RETURN TO KW PLANNING DEPT. Tom Wilson City of K.W.

TECHNICAL REPORT NO. 87-2

ROAD JURISDICTIONS AND

TRAFFIC VOLUMES

Planning Department

City of Key West

September 19, 1987

TABLE OF CONTENTS

INTRODUCTION. 1

ROAD CLASSIFICATION AND JURISDICTION. 2
Figure 1. 1987-1992 Functional Classification of Roads. . . 3

SPECIAL TRAFFIC COUNTS. 4
Figure 2. 1984 Traffic Count Locations. 5
Table 1. 1984 Traffic Counts 6
Figure 3. 1984 Traffic Count Locations With CMA 8
Table 2. 1984 Traffic Counts With CMA. 9
Figure 4. 1986 Traffic Count Locations. 10
Table 3. 1986 Traffic Counts 11
Figure 5. 1987 Traffic Count Locations. 12
Table 4. 1987 Traffic Counts 13

COW KEY CHANNEL BRIDGE TRAFFIC COUNTS 14
Table 5. Cow Key Channel Bridge Counts, 1984 15
Table 6. Cow Key Channel Bridge Counts, 1985 16
Table 7. Cow Key Channel Bridge Counts, 1986 17
Table 8. Cow Key Channel Bridge Counts, through June, 1987 18

SPECIAL TABULATIONS OF COW KEY CHANNEL BRIDGE COUNTS. 19
Figure 6. Average Daily Traffic By Month. 20
Table 9. Average Daily Traffic By Month. 21
Figure 7. High and Low Season Weekly Traffic. 22
Figure 8. High and Low Season Friday Traffic. 23
Figure 9. Weekend Traffic Pattern, September 12-14, 1986. .24
Figure 10. Weekend Traffic Pattern, March 20-22, 1987. . . .25
Table 10. Northbound vs. Southbound Weekend Traffic 26
Figure 11. Weekday Traffic Counts, Wednesday, September 17, 1986. 27
Figure 12. Weekday Traffic Counts, Wednesday, March 18, 1987. 28
Table 11. Northbound vs. Southbound Weekday Traffic 29
Table 12. Traffic Entering and Leaving Key West During Selected Holiday Periods 30
Table 13. Average Annual Daily Traffic. 31

INTRODUCTION

The Key West Traffic Circulation Study will be completed in the summer of 1987 after three and a half years of extensive work. During that time three city-wide traffic surveys were conducted, a permanent traffic counter at Cow Key Channel Bridge was installed, and road jurisdictions were re-evaluated by the state as required every five years. This report consolidates and summarizes the information produced by these projects.

ROAD CLASSIFICATION AND JURISDICTION

The Florida Department of Transportation (FDOT) is required to evaluate and functionally classify all public roads at least once every five years. A detailed set of criteria is applied by FDOT in order to determine a road classification.

Jurisdictional responsibility is determined by functional classification. The following is a list of classes of roads that exist within cities and the units of government having jurisdiction over them:

Urban Principal Arterial. . .State
Urban Minor Arterial. . . . .County (or State if criteria are met)
Urban Collector . . . . . .City (if entirely in City)
Urban Local Road. . . . . .City

Figure 1 shows those roads in Key West which are under State or County jurisdiction. The City is responsible for all remaining roads.

Jurisdictional responsibilities shifted in 1987 as a result of the five year review. A City link was added to the Whitehead (between Fleming and Eaton)/Eaton/Palm/First/Bertha corridor, making it a continuous Urban Minor Arterial under County jurisdiction. Junior College Road, previously unclassified, was classified as an Urban Collector under City jurisdiction.

1987-1992 FUNCTIONAL CLASSIFICATION OF ROADS

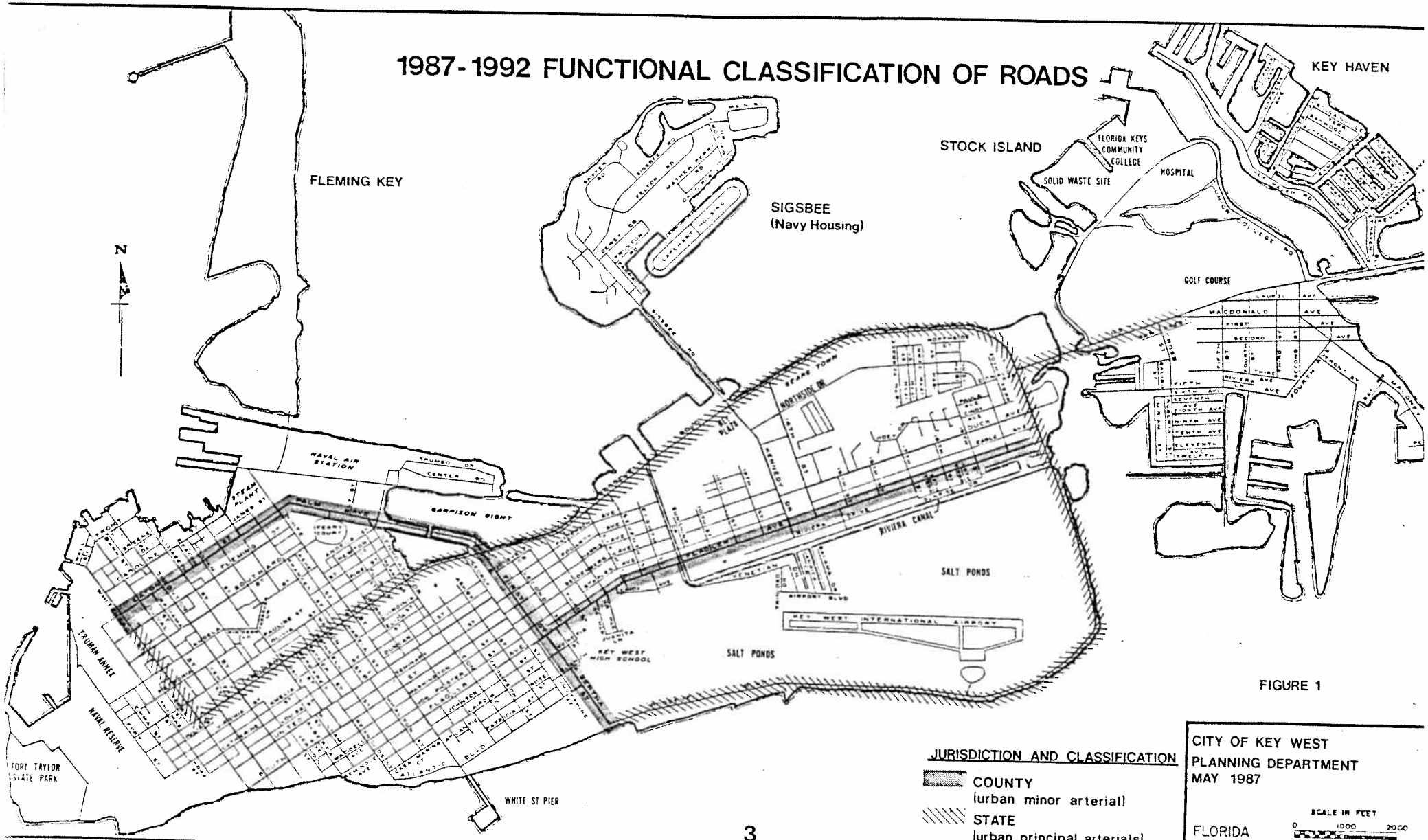

FIGURE 1

JURISDICTION AND CLASSIFICATION

- COUNTY (urban minor arterial)
- STATE (urban principal arterials)

CITY OF KEY WEST
PLANNING DEPARTMENT
MAY 1987

FLORIDA

SCALE IN FEET
0 1000 2000

SPECIAL TRAFFIC COUNTS

Three special city-wide traffic counts were taken between 1984 and 1987 by the Florida Department of Transportation. Because the counts were taken at a large number of locations, and because there were few common locations among the three sets of counts, separate tables and maps are used to present the data.

Caution should be exercised in comparing counts taken at different times. Variables such as time of year and day of week make such comparisons difficult.

Previous traffic counts may be factored up to current levels by using Cow Key Channel Bridge counts contained in the next section. Changes in bridge traffic over a given period of time generally should be proportionate to changes at other locations in Key West.

A "level of service" (LOS) rating may be assigned to a road based on traffic counts. The LOS scale ranges from "A" through "F," with "D" generally representing the design capacity of a road (i.e., the maximum level of traffic a road is designed to safely and efficiently accommodate). LOS "C," "D," and "E" thresholds are given below, in terms of average vehicles per day:

	LEVEL OF SERVICE (calibrated in vehicles per day)		
	C	D	E
Old Town (W of Simonton, N of Fleming)			
One Lane, One Way	4,760	5,440	6,800
Two Lane Collector	6,720	7,680	9,600
Two Lane Arterial	8,190	9,360	11,700
Old Town (W of White, N of Truman)			
One Lane, One Way	4,900	5,600	7,000
Two Lane Collector	9,800	11,200	14,000
Two Lane Arterial	10,360	11,840	14,800
Balance of Key West			
Two Lane Collector	8,400	9,600	12,000
Two Lane Arterial	10,360	11,840	14,800
Four Lane Arterial	16,380	18,720	23,400
Four Lane Divided Arterial	24,640	28,160	35,200

Since the counts contained in this section of the report were taken in peak tourist season, they are higher than average vehicles per day. An evaluation of traffic at Cow Key Channel bridge suggests that average vehicles per day counts are about 12 percent less than peak season counts.

1984 TRAFFIC COUNT LOCATIONS

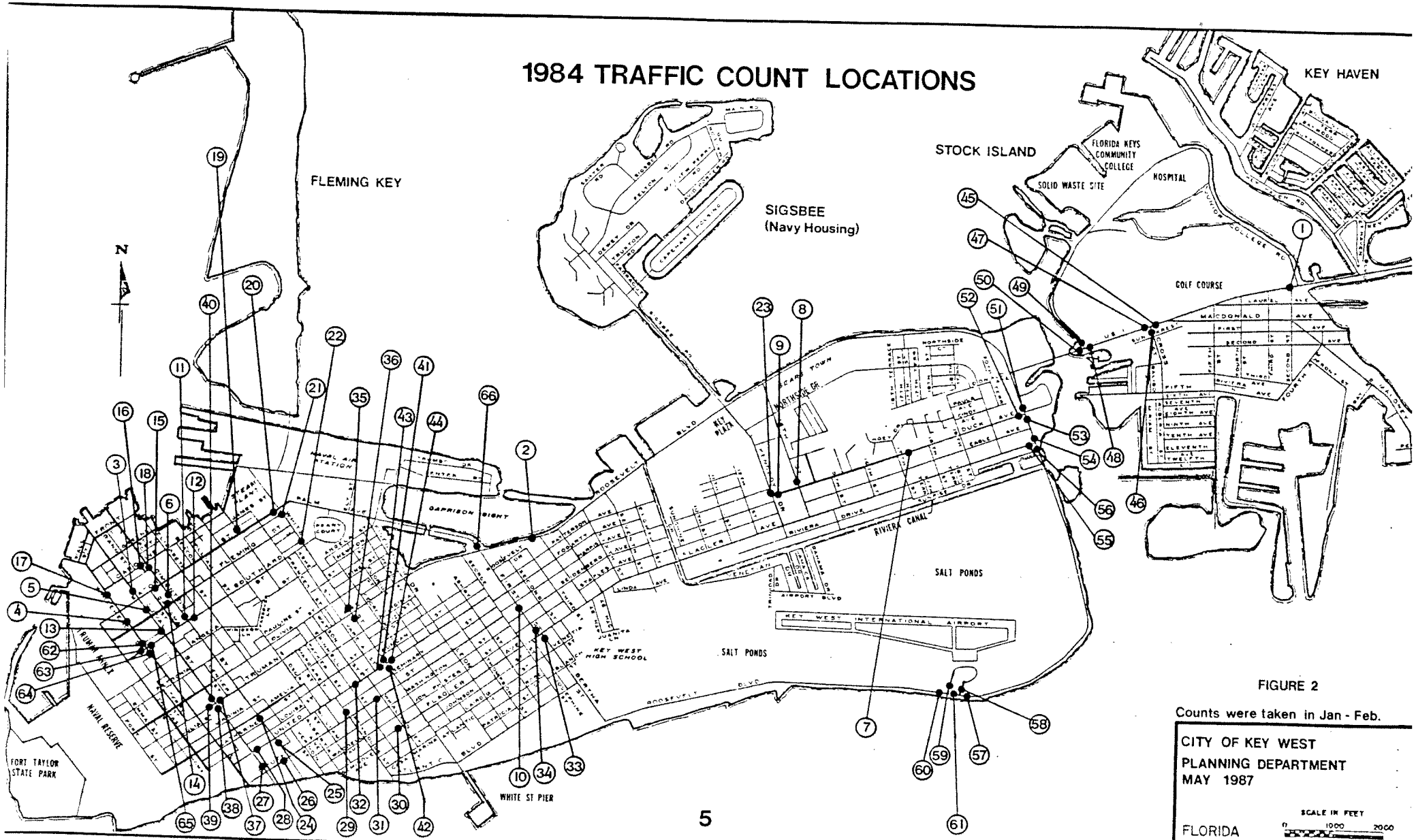

FIGURE 2

Counts were taken in Jan - Feb.

CITY OF KEY WEST
PLANNING DEPARTMENT
MAY 1987

FLORIDA

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TABLE 1. 1984 TRAFFIC COUNTS

Counts were taken on Monday, January 16, February 6;
and Tuesday, January 17, February 7, 1984.

SITE #	LOCATION	COUNT	DIRECTION
1	On US1-E of E Jr College Rd	10153	East
1	On US1-E of E Jr College Rd	10868	West
2	On US1-W of McMillin St	15747	East
2	On US1-W of McMillin St	16708	West
3	On Duval St-N of Eaton St	5477	North
3	On Duval St-N of Eaton St	5077	South
4	On Whitehead St-N of Fleming St	5252	2-Way
5	On Duval St-N of Fleming St	9252	2-Way
6	On Simonton St-N of Fleming St	7766	2-Way
7	On Duck Key Rd-E of 17th St	2278	2-Way
8	On 14th St-N of Duck Key Rd	4432	2-Way
9	On Duck Key Rd-E of Kennedy Dr	2536	2-Way
10	On 1st St-N of Seidenberg Ave.	5869	2-Way
11	On Simonton St-N of Southard St	10261	2-Way
12	On Southard St-W of Simonton St	4664	North
13	On Duval St-N of Southard St	10561	2-Way
14	On Fleming St-W of Simonton St	5206	South
15	On Eaton St-W of Simonton St	8495	2-Way
16	On Caroline St-W of Simonton St	Stolen	-
17	On Whitehead St-S of Caroline St	5138	2-Way
18	On Simonton St-S of Caroline St	10036	2-Way
19	On Grinnell St-N of Eaton St	5601	2-Way
20	On Eaton St-W of White St	16002	2-Way
21	On White St-S of Eaton	6367	2-Way
22	On White St-W of Southard	6471	2-Way
23	On Kennedy Dr-W of Duck Key Rd	6694	2-Way
24	On Simonton St-S of Amelia St	8322	2-Way
25	On Simonton St-S of United St	4572	2-Way
26	On South St-W of Simonton St	6849	2-Way
27	On Duval St-N of South St	5943	2-Way
28	On United St-E of Duval St	5431	2-Way
29	On Reynolds St-of South St	2771	2-Way
30	On Flagler St-W of Whalton St	2970	2-Way
31	On South St-W of Whalton St	1749	2-Way
32	On United St-W of Watson St	5108	2-Way
33	On Bertha St-S of Flagler Ave	3355	North
34	On 1st St-N of Flagler Ave	3210	South
35	On White St-N of Truman Ave	3880	South
36	On White St-S of Truman Ave	5763	North
37	On Truman Ave-E of Duval St	8635	West
38	On Duval St-S of Truman Ave	3394	North
39	On Truman Ave-W of Duval St	2403	East
40	On Duval St-N of Truman Ave	5777	South
41	On White St-N of United St	4955	South

SITE #	LOCATION	COUNT	DIRECTION
42	On White St-S of United St	5742	North
43	On United St-W of White St	3947	East
44	On United St-E of White St	2109	West
45	On SR5(US1)-E of Cross St	31713	2-Way
46	On Cross St-S of SR5(US1)	6910	2-Way
47	On SR5(US1)-W of Cross St	36077	2-Way
48	On SR5-E of W Jr College Rd	36531	2-Way
49	On W Jr College Rd-N of SR5(US1)	2874	2-Way
50	On SR5(US1)-W of W Jr College Rd	38992	2-Way
51	On US1-N of Duck Key Rd	13449	2-Way
52	On Duck Key Rd-W of US1	3581	2-Way
53	On US1-S of Duck Key Rd	12894	2-Way
54	On US1-N of Flagler Ave	11856	2-Way
55	On Flagler Ave-W of US1	6894	2-Way
56	On US1-S of Flagler Ave	7296	2-Way
57	On US1-E of KW Airport Entrance	7188	2-Way
58	On KW Airport Entrance-N of US1	1933	North
59	On KW Airport Exit-N of US1	2171	South
60	On US1-W of KW Airport Exit	6770	2-Way
61	On US1-Between Airport Ent & Exit	6415	2-Way
62	On Whitehead St-W of Southard St	3992	East
63	On Southard St-S of Whitehead St	1619	North
64	On Whitehead St-E of Southard St	2379	West
65	On Southard St-N of Whitehead St	1884	South
66	On Palm Ave-N of US1	8427	West
66	On Palm Ave-N of US1	7809	East

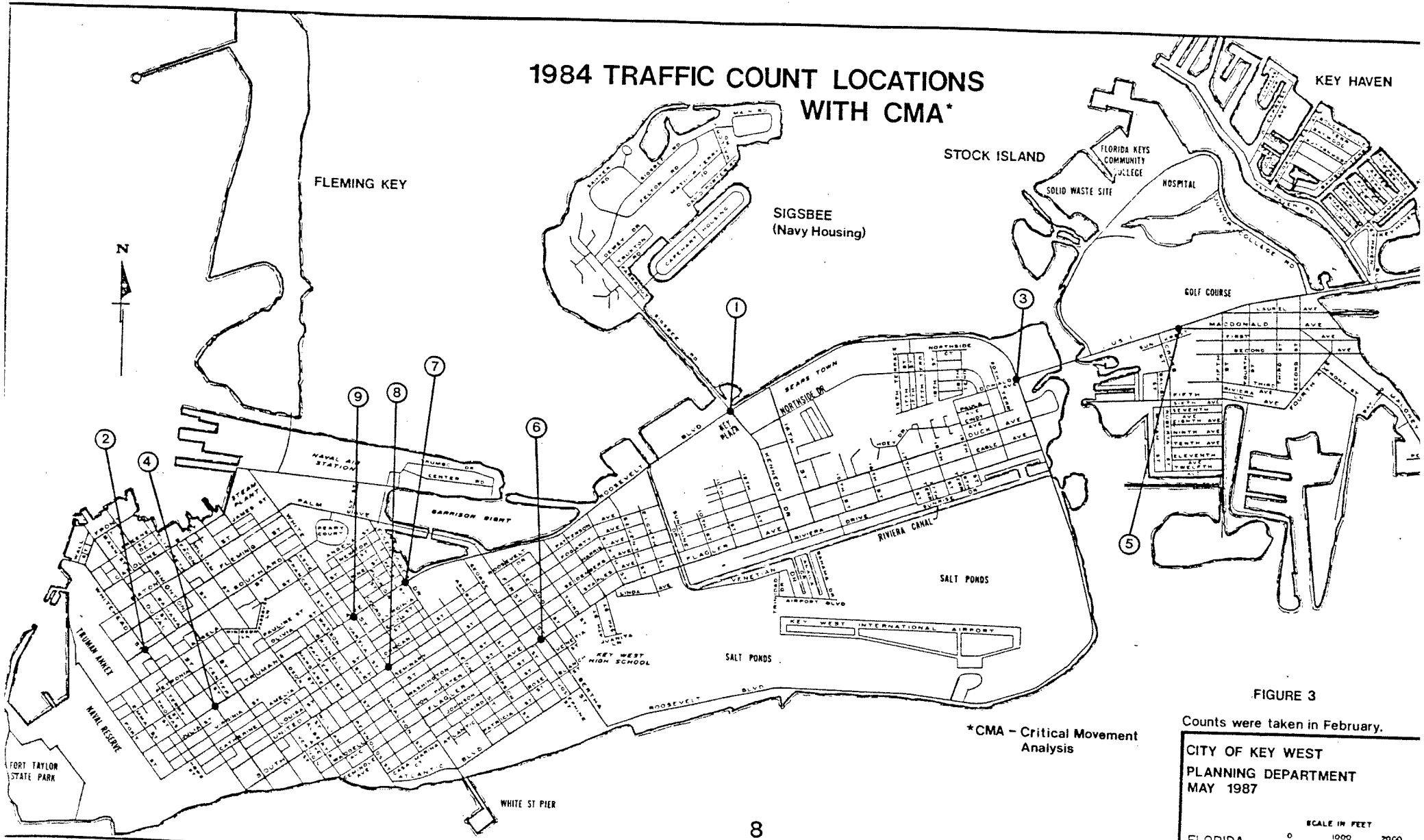
1984 TRAFFIC COUNT LOCATIONS WITH CMA*
FLEMING KEY
STOCK ISLAND
SIGSBEE (Navy Housing)
KEY HAVEN
FLORIDA KEYS COMMUNITY COLLEGE
SOLID WASTE SITE
HOSPITAL
GOLF COURSE
N
1
2
3
4
5
6
7
8
9
NAVAL AIR STATION
GARRISON BIGHT
KEY PLAZA
SEARS TOWN
NORTHSIDE DR
RIVIERA CANAL
SALT PONDS
KEY WEST INTERNATIONAL AIRPORT
AIRPORT BLVD
KEY WEST HIGH SCHOOL
TRUMAN ANNEX
NAVAL RESERVE
FORT TAYLOR STATE PARK
WHITE ST PIER
ROOSEVELT BLVD
US 1
*CMA – Critical Movement Analysis
FIGURE 3
Counts were taken in February.
CITY OF KEY WEST
PLANNING DEPARTMENT
MAY 1987
FLORIDA
SCALE IN FEET
0 1000 2000

TABLE 2. 1984 TRAFFIC COUNTS WITH CRITICAL MOVEMENT ANALYSIS

Counts were taken on Tuesday, February 7; Wednesday, February 8; and Thursday, February 16, 1984.

SITE #	LOCATION	COUNT	DIRECTION	LOS[1]	
				1985	1990
1	On US1-E of Kennedy Dr	28991	2-Way		
1	On US1-W of Kennedy Dr	32593	2-Way	D	E
1	On Kennedy Dr-S of US1	8001	2-Way		
1	On Sigsbee Dr-N of US1	6790	2-Way		
2	On Whitehead St-S of Southard St	6136	2-Way		
2	On Whitehead St-N of Southard St	7068	2-Way	n.a.	n.a.
2	On Southard St-E of Whitehead St	2713	North		
2	On Southard St-W of Whitehead St	3973	2-Way		
3	On US1-N of East of Roosevelt Blvd	36970	2-Way		
3	On Roosevelt Blvd-N of US1	31750	2-Way	E	E
3	On Roosevelt Blvd-S of US1	14682	2-Way		
4	On Duval St-N of Truman Ave	13026	2-Way		
4	On Duval St-S of Truman Ave	8030	2-Way	C	D
4	On Truman Ave-E of Duval St	12928	2-Way		
4	On Truman Ave-W of Duval St	6430	2-Way		
5	On US1-S of McDonald St	29893	2-Way		
5	On US1-N of McDonald St	21834	2-Way	n.a.	n.a.
5	On McDonald St-E of US1	8303	2-Way		
6	On Flagler Ave-W of 1st St	10602	2-Way		
6	On Flagler Ave-E of 1st St	13218	2-Way	n.a.	n.a.
6	On 1st St-N of Flagler Ave	5516	2-Way		
6	On 1st St-S of Flagler Ave	4717	2-Way		
7	On Eisenhower Dr-N of Truman Ave	5257	2-Way		
7	On Eisenhower Dr-S of Truman Ave	4034	2-Way	C	C
7	On Truman Ave-W of Eisenhower Dr	19284	2-Way		
7	On Truman Ave-E of Eisenhower Dr	24159	2-Way		
8	On White St-N of United St	10520	2-Way		
8	On White St-S of United St	11168	2-Way	n.a.	n.a.
8	On United St-W of White St	7415	2-Way		
8	On United St-E of White St	4400	2-Way		
9	On White St-N of Truman Ave	7990	2-Way		
9	On White St-S of Truman Ave	11392	2-Way	C	D
9	On Truman Ave-W of White St	18246	2-Way		
9	On Truman Ave-E of White St	18762	2-Way		

1. Level of service (LOS) projections were determined using Critical Movement Analysis. The projections shown in the table assume no improvements to the intersections; however, FDOT reports are available with LOS projections under improvement scenarios.

1986 TRAFFIC COUNT LOCATIONS

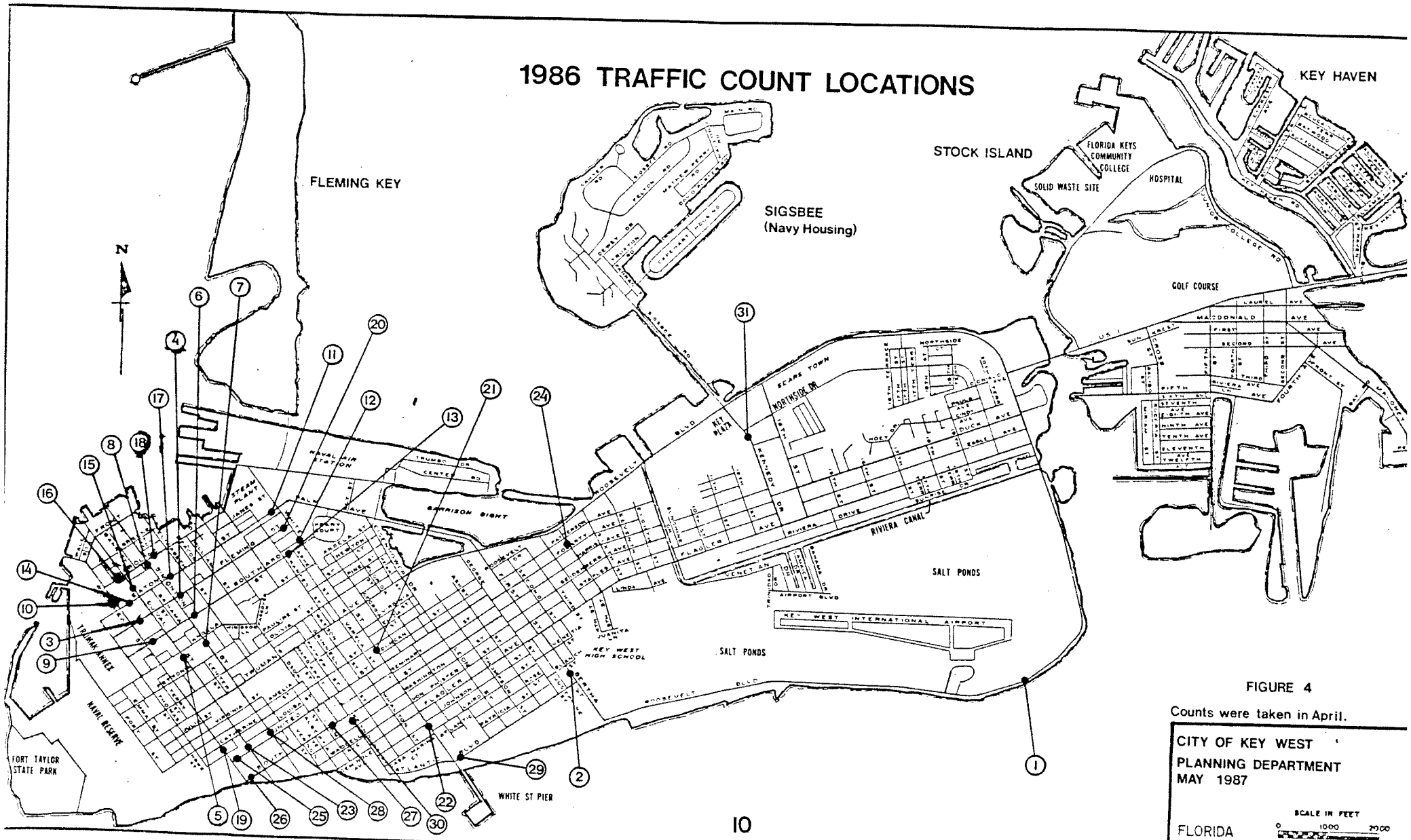

FIGURE 4

Counts were taken in April.

CITY OF KEY WEST
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MAY 1987

FLORIDA

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TABLE 3. 1986 TRAFFIC COUNTS

Counts were taken on Monday, April 21, 1986.

SITE #	LOCATION	COUNT	DIRECTION
1	On US1-E of Airport	7315	2-Way
2	On Bertha St-N of Atlantic Blvd	5020	2-Way
3	On Fleming St-E of Whitehead St	-	-
4	On Fleming St-E of Simonton St	-	South
5	On Duval St-S of Angela St	14028	2-Way
6	On Southard St-N of Simonton St	3640	North
7	On Simonton St-S of Angela St	-	-
8	On Simonton St-S of Caroline St	-	-
9	On Southard St-E of Whitehead St	5076	West
10	On Whitehead St-S of Caroline St	-	-
11	On Eaton St-W of White St	15945	2-Way
12	On White St-N of Southard St	7555	2-Way
13	On Southard St-E of Frances St	5021	North
14	On Eaton St-W of Duval St	4375	2-Way
15	On Duval St-N of Eaton St	15690	2-Way
16	On Caroline St-E of Telegraph Lane	2498	2-Way
17	On Eaton St-E of Simonton St	9155	2-Way
18	On Caroline St-E of Simonton St	5557	2-Way
19	On Whitehead St-S of Catherine St	4315	2-Way
20	On Fleming St-W of White St	-	-
21	On White St-S of Catherine St	10050	2-Way
22	On White St-S of Johnson St	4180	2-Way
23	On Duval St-N of United St	7193	2-Way
24	On 5th St-N of Fogarty St	3657	2-Way
25	On United St-W of Duval St	4285	2-Way
26	On South St-W of Duval St	2797	2-Way
27	On South St-E of William St	4680	2-Way
28	On Simonton St-N of United St	4050	2-Way
29	On Atlantic Blvd-E of White St	4214	2-Way
30	On Reynolds St-N of Washington St	5316	2-Way
31	On Kennedy Dr-S of Northside Dr	3661	2-Way
31	On Kennedy Dr-S of Northside Dr	4558	--

1987 TRAFFIC COUNT LOCATIONS

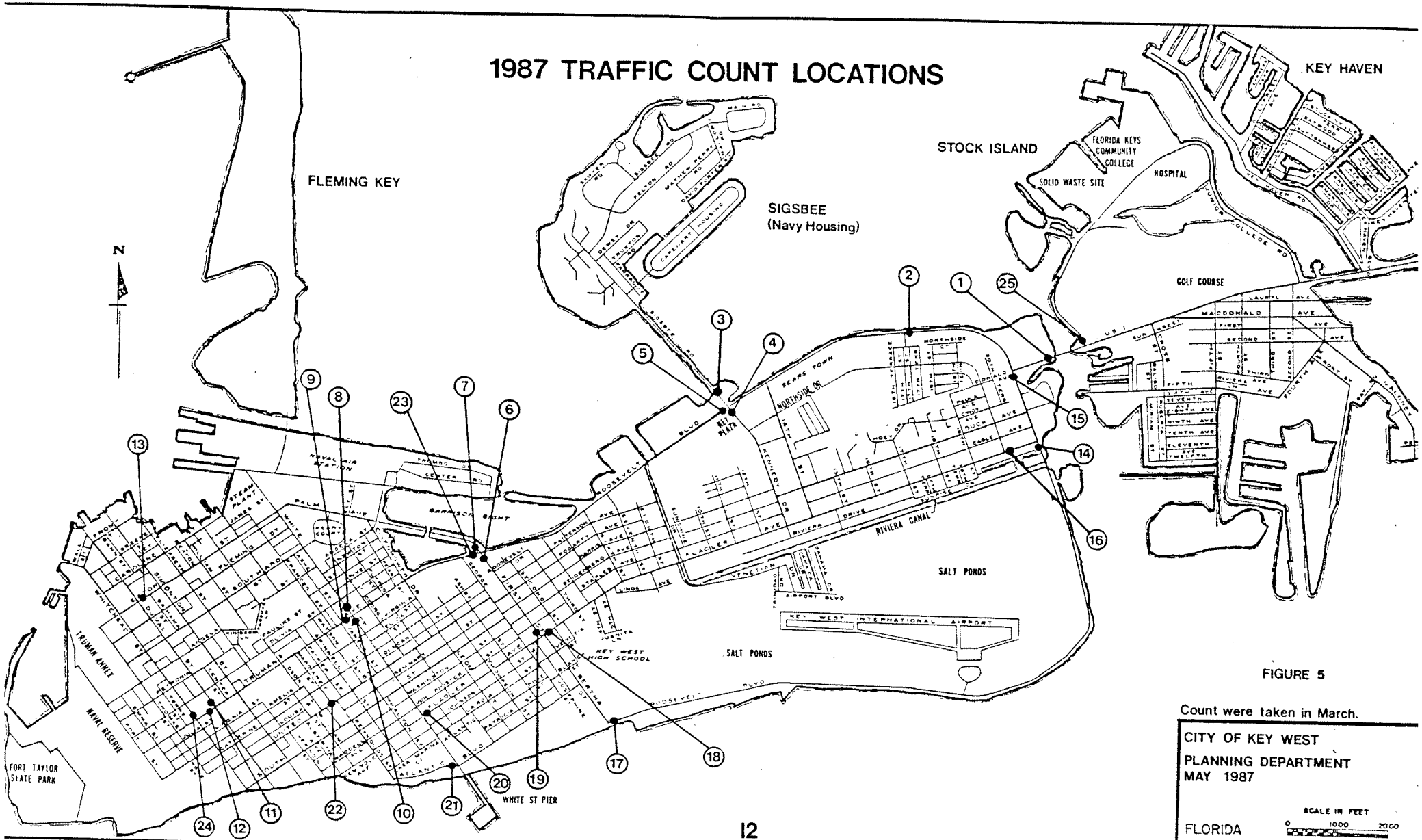

FIGURE 5

Count were taken in March.

CITY OF KEY WEST
PLANNING DEPARTMENT
MAY 1987

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TABLE 4. 1987 TRAFFIC COUNTS

Counts were taken on Monday, March 2 and March 9, 1987.

SITE #	LOCATION	COUNT	DIRECTION
1	On US1-N of Key West	19535	South
1	On US1-N of Key West	19286	North
2	On Roosevelt Blvd-N of 17th St	34795	2-Way
3	On Sigsbee Rd-W of US1	7288	2-Way
4	On Kennedy Dr-E of US1	11620	2-Way
5	On US1-S of Kennedy Dr	34575	2-Way
6	On 1st St-E of US1	5371	2-Way
7	On Palm Ave-W of US1	16828	2-Way
8	On White St-W of US1	7634	2-Way
9	On US1-S of White St	14033	2-Way
10	On White St-E of US1	12150	2-Way
11	On Duval St-W of US1	8595	2-Way
12	On Truman Ave-S of Duval St	6110	2-Way
13	On Eaton St-N of Duval St	7148	2-Way
14	On A1A-S of Flagler Ave	9328	2-Way
15	On A1A-S of US1	16693	2-Way
16	On Flagler Ave-W of A1A	3565	--
16	On Flagler Ave-W of A1A	4431	--
17	On A1A-E of Bertha St	10072	2-Way
18	On Flagler Ave-N of Bertha St	15382	2-Way
19	On 1st St-W of Flagler Ave	7475	2-Way
20	On Flagler Ave-E of White St	4468	2-Way
21	On Atlantic Blvd-W of White St	7421	2-Way
22	On United St-W of Reynolds St	8625	2-Way
23	On US1-S of Bertha St	17340	2-Way
24	On Whitehead St-W of Truman Ave	11452	2-Way
25	On Jr College Rd-N of US1	1866	2-Way

COW KEY CHANNEL BRIDGE TRAFFIC COUNTS

At the request of the Monroe County Office of Civil Defense, a permanent traffic counter was installed on US 1 near the Cow Key Channel Bridge. The counter is located on Stock Island, approximately 200 yards from the bridge. It first became operational in August, 1984, but it did not report consistently until April, 1985.

The traffic counter is essentially located at the only point of vehicular entry to Key West, thus measuring all traffic entering and leaving the city. Northbound and southbound traffic is recorded on an hourly basis by a microprocessor located on the highway median; the data is retained for the previous 120 hours, and accessible by modem. It is also possible to access the microprocessor and monitor traffic as it crosses the sensors under the US 1 pavement.

The Monroe County Office of Civil Defense and the Key West City Planning Department both possess the capability to access the microprocessor through micro-computer with telephone modems.

TABLE 5. COW KEY CHANNEL BRIDGE COUNTS, 1984

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1									26949			
2									23534			
3									20961			
4									30213			
5									28531			
6									28708			
7									30861			
8									24071			
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23											18675	
24										28761	29218	
25										28904	25621	
26										29882	21073	
27											29061	
28											29100	
29											29100	
30											29100	
31								29341				
								31327				
TOT	0	0	0	0	0	0	0	60668	213828	87547	210948	0
ADT								30334	26729	29182	26369	

TABLE 6. COW KEY CHANNEL BRIDGE COUNTS, 1985

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				35000	30073	26202	28820	28478	23894	26696	29630	22336
2				34000	29839	21668	28858	30782	21595	27399	24083	29504
3	33426			34500	32480	29348	27600	24450	27304	27520	21416	30300
4	34519	30634		32225	27659	29400	24003	22795	26769	29764	29008	28792
5	28743	34915		33577	23733	29100	31083	29161	27008	24369	28812	30221
6	22550	30106		29556	30166	28800	27665	28889	29135	18885	27381	21663
7	32448			24221	30311	31000	22410	28689	23172	27920	29000	27068
8	31067			32721	29293	~~20974~~ ?	28665	28804	19444	27838	30984	29852
9	31067			31487	29002	~~17404~~ ?	28054	30888	26621	28605	26632	30225
10				33177	31578	29100	27673	25923	26503	28824	22496	29682
11				31505	26663	29400	27714	22434	26528	30790	26189	30129
12				28796	22676	29100	28410	28700	26720	25495	29000	29271
13				27663	28855	28800	23732	28062	30120	21221	29209	32740
14				23057	28694	31000	20719	28738	24578	28000	29947	27473
15				30354	29506	~~20974~~ ?	27971	27478	19570	29330	33845	21991
16				30558	29028	~~17404~~ ?	28074	30847	27505	28967	27501	30945
17				30588	31425	28800	28000	26225	26500	29206	22857	30112
18				30359	26947	28000	28003	22400	26700	31557	31718	30571
19				33054	22652	28000	31331	27300	26938	27184	29000	30417
20				28860	29332	28000	25699	27132	29784	21484	29500	33106
21				23767	29023	30525	22214	27902	24095	28000	28418	27709
22		39157		29800	29185	~~21330~~ ?	28490	27849	20726	28328	30568	23378
23		32723		30000	28777	~~16720~~ ?	28323	30847	26056	28605	24523	31554
24		27300		30000	32214	28499	28300	26225	26500	28824	21112	30141
25		37170		29686	27785	27364	28000	22400	26700	33413	29683	21714
26		37221		31900	25891	28000	30763	27605	27079	32691	29761	34274
27				27756	24144	27553	25659	27446	30096	24356	30885	36890
28				23758	29637	30313	21721	26280	24535	28864	19846	32535
29				29156	28465	25287	28490	25778	21957	28393	32412	28174
30				29985	28451	21823	28323	30867	28444	29457	26946	37238
31					31763		27600	26570		29750		35635
TOT	213820.	269226	0	901066	885247	789888	842367	847944	772576	861735	832362	915640
ADT	30546	33144		30036	28556	~~26330~~ 27272	27173	27353	25753	27798	27745	29537

TABLE 7. COW KEY CHANNEL BRIDGE COUNTS, 1986

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26874	30256	31784	36031	31510	23411	29490	30500	23253	27746	26456	31710
2	35444	25137	27647	35082	34244	29571	29796	28211	29114	28024	22393	32619
3	35757	33715	35718	43500	29039	29594	29324	24041	28013	30245	29777	33447
4	28988	34325	34771	37115	23957	29416	31700	28800	25856	25096	29763	31582
5	23926	33864	35219	32327	31221	28935	26400	28200	30303	23473	29931	32343
6	33472	33968	34735	26909	29834	32049	23400	28600	25624	28318	30263	27295
7	32007	36249	36923	33300	29142	26362	30500	29000	21500	28900	32440	23120
8	32279	31070	33247	32767	29767	22638	22703	30500	26522	28992	28970	28987
9	31850	26124	27900	32933	32250	29415	29744	28211	28025	29005	24174	31459
10	34473	34722	36111	33300	27931	29501	29802	24113	27800	31295	30272	31263
11	28949	34561	36117	35209	23424	29610	31652	28300	28000	26528	28598	31693
12	21787	35026	37559	31377	30071	27936	26366	28000	30096	22702	30609	33574
13	32938	35580	35708	26000	29588	30687	22703	28500	23685	26702	30031	28792
14	33033	37657	37862	33200	30197	27126	28816	28600	20472	29454	33141	23027
15	32767	32565	33770	32865	30889	23011	29237	30500	28456	29273	27263	32762
16	32657	27871	27908	32906	33539	29549	29132	29546	27493	29013	22539	32365
17	35425	32675	36017	33348	28401	29554	29816	23842	27823	31339	30411	32290
18	30408	34975	35729	34673	23389	29600	32740	28330	28000	27040	29918	32396
19	25502	35281	36305	30775	31446	27900	29940	28043	30616	21904	30066	33958
20	30043	35618	35100	26146	30887	31703	25250	28487	25656	28959	30592	28392
21	33323	37045	37599	32000	29918	27338	30295	28606	20500	29600	32341	24313
22	32588	32886	32857	31689	30137	23031	29151	30454	26422	29412	27509	33761
23	32622	28910	28158	31776	33235	29825	28592	26038	27012	30718	22858	34462
24	34795	36155	36869	32243	30890	29573	28333	22299	27500	34549	30888	32498
25	29695	36334	37462	34400	27869	29600	32700	28300	27728	32777	31340	21700
26	23787	35754	36483	29963	25553	29400	29900	28000	28811	25859	32913	31505
27	33470	33819	36539	25465	30995	31315	25300	28293	24997	29302	21085	31600
28	33230	37200	38324	30732	30305	26670	30300	28849	20513	28120	34540	29900
29	32298		33249	31183	29958	23345	29524	31648	27552	29499	29553	33023
30	33192		26868	31902	33216	30734	29323	29049	28439	30075	24271	39957
31	35713		35772		26871		29430	25906		32062		37464
TOT	973292	939342	1066310	971116	919673	848399	891359	869766	795781	885981	864905	963257
ADT	31397	33548	34397	32371	29667	28280	28754	28057	26526	28580	28830	31073

TABLE 8. COW KEY CHANNEL BRIDGE COUNTS THROUGH JUNE, 1987

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33600	26633	30942	35185	36087	32776						
2	36200	35728	36432	34131	32162	32062						
3	31600	36486	37358	36361	26521	31262						
4	28000	36229	39056	31843	33178	31731						
5	31600	36089	38400	26519	32798	33912						
6	32500	38380	34878	34095	32824	28381						
7	32738	31926	34550	32830	33576	24416						
8	32250	28017	30423	34285	35954	33244						
9	34238	36722	37379	34592	31475	32223						
10	29618	37486	39756	36466	25976	32076						
11	28000	37017	40164	31061	32344	32566						
12	31600	36347	39557	26784	32353	35602						
13	32500	40231	41333	35668	32560	29928						
14	33826	36104	35967	35090	31909	25345						
15	34971	30095	30500	37377	34605	33711						
16	27064	34942	38913	36791	29913	32383						
17	32889	39165	39127	38438	25797	32893						
18	28021	37939	39657	33742	32513	32363						
19	31608	38324	39476	27121	32399	33975						
20	35309	39136	40118	35161	32397	29385						
21	34466	35268	35149	35194	32954	24753						
22	33941	28351	29258	34582	36338	32725						
23	37068	34900	37647	35023	33520	32138						
24	32105	38349	37386	36708	30368	31949						
25	26104	38368	37605	31556	27160	31986						
26	34733	38814	36849	27033	32841	33858						
27	35499	40652	40018	34011	32263	27677						
28	34273	36812	33014	33242	31794	24753						
29	33386		28169	33088	35052	30896						
30	36469		36470	33883	29443	32676						
31	32103		35160		24258							
TOT	1008279	1004510	1130711	1007860	983332	933645	0	0	0	0	0	0
ADT	32525	35875	36475	33595	31720	31122	ERR	ERR	ERR	ERR	ERR	ERR

SPECIAL TABULATIONS OF COW KEY CHANNEL BRIDGE COUNTS

The Key West Planning Department has monitored Cow Key Channel Bridge traffic since mid-1985. Counts from prior months were obtained from Monroe County Civil Defense and Florida Department of Transportation. This record now constitutes the most useful history of traffic in Key West.

The tables and graphs in this section of the report show monthly, daily, and hourly traffic patterns. These patterns contribute an understanding of the various components of traffic in the city, and they provide a basis for projecting future levels of traffic.

In general terms, bridge traffic has increased by about four percent per year for the past two years. It is reasonable to assume that traffic levels throughout the city have increased by at least the same rate. Traffic created internally in Key West by a dramatic increase in car and moped rentals may have generated even greater increases on roads frequently used by tourists.

The largest traffic increases have occurred in the Spring and early Summer, demonstrating a lengthening tourist season. Late Summer, early Fall traffic appears to have actually declined slightly from 1984 to 1985; however, this could be a statistical error resulting from limited data available for 1984.

FIGURE 6

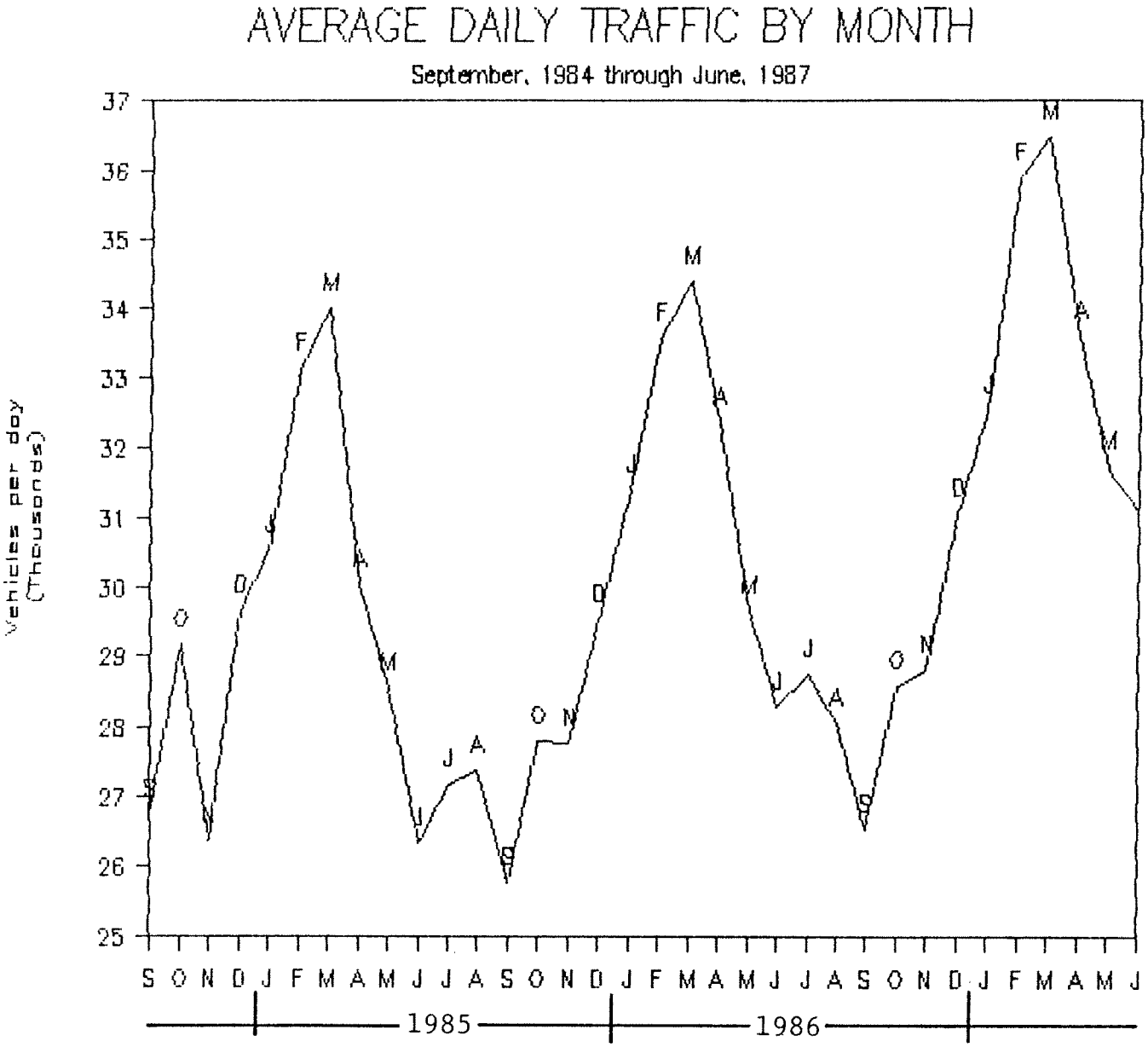
AVERAGE DAILY TRAFFIC BY MONTH
September, 1984 through June, 1987
Vehicles per day (Thousands)
37
36
35
34
33
32
31
30
29
28
27
26
25
S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J
1985
1986

TABLE 9. AVERAGE DAILY TRAFFIC BY MONTH[1]

	1984	1985	1986	1987	Average Annual Rate of Change (%)[2]	
JAN	–	30,546*	31,397	32,525	34,318	3.2
FEB	–	33,144*	33,548	35,875	37,265	4.1
MAR	–	n.a.	34,397	36,475	38,346	6.0
APR	–	30,036	32,371	33,595	35,237	5.9
MAY	–	28,556	29,667	31,720	32,790	5.5
JUN	–	26,330	28,280	31,122	31,912	9.1
JUL	–	27,173	28,754	31,717	31,435	5.8
AUG	–	27,353	28,057	30,641	31,957	2.6
SEP	27,108*	25,753	26,526	29,326		-1.1
OCT	29,182*	27,798	28,580	30,717		-1.0
NOV	27,468*	27,745	28,830	31,167		2.5
DEC	29,665*	29,537	31,073	32,737		2.4
AADT (AVG)	28,153	28,635	30,102	32,328		

1. The figures in the table represent average daily traffic (ADT) on US 1, east of Cow Key Channel Bridge. The permanent counter at that location became operational in September, 1984, but was not operating consistently until April, 1985. Asterisks denote months for which ADTs are estimated from sample data.
2. Figures in this column represent simple percentage rate of change.

FIGURE 7

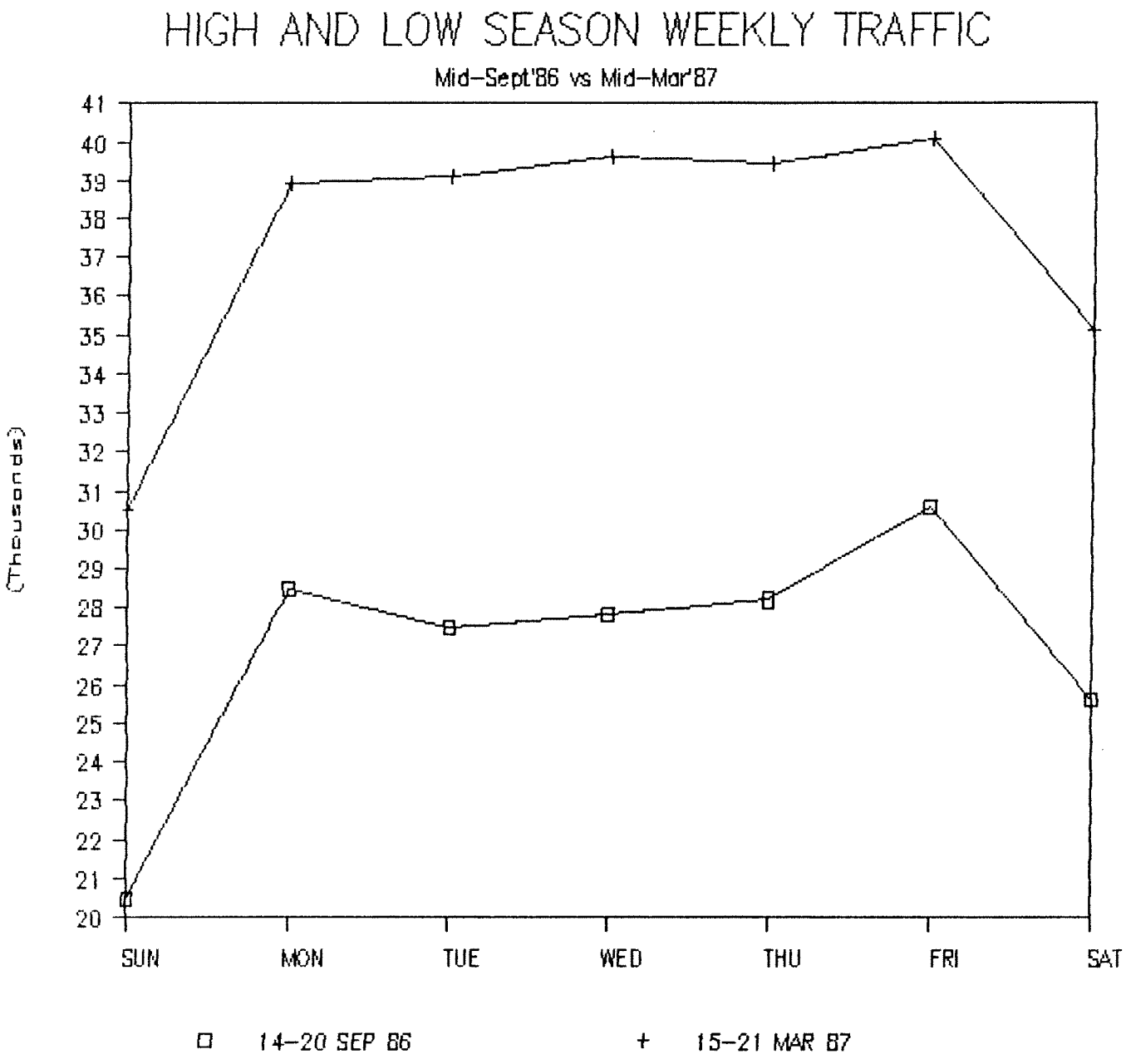
HIGH AND LOW SEASON WEEKLY TRAFFIC
Mid-Sept'86 vs Mid-Mar'87
(Thousands)
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
SUN
MON
TUE
WED
THU
FRI
SAT
14-20 SEP 86
15-21 MAR 87

FIGURE 8

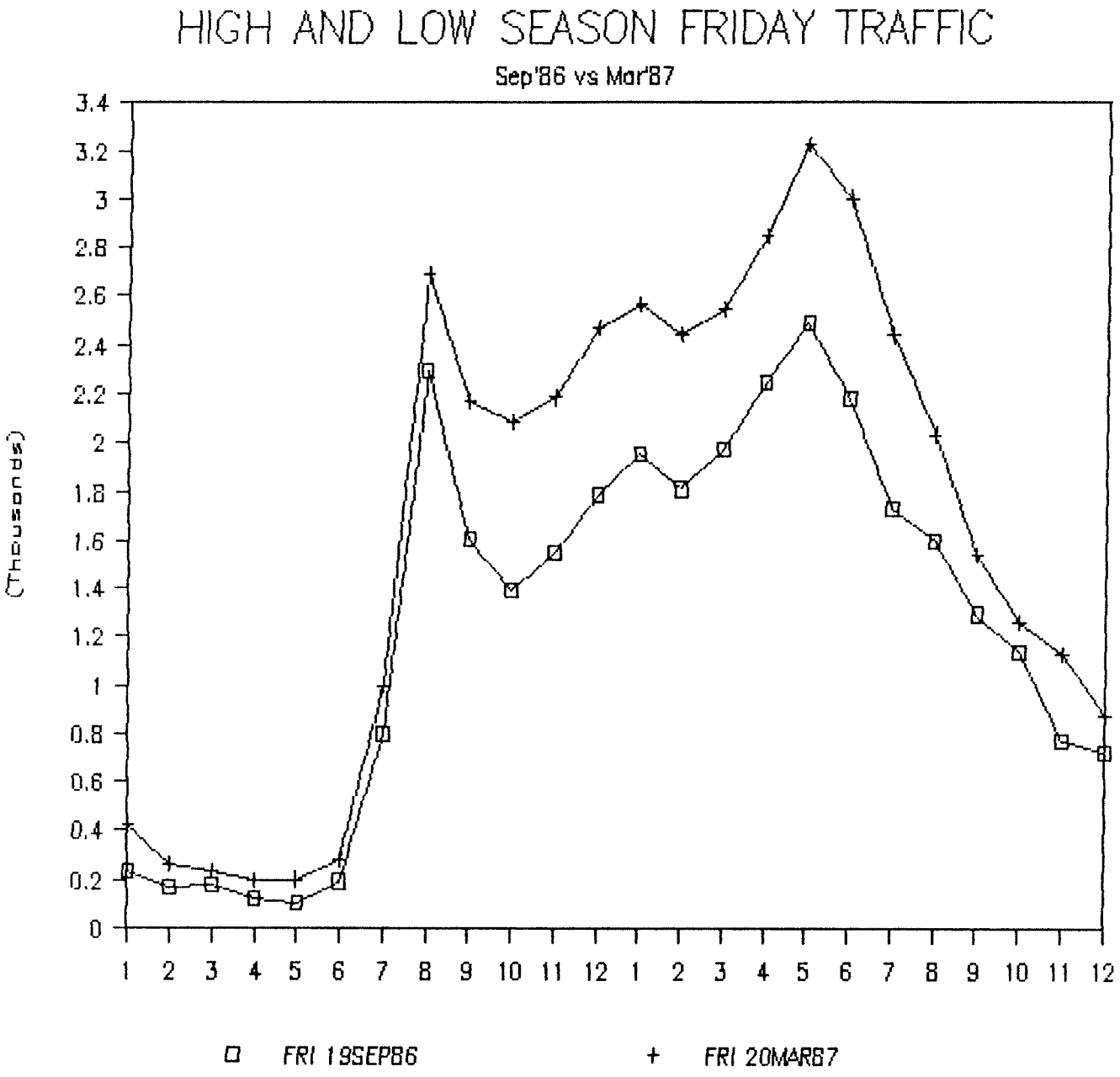
HIGH AND LOW SEASON FRIDAY TRAFFIC
Sep'86 vs Mar'87
(Thousands)
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12
FRI 19SEP86
FRI 20MAR87

FIGURE 9

WEEKEND TRAFFIC PATTERN

September 12–14, 1986

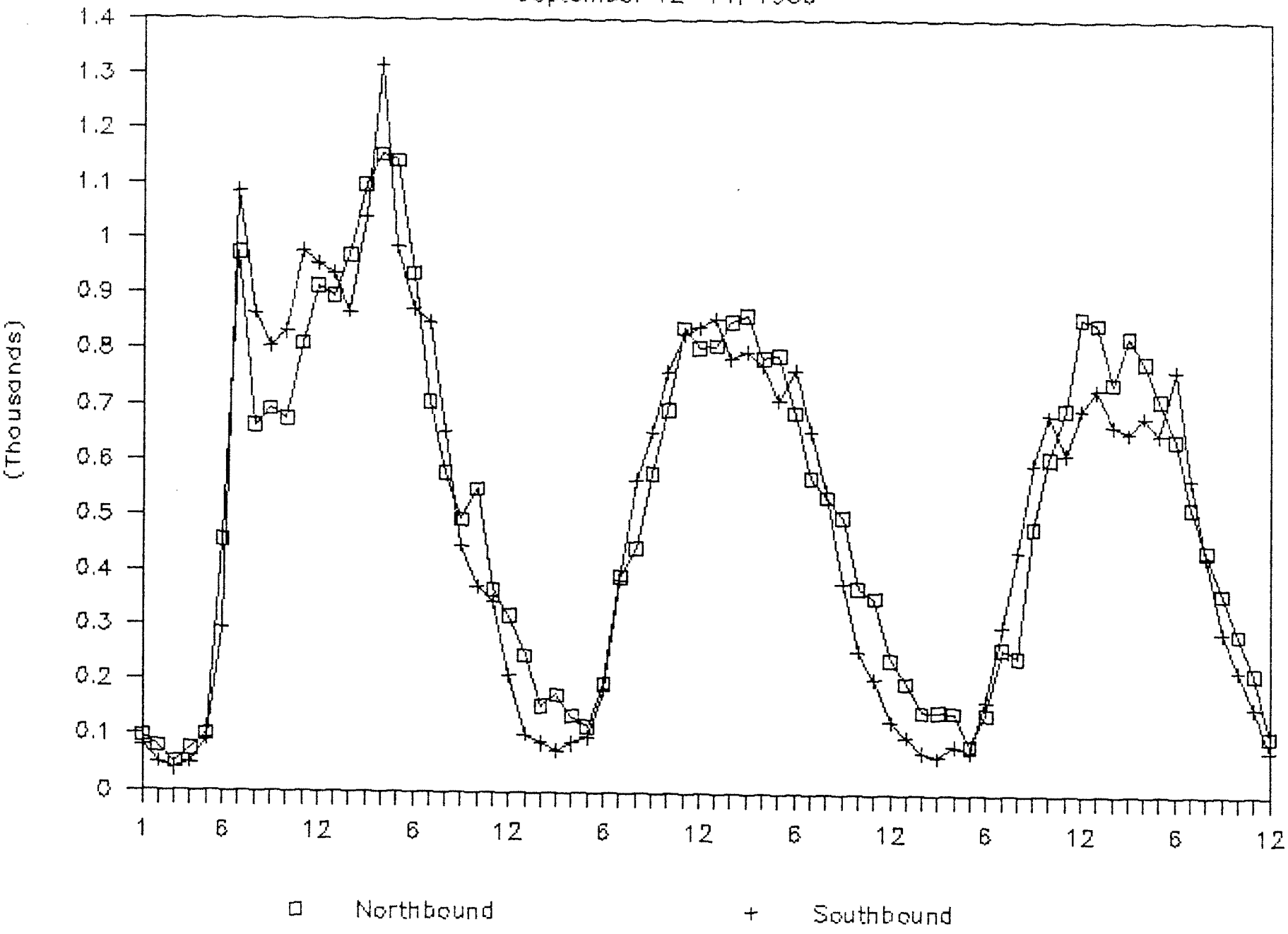

FIGURE 10

WEEKEND TRAFFIC PATTERN

March 20-22, 1987

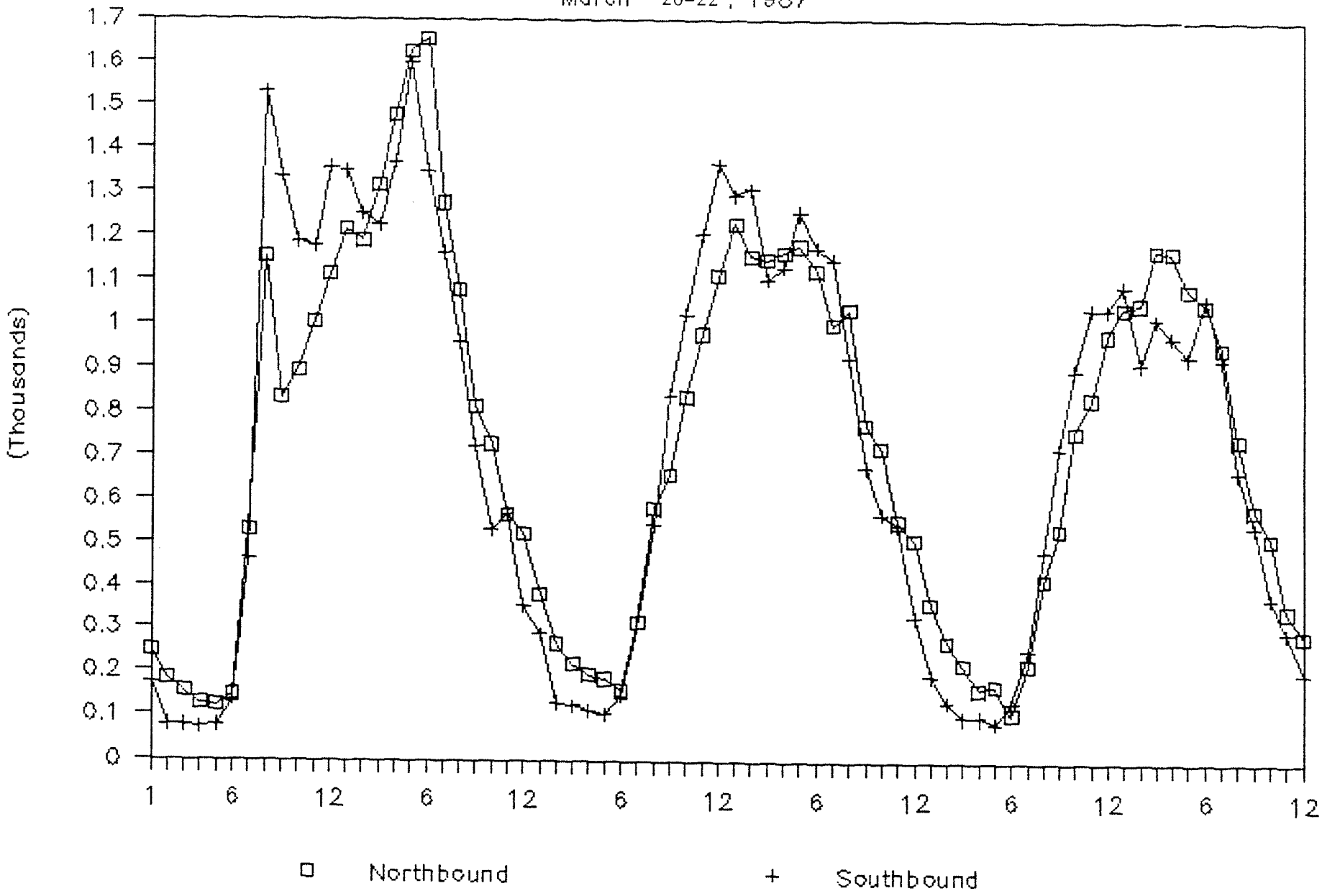

TABLE 10. NORTHBOUND VERSUS SOUTHBOUND WEEKEND TRAFFIC[1]

	MARCH 20-22, 1987				SEPTEMBER 12-14, 1986			
HOUR	NORTH	SOUTH	DIF	TOTAL	NORTH	SOUTH	DIF	TOTAL
FRI								
12PM	1113	1358	-245	2471	914	955	- 41	1869
1	1218	1351	-133	2569	894	936	- 42	1830
2	1192	1252	- 60	2444	968	868	100	1836
3	1319	1227	92	2546	1096	1038	58	2134
4	1480	1370	110	2850	1154	1315	161	2469
5	1628	1600	28	3228	1141	985	156	2126
6	1656	1349	307	3005	936	873	63	1809
7	1277	1164	113	2441	706	848	-142	1554
8	1077	960	117	2037	580	653	- 73	1233
9	814	725	89	1539	494	447	47	941
10	728	530	198	1258	550	372	178	922
11	565	568	- 3	1133	366	344	22	710
SAT								
12AM	521	355	166	876	318	209	109	527
1	381	260	121	641	246	103	143	349
2	266	132	134	398	154	90	64	244
3	220	125	95	345	175	73	102	248
4	196	114	82	310	137	90	47	227
5	186	105	81	291	118	98	20	216
6	159	147	12	306	197	183	14	380
7	316	304	12	620	389	384	5	773
8	583	543	40	1126	442	566	-124	1008
9	659	840	-181	1499	580	654	- 74	1234
10	838	1025	-187	1863	693	762	- 69	1455
11	980	1208	-228	2188	841	828	13	1669
12	1114	1368	-254	2482	805	841	- 36	1646
1PM	1231	1295	- 64	2526	809	859	- 50	1668
2	1159	1311	-152	2470	852	785	67	1637
3	1150	1105	45	2255	863	798	65	1661
4	1168	1134	34	2302	786	773	13	1559
5	1180	1257	- 77	2437	792	712	80	1504
6	1127	1178	- 51	2305	688	766	- 78	1454
7	1001	1149	-148	2150	572	657	- 85	1229
8	1038	927	111	1965	537	548	- 11	1085
9	773	676	97	1449	501	379	122	880
10	721	568	153	1289	372	258	114	630
11	551	543	8	1094	354	206	148	560
SUN								
12AM	508	330	178	838	241	128	113	369
1	360	196	164	556	200	103	97	303
2	274	136	138	410	147	75	72	222
3	220	100	120	320	148	66	82	214
4	165	102	63	267	146	87	59	233
5	172	87	85	259	86	77	9	163
6	107	134	27	241	144	167	- 23	311
7	222	253	- 31	475	263	303	- 40	566
8	416	482	- 66	898	347	440	- 93	787
9	533	721	-188	1254	483	597	-114	1080
10	759	902	-143	1661	610	686	- 76	1296
11	836	1042	-206	1878	697	617	80	1314
12PM	980	1039	- 59	2019	860	698	162	1558
TOTAL	37,137	36,647		73,784	26,392	25,300		51,692

1. Traffic counts are given in Eastern Standard Time for both dates (although Eastern Daylight Time was in effect in September).

FIGURE 11

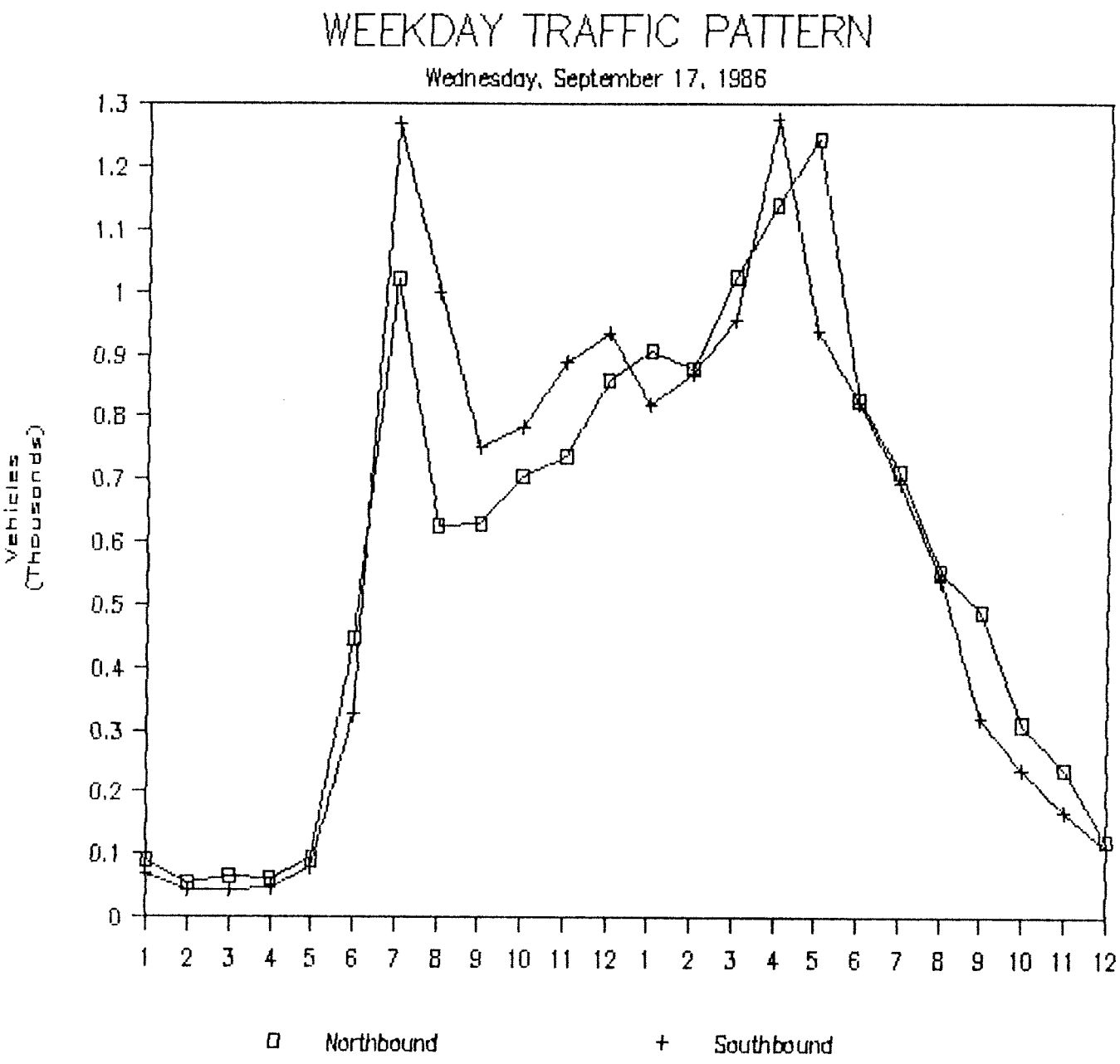
WEEKDAY TRAFFIC PATTERN
Wednesday, September 17, 1986
Vehicles (Thousands)
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12
Northbound
Southbound

FIGURE 12

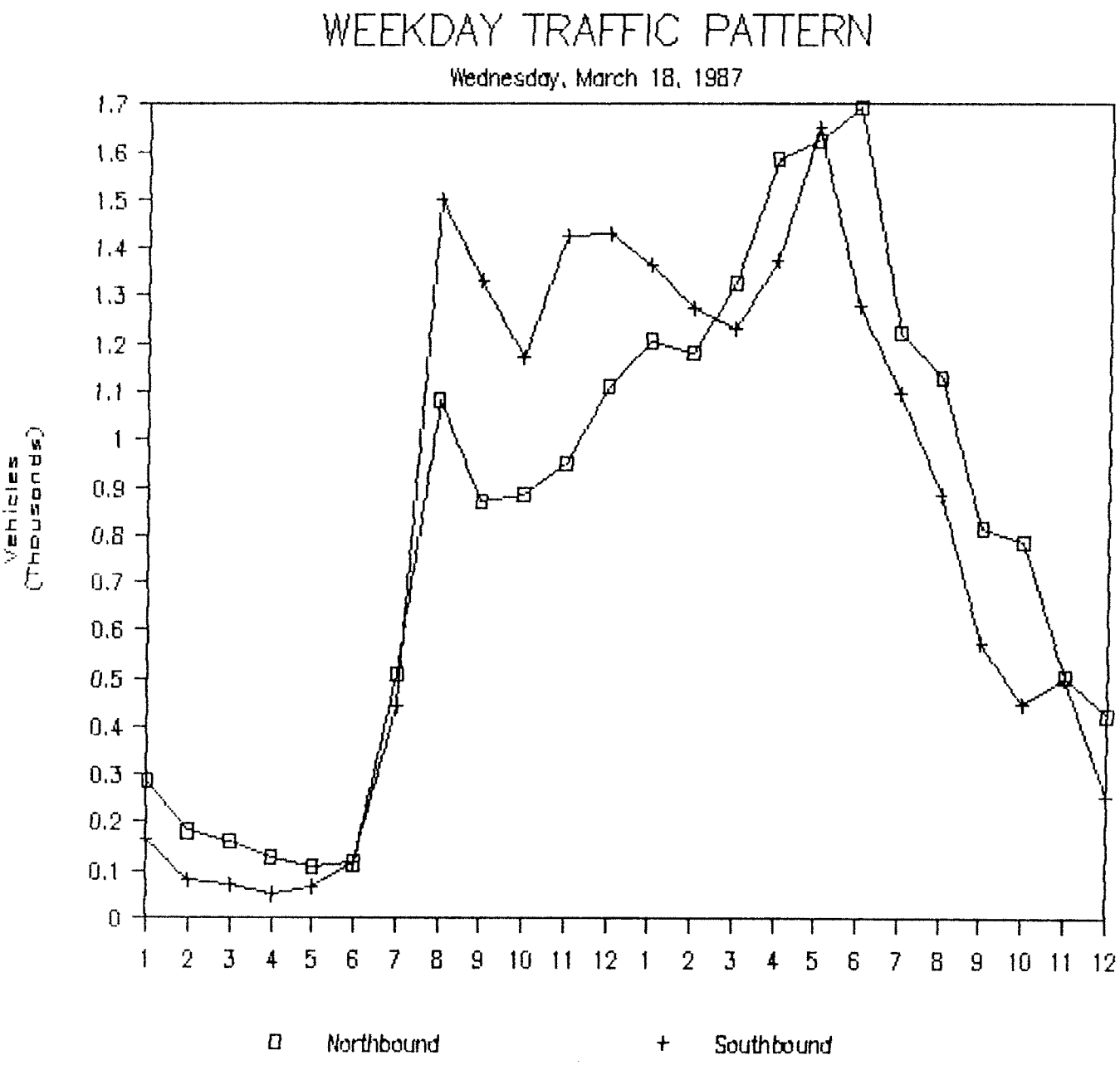
WEEKDAY TRAFFIC PATTERN
Wednesday, March 18, 1987
Vehicles (Thousands)
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12
Northbound
Southbound

TABLE 11. NORTHBOUND VERSUS SOUTHBOUND WEEKDAY TRAFFIC[1]

	WEDNESDAY, SEPTEMBER 17, 1986				WEDNESDAY, MARCH 18, 1987			
HOUR	NORTH	SOUTH	DIF	TOTAL	NORTH	SOUTH	DIF	TOTAL
1AM	89	67	22	156	286	165	121	451
2	55	42	13	97	181	81	100	262
3	66	42	24	108	159	69	90	228
4	61	46	15	107	128	50	78	178
5	92	81	11	173	109	64	45	173
6	445	326	119	771	116	118	-2	234
7	1022	1271	-249	2293	510	442	68	952
8	627	999	-372	1626	1081	1499	-418	2580
9	629	752	-123	1381	870	1332	-462	2202
10	706	783	-77	1489	882	1171	-289	2053
11	737	887	-150	1624	948	1425	-477	2373
12	859	935	-76	1794	1110	1431	-321	2541
1PM	905	821	84	1726	1206	1366	-160	2572
2	877	872	5	1749	1182	1275	-93	2457
3	1024	955	69	1979	1326	1234	92	2560
4	1140	1276	-136	2416	1586	1371	215	2957
5	1244	938	306	2182	1624	1652	-28	3276
6	827	824	3	1651	1692	1279	413	2971
7	713	693	20	1406	1223	1096	127	2319
8	555	539	16	1094	1129	886	243	2015
9	491	321	170	812	812	574	238	1386
10	311	236	75	547	786	449	337	1235
11	236	170	66	406	505	497	8	1002
12	123	113	10	236	424	256	168	680
TOTAL	13834	13989		27823	19875	19782		39657

1. Traffic counts are given in Eastern Standard Time for both dates (although Eastern Daylight Time was in effect in September).

TABLE 12. TRAFFIC ENTERING AND LEAVING KEY WEST DURING SELECTED HOLIDAY PERIODS(1)

		Pres Day		Spring Break		Memorial Day		4th of July		Labor Day		Fantasy Fest		Thanksgiving		Christmas(2)		
		volume	N-S	volume	N-S	volume	N-S	volume	N-S	volume	N-S	volume	N-S	volume	N-S	volume	N-S	AADT(3)
1984	T	na	na	na	na	na	na	na	na	29341	339	29882	54	18675	-363	na	na	26652
	F	na	na	na	na	na	na	na	na	31327	-209	32242	-872	29218	-272	na	na	30469
	S	na	na	na	na	na	na	na	na	26949	-1235	na	na	25621	183	na	na	25547
	S	na	na	na	na	na	na	na	na	23534	452	na	na	21073	999	na	na	22304
	M	na	na	na	na	na	na	na	na	20961	1583	na	na	na	na	na	na	24011
1985	T	na	na	na	na	28777	51	24003	-1329	25778	26	28824	-98	19846	-630	34274	162	28787
	F	39157	375	na	na	32214	-988	31083	-385	30867	-787	33413	-1453	32412	-948	36890	-596	31639
	S	32723	-159	na	na	27785	-1789	27665	25	26570	-1088	32691	-643	26946	46	32535	-183	26388
	S	27300	678	na	na	25891	287	22695	1762	23894	104	24356	3182	22336	204	28174	206	22165
	M	37170	462	na	na	24144	1592	28665	-123	21595	1617	28864	76	29504	88	37238	-290	29196
1986	T	35580	-182	na	na	30137	-123	29324	-158	28849	-47	30718	-576	21085	-1207	21676	na	31061
	F	37657	-1463	37599	-243	33235	-1153	na	na	31648	-910	34549	-1705	34540	-914	31505	-915	33563
	S	32565	-453	32857	-607	30890	-1158	na	na	29049	-1529	32777	-1727	29553	201	31683	na	28934
	S	27871	573	28158	586	27869	75	na	na	25906	458	25859	3701	24271	1355	29887	na	23996
	M	32675	-127	36869	-561	25553	1927	na	na	23253	1941	29302	162	31710	-298	21823	5	30913
1987	T	36347	-87	39476	262	na	na	34062	-232	30588		T 34688		21,519		33896		
	F	40231	-481	40118	-140	36338	-894	33604	-1338	33869		F 38543		34,377		22657		
	S	36104	-334	35149	-139	33520	-1358	29165	-377	29563		S 35574		31,961		30798		
	S	30095	909	29258	844	30368	182	25367	1741	26772		S 28477		25,501		29542		
	M	34945	-308	37649	-245	27160	1882	na	na	24793		M 21726		na		34153		

1. The holiday figures represent daily traffic volumes and the difference between northbound and southbound volumes (negative numbers mean more traffic entered the city than left during that 24-hour period). Since most holiday traffic generally enters the city on Thursday or Friday and leaves on Sunday or Monday, the days in the table are arranged accordingly.
2. This period contains the Sunday following Christmas.
3. This column represents the average annual daily traffic for each day of the week in each year shown in the table. Due to a small sample size, 1984 AADTs may not be representative of the whole year. It should also be noted that 1987 AADTs represent only the first half of the year, and may therefore be expected to be higher than for the entire year.

38356	40,705	34096	33146	31857
n.a	42,496	35090	25750	35,234
37290	36,373	34975	32500	30773
31698	30,782	29738	29281	26069
35633	37,659	26682	26916	25746

TABLE 13. AVERAGE DAILY TOTALS

YEAR	MON	TUE	WED	THU	FRI	SAT	SUN
1984	n.a.	29,487	28,718	29,310	30,469	25,547	22,304
1985	29,196	29,430	28,745	28,787	31,639	26,388	22,165
1986	30,913	31,409	31,491	31,061	33,563	28,934	23,996

AADT

1987

1988