LEE ROAD to WILL CLAYTON @ US 59 FR RD	1.90	2.48	45.91	2.13	53.44	2.08	54.72	2.23	51.04
WILL CLAYTON @ US 59 to SAM HOUSTON PKWY	3.10	4.18	44.46	3.30	56.36	3.72	50.04	3.73	49.82
SAM HOUSTON PKWY to NORTH LOOP (IH 610)	9.70	12.88	45.17	16.77	34.71	16.90	34.44	15.52	37.51
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	2.80	4.25	39.53	3.70	45.41	8.02	20.96	5.32	31.57
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	1.92	43.83	2.62	32.10	2.40	35.00	2.31	36.35
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	0.98	27.46	1.30	20.77	1.92	14.09	1.40	19.29
CAPITOL @ FANNIN to WALKER	0.20	0.72	16.74	0.90	13.33	0.50	24.00	0.71	17.01
TOTAL(S)		22.30	30.63	43.68	36.07	37.10	40.18	33.30	35.63
									37.55

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1546		1546		1546		AVERAGE	
		RUN DATE : 05/04/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
TERMINAL B to JOHN F KENNEDY	0.75	1.00	45.00	.	.	.	.	1.00	45.00
JOHN F KENNEDY to LEE ROAD	2.00	2.58	46.45	.	.	.	.	2.58	46.45
LEE ROAD to WILL CLAYTON @ US 59 FR RD	1.90	2.47	46.22	.	.	.	.	2.47	46.22
WILL CLAYTON @ US 59 to SAM HOUSTON PKWY	3.10	3.10	60.00	.	.	.	.	3.10	60.00
SAM HOUSTON PKWY to NORTH LOOP (IH 610)	9.70	9.62	60.52	.	.	.	.	9.62	60.52
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	2.80	2.90	57.93	.	.	.	.	2.90	57.93
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	1.58	53.05	.	.	.	.	1.58	53.05
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	2.32	11.65	.	.	.	.	2.32	11.65
CAPITOL @ FANNIN to WALKER	0.20	0.20	60.00	.	.	.	.	0.20	60.00
TOTAL(S)		22.30	25.77	51.93	.	.	.	25.77	51.93

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME : 1630		1630		1700		AVERAGE	
		RUN DATE : 05/06/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
TERMINAL B to JOHN F KENNEDY	0.75	1.72	26.21	1.32	34.18	.	.	1.52	29.67
JOHN F KENNEDY to LEE ROAD	2.00	3.87	31.03	3.35	35.82	.	.	3.61	33.26
LEE ROAD to WILL CLAYTON @ US 59 FR RD	1.90	2.23	51.04	1.85	61.62	.	.	2.04	55.84
WILL CLAYTON @ US 59 to SAM HOUSTON PKWY	3.10	3.78	49.16	4.20	44.29	.	.	3.99	46.60
SAM HOUSTON PKWY to NORTH LOOP (IH 610)	9.70	13.27	43.87	10.40	55.96	.	.	11.83	49.18
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	2.80	3.35	50.15	3.27	51.43	.	.	3.31	50.78
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	2.30	36.52	3.82	22.01	.	.	3.06	27.47
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	0.67	40.50	1.20	22.50	.	.	0.93	28.93
CAPITOL @ FANNIN to WALKER	0.20	0.88	13.58	0.63	18.95	.	.	0.76	15.82
TOTAL(S)		22.30	32.07	41.73	30.03	44.55	.	31.05	43.09

ACTIVITY CENTER : TERMINAL 'B' - IAC
DIRECTION : OUTBOUND FROM THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		700		740		AVERAGE	
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	
McKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.62	22.27	1.70	21.18	.	.	1.66	21.71
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	1.90	47.37	1.85	48.65	.	.	1.88	48.00
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.25	51.69	3.10	54.19	.	.	3.18	52.91
NORTH LOOP (IH 610) to SAM HOUSTON PKWY	9.70	9.90	58.79	11.42	50.98	.	.	10.66	54.61
SAM HOUSTON PKWY to WILL CLAYTON @ US 59	3.10	3.37	55.25	3.37	55.25	.	.	3.37	55.25
WILL CLAYTON @ US 59N to LEE ROAD	1.90	2.72	41.96	2.20	51.82	.	.	2.46	46.37
LEE ROAD to JOHN F KENNEDY	2.00	3.10	38.71	3.18	37.70	.	.	3.14	38.20
JOHN F KENNEDY to TERMINAL B	0.75	1.03	43.55	1.55	29.03	.	.	1.29	34.84
TOTAL(S)		22.35	26.88	49.88	28.37	47.27		27.62	48.54

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1515				AVERAGE	
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	
McKINNEY @ MAIN to WALKER @ US 59 N	0.60	2.05	17.56	.	.	.	.	2.05	17.56
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.05	43.90	.	.	.	.	2.05	43.90
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.30	50.91	.	.	.	.	3.30	50.91
NORTH LOOP (IH 610) to SAM HOUSTON PKWY	9.70	11.03	52.75	.	.	.	.	11.03	52.75
SAM HOUSTON PKWY to WILL CLAYTON @ US 59	3.10	3.25	57.23	.	.	.	.	3.25	57.23
WILL CLAYTON @ US 59N to LEE ROAD	1.90	2.43	46.85	.	.	.	.	2.43	46.85
LEE ROAD to JOHN F KENNEDY	2.00	3.08	38.92	.	.	.	.	3.08	38.92
JOHN F KENNEDY to TERMINAL B	0.75	1.33	33.75	.	.	.	.	1.33	33.75
TOTAL(S)		22.35	28.53	47.00		.	.	28.53	47.00

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1630		1700		1720		AVERAGE	
		RUN DATE	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED	
McKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.98	18.15	1.93	18.62	1.78	20.19	1.90	18.95		
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	3.18	28.27	2.08	43.20	1.53	58.70	2.27	39.71		
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.00	56.00	4.35	38.62	4.77	35.24	4.04	41.60		
NORTH LOOP (IH 610) to SAM HOUSTON PKWY	9.70	16.88	34.47	14.92	39.02	16.43	35.42	16.08	36.20		
SAM HOUSTON PKWY to WILL CLAYTON @ US 59	3.10	5.57	33.41	6.65	27.97	4.30	43.26	5.51	33.78		
WILL CLAYTON @ US 59N to LEE ROAD	1.90	2.45	46.53	2.77	41.20	2.18	52.21	2.47	46.22		
LEE ROAD to JOHN F KENNEDY	2.00	3.87	31.03	4.02	29.88	3.28	36.55	3.72	32.24		
JOHN F KENNEDY to TERMINAL B	0.75	0.90	50.00	1.25	36.00	0.92	49.09	1.02	44.02		
TOTAL(S)		22.35	37.83	35.44	37.97	35.32	35.20	38.10	37.00	36.24	

ACTIVITY CENTER : Terminal 'B' - IAC via Hardy Toll Road
DIRECTION : Inbound Toward the CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE	
								TIME	SPEED
TERMINAL B to WILL CLAYTON PARKWAY	0.75	1.65	27.27	1.22	36.98	1.07	42.17	1.31	34.32
WILL CLAYTON PARKWAY to JFK BLVD @ BW 8	3.10	4.87	38.22	4.95	37.58	5.27	35.31	5.03	36.99
JFK BLVD @ BW 8 to HARDY TOLL BOOTH (FR)	3.95	6.45	36.74	5.33	44.44	5.38	44.03	5.72	41.42
TOLL BOOTH S. OF BELTWAY 8 to HARDY EXIT	8.20	9.03	54.47	10.52	46.78	9.73	50.55	9.76	50.40
HARDY EXIT to EASTEX @ NORTH LOOP	0.85	1.18	43.11	1.55	32.90	1.33	38.26	1.36	37.63
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	1.40	5.17	16.26	8.37	10.04	6.88	12.20	6.81	12.34
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	2.18	38.48	1.78	47.11	2.40	35.00	2.12	39.59
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	2.33	11.57	2.05	13.17	1.97	13.73	2.12	12.76
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.97	12.41	0.50	24.00	1.17	10.28	0.88	13.67
TOTAL(S)	20.30	33.83	36.00	36.27	33.58	35.20	34.60	35.10	34.70

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE	
								TIME	SPEED
TERMINAL B to WILL CLAYTON PARKWAY	0.75	1.05	42.86	.	.	.	.	1.05	42.86
WILL CLAYTON PARKWAY to JFK BLVD @ BW 8	3.10	3.20	58.13	.	.	.	.	3.20	58.13
JFK BLVD @ BW 8 to HARDY TOLL BOOTH (FR)	3.95	4.38	54.07	.	.	.	.	4.38	54.07
TOLL BOOTH S. OF BELTWAY 8 to HARDY EXIT	8.20	10.50	46.86	.	.	.	.	10.50	46.86
HARDY EXIT to EASTEX @ NORTH LOOP	0.85	0.83	61.22	.	.	.	.	0.83	61.22
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	1.40	2.82	29.82	3.28	25.59	.	.	3.05	27.54
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	1.88	44.61	1.75	48.00	.	.	1.82	46.24
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.18	22.82	1.33	20.26	.	.	1.26	21.46
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.80	15.00	0.58	20.58	.	.	0.69	17.35
TOTAL(S)	20.30	26.65	45.71	6.95	175.3	.	.	26.78	45.48

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE	
								TIME	SPEED
TERMINAL B to WILL CLAYTON PARKWAY	0.75	1.08	41.55	0.80	56.25	.	.	0.94	47.80
WILL CLAYTON PARKWAY to JFK BLVD @ BW 8	3.10	5.53	33.62	5.03	36.96	.	.	5.28	35.21
JFK BLVD @ BW 8 to HARDY TOLL BOOTH (FR)	3.95	6.25	37.92	5.42	43.75	.	.	5.83	40.63
TOLL BOOTH S. OF BELTWAY 8 to HARDY EXIT	8.20	9.13	53.87	9.90	49.70	.	.	9.52	51.70
HARDY EXIT to EASTEX @ NORTH LOOP	0.85	0.93	54.66	0.80	63.75	.	.	0.87	58.86
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	1.40	2.87	29.30	2.77	30.36	.	.	2.82	29.82
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	2.43	34.53	1.65	50.91	.	.	2.04	41.15
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.22	22.19	1.60	16.88	.	.	1.41	19.17
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.72	16.74	0.50	24.00	.	.	0.61	19.72
TOTAL(S)	20.30	30.17	40.38	28.47	42.79	.	.	29.32	41.55

ACTIVITY CENTER : Terminal 'B' - IAC via Hardy Toll Road
 DIRECTION : Outbound From the CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	2.08	17.28	2.42	14.89	.	.	2.25	16.00
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.98	30.17	2.87	31.39	.	.	2.93	30.77
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.47	48.46	3.00	56.00	.	.	3.23	51.96
EASTEX @ NORTH LOOP to HARDY TOLL EXIT	0.85	1.25	40.80	0.93	54.66	.	.	1.09	46.72
HARDY EXIT to TOLL BOOTH S. OF BELTWAY 8	8.20	10.33	47.61	10.57	46.56	.	.	10.45	47.08
HARDY TOLL BOOTH (FR) to JFK BLVD @ BW 8	3.95	6.45	36.74	4.93	48.04	.	.	5.69	41.64
JFK BLVD @ BW 8 to WILL CLAYTON PARKWAY	3.10	4.85	38.35	5.17	36.00	.	.	5.01	37.14
WILL CLAYTON PARKWAY to TERMINAL B	0.75	1.75	25.71	1.07	42.17	.	.	1.41	31.95
TOTAL(S)	21.75	33.17	39.35	30.95	42.16	.	.	32.06	40.71

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.57	22.97	.	.	.	.	1.57	22.97
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.27	39.70	.	.	.	.	2.27	39.70
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	2.70	62.22	.	.	.	.	2.70	62.22
EASTEX @ NORTH LOOP to HARDY TOLL EXIT	0.85	1.03	49.37	.	.	.	.	1.03	49.37
HARDY EXIT to TOLL BOOTH S. OF BELTWAY 8	8.20	9.73	50.55	.	.	.	.	9.73	50.55
HARDY TOLL BOOTH (FR) to JFK BLVD @ BW 8	3.95	4.20	56.43	.	.	.	.	4.20	56.43
JFK BLVD @ BW 8 to WILL CLAYTON PARKWAY	3.10	5.18	35.89	.	.	.	.	5.18	35.89
WILL CLAYTON PARKWAY to TERMINAL B	0.75	1.05	42.86	.	.	.	.	1.05	42.86
TOTAL(S)	21.75	27.73	47.06	.	.	.	.	27.73	47.06

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.68	21.39	2.22	16.24	3.12	11.55	2.34	15.39
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.68	33.54	3.47	25.96	2.27	39.70	2.81	32.08
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.43	48.94	3.12	53.90	3.30	50.91	3.28	51.17
EASTEX @ NORTH LOOP to HARDY TOLL EXIT	0.85	1.07	47.80	0.92	55.62	0.97	52.74	0.98	51.85
HARDY EXIT to TOLL BOOTH S. OF BELTWAY 8	8.20	10.75	45.77	9.65	50.98	10.20	48.24	10.20	48.24
HARDY TOLL BOOTH (FR) to JFK BLVD @ BW 8	3.95	5.07	46.77	5.47	43.35	5.33	44.44	5.29	44.81
JFK BLVD @ BW 8 to WILL CLAYTON PARKWAY	3.10	4.82	38.61	8.98	20.71	9.17	20.29	7.66	24.30
WILL CLAYTON PARKWAY to TERMINAL B	0.75	1.07	42.17	1.12	40.29	0.98	45.78	1.06	42.63
TOTAL(S)	21.75	30.57	42.69	34.93	37.36	35.33	36.93	33.61	38.83

ACTIVITY CENTER : WOODLANDS
 DIRECTION : INBOUND TOWARD THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		710		740		700		AVERAGE	
		RUN DATE	05/04/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
WOODLANDS PKWY @ IH 45 to SPRING CRK	3.30	2.95	67.12	4.07	48.69	6.40	30.94	4.47	44.27		
SPRING CREEK (CO LINE) to FM 1960	6.10	10.57	34.64	6.70	54.63	5.13	71.30	7.47	49.02		
FM 1960 to SAM HOUSTON PKWY	5.70	11.65	29.36	13.07	26.17	7.23	47.28	10.65	32.11		
SAM HOUSTON PKWY to SH 249	2.90	2.42	72.00	3.08	56.43	1.48	117.3	2.33	74.75		
SH 249 to NORTH SHEPHERD	1.55	2.50	37.20	1.58	58.74	2.20	42.27	2.09	44.40		
NORTH SHEPHERD to NORTH LOOP (IH 610)	4.85	8.83	32.94	5.10	57.06	10.08	28.86	8.01	36.35		
NORTH LOOP (IH 610) to IH 10 @ HOGAN ST	2.90	4.50	38.67	3.20	54.38	4.83	36.00	4.18	41.65		
IH 10 @ HOGAN ST to MCKINNEY @ MAIN	1.70	2.45	41.63	2.85	35.79	4.60	22.17	3.30	30.91		
TOTAL(S)		29.00	45.87	37.94	39.65	43.88	41.97	41.46	42.49	40.95	

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1315						AVERAGE	
		RUN DATE	04/30/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
WOODLANDS PKWY @ IH 45 to SPRING CRK	3.30	3.28	60.30	.	.	.	.	.	.	3.28	60.30
SPRING CREEK (CO LINE) to FM 1960	6.10	6.20	59.03	.	.	.	.	.	.	6.20	59.03
FM 1960 to SAM HOUSTON PKWY	5.70	6.03	56.69	.	.	.	.	.	.	6.03	56.69
SAM HOUSTON PKWY to SH 249	2.90	2.90	60.00	.	.	.	.	.	.	2.90	60.00
SH 249 to NORTH SHEPHERD	1.55	1.60	58.12	.	.	.	.	.	.	1.60	58.12
NORTH SHEPHERD to NORTH LOOP (IH 610)	4.85	4.72	61.70	.	.	.	.	.	.	4.72	61.70
NORTH LOOP (IH 610) to IH 10 @ HOGAN ST	2.90	2.88	60.35	.	.	.	.	.	.	2.88	60.35
IH 10 @ HOGAN ST to MCKINNEY @ MAIN	1.70	2.55	40.00	.	.	.	.	.	.	2.55	40.00
TOTAL(S)		29.00	30.17	57.68	.	.	.	.	.	30.17	57.68

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1745		1725				AVERAGE	
		RUN DATE	05/03/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
WOODLANDS PKWY @ IH 45 to SPRING CRK	3.30	3.25	60.92	3.30	60.00	.	.	.	.	3.28	60.46
SPRING CREEK (CO LINE) to FM 1960	6.10	6.42	57.04	6.32	57.94	.	.	.	.	6.37	57.49
FM 1960 to SAM HOUSTON PKWY	5.70	5.28	64.73	6.07	56.37	.	.	.	.	5.68	60.26
SAM HOUSTON PKWY to SH 249	2.90	2.83	61.41	2.88	60.35	.	.	.	.	2.86	60.87
SH 249 to NORTH SHEPHERD	1.55	1.53	60.65	1.62	57.53	.	.	.	.	1.57	59.05
NORTH SHEPHERD to NORTH LOOP (IH 610)	4.85	4.48	64.91	4.70	61.91	.	.	.	.	4.59	63.38
NORTH LOOP (IH 610) to IH 10 @ HOGAN ST	2.90	2.70	64.44	2.88	60.35	.	.	.	.	2.79	62.33
IH 10 @ HOGAN ST to MCKINNEY @ MAIN	1.70	3.20	31.88	2.55	40.00	.	.	.	.	2.88	35.48
TOTAL(S)		29.00	29.70	58.59	30.32	57.39	.	.	.	30.01	57.98

ACTIVITY CENTER : WOODLANDS
 DIRECTION : OUTBOUND FROM THE CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		700		730		AVERAGE			
		RUN DATE	05/04/93	05/12/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME
WALKER @ MAIN to IH 10 @ HOGAN	1.50	2.92	30.86	3.05	29.51	.	.	.	2.98	30.17	
IH 10 @ HOGAN to NORTH LOOP (IH 610)	2.90	3.05	57.05	3.22	54.09	.	.	.	3.13	55.53	
NORTH LOOP (IH 610) to NORTH SHEPHERD	4.85	4.87	59.79	4.97	58.59	.	.	.	4.92	59.19	
NORTH SHEPHERD to SH 249	1.55	1.55	60.00	2.10	44.29	.	.	.	1.83	50.96	
SH 249 to SAM HOUSTON PKWY	2.90	2.92	59.66	2.57	67.79	.	.	.	2.74	63.47	
SAM HOUSTON PKWY to FM 1960	5.70	5.87	58.30	5.90	57.97	.	.	.	5.88	58.13	
FM 1960 to SPRING CREEK (CO LINE)	6.10	6.98	52.41	6.07	60.33	.	.	.	6.53	56.09	
SPRING CRK to WOODLANDS PKWY @ IH 45	3.30	2.38	83.08	3.27	60.61	.	.	.	2.83	70.09	
TOTAL(S)	28.80	30.53	56.59	31.13	55.50	.	.	.	30.83	56.04	

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1150		AVERAGE				
		RUN DATE	04/30/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	
WALKER @ MAIN to IH 10 @ HOGAN	1.50	2.73	32.93	.	.	.	.	.	2.73	32.93
IH 10 @ HOGAN to NORTH LOOP (IH 610)	2.90	2.77	62.89	.	.	.	.	.	2.77	62.89
NORTH LOOP (IH 610) to NORTH SHEPHERD	4.85	4.65	62.58	.	.	.	.	.	4.65	62.58
NORTH SHEPHERD to SH 249	1.55	1.48	62.70	.	.	.	.	.	1.48	62.70
SH 249 to SAM HOUSTON PKWY	2.90	2.75	63.27	.	.	.	.	.	2.75	63.27
SAM HOUSTON PKWY to FM 1960	5.70	5.60	61.07	.	.	.	.	.	5.60	61.07
FM 1960 to SPRING CREEK (CO LINE)	6.10	5.97	61.34	.	.	.	.	.	5.97	61.34
SPRING CRK to WOODLANDS PKWY @ IH 45	3.30	3.37	58.81	.	.	.	.	.	3.37	58.81
TOTAL(S)	28.80	29.32	58.94	.	.	.	.	.	29.32	58.94

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	START TIME :		1700		1640		1715		AVERAGE			
		RUN DATE	05/03/93	05/10/93	05/24/93	TIME	SPEED	TIME	SPEED	TIME	SPEED	TIME	SPEED
WALKER @ MAIN to IH 10 @ HOGAN	1.50	3.12	28.88	3.23	27.84	3.83	23.48	3.39	26.51	.	.	.	.
IH 10 @ HOGAN to NORTH LOOP (IH 610)	2.90	5.37	32.42	3.40	51.18	5.70	30.53	4.82	36.08	.	.	.	.
NORTH LOOP (IH 610) to NORTH SHEPHERD	4.85	5.52	52.75	5.67	51.35	6.43	45.23	5.87	49.56	.	.	.	.
NORTH SHEPHERD to SH 249	1.55	2.72	34.23	1.40	66.43	2.45	37.96	2.19	42.49	.	.	.	.
SH 249 to SAM HOUSTON PKWY	2.90	5.75	30.26	3.03	57.36	7.25	24.00	5.34	32.56	.	.	.	.
SAM HOUSTON PKWY to FM 1960	5.70	8.82	38.79	6.08	56.22	8.40	40.71	7.77	44.03	.	.	.	.
FM 1960 to SPRING CREEK (CO LINE)	6.10	7.03	52.04	6.03	60.66	6.72	54.49	6.59	55.50	.	.	.	.
SPRING CRK to WOODLANDS PKWY @ IH 45	3.30	3.05	64.92	4.23	46.77	3.67	54.00	3.65	54.25	.	.	.	.
TOTAL(S)	28.80	41.37	41.77	33.08	52.23	44.45	38.88	39.63	43.60	.	.	.	.

ACTIVITY CENTER : The Woodlands via Hardy Toll Road
 DIRECTION : Inbound Toward the CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
WOODLANDS PKWY @ IH 45 to SPRING CRK	3.30	2.95	67.12	4.07	48.68	6.40	30.94	4.47	44.27
IH 45 @ SPRING CRK to SPRING TOLL PLAZA	4.10	4.33	56.77	4.53	54.27	4.42	55.69	4.43	55.56
SPRING TOLL PLAZA to BOOTH S OF BELTWAY	9.45	12.60	45.00	9.70	58.45	11.10	51.08	11.13	50.93
TOLL BOOTH S. OF BELTWAY 8 to HARDY EXIT	8.20	9.03	54.47	10.52	46.78	9.73	50.55	9.76	50.40
HARDY EXIT to EASTEX @ NORTH LOOP	0.85	1.18	43.11	1.55	32.90	1.33	38.26	1.36	37.63
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	2.80	5.17	32.51	8.37	20.08	6.88	24.41	6.81	24.69
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	2.18	38.48	1.78	47.11	2.40	35.00	2.12	39.59
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	2.33	11.57	2.05	13.17	1.97	13.73	2.12	12.76
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.97	12.41	0.50	24.00	1.17	10.28	0.88	13.67
TOTAL(S)	30.75	40.75	45.28	43.07	42.84	45.40	40.64	43.07	42.84

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
WOODLANDS PKWY @ IH 45 to SPRING CRK	3.30	3.28	60.31	.	.	.	.	3.28	60.31
IH 45 @ SPRING CRK to SPRING TOLL PLAZA	4.10	4.33	56.77	.	.	.	.	4.33	56.77
SPRING TOLL PLAZA to BOOTH S OF BELTWAY	9.45	11.00	51.55	.	.	.	.	11.00	51.55
TOLL BOOTH S. OF BELTWAY 8 to HARDY EXIT	8.20	10.50	46.86	.	.	.	.	10.50	46.86
HARDY EXIT to EASTEX @ NORTH LOOP	0.85	0.83	61.22	.	.	.	.	0.83	61.22
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	2.80	2.82	59.64	3.28	51.17	.	.	3.05	55.08
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	1.88	44.61	1.75	48.00	.	.	1.82	46.24
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.18	22.82	1.33	20.26	.	.	1.26	21.46
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.80	15.00	0.58	20.58	.	.	0.69	17.35
TOTAL(S)	30.75	36.68	50.37	6.95	265.5	.	.	36.76	50.18

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
WOODLANDS PKWY @ IH 45 to SPRING CRK	3.30	3.25	60.92	3.30	60.00	.	.	3.28	60.46
IH 45 @ SPRING CRK to SPRING TOLL PLAZA	4.10	4.60	53.48	4.88	50.38	.	.	4.74	51.88
SPRING TOLL PLAZA to BOOTH S OF BELTWAY	9.45	9.00	63.00	9.08	62.42	.	.	9.04	62.71
TOLL BOOTH S. OF BELTWAY 8 to HARDY EXIT	8.20	9.13	53.87	9.90	49.70	.	.	9.52	51.70
HARDY EXIT to EASTEX @ NORTH LOOP	0.85	0.93	54.66	0.80	63.75	.	.	0.87	58.86
NORTH LOOP (IH 610) to EAST FWY (IH 10E)	2.80	2.87	58.60	2.77	60.72	.	.	2.82	59.64
EAST FWY (IH 10E) to CAPITOL @ CHENEVERT	1.40	2.43	34.53	1.65	50.91	.	.	2.04	41.15
CAPITOL @ CHENEVERT to CAPITOL @ FANNIN	0.45	1.22	22.19	1.60	16.88	.	.	1.41	19.17
CAPITOL @ FANNIN to FANNIN @ WALKER	0.20	0.72	16.74	0.50	24.00	.	.	0.61	19.72
TOTAL(S)	30.75	34.15	54.03	34.48	53.50	.	.	34.32	53.76

ACTIVITY CENTER : The Woodlands via Hardy Toll Road
 DIRECTION : Outbound From the CBD

TIME PERIOD : A.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	2.08	17.28	2.42	14.89	.	.	2.25	16.00
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.98	30.17	2.87	31.39	.	.	2.93	30.77
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.47	48.46	3.00	56.00	.	.	3.23	51.96
EASTEX @ NORTH LOOP to HARDY TOLL EXIT	0.85	1.25	40.80	0.93	54.66	.	.	1.09	46.72
HARDY EXIT to TOLL BOOTH S. OF BELTWAY 8	8.20	10.33	47.61	10.57	46.56	.	.	10.45	47.08
BOOTH S OF BELTWAY to SPRING TOLL PLAZA	9.45	10.37	54.69	9.93	57.08	.	.	10.15	55.86
SPRING TOLL PLAZA to IH 45 @ SPRING CRK	4.10	5.38	45.70	4.93	49.87	.	.	5.16	47.69
SPRING CRK to WOODLANDS PKWY @ IH 45	3.30	2.38	83.09	3.27	60.61	.	.	2.83	70.09
TOTAL(S)	30.80	38.25	48.31	37.92	48.74	.	.	38.08	48.53

TIME PERIOD : OFF PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.57	22.97	.	.	.	.	1.57	22.97
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.27	39.70	.	.	.	.	2.27	39.70
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	2.70	62.22	.	.	.	.	2.70	62.22
EASTEX @ NORTH LOOP to HARDY TOLL EXIT	0.85	1.03	49.37	.	.	.	.	1.03	49.37
HARDY EXIT to TOLL BOOTH S. OF BELTWAY 8	8.20	9.73	50.55	.	.	.	.	9.73	50.55
BOOTH S OF BELTWAY to SPRING TOLL PLAZA	9.45	8.90	63.71	.	.	.	.	8.90	63.71
SPRING TOLL PLAZA to IH 45 @ SPRING CRK	4.10	4.40	55.91	.	.	.	.	4.40	55.91
SPRING CRK to WOODLANDS PKWY @ IH 45	3.30	3.37	58.81	.	.	.	.	3.37	58.81
TOTAL(S)	30.80	33.97	54.41	.	.	.	.	33.97	54.41

TIME PERIOD : P.M. PEAK

SEGMENT DESCRIPTION	LENGTH	TIME	SPEED	TIME	SPEED	TIME	SPEED	AVERAGE TIME	AVERAGE SPEED
MCKINNEY @ MAIN to WALKER @ US 59 N	0.60	1.68	21.39	2.22	16.24	3.12	11.55	2.34	15.39
WALKER @ US 59 N to EAST FWY (IH 10E)	1.50	2.68	33.54	3.47	25.96	2.27	39.70	2.81	32.08
EAST FWY (IH 10E) to NORTH LOOP (IH 610)	2.80	3.43	48.94	3.12	53.90	3.30	50.91	3.28	51.17
EASTEX @ NORTH LOOP to HARDY TOLL EXIT	0.85	1.07	47.80	0.92	55.62	0.97	52.74	0.98	51.85
HARDY EXIT to TOLL BOOTH S. OF BELTWAY 8	8.20	10.75	45.77	9.65	50.98	10.20	48.24	10.20	48.24
BOOTH S OF BELTWAY to SPRING TOLL PLAZA	9.45	9.95	56.98	9.17	61.85	9.90	57.27	9.67	58.62
SPRING TOLL PLAZA to IH 45 @ SPRING CRK	4.10	5.23	47.01	4.70	52.34	4.43	55.49	4.79	51.37
SPRING CRK to WOODLANDS PKWY @ IH 45	3.30	3.05	64.92	4.23	46.78	3.67	54.00	3.65	54.25
TOTAL(S)	30.80	37.85	48.83	37.47	49.32	37.85	48.82	37.72	48.99