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**Los Angeles County Department of Public Works/City of Santa Clarita/Austin-Foust Associates, Inc., March 8, 2005, "Santa Clarita Valley Consolidated Traffic Model, 2004 Update and Validation"**

SANTA CLARITA VALLEY  
CONSOLIDATED  
TRAFFIC MODEL

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2004 Update and Validation

March 2005

Draft

**SANTA CLARITA VALLEY  
CONSOLIDATED TRAFFIC MODEL**

**2004 Update and Validation**

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# Chapter 1.0

## INTRODUCTION

This report describes the 2004 update and validation of the Santa Clarita Valley Consolidated Traffic Model (SCVCTM). The updates to the model are summarized, the results of a base year validation are presented, and examples of traffic forecast data are also given.

### 1.1 OVERVIEW

The SCVCTM is a traffic demand model for the Santa Clarita Valley area of Los Angeles County. Encompassing the City of Santa Clarita and surrounding portions of unincorporated County, it was designed as a sub-area extraction (from regional models) that could provide detailed traffic forecasting capability within its study area. The model has the capability for peak hour as well as average daily traffic (ADT) analysis, and is used by both the City and County as a forecasting tool for a variety of traffic studies in the valley. The model meets the consistency requirements of the Congestion Management Program (CMP).

The SCVCTM was originally prepared by the City and County in 1992 and has been used for a variety of applications since that time. A major update was made in 1995 and this 2004 update includes a number of enhancements as follows:

1. Updates to the land use databases (existing and future)
2. Updates to model relationships such as external trip distribution
3. Addition of post-processing procedures for link and intersection volumes

The third of these represents a significant enhancement to the modeling capability, substantially refining the peak hour intersection turn movement forecasting procedures.

As part of this update, a comprehensive validation was carried out to compare ADT and peak hour traffic forecasts for year 2004 against the corresponding ground counts. Statistical data is presented in this report to show the results of this 2004 model validation.

## 1.2 TRAFFIC MODEL OVERVIEW

Following the original model development work in 1992, an easily understandable guide to the model was prepared (Reference 1 at the end of this chapter). The material presented there is applicable to the updated model since no changes have been made to the overall model structure. The material contained in this update report is of a more technical nature, describing the modeling processes in some detail.

The SCVCTM model area is shown in Figure 1-1. For descriptive purposes, the modeling processes in the SCVCTM can be divided into five components:

1. Network Definition
2. Trip Generation
3. Trip Distribution
4. Traffic Assignment
5. Forecast Data Refinement (Post-Processing)

The network definition component of the model follows that of traditional traffic demand models with network definitions being designed to support the level of detail in the model area. The trip generation component uses land use data as input, with trips being generated by the application of ADT and peak hour trip generation rates. Trip generation is calculated in the form of vehicle trips and no specific mode choice capability is incorporated in the model at this time.

In the trip distribution component of the model, use is made of external cordon trips to forecast internal to external trips. Through trips are also added as part of the distribution process.

The traffic assignment component portion of the SCVCTM utilizes procedures that are sensitive to the capacity of the network. Both link and intersection capacity constraints are applied in the assignment process, and intersection turn movement penalties are also incorporated into the traffic assignment.

Material contained in the following chapter of this report focuses on the SCVCTM methodology, including descriptions of the procedures used for forecast data refinement. In Chapter 3.0, summary results from the base year validation run are given together with statistical comparisons between model and count data. Forecasts for the long-range version of the model are also presented, thereby providing an example of the SCVCTM forecasting capability.



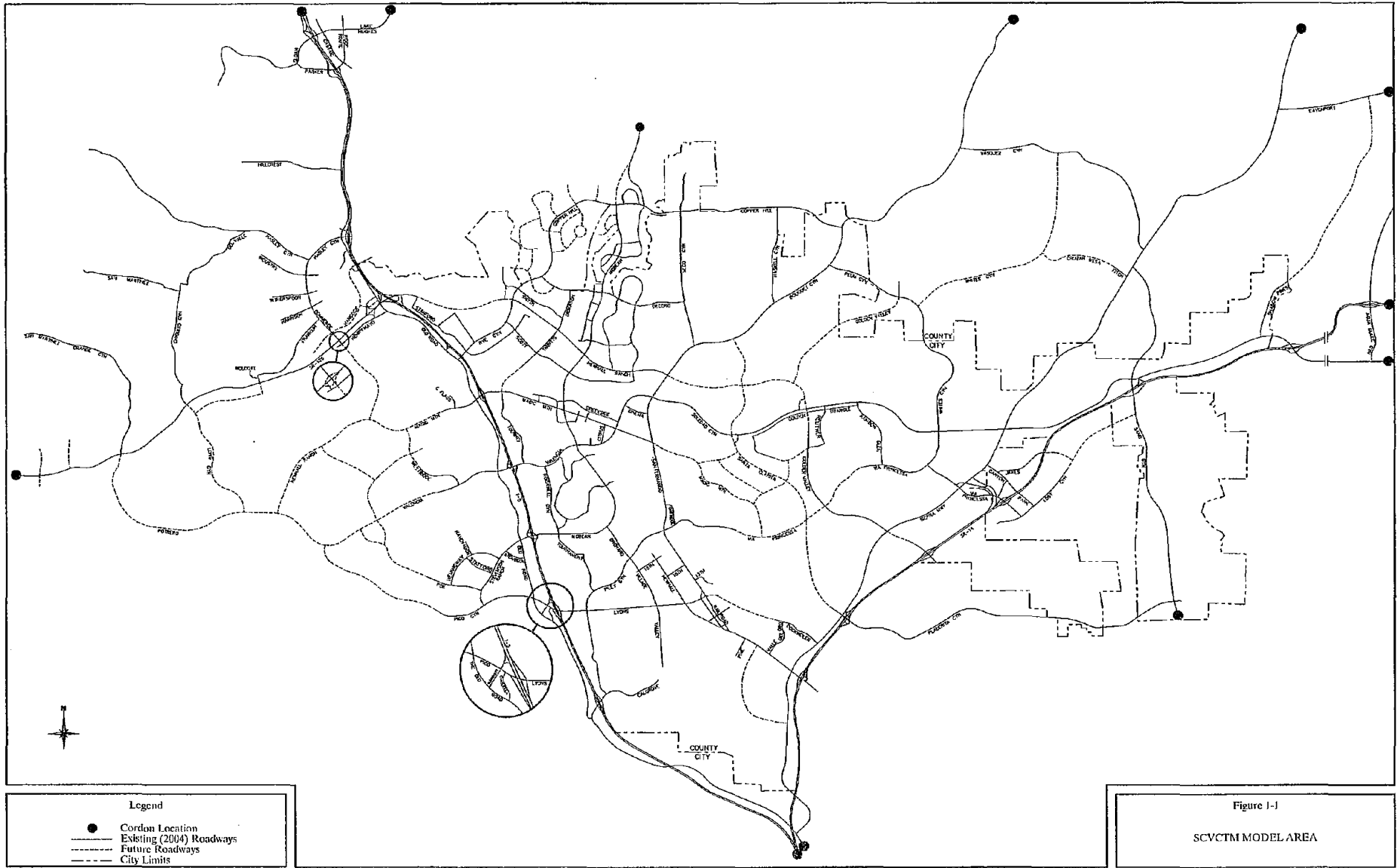


Figure 1-1  
SCVCTM MODEL AREA

### 1.3 SCVCTM TECHNICAL NOTEBOOK

Detailed traffic model data pertaining to the SCVCTM, including traffic forecast results prepared from SCVCTM runs can be found in the SCVCTM Technical Notebook maintained by the County of Los Angeles Public Works Department and the City of Santa Clarita.

### 1.4 REFERENCES

1. "Santa Clarita Valley Consolidated Traffic Model Report," County of Los Angeles Department of Public Works, January, 1994.
2. "Santa Clarita Valley Consolidated Traffic Model, 1995 Update and Validation," Austin-Foust Associates, Inc., April 1995.
3. "National Cooperative Highway Research Program Technical Report 255 Highway Traffic Data for Urbanized Area Project Planning and Design," Transportation Research Board, 1982.

# Chapter 2.0

## TRAFFIC MODEL DESCRIPTION

This chapter contains a description of the SCVCTM. It is intended to provide an understanding of the model framework and of the principles and procedures embodied in the various model components.

### 2.1 MODEL STRUCTURE OVERVIEW

The overall model structure for the SCVCTM is illustrated in Figure 2-1 in flow chart form. Illustrated here are the five model components (highway network processing, trip generation, trip distribution, assignment, post-processing) and the interrelationships between each component.

The trip generation procedure in the SCVCTM uses land use data as input. This is comprised of detailed information by floor area or acreage for various uses, and numbers of dwelling units by density classification. Trip generation rates are applied to the land use data to generate average daily traffic (ADT) tripends by trip purpose. The trip generation also creates peak hour trip generation tripends which are used after trip distribution to create peak hour trips.

The trip distribution process develops geographically defined travel patterns from the zonal trip generation estimates. The result is a set of zone-to-zone trips for the analysis area, including internal to external trips and through trips. The next part of the forecasting process consists of trip assignment in which the geographically defined travel patterns are assigned to the highway network and the final step processes the raw model output into refined forecast data. The results are in the form of both ADT link volumes and peak hour intersection turn movements.

The following sections describe the basic relationships and steps in each of these five model components.

### 2.2 THE LINK-NODE NETWORK SYSTEM

Specially coded networks provide descriptions of the highway system in the traffic forecasting area. Coding of geographic link-node networks for the SCVCTM follows the general methodology used in traffic modeling work and the following explains the various procedures involved in network preparation.

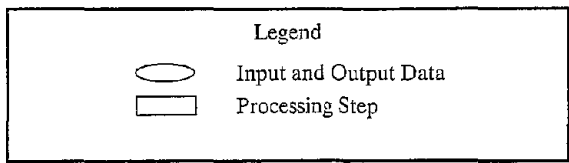
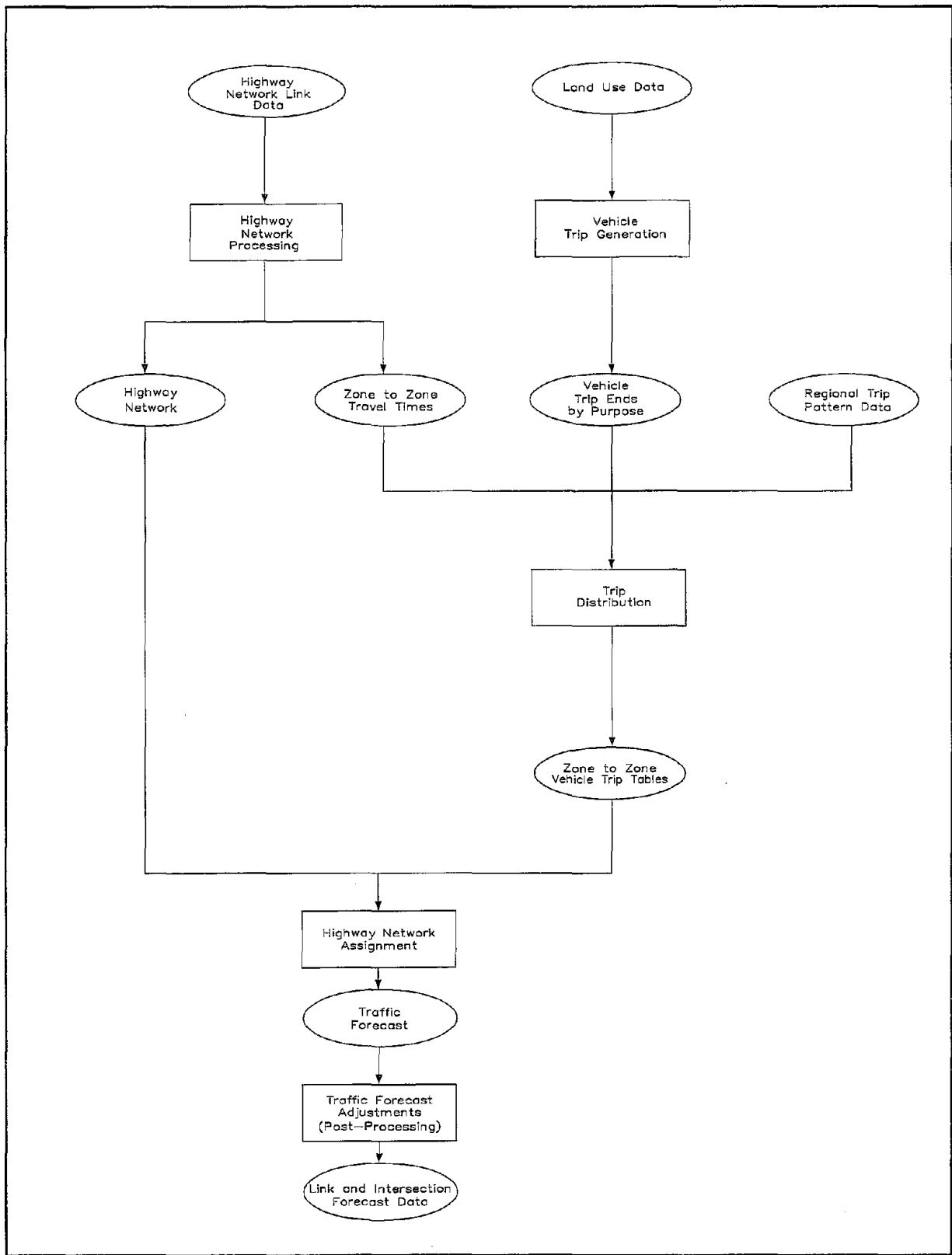


Figure 2-1  
SCVCTM MODEL STRUCTURE

### 2.2.1 Link Attributes

In addition to the basic link attributes such as distance and speed, each link is assigned a facility type designation and a link speed classification. The facility types are as follows:

1. Freeway
2. Major Highway
3. Secondary Highway (Rural)
4. Secondary Highway (Urban)
5. Limited Secondary Highway
6. Centroid Collector
7. Expressway
8. Freeway Ramp

The link speed classification attribute is used to differentiate between links of a particular facility type that may have different speed attributes because of signal spacing or other local differences. Five classifications are available for this speed differentiation purpose, and they are allocated according to such features as number of signalized intersections, side friction (e.g., driveways), and speed limits. The following section shows how speed differences are incorporated into these speed attribute categories.

### 2.2.2 Speeds and Capacities

Link speeds and capacities are allocated according to the link attributes noted above. They are assigned to the network links during the network processing component of the SCVCTM. A speed and capacity table is used to specify the link speed and capacity for each facility type, number of lanes, and speed classification combination.

The SCVCTM assignment procedure uses a separate assignment for each of three time periods: AM peak hour, PM peak hour, and off-peak. Capacity values hence represent the equivalent time represented by the particular time period. The SCVCTM speed and capacity table is shown in Table 2-1. Within each facility type, the link classifications have speed differentials of five miles per hour to enable locations with non-average speed characteristics to be coded as such (examples are rural areas with high speeds, and urban high side friction areas with low speeds).

Table 2-1

SCVCTM NETWORK SPEED AND CAPACITY TABLE

Facility Type	# of Lanes	Speed By Link Classifications					One Hour Capacity	Off Peak Capacity
		1	2	3	4	5		
1	1-6	65	60	55	50	65	2,200	22,500
2	1-3	40	35	30	45	50	1,000	9,000
3	1-3	35	30	25	40	45	850	8,000
4	1-3	30	25	20	35	40	750	7,000
5	1-3	25	20	15	30	35	750	7,000
6	1	15	15	15	15	15	9,999 <sup>1</sup>	99,999 <sup>1</sup>
7	1-4	45	40	35	50	55	1,400	14,000
8	1-2	30	30	30	30	30	1,500	12,000

- Facility Types:
- 1. Freeway
  - 2. Major Highway
  - 3. Secondary Highway (Rural)
  - 4. Secondary Highway (Urban)
  - 5. Limited Secondary Highway
  - 6. Centroid Connector
  - 7. Expressway
  - 8. Freeway Ramp

Note: Capacities are per lane and are for one direction

<sup>1</sup> Centroid connector capacities are unrestricted

### 2.2.3 Intersections

The SCVCTM derives peak hour turn movement volumes for selected intersections. These intersections are entered into the model by means of an intersection specification file which denotes the network links on each leg of the intersection. Lane configurations for these intersections are also specified for use in the intersection volume/capacity feature of the SCVCTM (see discussion later in this chapter).

The coding specification for intersections is that the north-south street is named first, followed by the east-west street. This convention follows through into the post processing and level of service calculations so that turn movement references (northbound left, eastbound through, etc.) are clearly understood.

## 2.3 TRIP GENERATION

The SCVCTM generates trips from specific land use data tabulated for each traffic zone. Two sets of tripends are produced. One gives AM and PM peak hour by direction and the other gives ADT trips according to the following five trip purposes:

1. Home to Work (H-W)
2. Home to Shopping (H-S)
3. Home to Other (H-O)
4. Other to Work (O-W)
5. Other to Other (O-O)

The trip generation for each purpose is in the form of ADT vehicle "tripends" separated into "productions" and "attractions". Productions represent the trip generation at the resident end of home-based trips or the origins of non-home-based trips. Attractions represent the non-resident end of home-based trips or the destination end of non-home-based trips. Productions are often denoted as "P's" and attractions as "A's." The interaction between P's and A's creates the travel patterns that, in turn, produce the traffic demand on the circulation system. Productions and attractions are not the same as origins and destinations, and conversion to the latter is carried out in a later stage of the model.

Table 2-2 lists the land use trip rates for AM and PM peak hours together with the total ADT rate. Table 2-3 lists the factors used to split the ADT trip generation into productions and attractions by purpose.

Table 2-2

## ADT AND PEAK HOUR TRIP RATE SUMMARY

Land Use	Units	AM Peak Hour			PM Peak Hour			ADT
		In	Out	Total	In	Out	Total	
1. Single Family (<1du/ac)	DU	.29	.67	.96	.84	.36	1.20	9.90
2. Single Family (1-5du/ac)	DU	.19	.56	.75	.64	.37	1.01	9.90
3. Single Family (6-10du/ac)	DU	.19	.56	.75	.64	.37	1.01	9.90
4. Condominium/Townhouse	DU	.10	.48	.58	.47	.26	.73	8.00
5. Apartment	DU	.08	.43	.51	.41	.21	.62	6.90
6. Mobile Home	DU	.08	.32	.40	.35	.21	.56	6.90
7. Senior (Active)	DU	.08	.12	.20	.16	.10	.26	3.71
10. Commercial Center (>30ac)	TSF	.47	.30	.77	1.64	1.78	3.42	40.06
11. Commercial Center (10-30a)	TSF	.73	.47	1.20	2.38	2.58	4.96	54.06
12. Commercial Center (<10ac)	TSF	1.09	.69	1.78	3.32	3.60	6.92	85.06
13. Commercial Shops	TSF	.72	.48	1.20	1.80	1.80	3.60	37.06
14. Hotel	ROOM	.34	.22	.56	.32	.29	.61	8.23
15. Sit-Down Restaurant	TSF	4.82	4.45	9.27	6.52	4.34	10.86	130.34
16. Fast Food Restaurant	TSF	25.43	24.43	49.86	17.41	16.07	33.48	496.12
17. Movie Theater	SEAT	.00	.00	.00	.05	.02	.07	1.76
18. Health Club	TSF	.96	.64	1.60	2.16	1.44	3.60	40.00
19. Car Dealership	TSF	1.61	.60	2.21	1.12	1.68	2.80	37.5
20. Elementary/Middle School	STU	.26	.20	.46	.08	.09	.17	1.45
21. High School	STU	.32	.14	.46	.06	.09	.15	1.79
22. College	STU	.13	.01	.14	.07	.14	.21	1.54
23. Hospital	TSF	.71	.26	.97	.22	.70	.92	16.8
24. Library	TSF	.76	.30	1.06	3.40	3.69	7.09	84.98
25. Church	TSF	.39	.33	.72	.36	.30	.66	9.30
26. Day Care	STU	.43	.38	.81	.40	.46	.86	4.52
30. Industrial Park	TSF	.55	.10	.65	.13	.52	.65	6.00
31. Business Park	TSF	1.20	.23	1.43	.30	.99	1.29	10.20
32. Manufacturing/Warehouse	TSF	.56	.17	.73	.27	.47	.74	5.10
33. Science/Research	TSF	1.03	.21	1.24	.16	.92	1.08	10.20
34. Utilities	TSF	.00	.00	.00	.00	.00	.00	2.38
35. Regional Post Office	TSF	.20	.15	.35	.15	.15	.30	5.00
40. Commercial Office	TSF	1.55	.19	1.74	.21	1.29	1.50	11.56
41. High-Rise Office	TSF	1.37	.19	1.56	.25	1.24	1.49	10.88
42. Medical Office	TSF	1.94	.49	2.43	.99	2.67	3.66	34.20
43. Post Office	TSF	4.17	3.85	8.02	5.50	5.29	10.79	108.19
50. Golf Course	AC	.15	.06	.21	.10	.20	.30	7.96
51. Developed Park	AC	.00	.00	.00	.03	.04	.07	2.60
52. Undeveloped Park	AC	.00	.00	.00	.00	.00	.00	.50

(continued)



Table 2-2 (continued)  
 ADT AND PEAK HOUR TRIP RATE SUMMARY

Land Use	Units	AM Peak Hour			PM Peak Hour			ADT
		In	Out	Total	In	Out	Total	
53. Wayside Honor Ranch	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
54. Six Flags Magic Mtn	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
55. Travel Village	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
56. CHP Office	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
57. Agua Dulce Airport	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
58. Landfill	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
59. Cemex	SG	3.60	3.75	7.35	2.00	2.25	4.25	100.00

Abbreviations: DU – dwelling unit  
 TSF – thousand square feet  
 Stu – student  
 AC – acre  
 SG – special generator

Table 2-3

## ADT TRIP RATE AND P&amp;A SPLITTING FACTOR SUMMARY

Land Use Type	Units	ADT Tripend Rate	Productions/ Attractions	Splitting Factors						P&A Total
				H-W	H-S	H-O	O-W	O-O	Total	
1. Single Family (<1du/ac)	DU	9.9	P's	.22	.15	.27	.02	.11	.77	1.00
			A's	.00	.00	.10	.02	.11	.23	
2. Single Family (1-5du/ac)	DU	9.9	P's	.22	.15	.27	.02	.11	.77	1.00
			A's	.00	.00	.10	.02	.11	.23	
3. Single Family (6-10du/ac)	DU	9.9	P's	.22	.15	.27	.02	.11	.77	1.00
			A's	.00	.00	.10	.02	.11	.23	
4. Condominium/ Townhouse	DU	8	P's	.20	.17	.34	.02	.09	.82	1.00
			A's	.00	.00	.07	.02	.09	.18	
5. Apartment	DU	6.9	P's	.20	.17	.34	.02	.09	.82	1.00
			A's	.00	.00	.07	.02	.09	.18	
6. Mobile Home	DU	6.9	P's	.20	.17	.34	.02	.09	.82	1.00
			A's	.00	.00	.07	.02	.09	.18	
7. Senior (Active)	DU	3.71	P's	.05	.22	.41	.02	.10	.80	1.00
			A's	.00	.00	.08	.02	.10	.20	
10. Commercial Center (≥30ac)	TSF	40.06	P's	.00	.00	.00	.03	.25	.28	1.00
			A's	.09	.20	.15	.03	.25	.72	
11. Commercial Center (10-30a)	TSF	54.06	P's	.00	.00	.00	.03	.25	.28	1.00
			A's	.09	.20	.15	.03	.25	.72	
12. Commercial Center (<10ac)	TSF	85.06	P's	.00	.00	.00	.03	.30	.33	1.00
			A's	.06	.15	.13	.03	.30	.67	
13. Commercial Shops	TSF	37.06	P's	.00	.00	.00	.03	.30	.33	1.00
			A's	.06	.15	.13	.03	.30	.67	
14. Hotel	Room	8.23	P's	.00	.00	.00	.06	.18	.24	1.00
			A's	.12	.00	.40	.06	.18	.76	
15. Sit-Down Restaurant	TSF	130.34	P's	.00	.00	.00	.06	.24	.30	1.00
			A's	.04	.00	.36	.06	.24	.70	
16. Fast Food Restaurant	TSF	496.12	P's	.00	.00	.00	.07	.31	.38	1.00
			A's	.01	.00	.23	.07	.31	.62	
17. Movie Theater	Seat	1.76	P's	.00	.00	.00	.00	.31	.31	1.00
			A's	.08	.00	.30	.00	.31	.69	
18. Health Club	TSF	40	P's	.00	.00	.00	.01	.25	.26	1.00
			A's	.06	.00	.42	.01	.25	.74	
19. Car Dealership	TSF	37.5	P's	.00	.00	.00	.03	.25	.28	1.00
			A's	.08	.21	.15	.03	.25	.72	
20. Elementary/ Middle School	STU	1.45	P's	.00	.00	.00	.00	.03	.03	1.00
			A's	.10	.58	.26	.00	.03	.97	
21. High School	STU	1.79	P's	.00	.00	.00	.00	.03	.03	1.00
			A's	.10	.40	.44	.00	.03	.97	
22. College	STU	1.54	P's	.00	.00	.00	.00	.23	.23	1.00
			A's	.06	.00	.48	.00	.23	.77	

(continued)

Table 2-3 (continued)  
ADT TRIP RATE AND P&A SPLITTING FACTOR SUMMARY

Land Use Type	Units	ADT Tripend Rate	Productions/ Attractions	Splitting Factors						P&A Total
				H-W	H-S	H-O	O-W	O-O	Total	
23. Hospital	TSF	16.8	P's	.00	.00	.00	.00	.05	.05	1.00
			A's	.32	.00	.58	.00	.05	.95	
24. Library	TSF	84.98	P's	.00	.00	.00	.09	.17	.26	1.00
			A's	.16	.00	.32	.09	.17	.74	
25. Church	TSF	9.3	P's	.00	.00	.00	.05	.10	.15	1.00
			A's	.35	.00	.35	.05	.10	.85	
26. Day Care	STU	4.52	P's	.00	.00	.00	.00	.03	.03	1.00
			A's	.10	.00	.84	.00	.03	.97	
30. Industrial Park	TSF	6	P's	.00	.00	.00	.07	.21	.28	1.00
			A's	.39	.00	.05	.07	.21	.72	
31. Business Park	TSF	10.2	P's	.00	.00	.00	.07	.21	.28	1.00
			A's	.39	.00	.05	.07	.21	.72	
32. Manufacturing/ Warehouse	TSF	5.1	P's	.00	.00	.00	.07	.21	.28	1.00
			A's	.39	.00	.05	.07	.21	.72	
33. Science/Research	TSF	10.2	P's	.00	.00	.00	.07	.21	.28	1.00
			A's	.39	.00	.05	.07	.21	.72	
34. Utilities	TSF	2.38	P's	.00	.00	.00	.09	.17	.26	1.00
			A's	.19	.00	.29	.09	.17	.74	
35. Regional Post Office	TSF	5	P's	.00	.00	.00	.07	.21	.28	1.00
			A's	.39	.00	.05	.07	.21	.72	
40. Commercial Office	TSF	11.56	P's	.00	.00	.00	.11	.18	.29	1.00
			A's	.27	.00	.15	.11	.18	.71	
41. High-Rise Office	TSF	10.88	P's	.00	.00	.00	.11	.18	.29	1.00
			A's	.27	.00	.15	.11	.18	.71	
42. Medical Office	TSF	34.2	P's	.00	.00	.00	.03	.26	.29	1.00
			A's	.14	.00	.28	.03	.26	.71	
43. Post Office	TSF	108.19	P's	.00	.00	.00	.09	.22	.31	1.00
			A's	.15	.00	.23	.09	.22	.69	
50. Golf Course	AC	7.96	P's	.00	.00	.00	.00	.27	.27	1.00
			A's	.08	.00	.38	.00	.27	.73	
51. Developed Park	AC	2.6	P's	.00	.00	.00	.00	.12	.12	1.00
			A's	.01	.00	.75	.00	.12	.88	
52. Undeveloped Park	AC	0.5	P's	.00	.00	.00	.00	.12	.12	1.00
			A's	.01	.00	.75	.00	.12	.88	
53. Wayside Honor Ranch	SG	100	P's	.00	.00	.00	.00	.17	.17	1.00
			A's	.33	.00	.33	.00	.17	.83	
54. Six Flags Magic Mtn	SG	100	P's	.00	.00	.00	.01	.18	.19	1.00
			A's	.15	.00	.47	.01	.18	.81	
55. Travel Village	SG	100	P's	.00	.00	.00	.01	.25	.26	1.00
			A's	.06	.00	.42	.01	.25	.74	

(continued)

Table 2-3 (continued)  
 ADT TRIP RATE AND P&A SPLITTING FACTOR SUMMARY

Land Use Type	Units	ADT Tripend Rate	Productions/ Attractions	Splitting Factors					P&A Total	
				H-W	H-S	H-O	O-W	O-O		Total
56. CHP Office	SG	100	P's	.00	.00	.00	.11	.18	.29	1.00
			A's	.27	.00	.15	.11	.18	.71	
57. Agua Dulce Airport	SG	100	P's	.00	.00	.00	.04	.18	.22	1.00
			A's	.16	.00	.40	.04	.18	.78	
58. Landfill	SG	100	P's	.00	.00	.00	.11	.18	.29	1.00
			A's	.27	.00	.15	.11	.18	.71	
59. Cemex	SG	100	P's	.00	.00	.00	.11	.18	.29	1.00
			A's	.27	.00	.15	.11	.18	.71	

Abbreviations: DU – dwelling unit  
 TSF – thousand square feet  
 Stu – student  
 AC – acre  
 SG – special generator

The base trip generation rates have been compiled from sources such as the Institute of Transportation Engineers (ITE) Trip Generation Manual, the County's Guidelines for the Preparation of Traffic Impact Studies, and case studies for uses unique to the area.

External trips in the SCVCTM are estimated by means of external cordon trip generation estimates. The cordon P's and A's are derived from travel pattern data and form one part of the zonal tripends by purpose derived as part of the trip generation component. After totaling the P's and A's for the complete model area, any differences between the total P's and A's for each purpose are balanced by adjusting the cordon values.

## 2.4 TRIP DISTRIBUTION

In this component of the travel forecasting model, the zonal trip productions and attractions by purpose are geographically distributed into zone-to-zone trip interchanges. The trip distribution process uses a statistical probability formula to calculate the interchange of trips between zones. This distribution formula is based upon behavioral tendencies of travelers and postulates the trip interchange between zones as being directly proportional to the relative attraction of each of the zones and inversely proportional to some function of the spatial separation (commonly called the gravity model). The measure of spatial separation is zone to zone network travel time. The relationship can be expressed as follows:

$$T_{ij} = \frac{P_i A_j F(t_{ij})}{\sum A_j F(t_{ij})}$$

where  $T_{ij}$  = Trips from zone i to zone j  
 $P_i$  = Trip productions in zone i  
 $A_j$  = Trip attractions in zone j  
 $t_{ij}$  = Travel time from zone i to zone j  
 $F(t_{ij})$  = Distribution function value for  $t_{ij}$

Trip productions and attractions are input from the trip generation component of the model. The output from this process comprises five zone to zone "trip tables," one for each purpose. The trips in each row of each trip table represent the production to attraction trips for that zone to zone interchange.

The distribution functions (or "friction factors" as they are sometimes called) were derived from the Southern California Association of Governments (SCAG) Regional Transportation Plan (RTP) regional model, and were specially calibrated for the SCVCTM which is a land use based model (vs. the socioeconomic based SCAG RTP regional model). For trip distribution, travel times are derived from the network zone to zone times using designated network speeds. Special cordon links are coded into the network to simulate the longer distances associated with external trips. The distribution functions used in the SCVCTM are listed in Appendix B.

The production to attraction trip tables do not have any directional meaning as far as actual trips are concerned. A conversion to origin-destination trips takes place to provide the necessary directionality, and at the same time to combine the five trip purposes. The process involves deriving origin-destination trips for the following three time periods:

1. AM Peak Hour
2. PM Peak Hour
3. Off-peak Period (remainder of the day)

Five attraction-production trip tables are first produced by "inverting" the five production-attraction trip tables into attraction-production format. Conversion factors are then used for deriving the peak period trip tables from the production-attraction trip tables as shown in Table 2-4.

Trip Purpose	AM Peak			PM Peak			Off-Peak			Total		
	P-A	A-P	Total	P-A	A-P	Total	P-A	A-P	Total	P-A	A-P	Total
Home to Work	.300	.004	.304	.030	.305	.335	.170	.191	.361	.500	.500	1.000
Home to Shopping	.060	.010	.070	.100	.140	.240	.340	.350	.690	.500	.500	1.000
Home to Other	.060	.010	.070	.100	.140	.240	.340	.350	.690	.500	.500	1.000
Other to Work	.030	.030	.060	.120	.120	.240	.350	.350	.700	.500	.500	1.000
Other to Other	.030	.030	.060	.120	.120	.240	.350	.350	.700	.500	.500	1.000

As a result of this time period separation process, the ADT volumes comprise a combination of the three individual time period assignments, thereby depicting the different travel patterns that occur during different times of the day.

The final step is to perform a matrix balancing process for each origin-destination trip table to ensure that the peak hour tripends for each zone exactly match the original peak hour trip generation estimates.

## 2.5 TRAFFIC ASSIGNMENT

The traffic assignment methodology used in the SCVCTM involves special procedures that respond to the detailed analysis needs of the study area. These include an incremental capacity constraint loading technique which adjusts link speeds in response to volume/capacity (V/C) ratios.

The network loading procedure is responsive to the effect of increased traffic on any part of the network and simulates the manner in which different drivers use different routes to travel from any given origin to destination. The assignment procedure involves incrementally loading portions of the total trip table during successive iterations and then adjusting network link speeds after each increment is loaded. In calculating the new link speeds, the cumulative loaded volumes are artificially expanded for the purpose of calculating the applicable V/C ratios. For example, the peak hour assignment uses eight iterations with a varying percentage of the trip table being assigned in each iteration. The incremental proportions used in the eight peak hour iterations and the five off-peak iterations are shown in Table 2-5.

Table 2-5  
SCVCTM INCREMENTAL TRAFFIC ASSIGNMENT PARAMETERS

AM and PM Assignments			Off-Peak Assignments		
Iteration	Increment <sup>1</sup>	V/C Basis <sup>2</sup>	Iteration	Increment <sup>1</sup>	V/C Basis <sup>2</sup>
1	25%	65%	1	20%	80%
2	20%	75%	2	20%	90%
3	15%	85%	3	20%	100%
4	10%	95%	4	20%	100%
5	10%	100%	5	20%	100%
6	10%	100%	--	--	--
7	5%	100%	--	--	--
8	5%	100%	--	--	--

<sup>1</sup> Proportion of the total trips (overall trip table) assigned during this iteration.  
<sup>2</sup> Inflated proportion of assigned total trips assumed for the purpose of calculating link V/C ratios.

In the SCVCTM, the speed assumptions reflect the V/C ratios on individual links. During the assignment procedure, speeds are adjusted according to link V/C ratios during each assignment iteration. In addition, individual intersection turn movement penalties are applied. The values used were derived during model calibration which involved calculating each intersection V/C value, examining the capacity

utilization of each turn movement, and then assigning a turn movement penalty. The set of turn penalties are then used as the basis for all forecasting runs of the model.

## 2.6 FORECAST DATA REFINEMENT

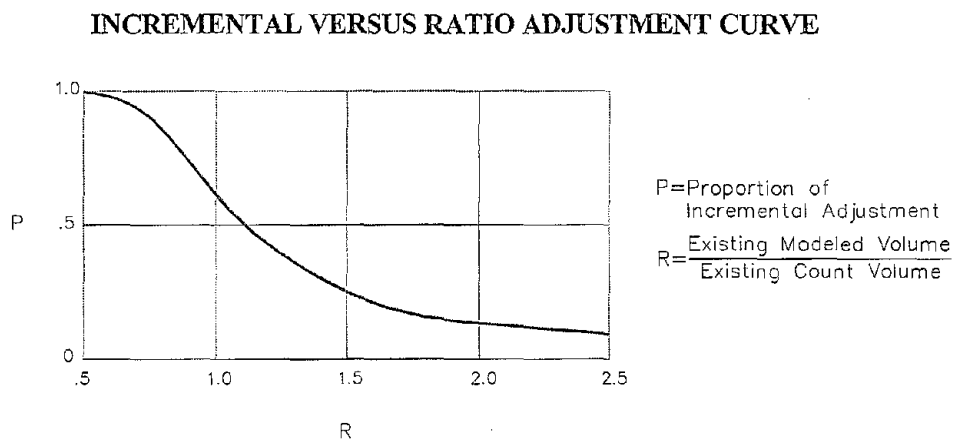
A special set of procedures is used in the SCVCTM to refine raw traffic assignment output data for a forecast year based on the methodology outlined in the National Cooperative Highway Research Program Report 255 (NCHRP 255) published by the Transportation Research Board (see Reference 3 in Section 1.4). Often referred to as "post-processing," the procedures for refining raw traffic model data as set out in NCHRP 255 are to utilize existing counts, existing model data, and future model data in the forecasting process. Essentially, the forecast data is modified based on comparing existing model data and existing counts. The basic assumption is that some of the inaccuracies in the future modeled volumes would be reflected in the existing modeled volumes and hence can be compensated for by utilizing existing count data together with the two sets (existing and future) of modeled volumes.

The NCHRP 255 procedures recognize two methods of adjustment which are referred to as the "incremental" and the "ratio" method. The incremental method takes the difference between the existing model and future model volumes and adds that difference to the existing volumes, whereas the ratio method takes the ratio of the future model to the existing model volumes and applies that ratio to the existing volumes. No guidance is given in NCHRP 255 as to which of these methods is preferable. Hence while the basic approach is described, the actual application is left to the user.

The methodology applied in the SCVCTM features a combination of the incremental and ratio methods, but with an emphasis on the incremental. It recognizes that, in general, traffic models have a better ability to estimate incremental changes rather than absolute volumes. Strict adherence to an incremental approach would imply that the additive method should be used at all times. However, in cases where the existing modeled volume is lower than a corresponding traffic count and where the future modeled volume is lower again (perhaps for legitimate reasons such as traffic diversion to another facility), then such a method can result in negative forecasted volumes.



In the SCVCTM, the proportion of incremental versus ratio adjustment is determined from the following curve:



When the modeled existing volume is lower than the corresponding traffic count, the approach is largely an additive one. When the existing model volume is higher than the count, then there is a combination of the additive and ratio method. Essentially, the larger the difference between the existing modeled volume and the existing count, the less the incremental adjustment. In this manner, the ability to always include some incremental volume adjustment is retained regardless of the existing count versus modeled volume comparison.

For link volumes such as ADT forecasts, existing modeled volumes are compared with existing counts to determine a forecast volume adjustment in the manner described above. For adjusting intersection forecast data, a two step approach is applied. In the first step, adjustments are determined for each individual turn movement at the intersection in the same manner that link volume adjustments are determined. A second step then calculates adjusted entering and exiting leg volume forecasts based on existing count and modeled leg volumes, giving a set of “control volumes” for each leg. Finally, a balancing process is carried out to refine the turn movement volumes so that the entering and exiting volumes match the control values. Table 2-6 provides a sample summary of roadway and intersection forecast refinements using the methodology described here.

## 2.7 MODEL PROCESSING

The SCVCTM is run with the Citilabs (formerly Urban Analysis Group) TRANPLAN modeling package, augmented with some utility modules to assist in trip generation and the post-processing.

Table 2-6

## FORECAST DATA REFINEMENT SAMPLES

## Sample of Forecast ADT Roadway Volume Adjustments

	Existing Count	Existing Modeled Volume	Forecast Volume	Adjusted Forecast Volume
A St east of First St	21,000	23,700	31,300	28,000
B St west of Second St	17,000	14,300	24,100	27,000
C St south of Third St	14,000	15,800	14,300	13,000

## Sample of Forecast Peak Hour Intersection Volume Adjustments

	NORTH LEG				
	SB Left	SB Through	SB Right	Entering Total	Exiting Total
Existing Count	50	500	200	750	800
Existing Modeled Volume	70	580	220	870	860
Forecast Volume	90	650	300	1,040	1,230
Adjusted Forecast Volume	60	570	280	910	1,150

	EAST LEG				
	WB Left	WB Through	WB Right	Entering Total	Exiting Total
Existing Count	100	450	50	600	550
Existing Modeled Volume	130	520	90	740	730
Forecast Volume	180	1,070	160	1,410	1,060
Adjusted Forecast Volume	140	950	90	1,180	820

	SOUTH LEG				
	NB Left	NB Through	NB Right	Entering Total	Exiting Total
Existing Count	150	600	50	800	750
Existing Modeled Volume	230	580	120	930	850
Forecast Volume	320	890	150	1,360	1,000
Adjusted Forecast Volume	210	920	60	1,190	890

	WEST LEG				
	EB Left	EB Through	EB Right	Entering Total	Exiting Total
Existing Count	150	450	150	750	800
Existing Modeled Volume	190	540	140	870	970
Forecast Volume	180	820	170	1,170	1,690
Adjusted Forecast Volume	140	700	180	1,020	1,440

Abbreviations: SB – southbound  
 WB – westbound  
 NB – northbound  
 EB – eastbound

# Chapter 3.0

## TRAFFIC MODEL FORECASTS

A base year version of the SCVCTM was prepared for model validation purposes. Existing (2004) land use data was used as input to the model, and the resulting assigned volumes compared with actual ground counts. This chapter summarizes the results of that validation run and also summarizes a set of long-range forecasts.

### 3.1 TRIP GENERATION

The base year input data contains 2004 land use data and 2004 cordon volumes. Detailed information on the base year SCVCTM land use and the peak hour and ADT trip generation for the model area can be found in the SCVCTM Technical Notebook. The long-range version of the model represents buildout of the General Plans of the City and County and can be generally considered a 2030 time frame, although buildout of the Valley could occur either earlier or later depending on realized growth rates.

As discussed in the trip generation section of the SCVCTM model description, two sets of tripends are prepared in the trip generation component of the model, peak hour inbound and outbound and ADT production-attraction trips by purpose. The productions and attractions are calculated for the total model area (including cordons), and then adjusted so that total productions equal total attractions.

A trip generation summary for 2004 and 2030 is given in Table 3-1. Included here are the peak hour trips by direction and the productions and attractions by purpose. As described in the trip generation section of Chapter 2.0, both sets of tripends are used in the modeling process.

### 3.2 CORDON VOLUMES

The 2004 and 2030 cordon volumes are listed in Table 3-2. The 2004 volumes are obtained from existing counts and the 2030 volumes from regional traffic data and demographic growth projections. The cordon volumes show an average increase of around 85 percent, somewhat higher to the north and lower to the south. The through trip component of the cordon trips show a growth of around 123 percent and the external component about 63 percent. These increases reflect the growth in regional traffic and the growth in the Santa Clarita Valley, respectively.

Table 3-1

## TRIP GENERATION SUMMARY

## I. ORIGIN-DESTINATION TRIPS BY TIME PERIOD

	AM Peak Hour			PM Peak Hour			ADT
	In	Out	Total	In	Out	Total	
2004							
Internal	51.846	59.531	111,377	78.479	71.993	150,472	1,570,034
External	17.850	11.310	29,160	12.330	17.840	30,170	331,200
TOTAL	69.696	70.841	140,537	90.809	89.833	180,642	1,901,234
2030							
Internal	109.644	108.285	217,929	149.542	150.624	300,166	3,094,424
External	22.350	23.430	45,780	23.930	23.020	46,950	539,700
TOTAL	131.994	131,715	263,709	173,472	173,644	347,116	3,634,124

## II. ADT TRIPS BY PURPOSE

	H-W	H-S	H-O	O-W	O-O	Total
2004						
P's	160.003	144.520	262.616	55.158	328.289	950.586
A's	160.016	144.478	262.707	55.158	328.289	950.648
TOTAL	320.019	288.998	525.323	110.316	656.578	1,901.234
2030						
P's	323.023	269.406	460,254	113,852	650,527	1,817,062
A's	323.024	269.343	460,316	113,852	650,527	1,817,062
TOTAL	646,047	538,749	920,570	227,704	1,301,054	3,634,124

Note: Purposes are as follows:

- H-W – Home to Work
- H-S – Home to Shopping
- H-O – Home to Other
- O-W – Other to Work
- O-O – Other to Other

Table 3-2

## SCVCTM CORDON VOLUMES

Cordon Location	AM Peak Hour						PM Peak Hour						ADT		
	From Cordon			To Cordon			From Cordon			To Cordon			Ext.	Thru	Total
	Ext.	Thru	Total	Ext.	Thru	Total	Ext.	Thru	Total	Ext.	Thru	Total			
<b>1. I-5 NORTH</b>															
2004	360	800	1160	280	700	980	460	1450	1910	520	1300	1820	23000	36000	59000
2030	770	2350	3120	480	1800	2280	780	4000	4780	890	3500	4390	39000	103000	142000
Increase (%)	114	194	169	71	157	133	70	176	150	71	169	141	70	186	141
<b>2. LAKE HUGHES ROAD</b>															
2004	120	0	120	80	0	80	100	0	100	120	0	120	2800	0	2800
2030	230	0	230	110	0	110	130	0	130	230	0	230	4600	0	4600
Increase (%)	92		92	38		38	30		30	92		92	64		64
<b>3. SAN FRANCISQUITO</b>															
2004	90	0	90	70	0	70	90	0	90	100	0	100	2400	0	2400
2030	180	0	180	100	0	100	120	0	120	190	0	190	3900	0	3900
Increase (%)	100		100	43		43	33		33	90		90	63		63
<b>4. BOUQUET CANYON ROAD</b>															
2004	140	0	140	130	0	130	150	0	150	170	0	170	4000	0	4000
2030	270	0	270	180	0	180	210	0	210	330	0	330	6200	0	6200
Increase (%)	93		93	38		38	40		40	94		94	55		55
<b>5. SIERRA HIGHWAY</b>															
2004	350	0	350	250	0	250	320	0	320	380	0	380	8200	0	8200
2030	650	0	650	350	0	350	470	0	470	690	0	690	13000	0	13000
Increase (%)	86		86	40		40	47		47	82		82	59		59
<b>6. ESCONDIDO CANYON ROAD</b>															
2004	100	0	100	60	0	60	90	0	90	100	0	100	2400	0	2400
2030	190	0	190	90	0	90	120	0	120	190	0	190	3700	0	3700
Increase (%)	90		90	50		50	33		33	90		90	54		54
<b>7. SR-14 NORTH</b>															
2004	1690	2650	4340	740	1050	1790	1300	850	2150	2090	2150	4240	36000	64000	100000
2030	5390	7320	12710	1100	1650	2750	1820	1300	3120	6190	5810	12000	85000	117000	202000
Increase (%)	219	176	193	49	57	54	40	53	45	196	170	183	136	83	102

(continued)

Table 3-2 (continued)  
SCVCTM CORDON VOLUMES

Cordon Location	AM Peak Hour						PM Peak Hour						ADT		
	From Cordon			To Cordon			From Cordon			To Cordon			Ext.	Thru	Total
	Ext.	Thru	Total	Ext.	Thru	Total	Ext.	Thru	Total	Ext.	Thru	Total			
<b>8. SOLEDAD CANYON ROAD</b>															
2004	120	0	120	90	0	90	120	0	120	120	0	120	4100	0	4100
2030	250	0	250	130	0	130	170	0	170	230	0	230	6300	0	6300
Increase (%)	<b>108</b>		<b>108</b>	<b>44</b>		<b>44</b>	<b>42</b>		<b>42</b>	<b>92</b>		<b>92</b>	<b>54</b>		<b>54</b>
<b>9. SAND CANYON ROAD</b>															
2004	60	0	60	40	0	40	50	0	50	70	0	70	1300	0	1300
2030	210	0	210	60	0	60	70	0	70	130	0	130	2000	0	2000
Increase (%)	<b>250</b>		<b>250</b>	<b>50</b>		<b>50</b>	<b>40</b>		<b>40</b>	<b>86</b>		<b>86</b>	<b>54</b>		<b>54</b>
<b>10. I-5 SOUTH</b>															
2004	7350	1250	8600	14730	2950	17680	13570	2950	16520	7710	1800	9510	215000	83000	298000
2030	12410	2700	15110	17910	8920	26830	16980	8560	25540	12180	4550	16730	317000	198000	515000
Increase (%)	<b>69</b>	<b>116</b>	<b>76</b>	<b>22</b>	<b>202</b>	<b>52</b>	<b>25</b>	<b>190</b>	<b>55</b>	<b>58</b>	<b>153</b>	<b>76</b>	<b>47</b>	<b>139</b>	<b>73</b>
<b>11. SAN FERNANDO ROAD</b>															
2004	480	0	480	880	0	880	1040	0	1040	500	0	500	18000	0	18000
2030	2060	0	2060	1160	0	1160	1440	0	1440	1870	0	1870	38000	0	38000
Increase (%)	<b>329</b>		<b>329</b>	<b>32</b>		<b>32</b>	<b>38</b>		<b>38</b>	<b>274</b>		<b>274</b>	<b>111</b>		<b>111</b>
<b>12. SR-126 WEST</b>															
2004	450	300	750	500	300	800	550	400	950	450	400	850	14000	11000	25000
2030	850	450	1300	650	450	1100	700	550	1250	820	550	1370	21000	14000	35000
Increase (%)	<b>89</b>	<b>50</b>	<b>73</b>	<b>30</b>	<b>50</b>	<b>38</b>	<b>27</b>	<b>38</b>	<b>32</b>	<b>82</b>	<b>38</b>	<b>61</b>	<b>50</b>	<b>27</b>	<b>40</b>
<b>TOTAL</b>															
2004	<b>11310</b>	<b>5000</b>	<b>16310</b>	<b>17850</b>	<b>5000</b>	<b>22850</b>	<b>17840</b>	<b>5650</b>	<b>23490</b>	<b>12330</b>	<b>5650</b>	<b>17980</b>	<b>331200</b>	<b>194000</b>	<b>525200</b>
2030	<b>23460</b>	<b>12820</b>	<b>36280</b>	<b>22320</b>	<b>12820</b>	<b>35140</b>	<b>23010</b>	<b>14410</b>	<b>37420</b>	<b>23940</b>	<b>14410</b>	<b>38350</b>	<b>539700</b>	<b>432000</b>	<b>971700</b>
Increase (%)	<b>107</b>	<b>156</b>	<b>122</b>	<b>25</b>	<b>156</b>	<b>54</b>	<b>29</b>	<b>155</b>	<b>59</b>	<b>94</b>	<b>155</b>	<b>113</b>	<b>63</b>	<b>123</b>	<b>85</b>
<b>FROM/TO DIFFERENCE</b>															
2004						<b>6540</b>							<b>-5510</b>		
2030						<b>-1140</b>							<b>930</b>		

### 3.3 2004 VALIDATION

Figure 3-1 illustrates the 2004 ADT volumes produced by the SCVCTM for the study area together with corresponding observed volumes. Observed volumes were collected throughout the first half of 2004 and the latter half of 2003. A statistical summary of the comparison between observed and modeled link volumes is presented later in this chapter.

A screenline comparison was also carried out by comparing modeled volumes and traffic count totals for screenlines within the SCVCTM study area. A screenline is a hypothetical boundary drawn across a series of somewhat parallel roadways for the purposes of comparing trip distribution patterns. The seven screenlines utilized for this purpose are illustrated in Figure 3-2 and the total ADT modeled volumes and observed counts for each screenline are summarized in Table 3-3. The general standard used in assessing screenlines is a maximum desirable deviation of 10 percent, which is met by all of the seven screenlines analyzed. Just over half of the screenlines have a deviation of less than five percent.

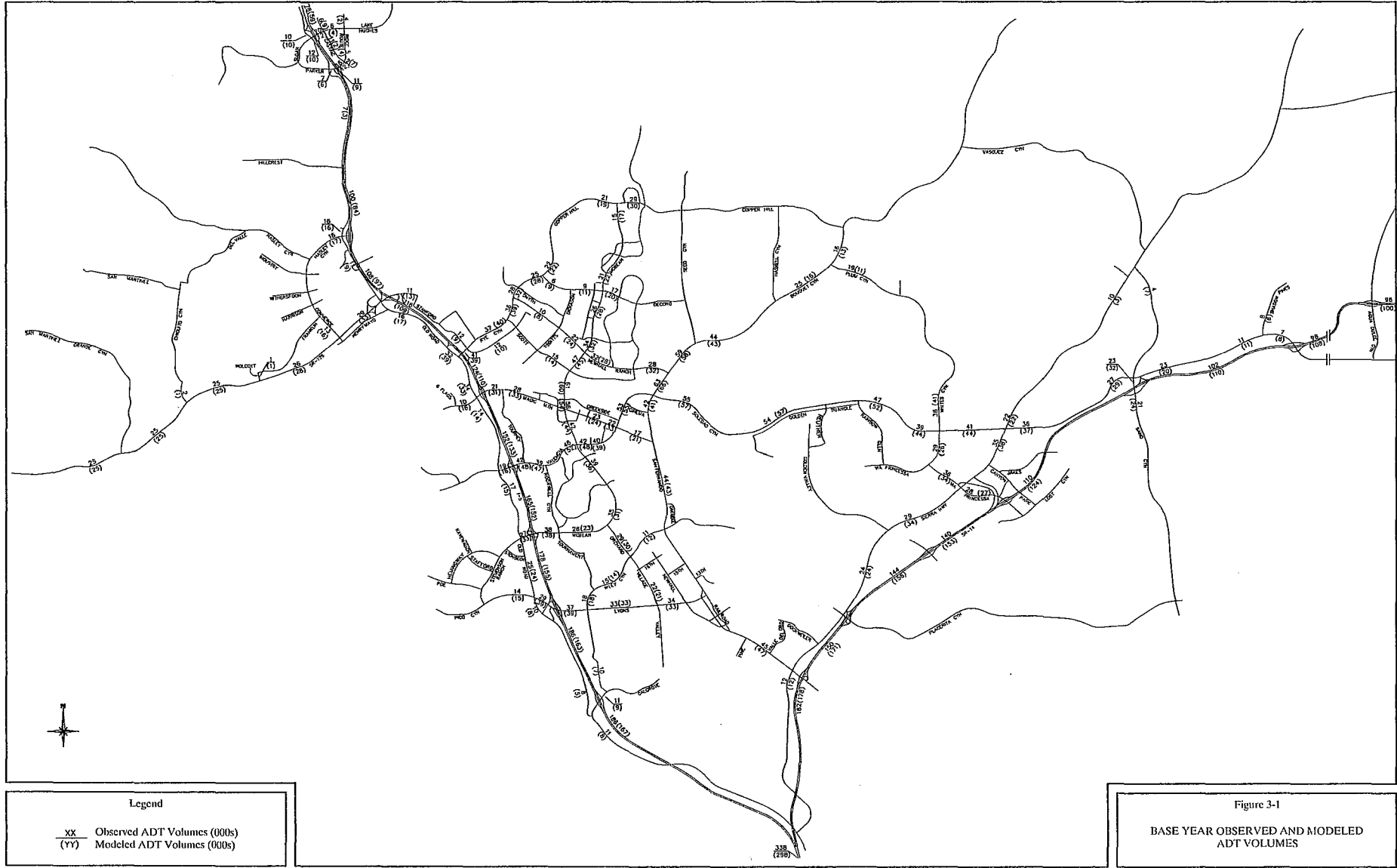
As noted in Chapter 2.0, the SCVCTM has the ability to forecast peak hour intersection turn movement volumes. Intersection capacity utilization (ICU) results from data produced by the model are summarized in Table 3-4 together with the corresponding observed results. Intersection locations are illustrated in Figure 3-3, and detailed ICU calculations are contained in the SCVCTM Technical Notebook. In the next section, statistical summaries are made for the ADT and peak hour data comparisons.

#### 3.3.1 Statistical Analysis

The comparison between observed and modeled volumes allows statistical measures of variation to be calculated. The variable used for these calculations is as follows:

$$V = m - c$$

where V = difference between modeled and count volumes  
m = modeled volume  
c = count volume





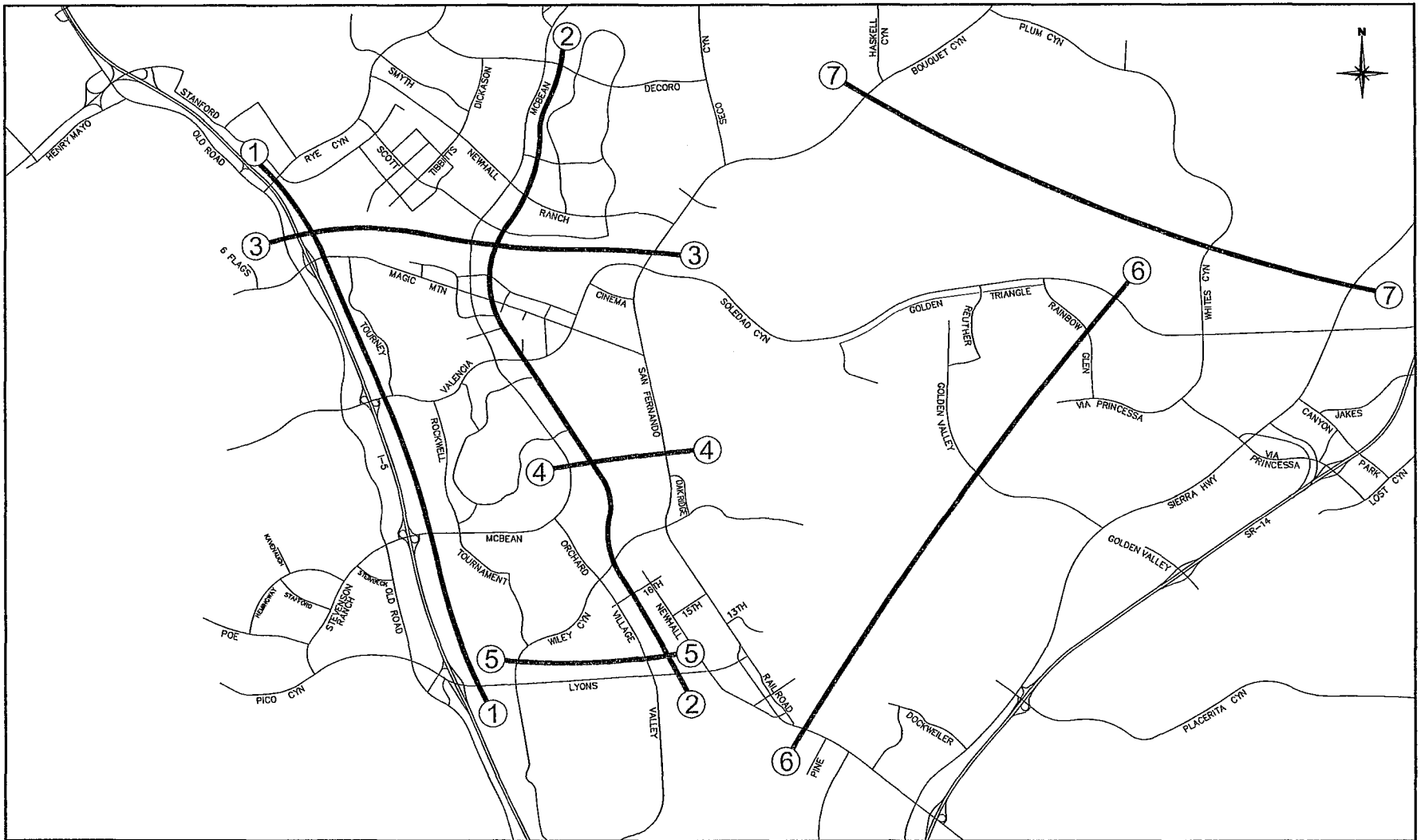


Figure 3-2  
 SCVCTM SCREENLINE LOCATIONS

Table 3-3

2004 SCVCTM ADT SCREENLINE SUMMARY

	<b>Observed Count</b>	<b>Modeled Volume</b>	<b>Difference</b>	<b>Percent Difference</b>
Screenline #1	179,414	194,192	14,778	8.2
Screenline #2	159,400	165,806	6,406	4.0
Screenline #3	157,354	158,614	1,260	0.8
Screenline #4	78,697	73,692	-5,005	-6.4
Screenline #5	40,073	39,627	-446	-1.1
Screenline #6	91,879	98,433	6,554	7.1
Screenline #7	104,000	105,703	1,703	1.6

Note: Volumes exclude freeway trips

Table 3-4

## BASE YEAR PEAK HOUR ICU COMPARISON

Location	AM Peak Hour			PM Peak Hour		
	Count	Modeled	Difference	Count	Modeled	Difference
1. Old Road & I-5 SB Ramps	.33	.32	-.01	.37	.40	.03
2. I-5 NB Ramps & Lake Hughes	.27	.25	-.02	.47	.39	-.08
3. I-5 SB Ramps & Parker	.61	.63	.02	.65	.63	-.02
4. I-5 NB Ramps & Ridge Route	.40	.43	.03	.46	.52	.06
5. I-5 SB & Hasley Cyn	.45	.65	.20	.54	.57	.03
6. I-5 NB & Hasley Cyn	.51	.68	.17	.66	.72	.06
7. I-5 SB Ramps & SR-126	.37	.37	.00	.33	.32	-.01
8. I-5 NB Ramps & SR-126	.65	.80	.15	.71	.77	.06
9. The Old Rd & I-5 SB Ramps	.46	.50	.04	.52	.51	-.01
10. I-5 SB Ramps & Magic Mtn	.51	.61	.10	.48	.50	.02
11. I-5 NB Ramps & Magic Mtn	.68	.71	.03	.69	.67	-.02
12. I-5 SB Ramps & Valencia	.37	.30	-.07	.43	.45	.02
13. I-5 NB Ramps & Valencia	.48	.45	-.03	.48	.49	.01
14. I-5 SB Ramps & Stevenson Rch	.37	.43	.06	.59	.65	.06
15. I-5 NB Ramps & McBean	.34	.42	.08	.54	.63	.09
16. I-5 SB/Marriott & Pico/Lyons	.53	.45	-.08	.60	.62	.02
17. I-5 NB On/Off & Lyons Ave	.53	.65	.12	.70	.75	.05
18. I-5 SB Ramps & Calgrove	.47	.69	.22	.64	.55	-.09
19. I-5 NB Ramps & Calgrove	.64	.77	.13	.50	.53	.03
20. I-5 SB On Ramp & Pico/Lyons	.35	.39	.04	.46	.44	-.02
21. Calgrove Blvd & The Old Rd	.40	.26	-.14	.45	.35	-.10
25. The Old Rd & Rye Canyon	1.10	1.05	-.05	1.10	1.01	-.09
26. The Old Rd & Magic Mountain	.70	.63	-.07	.69	.71	.02
27. The Old Rd & Valencia	.28	.32	.04	.39	.48	.09
29. The Old Rd & Pico Canyon	.51	.39	-.12	.56	.54	-.02
30. Ave Stanford & Rye Canyon	.61	.55	-.06	.80	.74	-.06
32. Ave Scott & Rye Canyon	.70	.63	-.07	.71	.68	-.03
33. Rye/Copper Hill & NRR	.59	.56	-.03	.58	.46	-.12
35. Copper Hill & Decoro	.58	.54	-.04	.49	.44	-.05
36. Tourney & Valencia	.50	.55	.05	.47	.49	.02
37. Tourney & Magic Mountain	.43	.51	.08	.57	.60	.03
39. Ave Tibbits/Dickason & NRR	.40	.36	-.04	.36	.46	.10
41. Dickason & Decoro	.37	.34	-.03	.25	.35	.10
44. McBean & Valencia	.61	.70	.09	.72	.76	.04
45. McBean & Magic Mtn	.55	.64	.09	.88	.89	.01
47. McBean & Scott/Bridgeport	.68	.77	.09	.57	.56	-.01
48. McBean & Newhall Ranch	.65	.74	.09	.72	.77	.05
49. McBean Pkwy & Decoro Dr	.54	.59	.05	.50	.61	.11

Table 3-4 (cont)  
BASE YEAR PEAK HOUR ICU COMPARISON

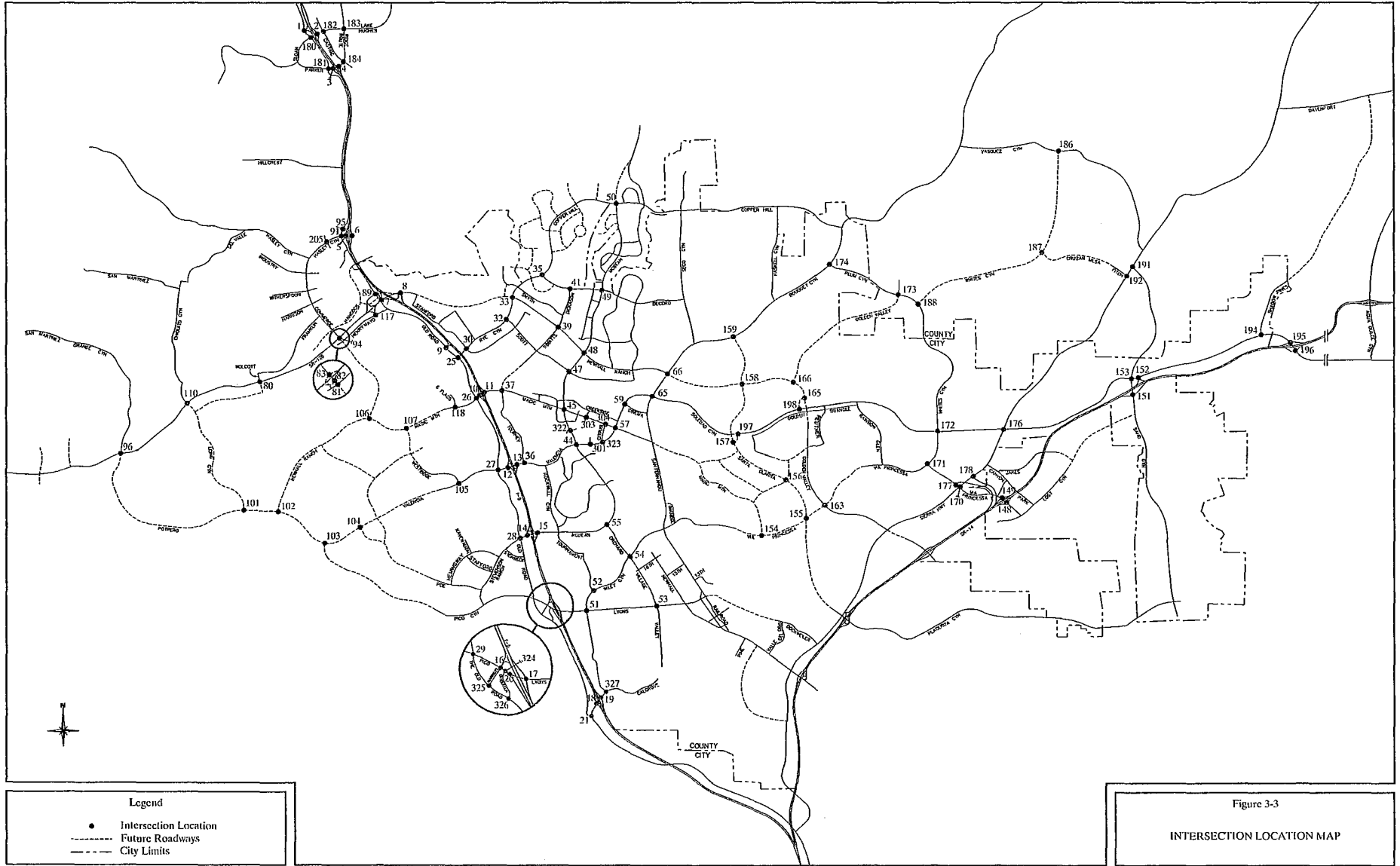
Location	AM Peak Hour			PM Peak Hour		
	Count	Modeled	Difference	Count	Modeled	Difference
50. McBean Pkwy & Copper Hill	.62	.54	-.08	.80	.60	-.20
51. Wiley Cyn & Lyons	.43	.63	.20	.74	.64	-.10
52. Tournament & Wiley Cyn	.37	.43	.06	.45	.37	-.08
53. Orchard Village & Lyons	.49	.48	-.01	.6	.61	.01
54. Orchard Village & Wiley Cyn	.38	.49	.11	.57	.61	.04
55. Orchard Village & McBean	.57	.50	-.07	.78	.73	-.05
57. Valencia & Magic Mtn	.62	.62	.00	.72	.87	.15
59. Valencia & Cinema	.53	.56	.03	.73	.73	.00
65. Bouquet & Soledad	.78	.70	-.08	.99	1.02	.03
66. Bouquet & Newhall Ranch	.87	.83	-.04	.85	.71	-.14
80. Wolcott & SR-126	.32	.34	.02	.39	.38	-.01
89. Old Road & SR-126 WB Ramps	.31	.32	.01	.30	.25	-.05
91. Old Road & Hasley Cyn	.70	.67	-.03	.63	.66	.03
94. Commerce Center & SR-126	.47	.61	.14	.60	.66	.06
95. The Old Rd & Sedona Way	.57	.39	-.18	.37	.40	.03
96. San Martinez Cyn & SR-126	.29	.33	.04	.38	.37	-.01
110. Chiquito Cyn & SR-126	.34	.33	-.01	.41	.37	-.04
117. SR-126 EB Ramp & Henry Mayo	.18	.34	.16	.20	.35	.15
148. SR-14 NB & Via Princessa	.46	.42	-.04	.68	.87	.19
149. SR-14 SB & Via Princessa	.64	1.02	.38	.49	.61	.12
151. Sand Cyn & SR-14 NB Ramps	.39	.59	.20	.66	.92	.26
152. SR-14 SB Rmps & Soledad Cyn	.54	1.00	.46	.59	.65	.06
153. Sand Cyn & Soledad Cyn	.64	.69	.05	.67	.72	.05
170. Sierra Hwy & Via Princessa	.59	.65	.06	.62	.74	.12
171. Whites Cyn & Via Princessa	.50	.47	-.03	.63	.48	-.15
172. Whites Cyn & Soledad Canyon	.86	.84	-.02	.92	.87	-.05
173. Santa Catarina/GVR & Plum	.71	.39	-.32	.66	.45	-.21
174. Bouquet Canvon & Plum Cyn	.69	.33	-.36	.58	.38	-.20
176. Sierra Hwy & Soledad Cyn	.70	.80	.10	.85	.93	.08
177. SR-14 SB On & Via Princessa	.37	.36	-.01	.46	.45	-.01
178. Sierra Hwy & SR-14 NB Off	.46	.44	-.02	.54	.43	-.11
180. Old Road & Sloan/Lake Hughes	.27	.23	-.04	.33	.35	.02
181. Old Road & Parker	.43	.33	-.10	.53	.35	-.18
182. Castaic & Lake Hughes	.30	.28	-.02	.37	.30	-.07
183. Ridge Route & Lake Hughes	.29	.20	-.09	.18	.15	-.03
184. Castaic & Ridge Route	.29	.30	.01	.38	.37	-.01
191. Sierra Hwy & Sand Cyn	.47	.39	-.08	.45	.50	.05
194. Shadow Pines & Soledad Cyn	.27	.35	.08	.35	.43	.08
195. Soledad Cyn & SR-14 SB	.19	.25	.06	.15	.20	.05
196. Soledad Cyn & SR-14 NB	.24	.41	.17	.26	.45	.19
205. Cambridge & Hasley Cyn	.46	.55	.09	.34	.33	-.01

Table 3-4 (cont)  
 BASE YEAR PEAK HOUR ICU COMPARISON

Location	AM Peak Hour			PM Peak Hour		
	Count	Modeled	Difference	Count	Modeled	Difference
301. Mall Entrance & Valencia	.40	.48	.08	.54	.61	.07
303. Auto Center & Magic Mtn	.28	.28	.00	.45	.41	-.04
304. Citrus & Magic Mtn	.36	.33	-.03	.48	.54	.06
322. McBean & So Mall Entrance	.38	.42	.04	.59	.71	.12
323. Citrus & Valencia	.48	.47	-.01	.65	.48	-.17
324. Chiquella & Pico Cyn	.47	.49	.02	.52	.43	-.09
325. Marriott Wy & The Old Rd	.32	.13	-.19	.50	.36	-.14
326. Chiquella & The Old Rd	.32	.47	.15	.58	.57	-.01
327. Wiley Cyn & Calgrove	.48	.45	-.03	.51	.47	-.04

AM SAMPLE SIZE	= 88	PM SAMPLE SIZE	= 88
AVERAGE COUNT	= .48	AVERAGE COUNT	= .55
AVERAGE MODELED	= .50	AVERAGE MODELED	= .55
AVERAGE DIFFERENCE	= .02	AVERAGE DIFFERENCE	= .00
STANDARD DEVIATION	= .12	STANDARD DEVIATION	= .09

Note: All ICUs calculated using the methodology of the City of Santa Clarita for this statistical comparison



The results of this statistical analysis for a set of links and intersections in the study area are summarized as follows (detailed statistical analysis summaries can be found in Appendix D):

	Sample Size	Average Observed	Average Modeled	Difference	Standard Deviation
ADT	122	24,677	25,142	465	3,666
AM Peak Hour	326	1,311	1,330	19	305
PM Peak Hour	324	1,584	1,593	9	303
ICUs: AM Peak Hour	88	.48	.50	.02	.12
PM Peak Hour	88	.55	.55	.00	.09

The ADT results do not include freeway volumes, and are intended to show statistical variation on the study area arterial system. The peak hour statistical analysis utilizes midblock volumes derived from observed and modeled intersection approach volumes, and the ICU analysis uses the ICU comparison data presented earlier. The statistical summary indicates that the average modeled results are close to the observed and hence the total amount of traffic on the arterial roadway system appears to realistically match the counts. Statistical variation is well within acceptable limits for models of this type (5,000 - 10,000 ADT standard deviation).

The general order of magnitude of variation indicated from these results can be expressed in the form of confidence limits as follows:

ADT	67% confidence limits	+/- 3,700 ADT
	90% confidence limits	+/- 5,900 ADT
Peak Hour	67% confidence limits	300 VPH
	90% confidence limits	480 VPH
ICU	67% confidence limits	+/- .10
	90% confidence limits	+/- .16

The 90 percent confidence limits represent the volume range within which 90 percent of the link volumes would fall (i.e., only 10 percent of the links would have volumes outside this range). Both the two-thirds and 90 percent confidence limits are commonly used in evaluating the reliability of data that is subject to statistical variation.

### 3.4 LONG-RANGE TRAFFIC FORECASTS

This section presents SCVCTM forecasts for the long-range version of the model. The results are based on specific land use and circulation assumptions used in a baseline version of the model. As noted earlier in this chapter, the long-range land use represents buildout of the General Plans of the City and County and can generally be considered a 2030 timeframe. Subsequent runs of SCVCTM will address individual development applications, as well as the combined (cumulative) effect of multiple proposals, and forecast data contained in technical reports for those applications will not necessarily correspond to the data presented here. Appendix E contains summaries of existing and long-range land use data by traffic zone.

Figure 3-4 shows long-range ADT traffic volumes on the circulation system. These are based on the current Master Plan of Highways for this area, and reflect the land use and external trip inputs summarized in the respective appendices.





# Appendix A

## TRIP GENERATION

This appendix summarizes the trip generation rates used in the Santa Clarita Valley Consolidated Traffic Model (SCVCTM), and summarizes the total model area trip generation and cordon volume summaries for the two model versions described in this report (2004 and long-range General Plan). The following tables are included in this appendix:

Table A-1	ADT and Peak Hour Trip Rate Summary
Table A-2	Land Use and Trip Generation Summaries
Table A-3	ADT Trip Rate and P&A Splitting Factor Summary
Table A-4	Land Use and P&A Trip Generation Summaries
Table A-5	Cordon Through Trips

Table A-1

## ADT AND PEAK HOUR TRIP RATE SUMMARY

Land Use Type	Units	-- AM Peak Hour --			-- PM Peak Hour --			ADT
		In	Out	Total	In	Out	Total	
1. Single Family (<1du/ac)	DU	0.29	0.67	0.96	0.84	0.36	1.20	9.90
2. Single Family (1-5du/ac)	DU	0.19	0.56	0.75	0.64	0.37	1.01	9.90
3. Single Family (6-10du/ac)	DU	0.19	0.56	0.75	0.64	0.37	1.01	9.90
4. Condominium/Townhouse	DU	0.10	0.48	0.58	0.47	0.26	0.73	8.00
5. Apartment	DU	0.08	0.43	0.51	0.41	0.21	0.62	6.90
6. Mobile Home	DU	0.08	0.32	0.40	0.35	0.21	0.56	6.90
7. Senior (Active)	DU	0.08	0.12	0.20	0.16	0.10	0.26	3.71
10. Commercial Center (>30ac)	TSF	0.47	0.30	0.77	1.64	1.78	3.42	40.06
11. Commercial Center(10-30a)	TSF	0.73	0.47	1.20	2.38	2.58	4.96	54.06
12. Commercial Center (<10ac)	TSF	1.09	0.69	1.78	3.32	3.60	6.92	85.06
13. Commercial Shops	TSF	0.72	0.48	1.20	1.80	1.80	3.60	37.06
14. Hotel	ROOM	0.34	0.22	0.56	0.32	0.29	0.61	8.23
15. Sit-Down Restaurant	TSF	4.82	4.45	9.27	6.52	4.34	10.86	130.34
16. Fast Food Restaurant	TSF	25.43	24.43	49.86	17.41	16.07	33.48	496.12
17. Movie Theater	SEAT	0.00	0.00	0.00	0.05	0.02	0.07	1.76
18. Health Club	TSF	0.96	0.64	1.60	2.16	1.44	3.60	40.00
19. Car Dealership	TSF	1.61	0.60	2.21	1.12	1.68	2.80	37.50
20. Elementary/Middle School	STU	0.26	0.20	0.46	0.08	0.09	0.17	1.45
21. High School	STU	0.32	0.14	0.46	0.06	0.09	0.15	1.79
22. College	STU	0.13	0.01	0.14	0.07	0.14	0.21	1.54
23. Hospital	TSF	0.71	0.26	0.97	0.22	0.70	0.92	16.80
24. Library	TSF	0.76	0.30	1.06	3.40	3.69	7.09	84.98
25. Church	TSF	0.39	0.33	0.72	0.36	0.30	0.66	9.30
26. Day Care	STU	0.43	0.38	0.81	0.40	0.46	0.86	4.52
30. Industrial Park	TSF	0.55	0.10	0.65	0.13	0.52	0.65	6.00
31. Business Park	TSF	1.20	0.23	1.43	0.30	0.99	1.29	10.20
32. Manufacturing/Warehouse	TSF	0.56	0.17	0.73	0.27	0.47	0.74	5.10
33. Science/Research	TSF	1.03	0.21	1.24	0.16	0.92	1.08	10.20
34. Utilities	TSF	0.00	0.00	0.00	0.00	0.00	0.00	2.38
35. Regional Post Office	TSF	0.20	0.15	0.35	0.15	0.15	0.30	5.00
40. Commercial Office	TSF	1.55	0.19	1.74	0.21	1.29	1.50	11.56
41. High-Rise Office	TSF	1.37	0.19	1.56	0.25	1.24	1.49	10.88
42. Medical Office	TSF	1.94	0.49	2.43	0.99	2.67	3.66	34.20
43. Post Office	TSF	4.17	3.85	8.02	5.50	5.29	10.79	108.19
50. Golf Course	AC	0.15	0.06	0.21	0.10	0.20	0.30	7.96
51. Developed Park	AC	0.00	0.00	0.00	0.03	0.04	0.07	2.60
52. Undeveloped Park	AC	0.00	0.00	0.00	0.00	0.00	0.00	0.50
53. Wayside Honor Ranch	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
54. Six Flags Magic Mtn	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
55. Travel Village	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00

Table A-1 (cont.)

## ADT AND PEAK HOUR TRIP RATE SUMMARY

Land Use Type	Units	-- AM Peak Hour --			-- PM Peak Hour --			ADT
		In	Out	Total	In	Out	Total	
56. CHP Office	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
57. Agua Dulce Airport	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
58. Landfill	SG	3.00	2.00	5.00	4.00	6.00	10.00	100.00
59. Cemex	SG	3.60	3.75	7.35	2.00	2.25	4.25	100.00

Table A-2

## SCVCTM 4.0 2004 LAND USE AND TRIP GENERATION SUMMARY

Land Use Type	Units	-- AM Peak Hour --			-- PM Peak Hour --			ADT
		In	Out	Total	In	Out	Total	
1. Single Family (<1du/ac)	300.00 DU	87	201	288	253	108	361	2970
2. Single Family (1-5du/ac)	42731.00 DU	8126	23922	32048	27350	15811	43161	423044
3. Single Family (6-10du/ac)	5812.00 DU	1104	3256	4360	3718	2152	5870	57538
4. Condominium/Townhouse	23519.00 DU	2350	11287	13637	11055	6119	17174	188152
5. Apartment	2108.00 DU	169	907	1076	863	442	1305	14545
6. Mobile Home	2464.00 DU	197	789	986	865	519	1384	17002
10. Commercial Center (>30ac)	2675.04 TSF	1258	803	2061	4386	4762	9148	107163
11. Commercial Center(10-30a)	4203.47 TSF	3071	1973	5044	10003	10844	20847	227240
12. Commercial Center (<10ac)	1307.47 TSF	1425	905	2330	4340	4706	9046	111212
13. Commercial Shops	1168.87 TSF	840	561	1401	2104	2104	4208	43318
14. Hotel	985.00 ROOM	334	216	550	316	286	602	8107
15. Sit-Down Restaurant	210.92 TSF	1017	938	1955	1376	915	2291	27493
16. Fast Food Restaurant	47.58 TSF	1210	1162	2372	829	763	1592	23606
17. Movie Theater	3300.00 SEAT	0	0	0	165	66	231	5808
18. Health Club	125.00 TSF	120	80	200	270	180	450	5000
19. Car Dealership	330.50 TSF	533	199	732	370	555	925	12395
20. Elementary/Middle School	32506.00 STU	8453	6501	14954	2602	2929	5531	47140
21. High School	13228.00 STU	4233	1852	6085	794	1191	1985	23678
22. College	18379.00 STU	2390	184	2574	1286	2573	3859	28303
23. Hospital	222.80 TSF	158	58	216	49	156	205	3743
24. Library	53.73 TSF	41	16	57	183	199	382	4567
25. Church	512.89 TSF	202	171	373	183	154	337	4770
26. Day Care	460.00 STU	199	175	374	184	212	396	2079
30. Industrial Park	15517.43 TSF	8536	1551	10087	2019	8069	10088	93103
31. Business Park	1017.92 TSF	1221	236	1457	306	1008	1314	10383
32. Manufacturing/Warehouse	1970.77 TSF	1103	336	1439	534	926	1460	10052
34. Utilities	1121.24 TSF	0	0	0	0	0	0	2668
35. Regional Post Office	764.00 TSF	153	115	268	115	115	230	3820
40. Commercial Office	1170.75 TSF	1816	223	2039	246	1510	1756	13533
42. Medical Office	133.73 TSF	259	65	324	133	357	490	4573
43. Post Office	50.00 TSF	209	193	402	275	265	540	5410
50. Golf Course	753.00 AC	114	45	159	76	151	227	5994
51. Developed Park	250.90 AC	0	0	0	7	11	18	652
52. Undeveloped Park	745.00 AC	0	0	0	0	0	0	373
53. Wayside Honor Ranch	20.00 SG	60	40	100	80	120	200	2000
54. Six Flags Magic Mtn	160.00 SG	480	320	800	640	960	1600	16000
55. Travel Village	26.20 SG	79	52	131	105	157	262	2620
56. CHP Office	55.74 SG	167	111	278	223	334	557	5574
57. Agua Dulce Airport	34.06 SG	102	68	170	136	204	340	3406
58. Landfill	10.00 SG	30	20	50	40	60	100	1000
TOTAL		51846	59531	111377	78479	71993	150472	1570034

Table A-2 (cont.)

## SCVCTM 4.0 LONG RANGE GP LAND USE AND TRIP GENERATION SUMMARY

Land Use Type	Units	-- AM Peak Hour --			-- PM Peak Hour --			ADT
		In	Out	Total	In	Out	Total	
1. Single Family (<1du/ac)	1817.00 DU	527	1218	1745	1526	655	2181	17988
2. Single Family (1-5du/ac)	68913.00 DU	13098	38590	51688	44105	25494	69599	682252
3. Single Family (6-10du/ac)	17629.00 DU	3352	9873	13225	11281	6524	17805	174529
4. Condominium/Townhouse	39509.00 DU	3947	18962	22909	18570	10274	28844	316072
5. Apartment	8510.00 DU	683	3660	4343	3488	1785	5273	58720
6. Mobile Home	2565.00 DU	205	821	1026	900	540	1440	17699
10. Commercial Center (>30ac)	8003.69 TSF	3763	2402	6165	13126	14245	27371	320629
11. Commercial Center(10-30a)	8518.44 TSF	6223	4004	10227	20276	21975	42251	460507
12. Commercial Center (<10ac)	2615.78 TSF	2854	1808	4662	8687	9418	18105	222499
13. Commercial Shops	1656.71 TSF	1190	798	1988	2983	2983	5966	61396
14. Hotel	1406.00 ROOM	477	309	786	451	408	859	11572
15. Sit-Down Restaurant	290.19 TSF	1399	1291	2690	1892	1259	3151	37825
16. Fast Food Restaurant	53.08 TSF	1360	1296	2646	925	851	1776	26335
17. Movie Theater	3300.00 SEAT	0	0	0	165	66	231	5808
18. Health Club	125.00 TSF	120	80	200	270	180	450	5000
19. Car Dealership	441.50 TSF	712	266	978	494	741	1235	16558
20. Elementary/Middle School	48591.00 STU	12634	9718	22352	3889	4378	8267	70465
21. High School	23274.00 STU	7448	3258	10706	1397	2095	3492	41661
22. College	25236.00 STU	3281	253	3534	1766	3533	5299	38863
23. Hospital	222.80 TSF	158	58	216	49	156	205	3743
24. Library	71.40 TSF	54	21	75	243	264	507	6068
25. Church	635.89 TSF	250	211	461	227	191	418	5914
26. Day Care	540.00 STU	233	205	438	216	249	465	2441
30. Industrial Park	40298.54 TSF	22165	4031	26196	5241	20955	26196	241791
31. Business Park	9113.92 TSF	10937	2098	13035	2732	9025	11757	92962
32. Manufacturing/Warehouse	4043.66 TSF	2263	688	2951	1094	1901	2995	20625
34. Utilities	1150.24 TSF	0	0	0	0	0	0	2737
35. Regional Post Office	764.00 TSF	153	115	268	115	115	230	3820
40. Commercial Office	5188.12 TSF	8046	988	9034	1089	6694	7783	59973
42. Medical Office	212.29 TSF	411	103	514	211	567	778	7260
43. Post Office	50.00 TSF	209	193	402	275	265	540	5410
50. Golf Course	1233.00 AC	187	74	261	124	247	371	9815
51. Developed Park	583.80 AC	0	0	0	17	24	41	1518
52. Undeveloped Park	762.50 AC	0	0	0	0	0	0	382
53. Wayside Honor Ranch	30.00 SG	90	60	150	120	180	300	3000
54. Six Flags Magic Mtn	240.00 SG	720	480	1200	960	1440	2400	24000
55. Travel Village	26.20 SG	79	52	131	105	157	262	2620
56. CHP Office	55.74 SG	167	111	278	223	334	557	5574
57. Agua Dulce Airport	51.09 SG	153	102	255	204	307	511	5109
58. Landfill	20.00 SG	60	40	100	80	120	200	2000
59. Cemex	12.84 SG	46	48	94	26	29	55	1284
TOTAL		109644	108285	217929	149542	150624	300166	3094424

Table A-3

## ADT TRIP RATE AND P&amp;A SPLITTING FACTOR SUMMARY

Land Use Type	Units	ADT Tripend Rate	Productions/ Attractions	----- Splitting Factors -----						P&A Total
				H-W	H-S	H-O	O-W	O-O	Total	
1. Single Family (<1du/ac)	DU	9.90	P's	0.22	0.15	0.27	0.02	0.11	0.77	
			A's	0.00	0.00	0.10	0.02	0.11	0.23	1.00
2. Single Family (1-5du/ac)	DU	9.90	P's	0.22	0.15	0.27	0.02	0.11	0.77	
			A's	0.00	0.00	0.10	0.02	0.11	0.23	1.00
3. Single Family (6-10du/ac)	DU	9.90	P's	0.22	0.15	0.27	0.02	0.11	0.77	
			A's	0.00	0.00	0.10	0.02	0.11	0.23	1.00
4. Condominium/Townhouse	DU	8.00	P's	0.20	0.17	0.34	0.02	0.09	0.82	
			A's	0.00	0.00	0.07	0.02	0.09	0.18	1.00
5. Apartment	DU	6.90	P's	0.20	0.17	0.34	0.02	0.09	0.82	
			A's	0.00	0.00	0.07	0.02	0.09	0.18	1.00
6. Mobile Home	DU	6.90	P's	0.20	0.17	0.34	0.02	0.09	0.82	
			A's	0.00	0.00	0.07	0.02	0.09	0.18	1.00
7. Senior (Active)	DU	3.71	P's	0.05	0.22	0.41	0.02	0.10	0.80	
			A's	0.00	0.00	0.08	0.02	0.10	0.20	1.00
10. Commercial Center (>30ac)	TSF	40.06	P's	0.00	0.00	0.00	0.03	0.25	0.28	
			A's	0.09	0.20	0.15	0.03	0.25	0.72	1.00
11. Commercial Center(10-30a)	TSF	54.06	P's	0.00	0.00	0.00	0.03	0.25	0.28	
			A's	0.09	0.20	0.15	0.03	0.25	0.72	1.00
12. Commercial Center (<10ac)	TSF	85.06	P's	0.00	0.00	0.00	0.03	0.30	0.33	
			A's	0.06	0.15	0.13	0.03	0.30	0.67	1.00
13. Commercial Shops	TSF	37.06	P's	0.00	0.00	0.00	0.03	0.30	0.33	
			A's	0.06	0.15	0.13	0.03	0.30	0.67	1.00
14. Hotel	ROOM	8.23	P's	0.00	0.00	0.00	0.06	0.18	0.24	
			A's	0.12	0.00	0.40	0.06	0.18	0.76	1.00
15. Sit-Down Restaurant	TSF	130.34	P's	0.00	0.00	0.00	0.06	0.24	0.30	
			A's	0.04	0.00	0.36	0.06	0.24	0.70	1.00
16. Fast Food Restaurant	TSF	496.12	P's	0.00	0.00	0.00	0.07	0.31	0.38	
			A's	0.01	0.00	0.23	0.07	0.31	0.62	1.00
17. Movie Theater	SEAT	1.76	P's	0.00	0.00	0.00	0.00	0.31	0.31	
			A's	0.08	0.00	0.30	0.00	0.31	0.69	1.00
18. Health Club	TSF	40.00	P's	0.00	0.00	0.00	0.01	0.25	0.26	
			A's	0.06	0.00	0.42	0.01	0.25	0.74	1.00
19. Car Dealership	TSF	37.50	P's	0.00	0.00	0.00	0.03	0.25	0.28	
			A's	0.08	0.21	0.15	0.03	0.25	0.72	1.00
20. Elementary/Middle School	STU	1.45	P's	0.00	0.00	0.00	0.00	0.03	0.03	
			A's	0.10	0.58	0.26	0.00	0.03	0.97	1.00
21. High School	STU	1.79	P's	0.00	0.00	0.00	0.00	0.03	0.03	
			A's	0.10	0.40	0.44	0.00	0.03	0.97	1.00
22. College	STU	1.54	P's	0.00	0.00	0.00	0.00	0.23	0.23	
			A's	0.06	0.00	0.48	0.00	0.23	0.77	1.00

Table A-3 (cont.)

## ADT TRIP RATE AND P&amp;A SPLITTING FACTOR SUMMARY

Land Use Type	Units	ADT Tripend Rate	Productions/ Attractions	----- Splitting Factors -----						P&A Total
				H-W	H-S	H-O	O-W	O-O	Total	
23. Hospital	TSF	16.80	P's	0.00	0.00	0.00	0.00	0.05	0.05	1.00
			A's	0.32	0.00	0.58	0.00	0.05	0.95	
24. Library	TSF	84.98	P's	0.00	0.00	0.00	0.09	0.17	0.26	1.00
			A's	0.16	0.00	0.32	0.09	0.17	0.74	
25. Church	TSF	9.30	P's	0.00	0.00	0.00	0.05	0.10	0.15	1.00
			A's	0.35	0.00	0.35	0.05	0.10	0.85	
26. Day Care	STU	4.52	P's	0.00	0.00	0.00	0.00	0.03	0.03	1.00
			A's	0.10	0.00	0.84	0.00	0.03	0.97	
30. Industrial Park	TSF	6.00	P's	0.00	0.00	0.00	0.07	0.21	0.28	1.00
			A's	0.39	0.00	0.05	0.07	0.21	0.72	
31. Business Park	TSF	10.20	P's	0.00	0.00	0.00	0.07	0.21	0.28	1.00
			A's	0.39	0.00	0.05	0.07	0.21	0.72	
32. Manufacturing/Warehouse	TSF	5.10	P's	0.00	0.00	0.00	0.07	0.21	0.28	1.00
			A's	0.39	0.00	0.05	0.07	0.21	0.72	
33. Science/Research	TSF	10.20	P's	0.00	0.00	0.00	0.07	0.21	0.28	1.00
			A's	0.39	0.00	0.05	0.07	0.21	0.72	
34. Utilities	TSF	2.38	P's	0.00	0.00	0.00	0.09	0.17	0.26	1.00
			A's	0.19	0.00	0.29	0.09	0.17	0.74	
35. Regional Post Office	TSF	5.00	P's	0.00	0.00	0.00	0.07	0.21	0.28	1.00
			A's	0.39	0.00	0.05	0.07	0.21	0.72	
40. Commercial Office	TSF	11.56	P's	0.00	0.00	0.00	0.11	0.18	0.29	1.00
			A's	0.27	0.00	0.15	0.11	0.18	0.71	
41. High-Rise Office	TSF	10.88	P's	0.00	0.00	0.00	0.11	0.18	0.29	1.00
			A's	0.27	0.00	0.15	0.11	0.18	0.71	
42. Medical Office	TSF	34.20	P's	0.00	0.00	0.00	0.03	0.26	0.29	1.00
			A's	0.14	0.00	0.28	0.03	0.26	0.71	
43. Post Office	TSF	108.19	P's	0.00	0.00	0.00	0.09	0.22	0.31	1.00
			A's	0.15	0.00	0.23	0.09	0.22	0.69	
50. Golf Course	AC	7.96	P's	0.00	0.00	0.00	0.00	0.27	0.27	1.00
			A's	0.08	0.00	0.38	0.00	0.27	0.73	
51. Developed Park	AC	2.60	P's	0.00	0.00	0.00	0.00	0.12	0.12	1.00
			A's	0.01	0.00	0.75	0.00	0.12	0.88	
52. Undeveloped Park	AC	0.50	P's	0.00	0.00	0.00	0.00	0.12	0.12	1.00
			A's	0.01	0.00	0.75	0.00	0.12	0.88	
53. Wayside Honor Ranch	SG	100.00	P's	0.00	0.00	0.00	0.00	0.17	0.17	1.00
			A's	0.33	0.00	0.33	0.00	0.17	0.83	
54. Six Flags Magic Mtn	SG	100.00	P's	0.00	0.00	0.00	0.01	0.18	0.19	1.00
			A's	0.15	0.00	0.47	0.01	0.18	0.81	
55. Travel Village	SG	100.00	P's	0.00	0.00	0.00	0.01	0.25	0.26	1.00
			A's	0.06	0.00	0.42	0.01	0.25	0.74	



Table A-3 (cont.)

ADT TRIP RATE AND P&A SPLITTING FACTOR SUMMARY

Land Use Type	Units	ADT Tripend Rate	Productions/ Attractions	----- Splitting Factors -----						P&A Total
				H-W	H-S	H-O	O-W	O-O	Total	
56. CHP Office	SG	100.00	P's	0.00	0.00	0.00	0.11	0.18	0.29	1.00
			A's	0.27	0.00	0.15	0.11	0.18	0.71	
57. Agua Dulce Airport	SG	100.00	P's	0.00	0.00	0.00	0.04	0.18	0.22	1.00
			A's	0.16	0.00	0.40	0.04	0.18	0.78	
58. Landfill	SG	100.00	P's	0.00	0.00	0.00	0.11	0.18	0.29	1.00
			A's	0.27	0.00	0.15	0.11	0.18	0.71	
59. Cemex	SG	100.00	P's	0.00	0.00	0.00	0.11	0.18	0.29	1.00
			A's	0.27	0.00	0.15	0.11	0.18	0.71	

Table A-4

## SCVCTM 4.0 2004 LAND USE AND TRIP GENERATION SUMMARY

Land Use Type	Units	Productions/ Attractions						Total	P&A Total
			H-W	H-S	H-O	O-W	O-O		
1. Single Family (<1du/ac)	300.00 DU	P's	552	445	802	50	327	2286	
		A's	0	0	297	50	327	684	2970
2. Single Family (1-5du/ac)	42731.00 DU	P's	93071	63460	114211	8462	46533	325737	
		A's	0	0	42312	8462	46533	97307	423044
3. Single Family (6-10du/ac)	5812.00 DU	P's	12656	8632	15532	1154	6329	44303	
		A's	0	0	5752	1154	6329	13235	57538
4. Condominium/Townhouse	23519.00 DU	P's	37628	31989	63974	3763	16932	154286	
		A's	0	0	13171	3763	16932	33866	188152
5. Apartment	2108.00 DU	P's	2908	2474	4944	292	1309	11927	
		A's	0	0	1017	292	1309	2618	14545
6. Mobile Home	2464.00 DU	P's	3398	2890	5783	341	1530	13942	
		A's	0	0	1189	341	1530	3060	17002
10. Commercial Center (>30ac)	2675.04 TSF	P's	0	0	0	3215	26791	30006	
		A's	9645	21431	16075	3215	26791	77157	107163
11. Commercial Center(10-30a)	4203.47 TSF	P's	0	0	0	6818	56813	63631	
		A's	20455	45437	34086	6818	56813	163609	227240
12. Commercial Center (<10ac)	1307.47 TSF	P's	0	0	0	3337	33363	36700	
		A's	6672	16683	14457	3337	33363	74512	111212
13. Commercial Shops	1168.87 TSF	P's	0	0	0	1299	12994	14293	
		A's	2598	6500	5634	1299	12994	29025	43318
14. Hotel	985.00 ROOM	P's	0	0	0	486	1458	1944	
		A's	973	0	3246	486	1458	6163	8107
15. Sit-Down Restaurant	210.92 TSF	P's	0	0	0	1649	6597	8246	
		A's	1100	0	9901	1649	6597	19247	27493
16. Fast Food Restaurant	47.58 TSF	P's	0	0	0	1654	7317	8971	
		A's	236	0	5428	1654	7317	14635	23606
17. Movie Theater	3300.00 SEAT	P's	0	0	0	0	1800	1800	
		A's	465	0	1743	0	1800	4008	5808
18. Health Club	125.00 TSF	P's	0	0	0	50	1250	1300	
		A's	300	0	2100	50	1250	3700	5000
19. Car Dealership	330.50 TSF	P's	0	0	0	372	3098	3470	
		A's	992	2604	1859	372	3098	8925	12395
20. Elementary/Middle School	32506.00 STU	P's	0	0	0	0	1416	1416	
		A's	4714	27342	12252	0	1416	45724	47140
21. High School	13228.00 STU	P's	0	0	0	0	710	710	
		A's	2369	9471	10418	0	710	22968	23678
22. College	18379.00 STU	P's	0	0	0	0	6510	6510	
		A's	1698	0	13585	0	6510	21793	28303
23. Hospital	222.80 TSF	P's	0	0	0	0	187	187	
		A's	1197	0	2172	0	187	3556	3743

Table A-4 (cont.)

## SCVCTM 4.0 2004 LAND USE AND TRIP GENERATION SUMMARY

Land Use Type	Units	Productions/ Attractions	H-W	H-S	H-O	O-W	O-O	Total	P&A Total
24. Library	53.73 TSF	P's	0	0	0	411	777	1188	
		A's	730	0	1461	411	777	3379	4567
25. Church	512.89 TSF	P's	0	0	0	240	479	719	
		A's	1661	0	1671	240	479	4051	4770
26. Day Care	460.00 STU	P's	0	0	0	0	62	62	
		A's	209	0	1746	0	62	2017	2079
30. Industrial Park	15517.43 TSF	P's	0	0	0	6519	19554	26073	
		A's	36300	0	4657	6519	19554	67030	93103
31. Business Park	1017.92 TSF	P's	0	0	0	727	2180	2907	
		A's	4050	0	519	727	2180	7476	10383
32. Manufacturing/Warehouse	1970.77 TSF	P's	0	0	0	704	2110	2814	
		A's	3921	0	503	704	2110	7238	10052
34. Utilities	1121.24 TSF	P's	0	0	0	240	452	692	
		A's	506	0	778	240	452	1976	2668
35. Regional Post Office	764.00 TSF	P's	0	0	0	267	802	1069	
		A's	1491	0	191	267	802	2751	3820
40. Commercial Office	1170.75 TSF	P's	0	0	0	1489	2438	3927	
		A's	3648	0	2031	1489	2438	9606	13533
42. Medical Office	133.73 TSF	P's	0	0	0	137	1189	1326	
		A's	640	0	1281	137	1189	3247	4573
43. Post Office	50.00 TSF	P's	0	0	0	487	1190	1677	
		A's	811	0	1245	487	1190	3733	5410
50. Golf Course	753.00 AC	P's	0	0	0	0	1618	1618	
		A's	480	0	2278	0	1618	4376	5994
51. Developed Park	250.90 AC	P's	0	0	0	0	78	78	
		A's	3	0	493	0	78	574	652
52. Undeveloped Park	745.00 AC	P's	0	0	0	0	45	45	
		A's	4	0	279	0	45	328	373
53. Wayside Honor Ranch	20.00 SG	P's	0	0	0	0	340	340	
		A's	660	0	660	0	340	1660	2000
54. Six Flags Magic Mtn	160.00 SG	P's	0	0	0	160	2880	3040	
		A's	2400	0	7520	160	2880	12960	16000
55. Travel Village	26.20 SG	P's	0	0	0	26	655	681	
		A's	157	0	1101	26	655	1939	2620
56. CHP Office	55.74 SG	P's	0	0	0	613	1003	1616	
		A's	1506	0	836	613	1003	3958	5574
57. Agua Dulce Airport	34.06 SG	P's	0	0	0	136	613	749	
		A's	545	0	1363	136	613	2657	3406
58. Landfill	10.00 SG	P's	0	0	0	110	180	290	
		A's	270	0	150	110	180	710	1000
TOTAL		P's	150313	109890	205246	45218	271909	782576	
		A's	113406	129468	227457	45218	271909	787458	1570034

Table A-4

## SCVCTM 4.0 LONG RANGE GP LAND USE AND TRIP GENERATION SUMMARY

Land Use Type	Units	Productions/ Attractions	H-W	H-S	H-O	O-W	O-O	Total	P&A
									Total
1. Single Family (<1du/ac)	1817.00 DU	P's	3959	2697	4859	360	1977	13852	
		A's	0	0	1799	360	1977	4136	17988
2. Single Family (1-5du/ac)	68913.00 DU	P's	150096	102341	184204	13649	75043	525333	
		A's	0	0	68227	13649	75043	156919	682252
3. Single Family (6-10du/ac)	17629.00 DU	P's	38399	26180	47117	3494	19196	134386	
		A's	0	0	17453	3494	19196	40143	174529
4. Condominium/Townhouse	39509.00 DU	P's	63209	53735	107466	6322	28446	259178	
		A's	0	0	22126	6322	28446	56894	316072
5. Apartment	8510.00 DU	P's	11743	9985	19968	1173	5284	48153	
		A's	0	0	4110	1173	5284	10567	58720
6. Mobile Home	2565.00 DU	P's	3537	3008	6020	355	1593	14513	
		A's	0	0	1238	355	1593	3186	17699
10. Commercial Center (>30ac)	8003.69 TSF	P's	0	0	0	9618	80157	89775	
		A's	28857	64129	48093	9618	80157	230854	320629
11. Commercial Center(10-30a)	8518.44 TSF	P's	0	0	0	13812	115130	128942	
		A's	41449	92097	69077	13812	115130	331565	460507
12. Commercial Center (<10ac)	2615.78 TSF	P's	0	0	0	6679	66750	73429	
		A's	13350	33369	28922	6679	66750	149070	222499
13. Commercial Shops	1656.71 TSF	P's	0	0	0	1842	18418	20260	
		A's	3682	9210	7984	1842	18418	41136	61396
14. Hotel	1406.00 ROOM	P's	0	0	0	694	2081	2775	
		A's	1388	0	4634	694	2081	8797	11572
15. Sit-Down Restaurant	290.19 TSF	P's	0	0	0	2268	9078	11346	
		A's	1513	0	13620	2268	9078	26479	37825
16. Fast Food Restaurant	53.08 TSF	P's	0	0	0	1845	8163	10008	
		A's	263	0	6056	1845	8163	16327	26335
17. Movie Theater	3300.00 SEAT	P's	0	0	0	0	1800	1800	
		A's	465	0	1743	0	1800	4008	5808
18. Health Club	125.00 TSF	P's	0	0	0	50	1250	1300	
		A's	300	0	2100	50	1250	3700	5000
19. Car Dealership	441.50 TSF	P's	0	0	0	497	4139	4636	
		A's	1325	3478	2483	497	4139	11922	16558
20. Elementary/Middle School	48591.00 STU	P's	0	0	0	0	2116	2116	
		A's	7049	40866	18318	0	2116	68349	70465
21. High School	23274.00 STU	P's	0	0	0	0	1249	1249	
		A's	4168	16664	18331	0	1249	40412	41661
22. College	25236.00 STU	P's	0	0	0	0	8939	8939	
		A's	2332	0	18653	0	8939	29924	38863
23. Hospital	222.80 TSF	P's	0	0	0	0	187	187	
		A's	1197	0	2172	0	187	3556	3743

Table A-4 (cont.)

## SCVCTM 4.0 LONG RANGE GP LAND USE AND TRIP GENERATION SUMMARY

Land Use Type	Units	Productions/ Attractions	H-W	H-S	H-O	O-W	O-O	Total	P&A Total
24. Library	71.40 TSF	P's	0	0	0	546	1032	1578	
		A's	971	0	1941	546	1032	4490	6068
25. Church	635.89 TSF	P's	0	0	0	297	592	889	
		A's	2065	0	2071	297	592	5025	5914
26. Day Care	540.00 STU	P's	0	0	0	0	73	73	
		A's	245	0	2050	0	73	2368	2441
30. Industrial Park	40298.54 TSF	P's	0	0	0	16927	50779	67706	
		A's	94289	0	12090	16927	50779	174085	241791
31. Business Park	9113.92 TSF	P's	0	0	0	6510	19522	26032	
		A's	36249	0	4649	6510	19522	66930	92962
32. Manufacturing/Warehouse	4043.66 TSF	P's	0	0	0	1444	4330	5774	
		A's	8045	0	1032	1444	4330	14851	20625
34. Utilities	1150.24 TSF	P's	0	0	0	246	464	710	
		A's	519	0	798	246	464	2027	2737
35. Regional Post Office	764.00 TSF	P's	0	0	0	267	802	1069	
		A's	1491	0	191	267	802	2751	3820
40. Commercial Office	5188.12 TSF	P's	0	0	0	6598	10797	17395	
		A's	16186	0	8997	6598	10797	42578	59973
42. Medical Office	212.29 TSF	P's	0	0	0	218	1888	2106	
		A's	1016	0	2032	218	1888	5154	7260
43. Post Office	50.00 TSF	P's	0	0	0	487	1190	1677	
		A's	811	0	1245	487	1190	3733	5410
50. Golf Course	1233.00 AC	P's	0	0	0	0	2649	2649	
		A's	787	0	3730	0	2649	7166	9815
51. Developed Park	583.80 AC	P's	0	0	0	0	188	188	
		A's	11	0	1131	0	188	1330	1518
52. Undeveloped Park	762.50 AC	P's	0	0	0	0	46	46	
		A's	4	0	286	0	46	336	382
53. Wayside Honor Ranch	30.00 SG	P's	0	0	0	0	510	510	
		A's	990	0	990	0	510	2490	3000
54. Six Flags Magic Mtn	240.00 SG	P's	0	0	0	240	4320	4560	
		A's	3600	0	11280	240	4320	19440	24000
55. Travel Village	26.20 SG	P's	0	0	0	26	655	681	
		A's	157	0	1101	26	655	1939	2620
56. CHP Office	55.74 SG	P's	0	0	0	613	1003	1616	
		A's	1506	0	836	613	1003	3958	5574
57. Agua Dulce Airport	51.09 SG	P's	0	0	0	204	920	1124	
		A's	817	0	2044	204	920	3985	5109
58. Landfill	20.00 SG	P's	0	0	0	220	360	580	
		A's	540	0	300	220	360	1420	2000

Table A-4 (cont.)

SCVCTM 4.0 LONG RANGE GP LAND USE AND TRIP GENERATION SUMMARY

Land Use Type	Units	Productions/ Attractions	H-W	H-S	H-O	O-W	O-O	Total	P&A Total
59. Cemex	12.84 SG	P's	0	0	0	141	231	372	
		A's	347	0	193	141	231	912	1284
TOTAL		P's	270943	197946	369634	97642	553347	1489512	
		A's	277984	259813	416126	97642	553347	1604912	3094424

Table A-5

## SCVCTM THROUGH-TRIPS

Cordon Zones		2004				2030			
		AM	PM	Off-Peak	Total	AM	PM	Off-Peak	Total
495	489	300	200	2,929	4,000	400	300	3,476	5,000
489	495	200	300	2,810	4,000	300	400	3,357	5,000
498	489	300	950	8,786	12,000	1,250	3,000	33,345	44,000
489	498	500	1,000	8,310	12,000	1,900	3,400	31,119	44,000
498	495	800	1,800	20,524	27,000	1,250	5,310	34,745	52,000
495	498	2,300	600	21,452	27,000	6,820	900	38,062	52,000
500	489	100	150	1,405	2,000	150	200	1,679	2,500
489	500	100	150	1,405	2,000	150	200	1,679	2,500
500	495	50	50	774	1,000	100	100	1,048	1,500
495	500	50	50	774	1,000	100	100	1,048	1,500
500	498	150	200	1,679	2,500	200	250	1,952	3,000
498	500	150	200	1,679	2,500	200	250	1,952	3,000

Note: Cordon locations are as follows: 489 I-5 (north)  
495 SR-14  
498 I-5 (south)  
500 SR-126 (west)

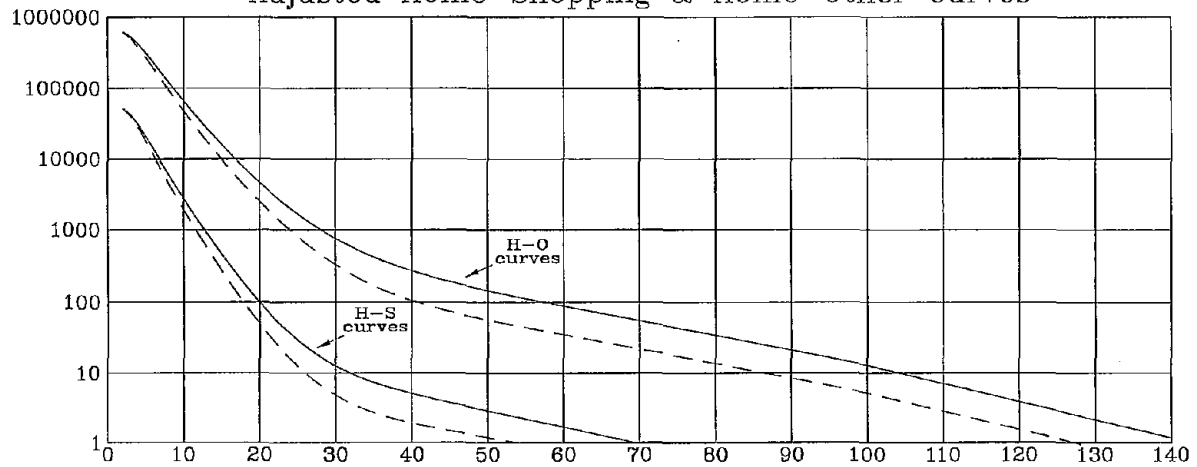
# Appendix B

## **TRIP DISTRIBUTION FUNCTIONS**

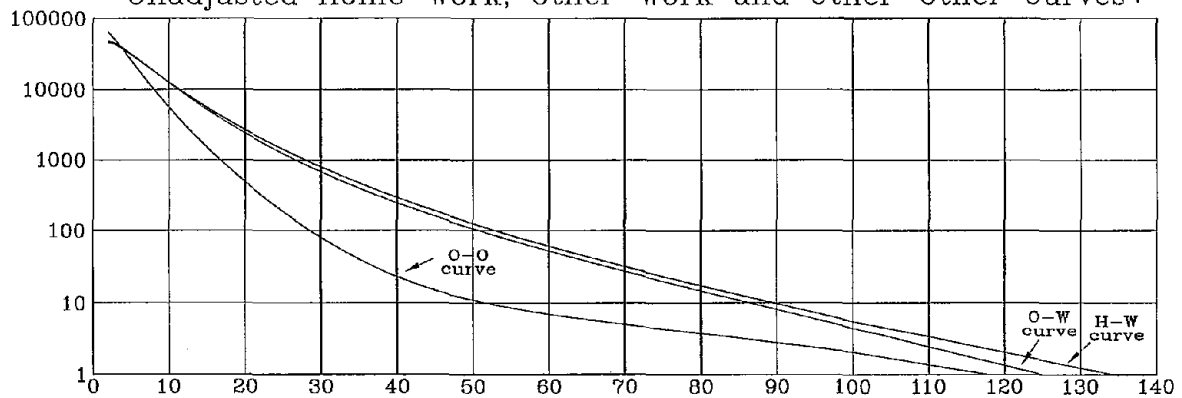
The trip distribution functions used in the SCVCTM are illustrated in Figure B-1 and are listed in Table B-1.



Adjusted Home-Shopping & Home-Other Curves



Unadjusted Home-Work, Other-Work and Other-Other Curves\*



\* SCAG RTP functional curves for H-W, O-W and O-O are applied in the SCVCTM

Legend

- SCAG RTP Functional Curve
- - - - SCVCTM Functional Curve

Figure B-1

SCAG RTP AND SCVCTM TRIP  
DISTRIBUTION FUNCTIONS

Table B-1

## SCVCTM DISTRIBUTION FUNCTIONS

Interval*	H-W	H-S	H-O	O-W	O-O
1	43500	46000	54000	46000	72000
2	35500	40500	50860	39900	44500
3	27800	17890	27280	30400	28300
4	21250	7220	13450	23500	17750
5	15300	2970	6670	17450	10800
6	10650	1270	3400	11100	5300
7	8000	570	1798	7400	2750
8	5800	269	983	5000	1550
9	4100	132	557	3450	900
10	3050	68	326	2390	560
11	2300	37	197	1775	360
12	1800	21	124	1340	235
13	1400	13	80	1060	165
14	1085	8.1	54	810	120
15	880	5.6	38	650	90
16	700	4.1	28	530	69
17	580	3.3	21	420	55
18	490	2.7	17	346	44
19	405	2.3	14	285	36
20	340	2.0	11	235	30
21	280	1.8	9.7	200	25
22	235	1.6	8.4	165	22
23	195	1.5	7.4	140	19
24	165	1.3	6.6	123	16
25	140	1.2	5.9	106	14
26	118	1.1	5.4	95	12
27	100	1.0	4.9	84	11
28	87	.9	4.4	73	10
29	75	.9	4.0	65	9
30	66	.8	3.7	58	8
31	55	.7	3.3	51	7
32	49	.7	3.0	46	7
33	43	.6	2.8	41	6
34	37	.6	2.5	36	5
35	33	.5	2.3	31	5
36	28	.5	2.1	28	5
37	25	.4	1.9	25	4
38	22	.4	1.7	22	4
39	19	.4	1.6	19	4

Table B-1 (cont)  
 SCVCTM DISTRIBUTION FUNCTIONS

Interval*	H-W	H-S	H-O	O-W	O-O
40	17	.3	1.4	18	3
41	15	.3	1.3	16	3
42	14	.3	1.2	14	3
43	12	.2	1.1	12	3
44	11	.2	1.0	11	3
45	10	.2	.9	10	3
46	9	.2	.8	9	2
47	8	.2	.7	9	2
48	7	.1	.7	8	2
49	7	.1	.6	7	2
50	6	.1	.5	6	2
51	6	.1	.5	6	2
52	5	.1	.4	5	2
53	5	.1	.4	4	2
54	4	.1	.3	4	2
55	4	.1	.3	3	2
56	3	.1	.3	3	2
57	3	.1	.2	2	1
58	3	0	.2	2	1
59	3	0	.2	2	1
60	2	0	.2	1	1
61	2	0	.2	1	1
62	2	0	.1	0	1
63	2	0	.1	0	1
64	1	0	.1	0	0
65	1	0	.1	0	0
66	1	0	.1	0	0
67	1	0	.1	0	0
68	1	0	.1	0	0
69	0	0	.1	0	0
70	0	0	.08	0	0
71	0	0	.06	0	0
72	0	0	.04	0	0

\* Two minutes per interval

Abbreviations: H-W – Home to Work      H-O – Home to Other      O-O – Other to Other  
 H-S – Home to Shopping      O-W – Other to Work

# Appendix C

## SCVCTM PROCESSING

This appendix describes the general processing involved in running the SCVCTM. It is not intended as a users manual, but as a guide to understanding how various software programs are used to carry out individual processing steps.

Tables C-1 through C-5 (and associated flow charts in Figures C-1 through C-5) list the software programs and related functions for components of the SCVCTM. The procedures utilize Austin-Foust Associates (AFA) VOLPAC and CITILABS/UAG TRANPLAN programs. Both VOLPAC and TRANPLAN programs are listed where appropriate. Certain steps such as assignment post-processing (VOLPAC) do not have direct TRANPLAN equivalents, and several VOLPAC steps are required to carry out the processing. VOLPAC processing steps are easily incorporated into a typical TRANPLAN batch run setup.

Table C-1

NETWORK DEVELOPMENT\*

SOFTWARE (UAG TRANPLAN)	PROGRAM OPERATIONS
<b>MACNET</b>	Edits highway network file or loaded highway network history file (large-scale editing).
<b>HNIS</b>	Edits highway network link and node coordinate data files (on-screen editing).
<b>HWYNET</b>	Builds a highway network or updates an existing one.
<b>PLOTNET</b>	Produces a highway network link attribute (assignment group, link group, distance, lanes, speed, time, or area type) plotter code file.
DATA FILES	DESCRIPTION
<b>LINK FILE</b>	Produced by editing programs and used as input to network build program
<b>NETWORK FILE</b>	Produced by network build program and input to plotting program, skim file preparation (see distribution component) and assignment program (see assignment component)

\* Figure C-1 provides a flowchart for the model's network development component.

Table C-2

TRIP GENERATION\*

SOFTWARE (AFA VOLPAC)	PROGRAM OPERATIONS
<b>TRIPGEN</b>	Generates peak hour and production and attraction (P&A) trips based on input land use and trip rates. Also summarizes peak hour and ADT cordon volumes, balances internal and cordon peak hour volumes, derives P&A cordon volumes, and balances internal and cordon P&A volumes.
DATA FILES	DESCRIPTION
<b>TRIPENDS</b>	Trip ends by zone for input to trip distribution.
<p>* Figure C-2 provides a flowchart for the model's trip generation component.</p>	

Table C-3  
TRIP DISTRIBUTION\*

SOFTWARE (UAG TRANPLAN)	PROGRAM OPERATIONS
<b>GMODEL</b>	Distributes zonal trip productions and attractions by trip purpose into zone-to-zone trip interchanges.
<b>TRNSPS</b>	Transposes trip tables.
<b>MTABLE,UTABLE</b>	Factors and adds trip tables.
<b>COMPRESS</b>	Compresses a trip table to a sub-area trip table.
<b>FRATAR</b>	Factors rows and columns of a trip table using a fratar matrix balancing algorithm.
DATA FILES	DESCRIPTION
<b>SKIM</b>	Travel time skim trees
<b>TRIPENDS</b>	Zonal productions and attractions by trip purpose
<b>FRICTION FACTORS</b>	Travel time impedance factors
<b>TRIPTAB</b>	Output zone-to-zone trip interchanges for input to trip assignment

\* Figure C-3 provides a flowchart for the model's trip distribution component.

Table C-4  
ASSIGNMENT\*

SOFTWARE (UAG TRANPLAN)	PROGRAM OPERATIONS
<b>HWYLOD,EQUILB</b>	Assigns intrazonal highway trips onto a network created by <b>HNIS, NWYNET, MACNET</b> , or by any of the loading programs ( <b>HWYLOD, EQUILB</b> ). Also performs select link analysis.
<b>HWYLOD, EQUILB, UTABLE</b>	Loads trips to and from a group of selected zones onto a network based on saved capacity restraint/incremental loading speeds from a full assignment.
<b>URNS</b>	Extracts intersection volumes.
DATA FILES	DESCRIPTION
<b>NETWORK FILE</b>	Input highway network
<b>TRIP TABLE FILE</b>	Input highway trip table
<b>INTERSECTION DATA</b>	Intersection and turn penalty specifications
<b>LOADED NETWORK DATA</b>	Output loaded network with assigned volumes
<b>INTERSECTION DATA FILE</b>	Output intersection volumes

\* Figure C-4 provides a flowchart for the model's network assignment component.



Table C-5

ASSIGNMENT POST-PROCESSING\*

SOFTWARE (AFA VOLPAC)	PROGRAM OPERATIONS
<b>TURN CNVT</b>	Combines AM and PM intersection turn volume data from the traffic assignment component with intersection lane configurations to produce a standard format intersection data file (IDF).
<b>ICUCOMP</b>	Calculates intersection capacity utilization (ICU) values and produces ICU calculation summaries.
<b>VOLMOD</b>	Factors and/or adds and/or subtracts standard format intersection data files (IDF's) or standard format link volume data files.
<b>LANEMOD</b>	Revises intersection lane configurations contained in a standard format intersection data file (IDF).
<b>SCRNLINE</b>	Combines standard format link volume data sets into screenline tabular summaries along with link number of lanes, capacity, and volume-to-capacity (V/C) ratios.
<b>IVOL</b>	Adjusts forecasted intersection turn volumes based on a comparison of base year modeled volumes and base year count data.
<b>LVOL</b>	Adjusts forecasted link volumes based on a comparison of base year modeled volumes and base year count data.
DATA FILES	DESCRIPTION
<b>INTERSECTION DATA FILE</b>	AM and PM intersection turn movement volumes and lane configurations
<b>LINK DATA FILE</b>	ADT volumes for designated links

\* Figure C-5 provides a flowchart for the model's assignment post-processing component.

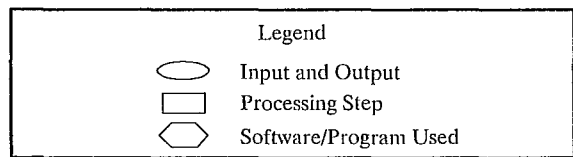
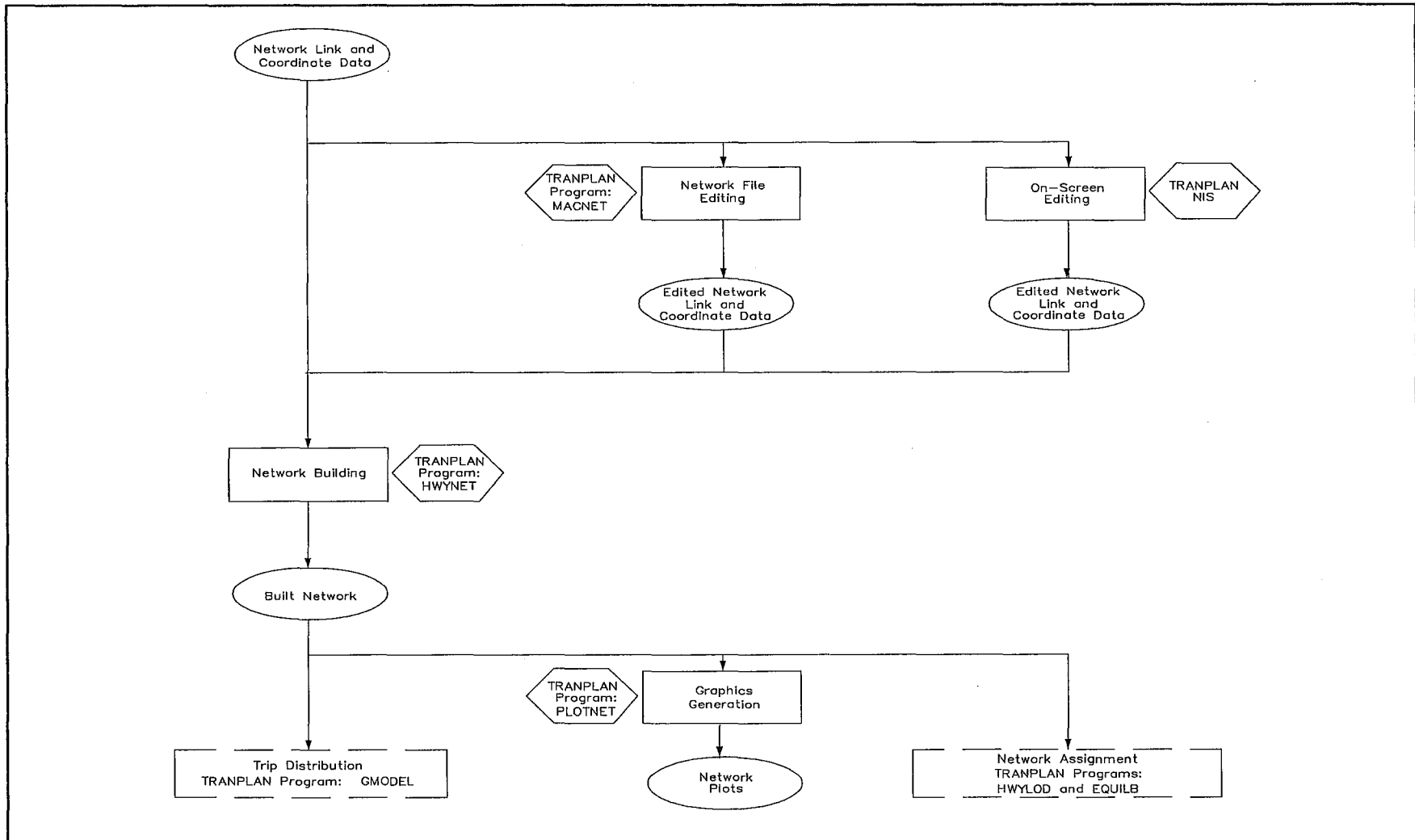
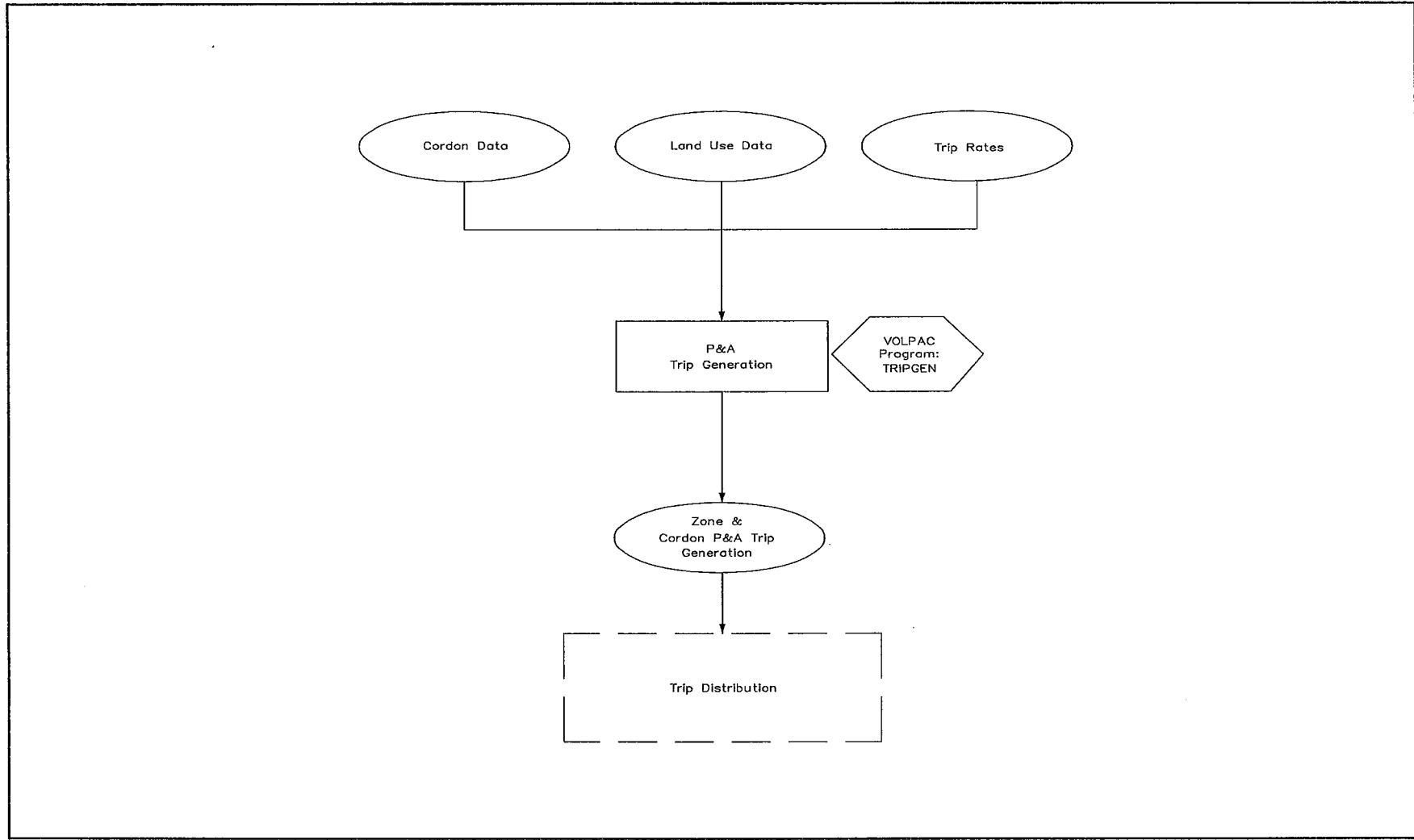


Figure C-1  
NETWORK DEVELOPMENT COMPONENT






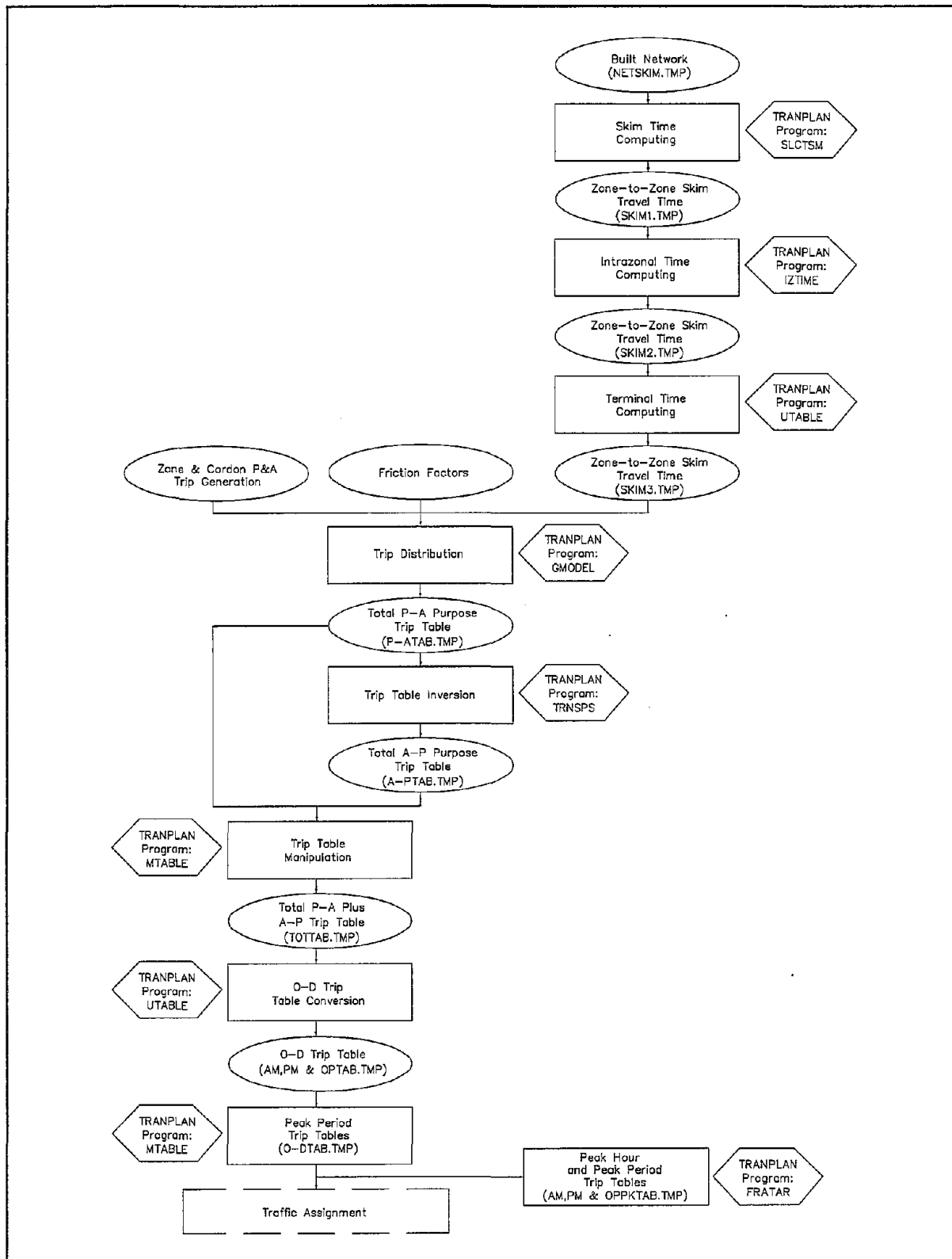
Legend	
	Input and Output
	Processing Step
	Software/Program Used

Figure C-2  
TRIP GENERATION COMPONENT



**Legend**

- Input and Output with Sample File Name in Parentheses
- Processing Step
- Software/Program used

Figure C-3  
TRIP DISTRIBUTION COMPONENT

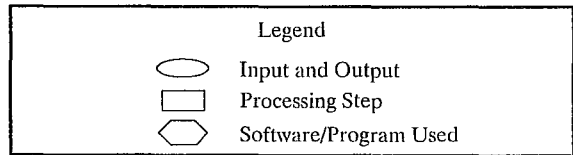
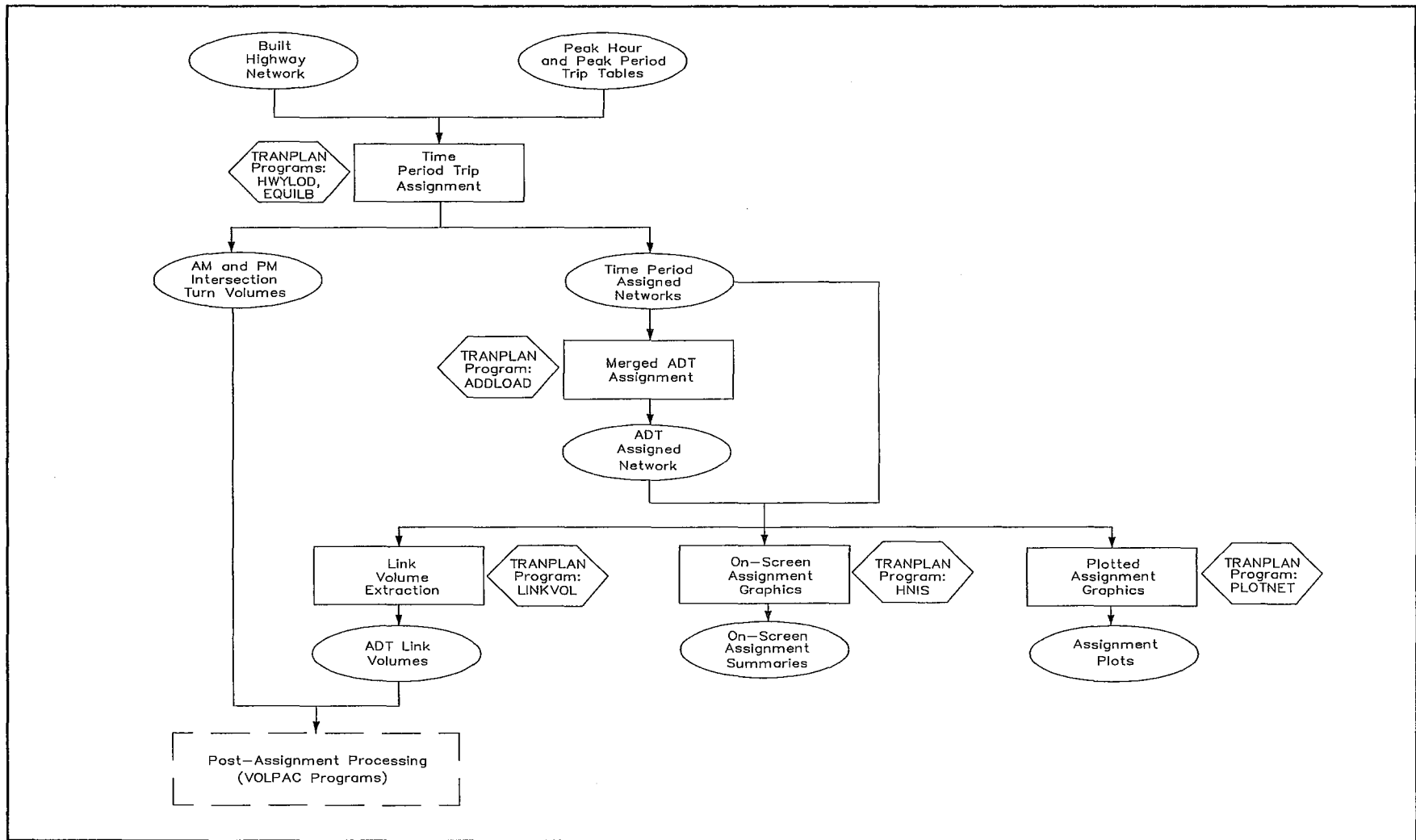


Figure C-4  
TRAFFIC ASSIGNMENT COMPONENT

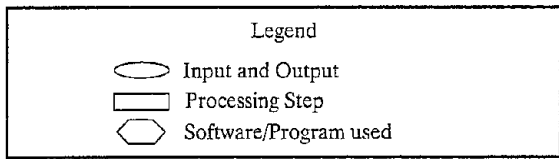
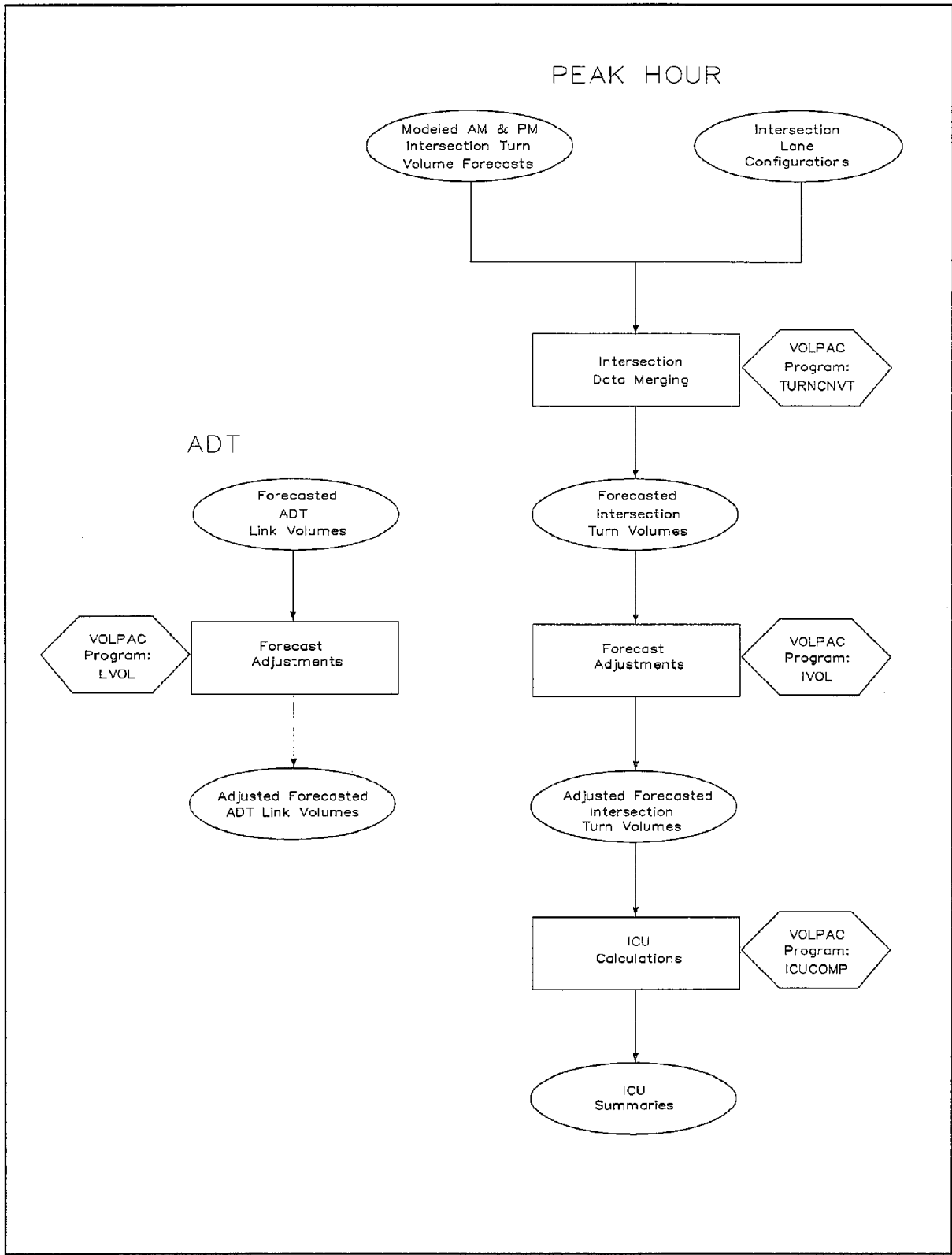


Figure C-5  
POST-ASSIGNMENT PROCESSING COMPONENT

# Appendix D

## COUNT VERSUS MODEL STATISTICS

The appendix summarizes the results of the statistical analyses performed on traffic forecasts produced by the base year version of the Santa Clarita Valley Consolidated Traffic Model (SCVCTM). Modeled volumes were compared with observed counts based on calculations using the following variable:

$$V = m - c$$

where V = difference between modeled and count volumes  
m = modeled volume  
c = count volume

The resulting statistical measures of variation (i.e., average difference and standard deviation) serve as a guideline for evaluating the accuracy and reliability of traffic forecast data produced using the SCVCTM.

Table D-1 summarizes the statistical analysis that compares observed and modeled mid-block ADT volumes, and Table D-2 lists the statistical analysis summary that compares observed and modeled peak hour intersection approach volumes. In Table D-3, peak hour ICU values based on observed and modeled intersection volumes are compared. The average difference and standard deviation between the two data sets is listed at the end of each summary table, together with the sample size of each data set.

Table D-1

## SCVCTM 2004 - ADT STATISTICAL SUMMARY

LOCATION	COUNT	MODELED	DIFF	%DIFF	LOCATION	COUNT	MODELED	DIFF	%DIFF
6. Chiquito Cyn n/o SR-126	1942	279	-1663	-86%	97. Valencia e/o Tourney	38741	47042	8301	21%
10. Hasley Cyn w/o The Old Rd	15622	17083	1461	9%	98. Valencia w/o McBean	46000	52387	6387	14%
12. Commerce Ctr s/o Franklin Pk	13377	16497	3120	23%	99. Valencia w/o Citrus	40001	38687	-1314	-3%
19. Valencia e/o The Old Rd	19286	15561	-3725	-19%	100. Valencia w/o Cinema	52771	55344	2573	5%
22. Magic Mtn w/o Old Road	10000	15703	5703	57%	101. Soledad e/o Bouquet Cyn	55417	57320	1903	3%
23. The Old Rd n/o Hasley Cyn	15512	15550	-62	-0%	103. Wiley Cyn Rd n/o Lyons	18099	18395	296	2%
24. The Old Rd s/o Hasley Cyn	10659	9400	-1259	-12%	104. Wiley Cyn Rd e/o Tournament	14967	13778	-1189	-8%
26. The Old Rd s/o Henry Mayo	16226	17145	919	6%	105. Wiley Cyn Rd e/o Orch Villyg	11205	12176	971	9%
27. The Old Rd n/o Rye Cyn	32302	38662	6360	20%	111. San Fernando n/o Valle Oro	44879	46543	1664	4%
28. The Old Rd n/o Magic Mtn	33862	32626	-1256	-4%	112. Orchard Village s/o McBean	29474	29716	242	1%
29. The Old Rd s/o Magic Mtn	14257	13621	-636	-4%	115. Lyons e/o I-5 NB Ramps	37063	38992	1929	5%
30. The Old Rd s/o Valencia	17481	15252	-2229	-13%	116. Lyons e/o Wiley Cyn	33081	32566	-515	-2%
31. The Old Rd s/o Stevenson Rch	25189	24287	-902	-4%	117. Lyons e/o Orchard Village	34470	32962	-1508	-4%
32. The Old Rd s/o Pico Cyn	10315	8292	-2023	-20%	119. McBean n/o Orchard Village	35000	30685	-4315	-12%
34. Pico Cyn w/o The Old Rd	14282	15499	1217	9%	126. Bouquet e/o Seco	44000	42524	-1476	-3%
36. McBean w/o Rockwell	38003	37559	-444	-1%	127. Bouquet e/o Plum Cyn	16000	12556	-3444	-22%
37. McBean e/o Rockwell	26000	22627	-3373	-13%	128. Newhall Ranch w/o Bouquet	28464	31859	3395	12%
38. McBean s/o Valencia	39063	36083	-2980	-8%	143. Soledad w/o Golden Valley	54000	57100	3100	6%
39. McBean s/o Town Center	42040	43921	1881	4%	144. Soledad w/o Whites Cyn	39000	44460	5460	14%
40. McBean n/o Magic Mtn	56000	53614	-2386	-4%	145. Soledad e/o Whites Cyn	41000	44297	3297	8%
41. McBean s/o Newhall Ranch	47000	45182	-1818	-4%	146. Soledad e/o Sierra Hwy	36000	36593	593	2%
42. McBean n/o Newhall Ranch	33646	31554	-2092	-6%	147. Plum Cyn s/o Bouquet	19000	10563	-8437	-44%
43. McBean n/o Decoro	21000	22470	1470	7%	149. Whites Cyn n/o Soledad	38000	41048	3048	8%
45. SR-126 w/o San Martinez	25000	25043	43	0%	150. Whites Cyn s/o Soledad	29000	25658	-3342	-12%
47. SR-126 e/o Chiquito Cyn	25000	24852	-148	-1%	153. Princessa s/o Whites Cyn	36000	33763	-2237	-6%
48. SR-126 w/o Commerce Center	26000	27655	1655	6%	154. Princessa s/o Sierra Hwy	28000	27362	-638	-2%
49. SR-126 w/o Old Road	29000	32549	3549	12%	160. Sierra Hwy s/o Golden Vally	24335	24191	-144	-1%
50. Newhall Ranch e/o I-5	11316	13208	1892	17%	161. Sierra s/o Princessa	29000	33906	4906	17%
52. Newhall Ranch e/o Rye	9672	8402	-1270	-13%	162. Sierra s/o Soledad	35000	37700	2700	8%
53. Newhall Ranch w/o Baywood	21802	24257	2455	11%	163. Sierra n/o Soledad	22000	22131	131	1%
54. Newhall Ranch e/o McBean	32000	27962	-4038	-13%	164. Sierra btw Remsen/San Fern	11755	11995	240	2%
62. Rye Cyn e/o The Old Rd	40522	38975	-1547	-4%	170. Ave Stanford n/o Rye Cyn	12012	9091	-2921	-24%
63. Rye Cyn w/o Ave Scott	37136	40386	3250	9%	194. Copper Hill w/o McBean	20741	18638	-2103	-10%
64. Rye e/o Scott	36000	38705	2705	8%	220. Orchard Village n/o Lyons	21974	21232	-742	-3%
65. Copper Hill n/o Newhall Rnch	27707	32007	4300	16%	227. Soledad e/o Rainbow Glen	47000	51890	4890	10%
66. Copper Hill n/o Decoro	22000	21548	-452	-2%	230. Pico Cyn e/o The Old Rd	29345	38948	9603	33%
67. Copp H btwn McBr/Canterbury	29461	29799	338	1%	231. McBean e/o The Old Rd	27302	32750	5448	20%
70. Decoro e/o Copper Hill	6000	8902	2902	48%	233. Ave Stanford se/o Rye Cyn	11964	9685	-2278	-19%
71. Decoro e/o Dickason	9260	11372	2112	23%	240. Wolcott n/o SR-126	277	420	143	52%
72. Decoro e/o McBean Pkwy	17179	19976	2797	16%	249. Calgrove e/o The Old Road	10753	9414	-1339	-12%
76. Bouquet e/o Haskell	25000	16029	-8971	-36%	254. Wiley Cyn n/o Calgrove	9623	6859	-2764	-29%
78. Bouquet Cyn w/o Seco	59090	57977	-1113	-2%	257. The Old Rd n/o Calgrove	8291	5290	-3001	-36%
79. Bouquet Cyn s/o Newhall Rnch	62672	66248	3576	6%	258. McBean s/o Ave Scott	60800	59740	-1060	-2%
81. San Fernando s/o Magic Mtn	43697	43007	-690	-2%	260. Soledad Cyn w/o Sand Cyn	27000	28533	1533	6%
87. Ave Scott w/o Channel	14578	14492	-86	-1%	267. Sierra Hwy s/o Crusa Mesa	10000	3249	-6751	-68%
88. Magic Mtn e/o I-5	21394	31095	9701	45%	269. Sand Cyn s/o Sierra Hwy	4000	7419	3419	85%
89. Magic Mtn e/o Tourney	27780	32662	4882	17%	270. Sand Cyn s/o SR-14	21000	23615	2615	12%
90. Magic Mtn w/o Citrus	22546	24420	1874	8%	277. Soledad Cyn e/o Shadow Pine	7000	8014	1014	14%
91. Magic Mtn w/o Bouquet	16810	21036	4226	25%	279. Shadow Pine n/o Soledad	8000	5915	-2085	-26%
96. Valencia e/o I-5 NB Ramps	42432	47571	5139	12%	300. Sloan Cyn e/o The Old Road	12163	9615	-2548	-21%



Table D-1 (cont.)

## SCVCTM 2004 - ADT STATISTICAL SUMMARY

LOCATION	COUNT	MODELED	DIFF	%DIFF	LOCATION	COUNT	MODELED	DIFF	%DIFF
301. Lake Hughes w/o Castaic	20394	11959	-8435	-41%	313. The Old Rd n/o Hillcrest	6519	3036	-3483	-53%
302. Lake Hughes w/o Diamond	5753	3526	-2227	-39%	314. The Old Rd s/o Calgrove	11339	7684	-3655	-32%
303. The Old Rd n/o Sloan Cyn	10221	9615	-606	-6%	316. Soledad Cyn e/o SR-14 SB Rp	23000	19982	-3018	-13%
305. Ridge Route n/o Lake Hughes	4086	1846	-2240	-55%	317. Soledad Cyn w/o Shadow Pine	11000	10513	-487	-4%
306. Ridge Route n/o Castaic	4961	4131	-830	-17%	318. Sand Cyn s/o Soledad Cyn	23000	32227	9227	40%
307. Ridge Route e/o I-5 NB Ramp	15559	12123	-3436	-22%	319. Valencia e/o Mcbean	42000	48310	6310	15%
308. Ridge Route btwn I-5 Ramps	11319	9310	-2009	-18%	320. Magic Mountain w/o Valencia	22000	32531	10531	48%
309. Parker w/o I-5 SB Ramp	7358	5848	-1510	-21%	321. Bouquet cyn s/o Soledad	42000	40602	-1398	-3%
310. Castaic n/o Lake Hughes	6242	9261	3019	48%	322. Mcbean s/o Copper Hill	15000	16597	1597	11%
311. Castaic s/o Lake Hughes	10970	2212	-8758	-80%	323. Copper Hill s/o Decoro	25000	27907	2907	12%
312. Castaic s/o Ridge Route	1726	6970	5244	304%	324. Mcbean s/o Decoro	26000	27983	1983	8%

SAMPLE SIZE = 122

AVERAGE COUNT = 24677

AVERAGE VOLUME = 25142

AVERAGE DIFFERENCE = 465

STANDARD DEVIATION = 3666.1

Table D-2

## SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
1. Old Road & I-5 SB Ramps								
COUNT	425	526	645	0	438	409	733	0
MODELED	406	596	454	0	530	449	697	0
DIFF	-19	70	-191	--	92	40	-36	--
% DIFF	-4%	13%	-30%	--	21%	10%	-5%	--
2. I-5 NB Ramps & Lake Hughes								
COUNT	148	784	197	609	316	1244	649	949
MODELED	42	602	244	500	60	888	660	778
DIFF	-106	-182	47	-109	-256	-356	11	-171
% DIFF	-72%	-23%	24%	-18%	-81%	-29%	2%	-18%
3. I-5 SB Ramps & Parker								
COUNT	0	636	576	544	0	863	388	661
MODELED	0	606	785	455	0	792	519	543
DIFF	--	-30	209	-89	--	-71	131	-118
% DIFF	--	-5%	36%	-16%	--	-8%	34%	-18%
4. I-5 NB Ramps & Ridge Route								
COUNT	0	844	372	636	0	1091	570	867
MODELED	0	838	370	606	0	1030	848	792
DIFF	--	-6	-2	-30	--	-61	278	-75
% DIFF	--	-1%	-1%	-5%	--	-6%	49%	-9%
5. I-5 SB & Hasley Cyn								
COUNT	173	702	936	1793	111	974	605	1662
MODELED	199	1018	848	2065	102	1087	717	1906
DIFF	26	316	-88	272	-9	113	112	244
% DIFF	15%	45%	-9%	15%	-8%	12%	19%	15%
6. I-5 NB & Hasley Cyn								
COUNT	98	0	606	702	206	0	770	974
MODELED	72	0	946	1018	269	0	818	1087
DIFF	-26	--	340	316	63	--	48	113
% DIFF	-27%	--	56%	45%	31%	--	6%	12%
7. I-5 SB Ramps & SR-126								
COUNT	147	1247	639	2033	132	1247	1058	2437
MODELED	133	1332	499	1964	184	1208	1146	2538
DIFF	-14	85	-140	-69	52	-39	88	101
% DIFF	-10%	7%	-22%	-3%	39%	-3%	8%	4%
8. I-5 NB Ramps & SR-126								
COUNT	0	832	1039	1247	0	709	1112	1247
MODELED	0	927	1503	1330	0	975	1379	1206
DIFF	--	95	464	83	--	266	267	-41
% DIFF	--	11%	45%	7%	--	38%	24%	-3%
9. The Old Rd & I-5 SB Ramps								
COUNT	1234	1249	2506	29	1516	1171	2678	29
MODELED	1479	1092	2571	0	1575	1179	2748	0
DIFF	245	-157	65	-29	59	8	70	-29
% DIFF	20%	-13%	3%	-100%	4%	1%	3%	-100%

Table D-2 (cont.)

## SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
10. I-5 SB Ramps & Magic Mtn								
COUNT	0	2270	794	2034	0	2069	734	2051
MODELED	0	2439	889	1972	0	2234	764	2344
DIFF	--	169	95	-62	--	165	30	293
% DIFF	--	7%	12%	-3%	--	8%	4%	14%
11. I-5 NB Ramps & Magic Mtn								
COUNT	0	1571	1487	2270	0	2094	1549	2069
MODELED	0	2131	1279	2440	0	2467	1457	2234
DIFF	--	560	-208	170	--	373	-92	165
% DIFF	--	36%	-14%	7%	--	18%	-6%	8%
12. I-5 SB Ramps & Valencia								
COUNT	1664	2373	291	1146	1710	2437	357	1670
MODELED	1770	2362	212	856	1529	2512	119	1282
DIFF	106	-11	-79	-290	-181	75	-238	-388
% DIFF	6%	-0%	-27%	-25%	-11%	3%	-67%	-23%
13. I-5 NB Ramps & Valencia								
COUNT	0	3125	1524	2373	0	3541	1612	2437
MODELED	0	3411	1437	2362	0	3690	1756	2512
DIFF	--	286	-87	-11	--	149	144	75
% DIFF	--	9%	-6%	-0%	--	4%	9%	3%
14. I-5 SB Ramps & Stevenson Rch								
COUNT	875	1865	424	1646	924	2823	236	2423
MODELED	999	2190	532	1965	1113	3155	237	2659
DIFF	124	325	108	319	189	332	1	236
% DIFF	14%	17%	25%	19%	20%	12%	0%	10%
15. I-5 NB Ramps & McBean								
COUNT	105	2240	866	1865	108	3128	1319	2823
MODELED	302	2870	1041	2191	201	3725	1459	3153
DIFF	197	630	175	326	93	597	140	330
% DIFF	188%	28%	20%	17%	86%	19%	11%	12%
16. I-5 SB/Marriott & Pico/Lyons								
COUNT	940	2381	307	1608	846	2932	250	2330
MODELED	1036	2501	0	1583	1055	2914	88	2475
DIFF	96	120	-307	-25	209	-18	-162	145
% DIFF	10%	5%	-100%	-2%	25%	-1%	-65%	6%
17. I-5 NB On/Off & Lyons Ave								
COUNT	485	2445	586	2194	628	3188	1330	2966
MODELED	736	2690	761	2365	514	3202	1498	2986
DIFF	251	245	175	171	-114	14	168	20
% DIFF	52%	10%	30%	8%	-18%	0%	13%	1%
18. I-5 SB Ramps & Calgrove								
COUNT	277	947	518	766	229	1083	196	1074
MODELED	171	1140	848	667	325	830	369	920
DIFF	-106	193	330	-99	96	-253	173	-154
% DIFF	-38%	20%	64%	-13%	42%	-23%	88%	-14%

Table D-2 (cont.)

## SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
19. I-5 NB Ramps & Calgrove								
COUNT	129	956	119	946	365	981	387	1083
MODELED	228	1050	272	1138	266	1139	802	829
DIFF	99	94	153	192	-99	158	415	-254
% DIFF	77%	10%	129%	20%	-27%	16%	107%	-23%
20. I-5 SB On Ramp & Pico/Lyons								
COUNT	0	2194	591	2785	0	2966	332	3298
MODELED	0	2364	555	2919	0	2986	467	3453
DIFF	--	170	-36	134	--	20	135	155
% DIFF	--	8%	-6%	5%	--	1%	41%	5%
21. The Old Rd & Calgrove Blvd								
COUNT	496	704	910	0	768	1073	1427	0
MODELED	396	668	528	0	527	920	785	0
DIFF	-100	-36	-382	--	-241	-153	-642	--
% DIFF	-20%	-5%	-42%	--	-31%	-14%	-45%	--
25. The Old Rd & Rye Canyon								
COUNT	2568	3667	2887	0	2885	3296	2657	0
MODELED	2592	3318	2160	0	2822	3319	2477	0
DIFF	24	-349	-727	--	-63	23	-180	--
% DIFF	1%	-10%	-25%	--	-2%	1%	-7%	--
26. The Old Rd & Magic Mountain								
COUNT	2631	1984	983	102	2690	2038	1269	157
MODELED	2207	1972	949	676	2528	2343	1263	1326
DIFF	-424	-12	-34	574	-162	305	-6	1169
% DIFF	-16%	-1%	-3%	563%	-6%	15%	-0%	745%
27. The Old Rd & Valencia								
COUNT	1136	1146	997	717	1657	1670	1774	685
MODELED	924	858	850	466	1335	1284	1367	644
DIFF	-212	-288	-147	-251	-322	-386	-407	-41
% DIFF	-19%	-25%	-15%	-35%	-19%	-23%	-23%	-6%
28. The Old Rd & McBean								
COUNT	858	1646	995	1427	1516	2423	2379	1718
MODELED	850	1963	710	2101	1367	2658	1856	2411
DIFF	-8	317	-285	674	-149	236	-523	693
% DIFF	-1%	19%	-29%	47%	-10%	10%	-22%	40%
29. The Old Rd & Pico Canyon								
COUNT	1121	1642	787	1180	1792	2102	826	1064
MODELED	819	1581	84	1108	1722	2478	667	1013
DIFF	-302	-61	-703	-72	-70	376	-159	-51
% DIFF	-27%	-4%	-89%	-6%	-4%	18%	-19%	-5%
30. Ave Stanford & Rye Canyon								
COUNT	661	2851	811	3463	1616	3096	964	3272
MODELED	428	2832	904	3322	731	3048	902	3319
DIFF	-233	-19	93	-141	-885	-48	-62	47
% DIFF	-35%	-1%	11%	-4%	-55%	-2%	-6%	1%

Table D-2 (cont.)

## SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
32. Ave Scott & Rye Canyon								
COUNT	24	3304	798	3294	27	2758	700	2999
MODELED	0	3108	664	3140	0	2912	700	3288
DIFF	-24	-196	-134	-154	-27	154	0	289
% DIFF	-100%	-6%	-17%	-5%	-100%	6%	0%	10%
33. Rye/Copper Hill & NRR								
COUNT	3281	826	3573	0	2626	845	2945	0
MODELED	2554	722	3134	0	2573	645	3078	0
DIFF	-727	-104	-439	--	-53	-200	133	--
% DIFF	-22%	-13%	-12%	--	-2%	-24%	5%	--
35. Copper Hill & Decoro								
COUNT	2075	633	2282	0	1595	363	1882	0
MODELED	1557	619	2130	0	1682	605	2285	0
DIFF	-518	-14	-152	--	87	242	403	--
% DIFF	-25%	-2%	-7%	--	5%	67%	21%	--
36. Tourney & Valencia								
COUNT	510	3033	0	3125	497	3448	0	3541
MODELED	476	3372	0	3412	426	3628	0	3692
DIFF	-34	339	--	287	-71	180	--	151
% DIFF	-7%	11%	--	9%	-14%	5%	--	4%
37. Tourney & Magic Mountain								
COUNT	0	1787	382	1571	0	2285	463	2094
MODELED	0	2345	510	2131	0	2714	539	2467
DIFF	--	558	128	560	--	429	76	373
% DIFF	--	31%	34%	36%	--	19%	16%	18%
39. Ave Tibbits/Dickason & NRR								
COUNT	1483	2003	781	811	771	1604	842	763
MODELED	1278	2209	906	721	1063	2026	1041	646
DIFF	-205	206	125	-90	292	422	199	-117
% DIFF	-14%	10%	16%	-11%	38%	26%	24%	-15%
41. Dickason & Decoro								
COUNT	137	1189	920	768	49	725	422	472
MODELED	0	1342	839	773	0	1218	704	822
DIFF	-137	153	-81	5	-49	493	282	350
% DIFF	-100%	13%	-9%	1%	-100%	68%	67%	74%
44. McBean & Valencia								
COUNT	2984	2630	2344	3058	3882	3620	3430	3790
MODELED	3025	2705	2257	3659	3902	3501	3442	4203
DIFF	41	75	-87	601	20	-119	12	413
% DIFF	1%	3%	-4%	20%	1%	-3%	0%	11%
45. McBean & Magic Mtn								
COUNT	3962	1348	2994	1674	5311	1978	4371	2252
MODELED	4589	1282	3047	2262	5268	2085	3879	2786
DIFF	627	-66	53	588	-43	107	-492	534
% DIFF	16%	-5%	2%	35%	-1%	5%	-11%	24%

Table D-2 (cont.)

## SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
47. McBean & Scott/Bridgeport								
COUNT	3505	316	4529	1330	4560	294	5672	1394
MODELED	3979	176	5040	1351	4673	227	5769	1317
DIFF	474	-140	511	21	113	-67	97	-77
% DIFF	14%	-44%	11%	2%	2%	-23%	2%	-6%
48. McBean & Newhall Ranch								
COUNT	2646	2455	3460	2107	2988	2791	4407	1816
MODELED	2561	2580	3929	2206	3018	2718	4595	2023
DIFF	-85	125	469	99	30	-73	188	207
% DIFF	-3%	5%	14%	5%	1%	-3%	4%	11%
49. McBean Pkwy & Decoro Dr								
COUNT	1571	1407	2001	1099	1885	1311	2399	759
MODELED	2099	1833	2376	1344	2462	1808	2764	1216
DIFF	528	426	375	245	577	497	365	457
% DIFF	34%	30%	19%	22%	31%	38%	15%	60%
50. McBean Pkwy & Copper Hill								
COUNT	0	3050	1515	2517	0	3648	1903	2127
MODELED	0	2460	1288	1444	0	2775	1576	1445
DIFF	--	-590	-227	-1073	--	-873	-327	-682
% DIFF	--	-19%	-15%	-43%	--	-24%	-17%	-32%
51. Wiley Cyn & Lyons								
COUNT	990	1482	697	1695	1762	2737	1384	2985
MODELED	1197	2122	830	2529	1496	2582	938	3188
DIFF	207	640	133	834	-266	-155	-446	203
% DIFF	21%	43%	19%	49%	-15%	-6%	-32%	7%
52. Tournament & Wiley Cyn								
COUNT	403	821	40	996	626	1185	110	1405
MODELED	337	848	215	1124	439	1114	236	1383
DIFF	-66	27	175	128	-187	-71	126	-22
% DIFF	-16%	3%	438%	13%	-30%	-6%	115%	-2%
53. Orchard Village & Lyons								
COUNT	946	1953	514	1809	1456	2655	729	2672
MODELED	1036	2143	505	1816	1418	2801	726	2219
DIFF	90	180	-9	7	-38	146	-3	-453
% DIFF	10%	9%	-2%	0%	-3%	5%	-0%	-17%
54. Orchard Village & Wiley Cyn								
COUNT	1428	580	1289	827	2038	1005	2053	1066
MODELED	1701	724	1707	946	2415	982	2223	1166
DIFF	273	144	418	119	377	-23	170	100
% DIFF	19%	25%	32%	14%	18%	-2%	8%	9%
55. Orchard Village & McBean								
COUNT	180	2390	2053	1883	281	3386	2617	2390
MODELED	0	1990	1980	1940	0	3017	2589	2624
DIFF	-180	-400	-73	57	-281	-369	-28	234
% DIFF	-100%	-17%	-4%	3%	-100%	-11%	-1%	10%

Table D-2 (cont.)

## SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
57. Valencia & Magic Mtn								
COUNT	2954	1015	2762	1213	3596	1338	3083	1693
MODELED	2535	1419	2495	1293	3660	1917	3034	2105
DIFF	-419	404	-267	80	64	579	-49	412
% DIFF	-14%	40%	-10%	7%	2%	43%	-2%	24%
59. Valencia & Cinema								
COUNT	2771	197	2862	0	3455	687	3872	0
MODELED	2843	151	2954	0	3521	540	3944	1
DIFF	72	-46	92	--	66	-147	72	--
% DIFF	3%	-23%	3%	--	2%	-21%	2%	--
65. Bouquet & Soledad								
COUNT	4326	3724	2815	3345	5045	5172	3317	4204
MODELED	4148	3887	2534	2851	5166	4731	3228	3573
DIFF	-178	163	-281	-494	121	-441	-89	-631
% DIFF	-4%	4%	-10%	-15%	2%	-9%	-3%	-15%
66. Bouquet & Newhall Ranch								
COUNT	4036	463	4625	2682	5165	1047	5176	3134
MODELED	4076	71	4110	2489	4604	354	5137	2753
DIFF	40	-392	-515	-193	-561	-693	-39	-381
% DIFF	1%	-85%	-11%	-7%	-11%	-66%	-1%	-12%
80. Wolcott & SR-126								
COUNT	22	1399	9	1418	26	2037	0	2059
MODELED	20	1534	0	1554	59	1918	0	1879
DIFF	-2	135	-9	136	33	-119	--	-180
% DIFF	-9%	10%	-100%	10%	127%	-6%	--	-9%
89. Old Road & SR-126 WB Ramps								
COUNT	698	0	918	230	1063	0	1211	184
MODELED	718	0	898	220	903	0	898	5
DIFF	20	--	-20	-10	-160	--	-313	-179
% DIFF	3%	--	-2%	-4%	-15%	--	-26%	-97%
91. Old Road & Hasley Cyn								
COUNT	1483	1793	1064	1310	1339	1662	1065	1062
MODELED	1303	2069	726	1646	1390	1906	980	1342
DIFF	-180	276	-338	336	51	244	-85	280
% DIFF	-12%	15%	-32%	26%	4%	15%	-8%	26%
94. Commerce Center & SR-126								
COUNT	1184	2273	315	1412	1061	2613	337	1913
MODELED	1384	2183	570	1621	1462	2674	551	2093
DIFF	200	-90	255	209	401	61	214	180
% DIFF	17%	-4%	81%	15%	38%	2%	64%	9%
95. The Old Rd & Sedona Way								
COUNT	1291	0	1483	444	1156	0	1339	307
MODELED	1209	0	1302	131	1128	0	1391	309
DIFF	-82	--	-181	-313	-28	--	52	2
% DIFF	-6%	--	-12%	-70%	-2%	--	4%	1%

Table D-2 (cont.)

## SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
96. San Martinez Cyn & SR-126								
COUNT	8	1314	0	1312	15	1884	0	1873
MODELED	0	1550	0	1550	0	1790	0	1790
DIFF	-8	236	--	238	-15	-94	--	-83
% DIFF	-100%	18%	--	18%	-100%	-5%	--	-4%
110. Chiquito Cyn & SR-126								
COUNT	111	1470	7	1398	159	1998	1	1886
MODELED	18	1536	0	1550	20	1778	0	1790
DIFF	-93	66	-7	152	-139	-220	-1	-96
% DIFF	-84%	4%	-100%	11%	-87%	-11%	-100%	-5%
117. SR-126 EB Ramp & Henry Mayo								
COUNT	26	242	0	230	62	346	0	316
MODELED	0	569	0	569	128	679	0	551
DIFF	-26	327	--	339	66	333	--	235
% DIFF	-100%	135%	--	147%	106%	96%	--	74%
148. SR-14 NB & Via Princessa								
COUNT	367	655	422	1184	553	509	977	1701
MODELED	217	550	520	1087	772	475	1121	1972
DIFF	-150	-105	98	-97	219	-34	144	271
% DIFF	-41%	-16%	23%	-8%	40%	-7%	15%	16%
149. SR-14 SB & Via Princessa								
COUNT	479	1184	913	2226	384	1721	542	2523
MODELED	486	1087	1580	2603	571	1971	800	3138
DIFF	7	-97	667	377	187	250	258	615
% DIFF	1%	-8%	73%	17%	49%	15%	48%	24%
151. Sand Cyn & SR-14 NB Ramps								
COUNT	1436	237	1496	469	2168	536	1933	1267
MODELED	1779	241	1583	601	2697	699	1974	1764
DIFF	343	4	87	132	529	163	41	497
% DIFF	24%	2%	6%	28%	24%	30%	2%	39%
152. SR-14 SB Rmps & Soledad Cyn								
COUNT	0	1709	1159	2258	0	1842	795	2341
MODELED	0	1774	2312	2804	0	1503	1426	2497
DIFF	--	65	1153	546	--	-339	631	156
% DIFF	--	4%	99%	24%	--	-18%	79%	7%
153. Sand Cyn & Soledad Cyn								
COUNT	523	2168	1556	2103	668	2211	1828	2067
MODELED	681	2305	1735	2187	822	2497	2497	2132
DIFF	158	637	179	84	154	286	669	65
% DIFF	30%	29%	12%	4%	23%	13%	37%	3%
170. Sierra Hwy & Via Princessa								
COUNT	1946	2047	2316	3163	2780	2640	2480	3482
MODELED	1972	1912	2543	3391	2462	2527	3053	3672
DIFF	26	-135	227	228	-318	-113	573	190
% DIFF	1%	-7%	10%	7%	-11%	-4%	23%	5%



Table D-2 (cont.)

## SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
171. Whites Cyn & Via Princesa								
COUNT	1874	2389	1397	0	2896	3602	1586	0
MODELED	1859	2272	641	0	2399	2899	698	0
DIFF	-15	-117	-756	--	-497	-703	-888	--
% DIFF	-1%	-5%	-54%	--	-17%	-20%	-56%	--
172. Whites Cyn & Soledad Canyon								
COUNT	2892	3254	2183	2827	3423	3559	2640	3652
MODELED	3134	3107	1860	2821	3374	3322	2401	3705
DIFF	242	-147	-323	-6	-49	-237	-239	53
% DIFF	8%	-5%	-15%	-0%	-1%	-7%	-9%	1%
173. Santa Catarina/GVR & Plum								
COUNT	572	1445	30	1703	200	1789	0	1815
MODELED	423	705	65	747	321	905	91	1005
DIFF	-149	-740	35	-956	121	-884	--	-810
% DIFF	-26%	-51%	117%	-56%	61%	-49%	--	-45%
174. Bouquet Canyon & Plum Cyn								
COUNT	1532	2230	2620	152	1346	1788	2496	124
MODELED	826	775	1125	0	1065	1006	1395	0
DIFF	-706	-1455	-1495	-152	-281	-782	-1101	-124
% DIFF	-46%	-65%	-57%	-100%	-21%	-44%	-44%	-100%
176. Sierra Hwy & Soledad Cyn								
COUNT	1555	2556	2134	3697	2029	2921	2331	3699
MODELED	1380	2751	2663	3918	1849	3356	3193	4728
DIFF	-175	195	529	221	-180	435	862	1029
% DIFF	-11%	8%	25%	6%	-9%	15%	37%	28%
177. SR-14 SB On & Via Princesa								
COUNT	869	3163	0	2294	383	3482	0	3099
MODELED	940	3393	0	2453	431	3669	0	3238
DIFF	71	230	--	159	48	187	--	139
% DIFF	8%	7%	--	7%	13%	5%	--	4%
178. Sierra Hwy & SR-14 NB Off								
COUNT	2158	443	1951	86	2904	1333	2785	142
MODELED	2419	490	1971	0	2813	1433	2462	0
DIFF	261	47	20	-86	-91	100	-323	-142
% DIFF	12%	11%	1%	-100%	-3%	8%	-12%	-100%
180. Old Road & Sloan/Lake Hughes								
COUNT	614	609	317	118	720	949	341	158
MODELED	454	501	92	17	697	778	111	36
DIFF	-160	-108	-225	-101	-23	-171	-230	-122
% DIFF	-26%	-18%	-71%	-86%	-3%	-18%	-67%	-77%
181. Old Road & Parker								
COUNT	284	455	628	467	350	691	597	468
MODELED	92	456	182	376	111	543	185	499
DIFF	-192	1	-446	-91	-239	-148	-412	31
% DIFF	-68%	0%	-71%	-19%	-68%	-21%	-69%	7%

Table D-2 (cont.)

## SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
182. Castaic & Lake Hughes								
COUNT	515	353	277	823	976	488	570	1244
MODELED	244	364	50	602	858	120	160	888
DIFF	-271	11	-227	-221	-118	-368	-410	-356
% DIFF	-53%	3%	-82%	-27%	-12%	-75%	-72%	-29%
183. Ridge Route & Lake Hughes								
COUNT	636	93	359	460	274	116	248	238
MODELED	419	220	276	371	89	233	203	141
DIFF	-217	127	-83	-89	-185	117	-45	-97
% DIFF	-34%	137%	-23%	-19%	-68%	101%	-18%	-41%
184. Castaic & Ridge Route								
COUNT	313	448	140	711	536	403	335	934
MODELED	184	424	372	838	364	401	499	1030
DIFF	-129	-24	232	127	-172	-2	164	96
% DIFF	-41%	-5%	166%	18%	-32%	-0%	49%	10%
191. Sierra Hwy & Sand Cyn								
COUNT	1009	359	822	0	809	325	808	0
MODELED	576	464	254	14	713	657	303	19
DIFF	-433	105	-568	--	-96	332	-505	--
% DIFF	-43%	29%	-69%	--	-12%	102%	-63%	--
194. Shadow Pines & Soledad Cyn								
COUNT	607	402	0	723	696	469	0	845
MODELED	749	1035	0	968	955	927	0	655
DIFF	142	633	--	245	260	458	--	-190
% DIFF	23%	157%	--	34%	37%	98%	--	-22%
195. Soledad Cyn & SR-14 SB								
COUNT	379	82	302	225	446	87	323	64
MODELED	1033	268	612	263	927	113	672	248
DIFF	654	186	310	38	481	26	349	184
% DIFF	173%	227%	103%	17%	108%	30%	108%	288%
196. Soledad Cyn & SR-14 NB								
COUNT	260	56	169	95	332	84	194	230
MODELED	613	301	218	142	671	199	247	363
DIFF	353	245	49	47	339	115	53	133
% DIFF	136%	438%	29%	49%	102%	137%	27%	58%
205. Cambridge & Hasley Cyn								
COUNT	417	1310	373	1020	267	1062	221	796
MODELED	419	1644	248	1429	446	1345	114	1203
DIFF	2	334	-125	409	179	283	-107	407
% DIFF	0%	25%	-34%	40%	67%	27%	-48%	51%
301. Mall Entrance & Valencia								
COUNT	144	2590	254	2630	412	3527	373	3620
MODELED	205	2496	166	2701	529	3057	374	3502
DIFF	61	-94	-88	71	117	-470	1	-118
% DIFF	42%	-4%	-35%	3%	28%	-13%	0%	-3%

Table D-2 (cont.)

SCVCTM 2004 - TWO-WAY PEAK HOUR VOLUME STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----				----- PM PEAK HOUR -----			
	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG	NORTH LEG	EAST LEG	SOUTH LEG	WEST LEG
303. Auto Center & Magic Mtn								
COUNT	212	1252	236	1108	619	1797	532	1682
MODELED	232	1217	164	1163	462	1581	326	1637
DIFF	20	-35	-72	55	-157	-216	-206	-45
% DIFF	9%	-3%	-31%	5%	-25%	-12%	-39%	-3%
304. Citrus & Magic Mtn								
COUNT	0	1207	223	1252	0	1773	620	1797
MODELED	0	1292	231	1217	0	2103	805	1578
DIFF	--	85	8	-35	--	330	185	-219
% DIFF	--	7%	4%	-3%	--	19%	30%	-12%
322. McBean & So Mall Entrance								
COUNT	2962	160	3089	117	3791	607	3942	146
MODELED	3111	87	3024	0	4000	684	3902	0
DIFF	149	-73	-65	-117	209	77	-40	-146
% DIFF	5%	-46%	-2%	-100%	6%	13%	-1%	-100%
323. Citrus & Valencia								
COUNT	238	2550	186	2590	641	3299	493	3527
MODELED	145	2331	28	2494	223	2686	162	3057
DIFF	-93	-219	-158	-96	-418	-613	-331	-470
% DIFF	-39%	-9%	-85%	-4%	-65%	-19%	-67%	-13%
324. Chiquella & Pico Cyn								
COUNT	0	2785	540	2529	0	3298	640	2942
MODELED	0	2918	597	2501	0	3455	540	2915
DIFF	--	133	57	-28	--	157	-100	-27
% DIFF	--	5%	11%	-1%	--	5%	-16%	-1%
325. Marriott Wy & The Old Rd								
COUNT	98	502	0	456	213	966	0	887
MODELED	0	85	0	85	88	755	0	667
DIFF	-98	-417	--	-371	-125	-211	--	-220
% DIFF	-100%	-83%	--	-81%	-59%	-22%	--	-25%
326. Chiquella & The Old Rd								
COUNT	167	493	0	440	360	937	0	869
MODELED	597	682	0	85	540	1295	0	755
DIFF	430	189	--	-355	180	358	--	-114
% DIFF	257%	38%	--	-81%	50%	38%	--	-13%
327. Wiley Cyn & Calgrove								
COUNT	835	186	11	910	899	358	20	941
MODELED	760	170	0	930	810	216	0	1026
DIFF	-75	-16	-11	20	-89	-142	-20	85
% DIFF	-9%	-9%	-100%	2%	-10%	-40%	-100%	9%

AM SAMPLE SIZE = 326  
 AVERAGE COUNT = 1311 AVERAGE MODELED = 1330  
 AVERAGE DIFFERENCE = 19  
 STANDARD DEVIATION = 305.0

PM SAMPLE SIZE = 324  
 AVERAGE COUNT = 1584 AVERAGE MODELED = 1593  
 AVERAGE DIFFERENCE = 9  
 STANDARD DEVIATION = 303.0

Table D-3

## SCVCTM 2004 - PEAK HOUR ICU STATISTICAL SUMMARY

LOCATION	----- AM PEAK HOUR -----			----- PM PEAK HOUR -----		
	COUNT	MODELED	DIFFERENCE	COUNT	MODELED	DIFFERENCE
1. Old Road & I-5 SB Ramps	.33	.32	-.01	.37	.40	.03
2. I-5 NB Ramps & Lake Hughes	.27	.25	-.02	.47	.39	-.08
3. I-5 SB Ramps & Parker	.61	.63	.02	.65	.63	-.02
4. I-5 NB Ramps & Ridge Route	.40	.43	.03	.46	.52	.06
5. I-5 SB & Hasley Cyn	.45	.65	.20	.54	.57	.03
6. I-5 NB & Hasley Cyn	.51	.68	.17	.66	.72	.06
7. I-5 SB Ramps & SR-126	.37	.37	.00	.33	.32	-.01
8. I-5 NB Ramps & SR-126	.65	.80	.15	.71	.77	.06
9. The Old Rd & I-5 SB Ramps	.46	.50	.04	.52	.51	-.01
10. I-5 SB Ramps & Magic Mtn	.51	.61	.10	.48	.50	.02
11. I-5 NB Ramps & Magic Mtn	.68	.71	.03	.69	.67	-.02
12. I-5 SB Ramps & Valencia	.37	.30	-.07	.43	.45	.02
13. I-5 NB Ramps & Valencia	.48	.45	-.03	.48	.49	.01
14. I-5 SB Ramps & Stevenson Rch	.37	.43	.06	.59	.65	.06
15. I-5 NB Ramps & McBean	.34	.42	.08	.54	.63	.09
16. I-5 SB/Marriott & Pico/Lyons	.53	.45	-.08	.60	.62	.02
17. I-5 NB On/Off & Lyons Ave	.53	.65	.12	.70	.75	.05
18. I-5 SB Ramps & Calgrove	.47	.69	.22	.64	.55	-.09
19. I-5 NB Ramps & Calgrove	.64	.77	.13	.50	.53	.03
20. I-5 SB On Ramp & Pico/Lyons	.35	.39	.04	.46	.44	-.02
21. The Old Rd & Calgrove Blvd	.40	.26	-.14	.45	.35	-.10
25. The Old Rd & Rye Canyon	1.10	1.05	-.05	1.10	1.01	-.09
26. The Old Rd & Magic Mountain	.70	.63	-.07	.69	.71	.02
27. The Old Rd & Valencia	.28	.32	.04	.39	.48	.09
29. The Old Rd & Pico Canyon	.51	.39	-.12	.56	.54	-.02
30. Ave Stanford & Rye Canyon	.61	.55	-.06	.80	.74	-.06
32. Ave Scott & Rye Canyon	.70	.63	-.07	.71	.68	-.03
33. Rye/Copper Hill & NRR	.59	.56	-.03	.58	.46	-.12
35. Copper Hill & Decoro	.58	.54	-.04	.49	.44	-.05
36. Tourney & Valencia	.50	.55	.05	.47	.49	.02
37. Tourney & Magic Mountain	.43	.51	.08	.57	.60	.03
39. Ave Tibbits/Dickason & NRR	.40	.36	-.04	.36	.46	.10
41. Dickason & Decoro	.37	.34	-.03	.25	.35	.10
44. McBean & Valencia	.61	.70	.09	.72	.76	.04
45. McBean & Magic Mtn	.55	.64	.09	.88	.89	.01
47. McBean & Scott/Bridgeport	.68	.77	.09	.57	.56	-.01
48. McBean & Newhall Ranch	.65	.74	.09	.72	.77	.05
49. McBean Pkwy & Decoro Dr	.54	.59	.05	.50	.61	.11
50. McBean Pkwy & Copper Hill	.62	.54	-.08	.80	.60	-.20
51. Wiley Cyn & Lyons	.43	.63	.20	.74	.64	-.10
52. Tournament & Wiley Cyn	.37	.43	.06	.45	.37	-.08
53. Orchard Village & Lyons	.49	.48	-.01	.60	.61	.01
54. Orchard Village & Wiley Cyn	.38	.49	.11	.57	.61	.04
55. Orchard Village & McBean	.57	.50	-.07	.78	.73	-.05
57. Valencia & Magic Mtn	.62	.62	.00	.72	.87	.15
59. Valencia & Cinema	.53	.56	.03	.73	.73	.00
65. Bouquet & Soledad	.78	.70	-.08	.99	1.02	.03
66. Bouquet & Newhall Ranch	.87	.83	-.04	.85	.71	-.14
80. Wolcott & SR-126	.32	.34	.02	.39	.38	-.01

Table D-3 (cont.)

## SCVCTM 2004 - PEAK HOUR ICU STATISTICAL SUMMARY

LOCATION	AM PEAK HOUR			PM PEAK HOUR		
	COUNT	MODELED	DIFFERENCE	COUNT	MODELED	DIFFERENCE
89. Old Road & SR-126 WB Ramps	.31	.32	.01	.30	.25	-.05
91. Old Road & Hasley Cyn	.70	.67	-.03	.63	.66	.03
94. Commerce Center & SR-126	.47	.61	.14	.60	.66	.06
95. The Old Rd & Sedona Way	.57	.39	-.18	.37	.40	.03
96. San Martinez Cyn & SR-126	.29	.33	.04	.38	.37	-.01
110. Chiquito Cyn & SR-126	.34	.33	-.01	.41	.37	-.04
117. SR-126 EB Ramp & Henry Mayo	.18	.34	.16	.20	.35	.15
148. SR-14 NB & Via Princessa	.46	.42	-.04	.68	.87	.19
149. SR-14 SB & Via Princessa	.64	1.02	.38	.49	.61	.12
151. Sand Cyn & SR-14 NB Ramps	.39	.59	.20	.66	.92	.26
152. SR-14 SB Rmps & Soledad Cyn	.54	1.00	.46	.59	.65	.06
153. Sand Cyn & Soledad Cyn	.64	.69	.05	.67	.72	.05
170. Sierra Hwy & Via Princessa	.59	.65	.06	.62	.74	.12
171. Whites Cyn & Via Princessa	.50	.47	-.03	.63	.48	-.15
172. Whites Cyn & Soledad Canyon	.86	.84	-.02	.92	.87	-.05
173. Santa Catarina/GVR & Plum	.71	.39	-.32	.66	.45	-.21
174. Bouquet Canyon & Plum Cyn	.69	.33	-.36	.58	.38	-.20
176. Sierra Hwy & Soledad Cyn	.70	.80	.10	.85	.93	.08
177. SR-14 SB On & Via Princessa	.37	.36	-.01	.46	.45	-.01
178. Sierra Hwy & SR-14 NB Off	.46	.44	-.02	.54	.43	-.11
180. Old Road & Sloan/Lake Hughe	.27	.23	-.04	.33	.35	.02
181. Old Road & Parker	.43	.33	-.10	.53	.35	-.18
182. Castaic & Lake Hughes	.30	.28	-.02	.37	.30	-.07
183. Ridge Route & Lake Hughes	.29	.20	-.09	.18	.15	-.03
184. Castaic & Ridge Route	.29	.30	.01	.38	.37	-.01
191. Sierra Hwy & Sand Cyn	.47	.39	-.08	.45	.50	.05
194. Shadow Pines & Soledad Cyn	.27	.35	.08	.35	.43	.08
195. Soledad Cyn & SR-14 SB	.19	.25	.06	.15	.20	.05
196. Soledad Cyn & SR-14 NB	.24	.41	.17	.26	.45	.19
205. Cambridge & Hasley Cyn	.46	.55	.09	.34	.33	-.01
301. Mall Entrance & Valencia	.40	.48	.08	.54	.61	.07
303. Auto Center & Magic Mtn	.28	.28	.00	.45	.41	-.04
304. Citrus & Magic Mtn	.36	.33	-.03	.48	.54	.06
322. McBean & So Mall Entrance	.38	.42	.04	.59	.71	.12
323. Citrus & Valencia	.48	.47	-.01	.65	.48	-.17
324. Chiquella & Pico Cyn	.47	.49	.02	.52	.43	-.09
325. Marriott Wy & The Old Rd	.32	.13	-.19	.50	.36	-.14
326. Chiquella & The Old Rd	.32	.47	.15	.58	.57	-.01
327. Wiley Cyn & Calgrove	.48	.45	-.03	.51	.47	-.04

AM SAMPLE SIZE = 88

AVERAGE COUNT = .48 AVERAGE MODELED = .50

AVERAGE DIFFERENCE = .02

STANDARD DEVIATION = .12

PM SAMPLE SIZE = 88

AVERAGE COUNT = .55 AVERAGE MODELED = .55

AVERAGE DIFFERENCE = .00

STANDARD DEVIATION = .09

# Appendix E

## LAND USE SUMMARIES

A zone map for the SCVCTM is shown in Figure E-1. The model system has a total of 455 internal zones and 12 cordon zones.

Table E-1 lists the 2004 and long-range General Plan land use data by traffic zone as used in the corresponding versions of the SCVCTM described in this report.

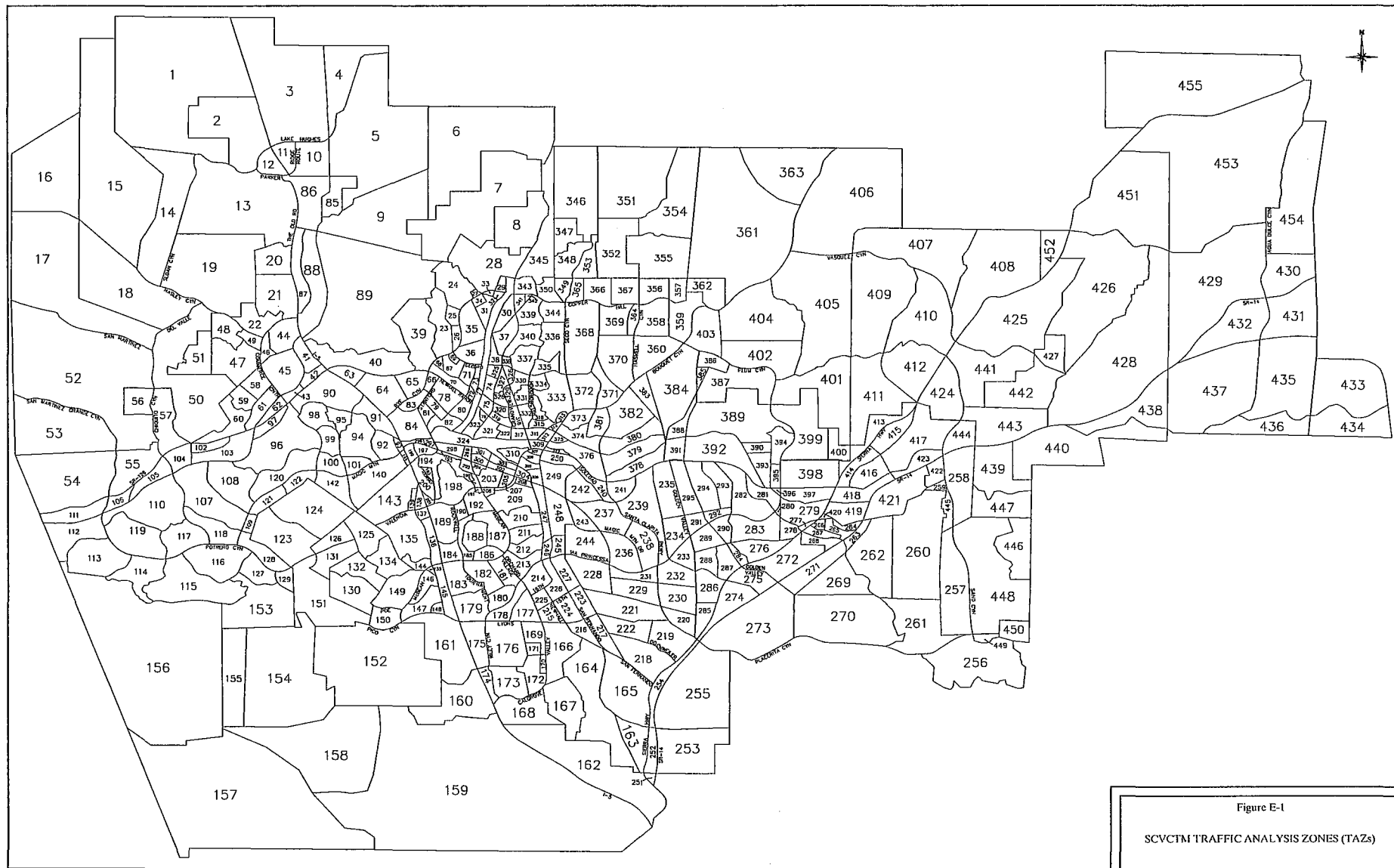


Figure E-1  
 SCVCTM TRAFFIC ANALYSIS ZONES (TAZs)

Table E-1  
LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
1	2. Single Family (1-5du/ac)	DU	145.00	1,436	367.00	3,633
	3. Single Family (6-10du/ac)	DU	200.00	1,980	200.00	1,980
	SUB-TOTAL			3,416		5,613
2	2. Single Family (1-5du/ac)	DU	336.00	3,326	535.00	5,297
	SUB-TOTAL			3,326		5,297
3	2. Single Family (1-5du/ac)	DU	641.00	6,346	3,703.00	36,660
	4. Condominium/Townhouse	DU	--	--	648.00	5,184
	11. Commercial Center(10-30a)	TSF	150.00	8,109	320.00	17,299
	20. Elementary/Middle School	STU	610.00	885	3,400.00	4,930
	21. High School	STU	--	--	2,800.00	5,012
	30. Industrial Park	TSF	--	--	256.79	1,541
	32. Manufacturing/Warehouse	TSF	77.49	395	77.49	395
	SUB-TOTAL			15,735		71,021
4	30. Industrial Park	TSF	--	--	389.00	2,334
	SUB-TOTAL			--		2,334
5	2. Single Family (1-5du/ac)	DU	1.00	10	651.00	6,445
	4. Condominium/Townhouse	DU	--	--	100.00	800
	12. Commercial Center (<10ac)	TSF	--	--	25.00	2,127
	13. Commercial Shops	TSF	2.01	74	2.01	74
	25. Church	TSF	25.00	233	25.00	233
	SUB-TOTAL			317		9,679
6	2. Single Family (1-5du/ac)	DU	10.00	99	330.00	3,267
	4. Condominium/Townhouse	DU	--	--	141.00	1,128
	SUB-TOTAL			99		4,395
7	2. Single Family (1-5du/ac)	DU	1.00	10	321.00	3,178
	3. Single Family (6-10du/ac)	DU	--	--	480.00	4,752
	4. Condominium/Townhouse	DU	--	--	134.00	1,072
	20. Elementary/Middle School	STU	--	--	1,848.00	2,680
	SUB-TOTAL			10		11,682
8	2. Single Family (1-5du/ac)	DU	10.00	99	70.00	693
	SUB-TOTAL			99		693
9	2. Single Family (1-5du/ac)	DU	1.00	10	166.00	1,643
	SUB-TOTAL			10		1,643
10	2. Single Family (1-5du/ac)	DU	12.00	119	12.00	119
	4. Condominium/Townhouse	DU	184.00	1,472	184.00	1,472
	12. Commercial Center (<10ac)	TSF	20.86	1,774	20.86	1,774
	15. Sit-Down Restaurant	TSF	12.78	1,666	12.78	1,666
	SUB-TOTAL			5,031		5,031
11	2. Single Family (1-5du/ac)	DU	23.00	228	24.00	238



Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
11	3. Single Family (6-10du/ac) DU		--	--	84.00	832
	4. Condominium/Townhouse DU		138.00	1,104	165.00	1,320
	5. Apartment DU		--	--	72.00	497
	12. Commercial Center (<10ac) TSF		19.46	1,655	52.76	4,488
	13. Commercial Shops TSF		2.46	91	2.46	91
	15. Sit-Down Restaurant TSF		7.75	1,010	7.75	1,010
	30. Industrial Park TSF		--	--	41.82	251
	40. Commercial Office TSF		1.23	14	1.23	14
	51. Developed Park AC		--	--	2.00	5
	SUB-TOTAL			4,102	8,746	
12	2. Single Family (1-5du/ac) DU		213.00	2,109	213.00	2,109
	3. Single Family (6-10du/ac) DU		--	--	39.00	386
	14. Hotel ROOM		--	--	121.00	996
		SUB-TOTAL			2,109	3,491
13	2. Single Family (1-5du/ac) DU		464.00	4,594	641.00	6,346
	4. Condominium/Townhouse DU		54.00	432	54.00	432
	11. Commercial Center(10-30a) TSF		--	--	114.56	6,193
	30. Industrial Park TSF		--	--	32.93	198
	40. Commercial Office TSF		--	--	21.82	252
		SUB-TOTAL			5,026	13,421
14	2. Single Family (1-5du/ac) DU		19.00	188	291.00	2,881
	50. Golf Course AC		--	--	150.00	1,194
		SUB-TOTAL			188	4,075
15	2. Single Family (1-5du/ac) DU		78.00	772	294.00	2,911
		SUB-TOTAL			772	2,911
16	2. Single Family (1-5du/ac) DU		--	--	14.00	139
		SUB-TOTAL			--	139
17	2. Single Family (1-5du/ac) DU		146.00	1,445	248.00	2,455
		SUB-TOTAL			1,445	2,455
18	2. Single Family (1-5du/ac) DU		75.00	743	230.00	2,277
	6. Mobile Home DU		113.00	780	113.00	780
		SUB-TOTAL			1,523	3,057
19	2. Single Family (1-5du/ac) DU		1,306.00	12,929	1,577.00	15,612
	20. Elementary/Middle School STU		2,205.00	3,198	2,205.00	3,198
	50. Golf Course AC		--	--	150.00	1,194
		SUB-TOTAL			16,127	20,004
20	2. Single Family (1-5du/ac) DU		245.00	2,426	245.00	2,426
	4. Condominium/Townhouse DU		136.00	1,088	136.00	1,088
	30. Industrial Park TSF		50.00	300	174.00	1,044
		SUB-TOTAL			3,814	4,558

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	2004		-Long-Range GP--	
			Amount	ADT	Amount	ADT
21	2. Single Family (1-5du/ac) DU		620.00	6,138	620.00	6,138
	3. Single Family (6-10du/ac) DU		--	--	35.00	347
	12. Commercial Center (<10ac) TSF		--	--	70.00	5,954
	SUB-TOTAL			6,138		12,439
22	2. Single Family (1-5du/ac) DU		350.00	3,465	350.00	3,465
	SUB-TOTAL			3,465		3,465
23	2. Single Family (1-5du/ac) DU		--	--	373.00	3,693
	SUB-TOTAL			--		3,693
24	2. Single Family (1-5du/ac) DU		--	--	422.00	4,178
	SUB-TOTAL			--		4,178
25	20. Elementary/Middle School STU		--	--	500.00	725
	SUB-TOTAL			--		725
26	13. Commercial Shops TSF		--	--	72.90	2,702
	SUB-TOTAL			--		2,702
27	5. Apartment DU		--	--	256.00	1,766
	SUB-TOTAL			--		1,766
28	3. Single Family (6-10du/ac) DU		91.00	901	400.00	3,960
	4. Condominium/Townhouse DU		--	--	457.00	3,656
	SUB-TOTAL			901		7,616
29	5. Apartment DU		--	--	115.00	794
	SUB-TOTAL			--		794
30	4. Condominium/Townhouse DU		--	--	275.00	2,200
	SUB-TOTAL			--		2,200
31	3. Single Family (6-10du/ac) DU		--	--	65.00	644
	4. Condominium/Townhouse DU		--	--	200.00	1,600
	20. Elementary/Middle School STU		800.00	1,160	1,500.00	2,175
	SUB-TOTAL			1,160		4,419
32	4. Condominium/Townhouse DU		--	--	94.00	752
	SUB-TOTAL			--		752
33	12. Commercial Center (<10ac) TSF		--	--	61.00	5,189
	SUB-TOTAL			--		5,189
34	12. Commercial Center (<10ac) TSF		--	--	107.10	9,110
	SUB-TOTAL			--		9,110
35	3. Single Family (6-10du/ac) DU		--	--	616.00	6,098
	4. Condominium/Townhouse DU		--	--	60.00	480
	5. Apartment DU		--	--	200.00	1,380
	SUB-TOTAL			--		7,958

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	2004		-Long-Range GP--	
			Amount	ADT	Amount	ADT
36	2. Single Family (1-5du/ac)	DU	190.00	1,881	190.00	1,881
	3. Single Family (6-10du/ac)	DU	293.00	2,901	293.00	2,901
	4. Condominium/Townhouse	DU	268.00	2,144	268.00	2,144
	SUB-TOTAL				6,926	6,926
37	2. Single Family (1-5du/ac)	DU	212.00	2,099	212.00	2,099
	4. Condominium/Townhouse	DU	128.00	1,024	128.00	1,024
	25. Church	TSF	20.00	186	20.00	186
	SUB-TOTAL				3,309	3,309
38	4. Condominium/Townhouse	DU	--	--	105.00	840
	5. Apartment	DU	--	--	226.00	1,559
	12. Commercial Center (<10ac)	TSF	--	--	50.00	4,253
	SUB-TOTAL				--	6,652
39	11. Commercial Center(10-30a)	TSF	--	--	134.00	7,244
	30. Industrial Park	TSF	35.40	212	4,016.00	24,096
	SUB-TOTAL				212	31,340
40	2. Single Family (1-5du/ac)	DU	--	--	45.00	445
	31. Business Park	TSF	--	--	116.70	1,190
	34. Utilities	TSF	10.00	24	10.00	24
	SUB-TOTAL				24	1,659
41	30. Industrial Park	TSF	91.90	551	730.00	4,380
	SUB-TOTAL				551	4,380
42	30. Industrial Park	TSF	--	--	275.00	1,650
	SUB-TOTAL				--	1,650
43	30. Industrial Park	TSF	--	--	273.90	1,643
	SUB-TOTAL				--	1,643
44	2. Single Family (1-5du/ac)	DU	445.00	4,406	445.00	4,406
	12. Commercial Center (<10ac)	TSF	--	--	25.00	2,127
	13. Commercial Shops	TSF	10.00	371	10.00	371
	20. Elementary/Middle School	STU	500.00	725	500.00	725
	26. Day Care	STU	--	--	80.00	362
SUB-TOTAL				5,502	7,991	
45	30. Industrial Park	TSF	--	--	1,960.20	11,761
	SUB-TOTAL				--	11,761
46	13. Commercial Shops	TSF	77.00	2,854	77.00	2,854
	30. Industrial Park	TSF	161.65	970	445.80	2,675
	SUB-TOTAL				3,824	5,529
47	30. Industrial Park	TSF	2,403.65	14,422	4,254.10	25,525
	SUB-TOTAL				14,422	25,525

Table E-1  
LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
48	30. Industrial Park SUB-TOTAL	TSF	--	--	720.00	4,320
49	30. Industrial Park SUB-TOTAL	TSF	600.20	3,601	764.30	4,586
50	2. Single Family (1-5du/ac) 58. Landfill SUB-TOTAL	DU SG	100.00 10.00	990 1,000	133.00 20.00	1,317 2,000
51	30. Industrial Park SUB-TOTAL	TSF	--	--	1,300.00	7,800
52	2. Single Family (1-5du/ac) SUB-TOTAL	DU	10.00	99	211.00	2,089
53	1. Single Family (<1du/ac) SUB-TOTAL	DU	--	--	250.00	2,475
54	2. Single Family (1-5du/ac) 3. Single Family (6-10du/ac) SUB-TOTAL	DU DU	-- --	-- --	210.00 370.00	2,079 3,663
55	2. Single Family (1-5du/ac) 3. Single Family (6-10du/ac) 4. Condominium/Townhouse 12. Commercial Center (<10ac) 51. Developed Park SUB-TOTAL	DU DU DU TSF AC	-- -- -- -- --	-- -- -- -- --	100.00 330.00 470.00 25.00 15.00	990 3,267 3,760 2,127 39
56	2. Single Family (1-5du/ac) SUB-TOTAL	DU	--	--	60.00	594
57	12. Commercial Center (<10ac) 31. Business Park 40. Commercial Office SUB-TOTAL	TSF TSF TSF	-- -- --	-- -- --	25.00 1,100.00 180.00	2,127 11,220 2,081
58	30. Industrial Park SUB-TOTAL	TSF	850.20	5,101	1,051.50	6,309
59	35. Regional Post Office SUB-TOTAL	TSF	764.00	3,820	764.00	3,820
60	30. Industrial Park SUB-TOTAL	TSF	--	--	411.60	2,470
61	30. Industrial Park SUB-TOTAL	TSF	--	--	744.90	4,469

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
62	30. Industrial Park	TSF	--	--	627.30	3,764
	SUB-TOTAL					3,764
63	30. Industrial Park	TSF	250.02	1,500	575.00	3,450
	SUB-TOTAL			1,500		3,450
64	30. Industrial Park	TSF	2,742.00	16,452	3,161.48	18,969
	SUB-TOTAL			16,452		18,969
65	10. Commercial Center (>30ac)	TSF	--	--	150.00	6,009
	30. Industrial Park	TSF	329.00	1,974	329.00	1,974
	SUB-TOTAL			1,974		7,983
66	10. Commercial Center (>30ac)	TSF	102.60	4,110	170.45	6,828
	30. Industrial Park	TSF	329.00	1,974	329.00	1,974
	SUB-TOTAL			6,084		8,802
67	3. Single Family (6-10du/ac)	DU	--	--	163.00	1,614
	4. Condominium/Townhouse	DU	--	--	90.00	720
	SUB-TOTAL					2,334
68	5. Apartment	DU	156.00	1,076	208.00	1,435
	SUB-TOTAL			1,076		1,435
69	3. Single Family (6-10du/ac)	DU	--	--	76.00	752
	SUB-TOTAL					752
70	11. Commercial Center(10-30a)	TSF	67.00	3,622	147.00	7,947
	18. Health Club	TSF	71.00	2,840	71.00	2,840
	26. Day Care	STU	150.00	678	150.00	678
	30. Industrial Park	TSF	397.00	2,382	529.00	3,174
	32. Manufacturing/Warehouse	TSF	75.00	383	75.00	383
	SUB-TOTAL			9,905		15,022
71	21. High School	STU	3,500.00	6,265	2,500.00	4,475
	SUB-TOTAL			6,265		4,475
72	13. Commercial Shops	TSF	--	--	60.00	2,224
	20. Elementary/Middle School	STU	350.00	508	350.00	508
	SUB-TOTAL			508		2,732
74	3. Single Family (6-10du/ac)	DU	--	--	153.00	1,515
	4. Condominium/Townhouse	DU	--	--	147.00	1,176
	SUB-TOTAL					2,691
75	4. Condominium/Townhouse	DU	--	--	149.00	1,192
	52. Undeveloped Park	AC	--	--	17.50	9
	SUB-TOTAL					1,201
76	5. Apartment	DU	--	--	188.00	1,297

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
76	12. Commercial Center (<10ac)	TSF	--	--	11.00	936
	SUB-TOTAL			--		2,233
78	30. Industrial Park	TSF	1,615.00	9,690	1,776.00	10,656
	SUB-TOTAL			9,690		10,656
79	30. Industrial Park	TSF	685.00	4,110	685.00	4,110
	SUB-TOTAL			4,110		4,110
80	30. Industrial Park	TSF	828.00	4,968	880.00	5,280
	SUB-TOTAL			4,968		5,280
81	30. Industrial Park	TSF	711.00	4,266	711.00	4,266
	SUB-TOTAL			4,266		4,266
82	30. Industrial Park	TSF	714.00	4,284	1,007.55	6,045
	SUB-TOTAL			4,284		6,045
83	30. Industrial Park	TSF	876.00	5,256	876.00	5,256
	SUB-TOTAL			5,256		5,256
84	30. Industrial Park	TSF	333.00	1,998	333.00	1,998
	SUB-TOTAL			1,998		1,998
86	2. Single Family (1-5du/ac)	DU	11.00	109	346.00	3,425
	10. Commercial Center (>30ac)	TSF	--	--	20.50	821
	12. Commercial Center (<10ac)	TSF	15.00	1,276	15.00	1,276
	14. Hotel	ROOM	36.00	296	36.00	296
	15. Sit-Down Restaurant	TSF	47.26	6,160	47.26	6,160
	SUB-TOTAL			7,841		11,978
87	30. Industrial Park	TSF	--	--	1,274.13	7,645
	SUB-TOTAL			--		7,645
89	53. Wayside Honor Ranch	SG	20.00	2,000	30.00	3,000
	SUB-TOTAL			2,000		3,000
90	11. Commercial Center(10-30a)	TSF	--	--	135.00	7,298
	12. Commercial Center (<10ac)	TSF	--	--	65.29	5,554
	30. Industrial Park	TSF	63.88	383	1,611.20	9,667
	31. Business Park	TSF	--	--	533.68	5,444
	SUB-TOTAL			383		27,963
91	11. Commercial Center(10-30a)	TSF	43.38	2,345	247.38	13,373
	SUB-TOTAL			2,345		13,373
92	10. Commercial Center (>30ac)	TSF	--	--	800.00	32,048
	14. Hotel	ROOM	--	--	300.00	2,469
	40. Commercial Office	TSF	--	--	420.00	4,855
	SUB-TOTAL			--		39,372

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
93	13. Commercial Shops	TSF	11.00	408	20.00	741
	14. Hotel	ROOM	169.00	1,391	169.00	1,391
	SUB-TOTAL			1,799		2,132
94	54. Six Flags Magic Mtn	SG	160.00	16,000	240.00	24,000
	SUB-TOTAL			16,000		24,000
96	1. Single Family (<1du/ac)	DU	--	--	73.00	723
	2. Single Family (1-5du/ac)	DU	--	--	73.00	723
	4. Condominium/Townhouse	DU	--	--	1,574.00	12,592
	5. Apartment	DU	--	--	370.00	2,553
	11. Commercial Center(10-30a)	TSF	--	--	133.65	7,225
	13. Commercial Shops	TSF	--	--	41.00	1,519
	20. Elementary/Middle School	STU	--	--	900.00	1,305
	40. Commercial Office	TSF	--	--	75.00	867
SUB-TOTAL			--	--		27,507
97	55. Travel Village	SG	26.20	2,620	26.20	2,620
	SUB-TOTAL			2,620		2,620
98	12. Commercial Center (<10ac)	TSF	--	--	6.20	527
	31. Business Park	TSF	--	--	691.50	7,053
	SUB-TOTAL			--	--	
99	4. Condominium/Townhouse	DU	--	--	193.00	1,544
	5. Apartment	DU	--	--	292.00	2,015
	51. Developed Park	AC	--	--	25.00	65
	SUB-TOTAL			--	--	
100	12. Commercial Center (<10ac)	TSF	--	--	18.00	1,531
	40. Commercial Office	TSF	--	--	225.00	2,601
	SUB-TOTAL			--	--	
101	1. Single Family (<1du/ac)	DU	--	--	20.00	198
	SUB-TOTAL			--	--	
102	3. Single Family (6-10du/ac)	DU	--	--	168.00	1,663
	4. Condominium/Townhouse	DU	--	--	434.00	3,472
	5. Apartment	DU	--	--	159.00	1,097
	12. Commercial Center (<10ac)	TSF	--	--	49.00	4,168
	13. Commercial Shops	TSF	--	--	9.50	352
	20. Elementary/Middle School	STU	--	--	750.00	1,088
	40. Commercial Office	TSF	--	--	9.50	110
	51. Developed Park	AC	--	--	20.90	54
SUB-TOTAL			--	--		12,004
103	3. Single Family (6-10du/ac)	DU	--	--	140.00	1,386
	4. Condominium/Townhouse	DU	--	--	251.00	2,008
	5. Apartment	DU	--	--	148.00	1,021
	SUB-TOTAL			--	--	

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
104	11. Commercial Center(10-30a)	TSF	--	--	252.00	13,623
	40. Commercial Office	TSF	--	--	370.00	4,277
	SUB-TOTAL					17,900
105	5. Apartment	DU	--	--	144.00	994
	12. Commercial Center (<10ac)	TSF	--	--	27.10	2,305
	40. Commercial Office	TSF	--	--	315.90	3,652
	SUB-TOTAL					6,951
106	12. Commercial Center (<10ac)	TSF	--	--	90.00	7,655
	SUB-TOTAL					7,655
107	2. Single Family (1-5du/ac)	DU	--	--	240.00	2,376
	3. Single Family (6-10du/ac)	DU	--	--	993.00	9,831
	20. Elementary/Middle School	STU	--	--	1,200.00	1,740
	21. High School	STU	--	--	2,230.00	3,992
	SUB-TOTAL					17,939
108	3. Single Family (6-10du/ac)	DU	--	--	840.00	8,316
	4. Condominium/Townhouse	DU	--	--	710.00	5,680
	12. Commercial Center (<10ac)	TSF	--	--	50.00	4,253
	20. Elementary/Middle School	STU	--	--	800.00	1,160
	51. Developed Park	AC	--	--	5.00	13
	SUB-TOTAL					19,422
109	3. Single Family (6-10du/ac)	DU	--	--	60.00	594
	SUB-TOTAL					594
110	2. Single Family (1-5du/ac)	DU	--	--	40.00	396
	3. Single Family (6-10du/ac)	DU	--	--	610.00	6,039
	20. Elementary/Middle School	STU	--	--	800.00	1,160
	51. Developed Park	AC	--	--	15.30	40
	SUB-TOTAL					7,635
111	12. Commercial Center (<10ac)	TSF	--	--	70.00	5,954
	31. Business Park	TSF	--	--	630.00	6,426
	SUB-TOTAL					12,380
113	2. Single Family (1-5du/ac)	DU	--	--	70.00	693
	3. Single Family (6-10du/ac)	DU	--	--	450.00	4,455
	51. Developed Park	AC	--	--	28.00	73
	SUB-TOTAL					5,221
114	2. Single Family (1-5du/ac)	DU	--	--	40.00	396
	3. Single Family (6-10du/ac)	DU	--	--	370.00	3,663
	SUB-TOTAL					4,059
115	2. Single Family (1-5du/ac)	DU	--	--	240.00	2,376
	3. Single Family (6-10du/ac)	DU	--	--	750.00	7,425
	51. Developed Park	AC	--	--	5.00	13
	SUB-TOTAL					9,814



Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
116	3. Single Family (6-10du/ac) DU		--	--	1,167.00	11,553
	4. Condominium/Townhouse DU		--	--	1,780.00	14,240
	11. Commercial Center(10-30a) TSF		--	--	650.00	35,139
	40. Commercial Office TSF		--	--	312.35	3,611
	50. Golf Course AC		--	--	180.00	1,433
	SUB-TOTAL					65,976
117	3. Single Family (6-10du/ac) DU		--	--	220.00	2,178
	51. Developed Park AC		--	--	20.00	52
	SUB-TOTAL					2,230
118	3. Single Family (6-10du/ac) DU		--	--	330.00	3,267
	SUB-TOTAL					3,267
119	3. Single Family (6-10du/ac) DU		--	--	200.00	1,980
	4. Condominium/Townhouse DU		--	--	2,640.00	21,120
	12. Commercial Center (<10ac) TSF		--	--	60.00	5,104
	51. Developed Park AC		--	--	5.00	13
	SUB-TOTAL					28,217
120	3. Single Family (6-10du/ac) DU		--	--	217.00	2,148
	4. Condominium/Townhouse DU		--	--	1,574.00	12,592
	5. Apartment DU		--	--	369.00	2,546
	11. Commercial Center(10-30a) TSF		--	--	133.65	7,225
	SUB-TOTAL					24,511
122	2. Single Family (1-5du/ac) DU		--	--	143.00	1,416
	SUB-TOTAL					1,416
123	1. Single Family (<1du/ac) DU		--	--	250.00	2,475
	SUB-TOTAL					2,475
124	1. Single Family (<1du/ac) DU		--	--	250.00	2,475
	SUB-TOTAL					2,475
125	20. Elementary/Middle School STU		--	--	1,200.00	1,740
	21. High School STU		--	--	2,400.00	4,296
	51. Developed Park AC		--	--	12.20	32
	SUB-TOTAL					6,068
126	1. Single Family (<1du/ac) DU		--	--	60.00	594
	SUB-TOTAL					594
127	3. Single Family (6-10du/ac) DU		--	--	450.00	4,455
	20. Elementary/Middle School STU		--	--	800.00	1,160
	SUB-TOTAL					5,615
128	2. Single Family (1-5du/ac) DU		--	--	10.00	99
	SUB-TOTAL					99

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
129	3. Single Family (6-10du/ac) DU		--	--	330.00	3,267
	SUB-TOTAL				--	3,267
130	2. Single Family (1-5du/ac) DU		708.00	7,009	708.00	7,009
	SUB-TOTAL			7,009		7,009
131	1. Single Family (<1du/ac) DU		--	--	70.00	693
	SUB-TOTAL			--		693
132	2. Single Family (1-5du/ac) DU		436.00	4,316	436.00	4,316
	20. Elementary/Middle School STU		900.00	1,305	900.00	1,305
	51. Developed Park AC		16.00	42	16.00	42
	SUB-TOTAL			5,663		5,663
133	11. Commercial Center(10-30a) TSF		27.00	1,460	27.00	1,460
	SUB-TOTAL			1,460		1,460
134	2. Single Family (1-5du/ac) DU		482.00	4,772	482.00	4,772
	SUB-TOTAL			4,772		4,772
135	2. Single Family (1-5du/ac) DU		20.00	198	174.00	1,723
	4. Condominium/Townhouse DU		172.00	1,376	172.00	1,376
	50. Golf Course AC		208.00	1,656	208.00	1,656
	SUB-TOTAL			3,230		4,755
137	40. Commercial Office TSF		--	--	72.00	832
	SUB-TOTAL			--		832
138	11. Commercial Center(10-30a) TSF		100.00	5,406	120.00	6,487
	SUB-TOTAL			5,406		6,487
139	5. Apartment DU		96.00	662	474.00	3,271
	SUB-TOTAL			662		3,271
140	2. Single Family (1-5du/ac) DU		--	--	73.00	723
	10. Commercial Center (>30ac) TSF		--	--	1,445.65	57,913
	SUB-TOTAL			--		58,636
141	15. Sit-Down Restaurant TSF		20.30	2,646	20.30	2,646
	16. Fast Food Restaurant TSF		10.10	5,011	10.10	5,011
	SUB-TOTAL			7,657		7,657
142	3. Single Family (6-10du/ac) DU		--	--	72.00	713
	4. Condominium/Townhouse DU		--	--	381.00	3,048
	SUB-TOTAL			--		3,761
143	2. Single Family (1-5du/ac) DU		77.00	762	96.00	950
	3. Single Family (6-10du/ac) DU		407.00	4,029	482.00	4,772
	4. Condominium/Townhouse DU		80.00	640	160.00	1,280
	20. Elementary/Middle School STU		--	--	850.00	1,233

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
143	51. Developed Park	AC	--	--	7.00	18
	SUB-TOTAL			5,431		8,253
144	2. Single Family (1-5du/ac)	DU	--	--	6.00	59
	SUB-TOTAL			--		59
145	10. Commercial Center (>30ac)	TSF	778.00	31,167	778.00	31,167
	12. Commercial Center (<10ac)	TSF	36.00	3,062	36.00	3,062
	13. Commercial Shops	TSF	45.74	1,695	45.74	1,695
	15. Sit-Down Restaurant	TSF	7.80	1,017	7.80	1,017
	16. Fast Food Restaurant	TSF	6.68	3,314	6.68	3,314
	32. Manufacturing/Warehouse	TSF	74.50	380	74.50	380
	SUB-TOTAL			40,635		40,635
146	2. Single Family (1-5du/ac)	DU	314.00	3,109	314.00	3,109
	4. Condominium/Townhouse	DU	296.00	2,368	296.00	2,368
	SUB-TOTAL			5,477		5,477
147	3. Single Family (6-10du/ac)	DU	46.00	455	140.00	1,386
	4. Condominium/Townhouse	DU	--	--	100.00	800
	5. Apartment	DU	--	--	567.00	3,912
	20. Elementary/Middle School	STU	850.00	1,233	850.00	1,233
	51. Developed Park	AC	--	--	5.00	13
	SUB-TOTAL			1,688		7,344
148	11. Commercial Center(10-30a)	TSF	183.88	9,941	183.88	9,941
	15. Sit-Down Restaurant	TSF	7.70	1,004	7.70	1,004
	16. Fast Food Restaurant	TSF	5.00	2,481	5.00	2,481
	SUB-TOTAL			13,426		13,426
149	2. Single Family (1-5du/ac)	DU	535.00	5,297	535.00	5,297
	4. Condominium/Townhouse	DU	500.00	4,000	500.00	4,000
	12. Commercial Center (<10ac)	TSF	34.85	2,964	34.85	2,964
	SUB-TOTAL			12,261		12,261
150	2. Single Family (1-5du/ac)	DU	114.00	1,129	114.00	1,129
	SUB-TOTAL			1,129		1,129
151	2. Single Family (1-5du/ac)	DU	--	--	274.00	2,713
	SUB-TOTAL			--		2,713
152	2. Single Family (1-5du/ac)	DU	279.00	2,762	279.00	2,762
	51. Developed Park	AC	--	--	18.00	47
	SUB-TOTAL			2,762		2,809
153	2. Single Family (1-5du/ac)	DU	--	--	30.00	297
	51. Developed Park	AC	--	--	5.00	13
	SUB-TOTAL			--		310
158	2. Single Family (1-5du/ac)	DU	--	--	100.00	990
	SUB-TOTAL			--		990

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
159	2. Single Family (1-5du/ac)	DU	4.00	40	4.00	40
	SUB-TOTAL			40		40
160	1. Single Family (<1du/ac)	DU	--	--	106.00	1,049
	SUB-TOTAL			--		1,049
161	1. Single Family (<1du/ac)	DU	--	--	60.00	594
	2. Single Family (1-5du/ac)	DU	533.00	5,277	607.00	6,009
	4. Condominium/Townhouse	DU	531.00	4,248	650.00	5,200
	11. Commercial Center(10-30a)	TSF	--	--	48.00	2,595
	12. Commercial Center (<10ac)	TSF	5.26	447	54.22	4,612
	13. Commercial Shops	TSF	12.50	463	12.50	463
	14. Hotel	ROOM	283.00	2,329	283.00	2,329
	15. Sit-Down Restaurant	TSF	21.10	2,750	21.10	2,750
	16. Fast Food Restaurant	TSF	16.00	7,938	16.00	7,938
	40. Commercial Office	TSF	61.66	713	282.41	3,265
	56. CHP Office	SG	55.74	5,574	55.74	5,574
	SUB-TOTAL			29,739		41,329
162	2. Single Family (1-5du/ac)	DU	83.00	822	248.00	2,455
	11. Commercial Center(10-30a)	TSF	--	--	102.42	5,537
	30. Industrial Park	TSF	--	--	240.00	1,440
	SUB-TOTAL			822		9,432
163	30. Industrial Park	TSF	--	--	2,567.08	15,402
	SUB-TOTAL			--		15,402
164	2. Single Family (1-5du/ac)	DU	100.00	990	204.00	2,020
	50. Golf Course	AC	145.00	1,154	145.00	1,154
	SUB-TOTAL			2,144		3,174
165	2. Single Family (1-5du/ac)	DU	36.00	356	36.00	356
	4. Condominium/Townhouse	DU	80.00	640	80.00	640
	12. Commercial Center (<10ac)	TSF	30.23	2,571	30.23	2,571
	13. Commercial Shops	TSF	7.60	282	7.60	282
	15. Sit-Down Restaurant	TSF	23.95	3,122	23.95	3,122
	23. Hospital	TSF	24.66	414	24.66	414
	30. Industrial Park	TSF	12.24	73	1,890.89	11,345
	32. Manufacturing/Warehouse	TSF	2.47	13	2.47	13
	40. Commercial Office	TSF	13.81	160	13.81	160
	SUB-TOTAL			7,631		18,903
166	2. Single Family (1-5du/ac)	DU	431.00	4,267	431.00	4,267
	4. Condominium/Townhouse	DU	217.00	1,736	217.00	1,736
	12. Commercial Center (<10ac)	TSF	48.64	4,137	48.64	4,137
	13. Commercial Shops	TSF	1.38	51	1.38	51
	15. Sit-Down Restaurant	TSF	4.34	566	4.34	566
	23. Hospital	TSF	38.58	648	38.58	648
	32. Manufacturing/Warehouse	TSF	11.00	56	11.00	56
	40. Commercial Office	TSF	30.10	348	30.10	348
	SUB-TOTAL			11,809		11,809

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		--Long-Range GP--	
			Amount	ADT	Amount	ADT
167	2. Single Family (1-5du/ac)	DU	180.00	1,782	327.00	3,237
	SUB-TOTAL			1,782		3,237
168	2. Single Family (1-5du/ac)	DU	247.00	2,445	247.00	2,445
	SUB-TOTAL			2,445		2,445
169	2. Single Family (1-5du/ac)	DU	127.00	1,257	127.00	1,257
	4. Condominium/Townhouse	DU	94.00	752	94.00	752
	10. Commercial Center (>30ac)	TSF	200.00	8,012	200.00	8,012
	SUB-TOTAL			10,021		10,021
170	2. Single Family (1-5du/ac)	DU	163.00	1,614	163.00	1,614
	SUB-TOTAL			1,614		1,614
171	2. Single Family (1-5du/ac)	DU	32.00	317	32.00	317
	20. Elementary/Middle School	STU	675.00	979	675.00	979
	SUB-TOTAL			1,296		1,296
172	2. Single Family (1-5du/ac)	DU	185.00	1,831	185.00	1,831
	SUB-TOTAL			1,831		1,831
173	2. Single Family (1-5du/ac)	DU	336.00	3,326	386.00	3,821
	SUB-TOTAL			3,326		3,821
174	11. Commercial Center(10-30a)	TSF	35.00	1,892	337.20	18,229
	SUB-TOTAL			1,892		18,229
175	2. Single Family (1-5du/ac)	DU	162.00	1,604	162.00	1,604
	4. Condominium/Townhouse	DU	160.00	1,280	160.00	1,280
	11. Commercial Center(10-30a)	TSF	98.01	5,298	98.01	5,298
	20. Elementary/Middle School	STU	800.00	1,160	800.00	1,160
	34. Utilities	TSF	87.12	207	87.12	207
	SUB-TOTAL			9,549		9,549
176	2. Single Family (1-5du/ac)	DU	686.00	6,791	762.00	7,544
	4. Condominium/Townhouse	DU	135.00	1,080	135.00	1,080
	10. Commercial Center (>30ac)	TSF	196.02	7,853	196.02	7,853
	13. Commercial Shops	TSF	141.57	5,247	141.57	5,247
	SUB-TOTAL			20,971		21,724
177	2. Single Family (1-5du/ac)	DU	477.00	4,722	477.00	4,722
	3. Single Family (6-10du/ac)	DU	--	--	65.00	644
	4. Condominium/Townhouse	DU	264.00	2,112	264.00	2,112
	11. Commercial Center(10-30a)	TSF	97.57	5,275	97.57	5,275
	20. Elementary/Middle School	STU	535.00	776	535.00	776
	SUB-TOTAL			12,885		13,529
178	2. Single Family (1-5du/ac)	DU	333.00	3,297	333.00	3,297
	11. Commercial Center(10-30a)	TSF	21.78	1,177	21.78	1,177
	13. Commercial Shops	TSF	6.53	242	6.53	242

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
178	40. Commercial Office	TSF	14.81	171	50.81	587
	SUB-TOTAL			4,887		5,303
179	2. Single Family (1-5du/ac)	DU	167.00	1,653	167.00	1,653
	11. Commercial Center(10-30a)	TSF	--	--	24.47	1,323
	13. Commercial Shops	TSF	21.78	807	21.78	807
	34. Utilities	TSF	87.12	207	87.12	207
	42. Medical Office	TSF	24.83	849	24.83	849
	SUB-TOTAL			3,516		4,839
180	2. Single Family (1-5du/ac)	DU	428.00	4,237	428.00	4,237
	SUB-TOTAL			4,237		4,237
181	3. Single Family (6-10du/ac)	DU	282.00	2,792	282.00	2,792
	20. Elementary/Middle School	STU	775.00	1,124	775.00	1,124
	SUB-TOTAL			3,916		3,916
182	3. Single Family (6-10du/ac)	DU	276.00	2,732	276.00	2,732
	4. Condominium/Townhouse	DU	229.00	1,832	229.00	1,832
	6. Mobile Home	DU	238.00	1,642	238.00	1,642
	11. Commercial Center(10-30a)	TSF	76.23	4,121	76.23	4,121
	20. Elementary/Middle School	STU	83.00	120	83.00	120
	25. Church	TSF	17.25	160	17.25	160
	SUB-TOTAL			10,607		10,607
183	4. Condominium/Townhouse	DU	634.00	5,072	634.00	5,072
	12. Commercial Center (<10ac)	TSF	--	--	3.50	298
	22. College	STU	3,274.00	5,042	3,274.00	5,042
	50. Golf Course	AC	100.00	796	100.00	796
	SUB-TOTAL			10,910		11,208
184	40. Commercial Office	TSF	--	--	250.00	2,890
	SUB-TOTAL			--		2,890
185	2. Single Family (1-5du/ac)	DU	133.00	1,317	133.00	1,317
	3. Single Family (6-10du/ac)	DU	211.00	2,089	211.00	2,089
	SUB-TOTAL			3,406		3,406
186	3. Single Family (6-10du/ac)	DU	150.00	1,485	150.00	1,485
	23. Hospital	TSF	125.24	2,104	125.24	2,104
	42. Medical Office	TSF	108.90	3,724	108.90	3,724
	SUB-TOTAL			7,313		7,313
187	2. Single Family (1-5du/ac)	DU	111.00	1,099	111.00	1,099
	4. Condominium/Townhouse	DU	307.00	2,456	307.00	2,456
	34. Utilities	TSF	217.80	518	217.80	518
	51. Developed Park	AC	14.00	36	14.00	36
	SUB-TOTAL			4,109		4,109
188	2. Single Family (1-5du/ac)	DU	72.00	713	72.00	713

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
188	4. Condominium/Townhouse	DU	216.00	1,728	216.00	1,728
	SUB-TOTAL			2,441		2,441
189	22. College	STU	13,543.00	20,856	20,000.00	30,800
	40. Commercial Office	TSF	--	--	28.44	329
	SUB-TOTAL			20,856		31,129
190	2. Single Family (1-5du/ac)	DU	171.00	1,693	171.00	1,693
	SUB-TOTAL			1,693		1,693
191	42. Medical Office	TSF	--	--	78.56	2,687
	SUB-TOTAL			--		2,687
192	2. Single Family (1-5du/ac)	DU	164.00	1,624	164.00	1,624
	4. Condominium/Townhouse	DU	660.00	5,280	660.00	5,280
	SUB-TOTAL			6,904		6,904
193	31. Business Park	TSF	250.00	2,550	250.00	2,550
	SUB-TOTAL			2,550		2,550
194	50. Golf Course	AC	100.00	796	100.00	796
	SUB-TOTAL			796		796
195	3. Single Family (6-10du/ac)	DU	76.00	752	76.00	752
	SUB-TOTAL			752		752
196	13. Commercial Shops	TSF	--	--	16.00	593
	SUB-TOTAL			--		593
197	31. Business Park	TSF	--	--	400.00	4,080
	SUB-TOTAL			--		4,080
198	2. Single Family (1-5du/ac)	DU	179.00	1,772	179.00	1,772
	3. Single Family (6-10du/ac)	DU	152.00	1,505	152.00	1,505
	SUB-TOTAL			3,277		3,277
199	14. Hotel	ROOM	237.00	1,951	237.00	1,951
	15. Sit-Down Restaurant	TSF	5.00	652	5.00	652
	SUB-TOTAL			2,603		2,603
200	31. Business Park	TSF	385.10	3,928	578.00	5,896
	SUB-TOTAL			3,928		5,896
201	31. Business Park	TSF	--	--	250.00	2,550
	SUB-TOTAL			--		2,550
202	5. Apartment	DU	50.00	345	560.00	3,864
	13. Commercial Shops	TSF	13.00	482	22.00	815
	14. Hotel	ROOM	250.00	2,058	250.00	2,058
	18. Health Club	TSF	54.00	2,160	54.00	2,160

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
202	40. Commercial Office	TSF	13.00	150	13.00	150
	SUB-TOTAL			5,195		9,047
203	10. Commercial Center (>30ac)	TSF	742.00	29,725	1,539.00	61,652
	40. Commercial Office	TSF	--	--	90.00	1,040
	SUB-TOTAL			29,725		62,692
204	13. Commercial Shops	TSF	62.00	2,298	62.00	2,298
	17. Movie Theater	SEAT	3,300.00	5,808	3,300.00	5,808
	40. Commercial Office	TSF	400.00	4,624	400.00	4,624
	SUB-TOTAL			12,730		12,730
205	11. Commercial Center(10-30a)	TSF	47.30	2,557	47.30	2,557
	24. Library	TSF	20.00	1,700	20.00	1,700
	40. Commercial Office	TSF	198.89	2,299	198.89	2,299
	SUB-TOTAL			6,556		6,556
206	11. Commercial Center(10-30a)	TSF	126.26	6,826	166.11	8,980
	15. Sit-Down Restaurant	TSF	15.73	2,050	21.50	2,802
	SUB-TOTAL			8,876		11,782
207	40. Commercial Office	TSF	230.00	2,659	230.00	2,659
	SUB-TOTAL			2,659		2,659
208	4. Condominium/Townhouse	DU	234.00	1,872	234.00	1,872
	SUB-TOTAL			1,872		1,872
209	2. Single Family (1-5du/ac)	DU	414.00	4,099	414.00	4,099
	4. Condominium/Townhouse	DU	352.00	2,816	352.00	2,816
	20. Elementary/Middle School	STU	800.00	1,160	800.00	1,160
	SUB-TOTAL			8,075		8,075
210	2. Single Family (1-5du/ac)	DU	205.00	2,029	205.00	2,029
	4. Condominium/Townhouse	DU	208.00	1,664	208.00	1,664
	11. Commercial Center(10-30a)	TSF	148.10	8,006	148.10	8,006
	SUB-TOTAL			11,699		11,699
211	2. Single Family (1-5du/ac)	DU	167.00	1,653	167.00	1,653
	SUB-TOTAL			1,653		1,653
212	2. Single Family (1-5du/ac)	DU	252.00	2,495	252.00	2,495
	4. Condominium/Townhouse	DU	272.00	2,176	272.00	2,176
	25. Church	TSF	18.03	168	18.03	168
	51. Developed Park	AC	4.20	11	4.20	11
	SUB-TOTAL			4,850		4,850
213	2. Single Family (1-5du/ac)	DU	275.00	2,723	275.00	2,723
	25. Church	TSF	25.09	233	25.09	233
	SUB-TOTAL			2,956		2,956



Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
214	5. Apartment	DU	107.00	738	307.00	2,118
	SUB-TOTAL			738		2,118
215	2. Single Family (1-5du/ac)	DU	105.00	1,040	105.00	1,040
	4. Condominium/Townhouse	DU	52.00	416	52.00	416
	11. Commercial Center(10-30a)	TSF	100.00	5,406	100.00	5,406
	13. Commercial Shops	TSF	43.56	1,614	43.56	1,614
	21. High School	STU	2,928.00	5,241	2,928.00	5,241
	25. Church	TSF	50.18	467	50.18	467
	34. Utilities	TSF	47.92	114	47.92	114
	SUB-TOTAL			14,298	14,298	
216	3. Single Family (5-10du/ac)	DU	22.00	218	22.00	218
	4. Condominium/Townhouse	DU	128.00	1,024	128.00	1,024
	11. Commercial Center(10-30a)	TSF	149.96	8,107	149.96	8,107
	40. Commercial Office	TSF	10.45	121	10.45	121
	SUB-TOTAL			9,470	9,470	
217	2. Single Family (1-5du/ac)	DU	202.00	2,000	202.00	2,000
	4. Condominium/Townhouse	DU	16.00	128	28.00	224
	11. Commercial Center(10-30a)	TSF	65.75	3,554	65.75	3,554
	13. Commercial Shops	TSF	--	--	3.27	121
	14. Hotel	ROOM	10.00	82	10.00	82
	30. Industrial Park	TSF	22.44	135	22.44	135
	40. Commercial Office	TSF	22.44	259	22.44	259
	SUB-TOTAL			6,158	6,375	
218	2. Single Family (1-5du/ac)	DU	307.00	3,039	360.00	3,564
	4. Condominium/Townhouse	DU	641.00	5,128	641.00	5,128
	6. Mobile Home	DU	151.00	1,042	151.00	1,042
	10. Commercial Center (>30ac)	TSF	--	--	327.00	13,100
	11. Commercial Center(10-30a)	TSF	--	--	166.62	9,007
	13. Commercial Shops	TSF	64.25	2,381	64.25	2,381
	25. Church	TSF	9.41	88	9.41	88
	SUB-TOTAL			11,678	34,310	
219	2. Single Family (1-5du/ac)	DU	40.00	396	160.00	1,584
	SUB-TOTAL			396		1,584
220	2. Single Family (1-5du/ac)	DU	2.00	20	8.00	79
	34. Utilities	TSF	566.28	1,348	566.28	1,348
	SUB-TOTAL			1,368		1,427
221	2. Single Family (1-5du/ac)	DU	279.00	2,762	408.00	4,039
	4. Condominium/Townhouse	DU	6.00	48	6.00	48
	6. Mobile Home	DU	30.00	207	30.00	207
	22. College	STU	362.00	557	362.00	557
	25. Church	TSF	92.52	860	92.52	860
	30. Industrial Park	TSF	144.40	866	144.40	866
	SUB-TOTAL			5,300	6,577	

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
222	2. Single Family (1-5du/ac)	DU	33.00	327	105.00	1,040
	4. Condominium/Townhouse	DU	--	--	112.00	896
	20. Elementary/Middle School	STU	750.00	1,088	750.00	1,088
	22. College	STU	1,200.00	1,848	1,600.00	2,464
	25. Church	TSF	16.70	155	16.70	155
	30. Industrial Park	TSF	--	--	124.15	745
	SUB-TOTAL				3,418	6,388
223	2. Single Family (1-5du/ac)	DU	19.00	188	29.00	287
	11. Commercial Center(10-30a)	TSF	43.38	2,345	43.38	2,345
	23. Hospital	TSF	4.32	73	4.32	73
	30. Industrial Park	TSF	70.36	422	70.36	422
	31. Business Park	TSF	--	--	437.12	4,459
	40. Commercial Office	TSF	0.36	4	0.36	4
	SUB-TOTAL				3,032	7,590
224	2. Single Family (1-5du/ac)	DU	230.00	2,277	326.00	3,227
	4. Condominium/Townhouse	DU	500.00	4,000	500.00	4,000
	6. Mobile Home	DU	30.00	207	30.00	207
	13. Commercial Shops	TSF	81.68	3,027	81.68	3,027
	20. Elementary/Middle School	STU	722.00	1,047	722.00	1,047
	24. Library	TSF	16.73	1,422	34.40	2,923
	SUB-TOTAL				11,980	14,431
225	2. Single Family (1-5du/ac)	DU	156.00	1,544	156.00	1,544
	4. Condominium/Townhouse	DU	151.00	1,208	151.00	1,208
	20. Elementary/Middle School	STU	1,608.00	2,332	1,608.00	2,332
	51. Developed Park	AC	14.00	36	14.00	36
	SUB-TOTAL				5,120	5,120
226	2. Single Family (1-5du/ac)	DU	300.00	2,970	300.00	2,970
	4. Condominium/Townhouse	DU	292.00	2,336	292.00	2,336
	11. Commercial Center(10-30a)	TSF	--	--	15.68	848
	13. Commercial Shops	TSF	69.70	2,583	69.70	2,583
	25. Church	TSF	--	--	8.00	74
	SUB-TOTAL				7,889	8,811
227	2. Single Family (1-5du/ac)	DU	172.00	1,703	172.00	1,703
	4. Condominium/Townhouse	DU	184.00	1,472	184.00	1,472
	31. Business Park	TSF	--	--	563.56	5,748
	SUB-TOTAL				3,175	8,923
228	2. Single Family (1-5du/ac)	DU	358.00	3,544	358.00	3,544
	SUB-TOTAL				3,544	3,544
229	1. Single Family (<1du/ac)	DU	74.00	733	74.00	733
	2. Single Family (1-5du/ac)	DU	--	--	104.00	1,030
	SUB-TOTAL				733	1,763
230	1. Single Family (<1du/ac)	DU	1.00	10	10.00	99
	SUB-TOTAL				10	99

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
231	2. Single Family (1-5du/ac)	DU	--	--	5.00	50
	4. Condominium/Townhouse	DU	--	--	51.00	408
	34. Utilities	TSF	--	--	29.00	69
	SUB-TOTAL			--		527
232	1. Single Family (<1du/ac)	DU	--	--	10.00	99
	SUB-TOTAL			--		99
233	31. Business Park	TSF	--	--	569.47	5,809
	SUB-TOTAL			--		5,809
234	11. Commercial Center(10-30a)	TSF	--	--	100.00	5,406
	31. Business Park	TSF	--	--	470.24	4,796
	SUB-TOTAL			--		10,202
235	11. Commercial Center(10-30a)	TSF	60.20	3,254	20.00	1,081
	31. Business Park	TSF	24.00	245	130.00	1,326
	SUB-TOTAL			3,499		2,407
236	2. Single Family (1-5du/ac)	DU	--	--	204.00	2,020
	3. Single Family (6-10du/ac)	DU	--	--	200.00	1,980
	20. Elementary/Middle School	STU	--	--	647.00	938
	51. Developed Park	AC	--	--	5.00	13
	SUB-TOTAL			--		4,951
237	2. Single Family (1-5du/ac)	DU	--	--	225.00	2,228
	5. Apartment	DU	--	--	570.00	3,933
	40. Commercial Office	TSF	--	--	99.00	1,144
	51. Developed Park	AC	--	--	24.40	63
	SUB-TOTAL			--		7,368
238	2. Single Family (1-5du/ac)	DU	--	--	163.00	1,614
	3. Single Family (6-10du/ac)	DU	--	--	236.00	2,336
	4. Condominium/Townhouse	DU	--	--	124.00	992
	10. Commercial Center (>30ac)	TSF	--	--	32.00	1,282
	11. Commercial Center(10-30a)	TSF	--	--	54.45	2,944
	12. Commercial Center (<10ac)	TSF	--	--	50.00	4,253
	15. Sit-Down Restaurant	TSF	--	--	20.00	2,607
	30. Industrial Park	TSF	--	--	175.00	1,050
	31. Business Park	TSF	--	--	227.00	2,315
	40. Commercial Office	TSF	--	--	86.16	996
	51. Developed Park	AC	--	--	25.90	67
SUB-TOTAL			--		20,456	
239	13. Commercial Shops	TSF	87.12	3,229	337.29	12,500
	21. High School	STU	500.00	895	500.00	895
	30. Industrial Park	TSF	110.00	660	387.07	2,322
	32. Manufacturing/Warehouse	TSF	352.84	1,799	1,552.60	7,918
	40. Commercial Office	TSF	17.42	201	262.87	3,039
	SUB-TOTAL			6,784		26,674

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	2004		-Long-Range GP-	
			Amount	ADT	Amount	ADT
240	10. Commercial Center (>30ac)	TSF	--	--	126.00	5,048
	12. Commercial Center (<10ac)	TSF	--	--	40.00	3,402
	15. Sit-Down Restaurant	TSF	--	--	9.50	1,238
	16. Fast Food Restaurant	TSF	--	--	5.50	2,729
	SUB-TOTAL			--		12,417
241	10. Commercial Center (>30ac)	TSF	--	--	34.00	1,362
	15. Sit-Down Restaurant	TSF	--	--	10.00	1,303
	SUB-TOTAL			--		2,665
242	40. Commercial Office	TSF	--	--	115.00	1,329
	SUB-TOTAL			--		1,329
243	2. Single Family (1-5du/ac)	DU	--	--	211.00	2,089
	4. Condominium/Townhouse	DU	--	--	426.00	3,408
	5. Apartment	DU	--	--	496.00	3,422
	10. Commercial Center (>30ac)	TSF	--	--	75.00	3,005
	12. Commercial Center (<10ac)	TSF	--	--	20.00	1,701
	15. Sit-Down Restaurant	TSF	--	--	34.00	4,432
	40. Commercial Office	TSF	--	--	164.00	1,896
	SUB-TOTAL			--		19,953
244	1. Single Family (<1du/ac)	DU	95.00	940	95.00	940
	2. Single Family (1-5du/ac)	DU	322.00	3,188	322.00	3,188
	3. Single Family (6-10du/ac)	DU	95.00	940	95.00	940
	4. Condominium/Townhouse	DU	157.00	1,256	157.00	1,256
	SUB-TOTAL			6,324		6,324
245	4. Condominium/Townhouse	DU	148.00	1,184	148.00	1,184
	30. Industrial Park	TSF	--	--	345.58	2,073
	32. Manufacturing/Warehouse	TSF	61.16	312	61.16	312
	SUB-TOTAL			1,496		3,569
246	12. Commercial Center (<10ac)	TSF	--	--	36.00	3,062
	32. Manufacturing/Warehouse	TSF	58.81	300	58.81	300
	SUB-TOTAL			300		3,362
247	11. Commercial Center(10-30a)	TSF	71.37	3,858	71.37	3,858
	SUB-TOTAL			3,858		3,858
248	2. Single Family (1-5du/ac)	DU	2.00	20	2.00	20
	4. Condominium/Townhouse	DU	4.00	32	4.00	32
	30. Industrial Park	TSF	882.09	5,293	882.09	5,293
	SUB-TOTAL			5,345		5,345
249	32. Manufacturing/Warehouse	TSF	291.68	1,488	291.68	1,488
	40. Commercial Office	TSF	--	--	150.00	1,734
	SUB-TOTAL			1,488		3,222
250	11. Commercial Center(10-30a)	TSF	--	--	90.66	4,901

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
250	13. Commercial Shops	TSF	58.00	2,149	58.00	2,149
	SUB-TOTAL			2,149		7,050
252	31. Business Park	TSF	--	--	858.00	8,752
	SUB-TOTAL			--		8,752
253	1. Single Family (<1du/ac)	DU	--	--	84.00	832
	SUB-TOTAL			--		832
254	11. Commercial Center(10-30a)	TSF	--	--	107.50	5,811
	13. Commercial Shops	TSF	8.71	323	8.71	323
	SUB-TOTAL			323		6,134
255	1. Single Family (<1du/ac)	DU	2.00	20	69.00	683
	SUB-TOTAL			20		683
256	2. Single Family (1-5du/ac)	DU	20.00	198	20.00	198
	SUB-TOTAL			198		198
257	2. Single Family (1-5du/ac)	DU	103.00	1,020	266.00	2,633
	3. Single Family (6-10du/ac)	DU	--	--	38.00	376
	4. Condominium/Townhouse	DU	11.00	88	11.00	88
	SUB-TOTAL			1,108		3,097
258	2. Single Family (1-5du/ac)	DU	54.00	535	97.00	960
	32. Manufacturing/Warehouse	TSF	--	--	125.00	638
	SUB-TOTAL			535		1,598
259	3. Single Family (6-10du/ac)	DU	--	--	14.00	139
	4. Condominium/Townhouse	DU	--	--	237.00	1,896
	SUB-TOTAL			--		2,035
260	2. Single Family (1-5du/ac)	DU	27.00	267	402.00	3,980
	SUB-TOTAL			267		3,980
261	2. Single Family (1-5du/ac)	DU	10.00	99	295.00	2,921
	SUB-TOTAL			99		2,921
262	2. Single Family (1-5du/ac)	DU	220.00	2,178	596.00	5,900
	3. Single Family (6-10du/ac)	DU	126.00	1,247	194.00	1,921
	20. Elementary/Middle School	STU	750.00	1,088	750.00	1,088
	SUB-TOTAL			4,513		8,909
263	4. Condominium/Townhouse	DU	--	--	140.00	1,120
	SUB-TOTAL			--		1,120
264	3. Single Family (6-10du/ac)	DU	63.00	624	63.00	624
	SUB-TOTAL			624		624
265	4. Condominium/Townhouse	DU	1,338.00	10,704	1,338.00	10,704
	SUB-TOTAL			10,704		10,704

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
266	11. Commercial Center(10-30a) TSF		101.04	5,462	101.04	5,462
	SUB-TOTAL			5,462		5,462
267	11. Commercial Center(10-30a) TSF		100.00	5,406	100.00	5,406
	SUB-TOTAL			5,406		5,406
268	4. Condominium/Townhouse DU		400.00	3,200	400.00	3,200
	11. Commercial Center(10-30a) TSF		182.33	9,857	182.33	9,857
	32. Manufacturing/Warehouse TSF		75.00	383	75.00	383
	SUB-TOTAL			13,440		13,440
269	2. Single Family (1-5du/ac) DU		173.00	1,713	671.00	6,643
	3. Single Family (6-10du/ac) DU		--	--	16.00	158
	20. Elementary/Middle School STU		--	--	500.00	725
	21. High School STU		--	--	1,116.00	1,998
	51. Developed Park AC		3.00	8	4.50	12
	SUB-TOTAL			1,721		9,536
270	1. Single Family (<1du/ac) DU		8.00	79	8.00	79
	SUB-TOTAL			79		79
271	5. Apartment DU		--	--	155.00	1,070
	10. Commercial Center (>30ac) TSF		--	--	690.66	27,668
	SUB-TOTAL			--		28,738
272	2. Single Family (1-5du/ac) DU		665.00	6,583	665.00	6,583
	3. Single Family (6-10du/ac) DU		154.00	1,525	302.00	2,990
	4. Condominium/Townhouse DU		823.00	6,584	823.00	6,584
	12. Commercial Center (<10ac) TSF		8.12	691	8.12	691
	20. Elementary/Middle School STU		750.00	1,088	750.00	1,088
	SUB-TOTAL			16,471		17,936
273	2. Single Family (1-5du/ac) DU		6.00	59	101.00	1,000
	SUB-TOTAL			59		1,000
274	2. Single Family (1-5du/ac) DU		--	--	362.00	3,584
	31. Business Park TSF		--	--	110.06	1,123
	SUB-TOTAL			--		4,707
275	2. Single Family (1-5du/ac) DU		225.00	2,228	225.00	2,228
	SUB-TOTAL			2,228		2,228
276	3. Single Family (6-10du/ac) DU		75.00	743	75.00	743
	4. Condominium/Townhouse DU		539.00	4,312	539.00	4,312
	12. Commercial Center (<10ac) TSF		98.01	8,337	98.01	8,337
	25. Church TSF		7.84	73	7.84	73
	SUB-TOTAL			13,465		13,465
277	12. Commercial Center (<10ac) TSF		4.91	418	4.91	418
	15. Sit-Down Restaurant TSF		3.00	391	3.00	391
	SUB-TOTAL			809		809

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
278	4. Condominium/Townhouse	DU	757.00	6,056	757.00	6,056
	12. Commercial Center (<10ac)	TSF	81.89	6,966	81.89	6,966
	50. Golf Course	AC	50.00	398	50.00	398
	SUB-TOTAL				13,420	13,420
279	6. Mobile Home	DU	313.00	2,160	313.00	2,160
	12. Commercial Center (<10ac)	TSF	19.33	1,644	26.33	2,240
	30. Industrial Park	TSF	--	--	58.00	348
	40. Commercial Office	TSF	0.20	2	0.20	2
	SUB-TOTAL				3,806	4,750
280	31. Business Park	TSF	--	--	38.18	389
	SUB-TOTAL				--	389
281	31. Business Park	TSF	--	--	215.62	2,199
	SUB-TOTAL				--	2,199
282	4. Condominium/Townhouse	DU	486.00	3,888	486.00	3,888
	11. Commercial Center(10-30a)	TSF	17.90	968	17.90	968
	SUB-TOTAL				4,856	4,856
283	2. Single Family (1-5du/ac)	DU	161.00	1,594	161.00	1,594
	4. Condominium/Townhouse	DU	400.00	3,200	400.00	3,200
	20. Elementary/Middle School	STU	1,116.00	1,618	1,116.00	1,618
	SUB-TOTAL				6,412	6,412
284	2. Single Family (1-5du/ac)	DU	2.00	20	46.00	455
	6. Mobile Home	DU	346.00	2,387	346.00	2,387
	SUB-TOTAL				2,407	2,842
285	2. Single Family (1-5du/ac)	DU	--	--	80.00	792
	10. Commercial Center (>30ac)	TSF	--	--	246.99	9,894
	SUB-TOTAL				--	10,686
286	2. Single Family (1-5du/ac)	DU	--	--	82.00	812
	SUB-TOTAL				--	812
287	3. Single Family (6-10du/ac)	DU	--	--	111.00	1,099
	SUB-TOTAL				--	1,099
288	21. High School	STU	--	--	2,500.00	4,475
	SUB-TOTAL				--	4,475
289	2. Single Family (1-5du/ac)	DU	--	--	55.00	545
	31. Business Park	TSF	--	--	57.17	583
	SUB-TOTAL				--	1,128
290	2. Single Family (1-5du/ac)	DU	64.00	634	64.00	634
	4. Condominium/Townhouse	DU	93.00	744	93.00	744
	SUB-TOTAL				1,378	1,378

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
291	2. Single Family (1-5du/ac)	DU	--	--	74.00	733
	31. Business Park	TSF	8.60	88	181.63	1,853
	SUB-TOTAL			88		2,586
292	2. Single Family (1-5du/ac)	DU	161.00	1,594	161.00	1,594
	SUB-TOTAL			1,594		1,594
293	2. Single Family (1-5du/ac)	DU	133.00	1,317	133.00	1,317
	4. Condominium/Townhouse	DU	368.00	2,944	368.00	2,944
	SUB-TOTAL			4,261		4,261
294	5. Apartment	DU	--	--	191.00	1,318
	11. Commercial Center(10-30a)	TSF	124.35	6,722	364.00	19,678
	30. Industrial Park	TSF	210.00	1,260	210.00	1,260
	31. Business Park	TSF	294.22	3,001	349.98	3,570
	51. Developed Park	AC	--	--	38.00	99
SUB-TOTAL			10,983		25,925	
295	32. Manufacturing/Warehouse	TSF	372.45	1,899	1,020.58	5,205
	40. Commercial Office	TSF	--	--	56.00	647
	51. Developed Park	AC	21.50	56	21.50	56
	SUB-TOTAL			1,955		5,908
298	5. Apartment	DU	830.00	5,727	830.00	5,727
	SUB-TOTAL			5,727		5,727
299	11. Commercial Center(10-30a)	TSF	184.00	9,947	184.00	9,947
	SUB-TOTAL			9,947		9,947
300	10. Commercial Center (>30ac)	TSF	272.00	10,896	272.00	10,896
	SUB-TOTAL			10,896		10,896
301	13. Commercial Shops	TSF	49.24	1,825	49.24	1,825
	19. Car Dealership	TSF	66.50	2,494	66.50	2,494
	43. Post Office	TSF	50.00	5,410	50.00	5,410
	SUB-TOTAL			9,729		9,729
302	10. Commercial Center (>30ac)	TSF	384.42	15,400	384.42	15,400
	12. Commercial Center (<10ac)	TSF	--	--	30.00	2,552
	19. Car Dealership	TSF	31.00	1,163	31.00	1,163
	SUB-TOTAL			16,563		19,115
303	19. Car Dealership	TSF	150.00	5,625	150.00	5,625
	SUB-TOTAL			5,625		5,625
304	11. Commercial Center(10-30a)	TSF	33.00	1,784	33.00	1,784
	15. Sit-Down Restaurant	TSF	15.00	1,955	15.00	1,955
	19. Car Dealership	TSF	83.00	3,113	83.00	3,113
	SUB-TOTAL			6,852		6,852



Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
305	11. Commercial Center(10-30a)	TSF	197.29	10,665	197.29	10,665
	15. Sit-Down Restaurant	TSF	5.36	699	5.36	699
	32. Manufacturing/Warehouse	TSF	--	--	100.00	510
	SUB-TOTAL			11,364		11,874
306	11. Commercial Center(10-30a)	TSF	80.50	4,352	143.90	7,779
	25. Church	TSF	36.10	336	36.10	336
	SUB-TOTAL			4,688		8,115
307	11. Commercial Center(10-30a)	TSF	128.00	6,920	128.00	6,920
	16. Fast Food Restaurant	TSF	4.80	2,381	4.80	2,381
	SUB-TOTAL			9,301		9,301
308	5. Apartment	DU	245.00	1,691	245.00	1,691
	12. Commercial Center (<10ac)	TSF	175.11	14,895	175.11	14,895
	15. Sit-Down Restaurant	TSF	5.40	704	5.40	704
	32. Manufacturing/Warehouse	TSF	29.40	150	29.40	150
	SUB-TOTAL			17,440		17,440
309	13. Commercial Shops	TSF	3.00	111	3.00	111
	SUB-TOTAL			111		111
310	19. Car Dealership	TSF	--	--	111.00	4,163
	51. Developed Park	AC	17.20	45	17.20	45
	SUB-TOTAL			45		4,208
311	3. Single Family (6-10du/ac)	DU	132.00	1,307	132.00	1,307
	4. Condominium/Townhouse	DU	63.00	504	63.00	504
	SUB-TOTAL			1,811		1,811
312	11. Commercial Center(10-30a)	TSF	164.40	8,887	180.00	9,731
	34. Utilities	TSF	84.00	200	84.00	200
	SUB-TOTAL			9,087		9,931
313	4. Condominium/Townhouse	DU	264.00	2,112	264.00	2,112
	SUB-TOTAL			2,112		2,112
314	11. Commercial Center(10-30a)	TSF	178.00	9,623	178.00	9,623
	SUB-TOTAL			9,623		9,623
315	4. Condominium/Townhouse	DU	582.00	4,656	582.00	4,656
	SUB-TOTAL			4,656		4,656
316	2. Single Family (1-5du/ac)	DU	121.00	1,198	121.00	1,198
	SUB-TOTAL			1,198		1,198
317	20. Elementary/Middle School	STU	924.00	1,340	924.00	1,340
	51. Developed Park	AC	18.00	47	18.00	47
	SUB-TOTAL			1,387		1,387

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
318	2. Single Family (1-5du/ac)	DU	21.00	208	21.00	208
	4. Condominium/Townhouse	DU	252.00	2,016	252.00	2,016
	SUB-TOTAL			2,224		2,224
319	13. Commercial Shops	TSF	--	--	2.00	74
	20. Elementary/Middle School	STU	--	--	250.00	363
	25. Church	TSF	--	--	80.00	744
	40. Commercial Office	TSF	--	--	240.00	2,774
	SUB-TOTAL			--		3,955
320	2. Single Family (1-5du/ac)	DU	125.00	1,238	125.00	1,238
	SUB-TOTAL			1,238		1,238
321	3. Single Family (6-10du/ac)	DU	155.00	1,535	155.00	1,535
	4. Condominium/Townhouse	DU	66.00	528	66.00	528
	SUB-TOTAL			2,063		2,063
322	3. Single Family (6-10du/ac)	DU	87.00	861	87.00	861
	SUB-TOTAL			861		861
323	3. Single Family (6-10du/ac)	DU	161.00	1,594	161.00	1,594
	4. Condominium/Townhouse	DU	132.00	1,056	132.00	1,056
	SUB-TOTAL			2,650		2,650
325	3. Single Family (6-10du/ac)	DU	--	--	205.00	2,029
	SUB-TOTAL			--		2,029
326	2. Single Family (1-5du/ac)	DU	101.00	1,000	101.00	1,000
	SUB-TOTAL			1,000		1,000
327	2. Single Family (1-5du/ac)	DU	105.00	1,040	105.00	1,040
	SUB-TOTAL			1,040		1,040
328	2. Single Family (1-5du/ac)	DU	110.00	1,089	110.00	1,089
	SUB-TOTAL			1,089		1,089
329	2. Single Family (1-5du/ac)	DU	50.00	495	50.00	495
	20. Elementary/Middle School	STU	924.00	1,340	924.00	1,340
	SUB-TOTAL			1,835		1,835
330	2. Single Family (1-5du/ac)	DU	143.00	1,416	143.00	1,416
	SUB-TOTAL			1,416		1,416
331	2. Single Family (1-5du/ac)	DU	167.00	1,653	167.00	1,653
	SUB-TOTAL			1,653		1,653
332	2. Single Family (1-5du/ac)	DU	114.00	1,129	114.00	1,129
	4. Condominium/Townhouse	DU	102.00	816	102.00	816
	SUB-TOTAL			1,945		1,945

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
333	2. Single Family (1-5du/ac)	DU	803.00	7,950	803.00	7,950
	4. Condominium/Townhouse	DU	360.00	2,880	360.00	2,880
	13. Commercial Shops	TSF	25.05	928	25.05	928
	20. Elementary/Middle School	STU	924.00	1,340	924.00	1,340
	SUB-TOTAL			13,098		13,098
334	2. Single Family (1-5du/ac)	DU	164.00	1,624	164.00	1,624
	SUB-TOTAL			1,624		1,624
335	2. Single Family (1-5du/ac)	DU	194.00	1,921	194.00	1,921
	SUB-TOTAL			1,921		1,921
336	2. Single Family (1-5du/ac)	DU	589.00	5,831	589.00	5,831
	20. Elementary/Middle School	STU	924.00	1,340	924.00	1,340
	51. Developed Park	AC	7.30	19	7.30	19
	SUB-TOTAL			7,190		7,190
337	2. Single Family (1-5du/ac)	DU	390.00	3,861	390.00	3,861
	SUB-TOTAL			3,861		3,861
338	11. Commercial Center(10-30a)	TSF	92.00	4,974	92.00	4,974
	SUB-TOTAL			4,974		4,974
339	2. Single Family (1-5du/ac)	DU	128.00	1,267	128.00	1,267
	3. Single Family (6-10du/ac)	DU	161.00	1,594	161.00	1,594
	20. Elementary/Middle School	STU	924.00	1,340	924.00	1,340
	51. Developed Park	AC	7.00	18	7.00	18
	SUB-TOTAL			4,219		4,219
340	2. Single Family (1-5du/ac)	DU	270.00	2,673	270.00	2,673
	3. Single Family (6-10du/ac)	DU	124.00	1,228	124.00	1,228
	4. Condominium/Townhouse	DU	264.00	2,112	264.00	2,112
	SUB-TOTAL			6,013		6,013
341	5. Apartment	DU	325.00	2,243	325.00	2,243
	26. Day Care	STU	260.00	1,175	260.00	1,175
	SUB-TOTAL			3,418		3,418
342	4. Condominium/Townhouse	DU	168.00	1,344	168.00	1,344
	SUB-TOTAL			1,344		1,344
343	2. Single Family (1-5du/ac)	DU	90.00	891	90.00	891
	3. Single Family (6-10du/ac)	DU	89.00	881	89.00	881
	4. Condominium/Townhouse	DU	132.00	1,056	132.00	1,056
	SUB-TOTAL			2,828		2,828
344	2. Single Family (1-5du/ac)	DU	415.00	4,109	415.00	4,109
	11. Commercial Center(10-30a)	TSF	--	--	40.00	2,162
	SUB-TOTAL			4,109		6,271

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
345	2. Single Family (1-5du/ac)	DU	23.00	228	23.00	228
	SUB-TOTAL			228		228
347	2. Single Family (1-5du/ac)	DU	313.00	3,099	313.00	3,099
	SUB-TOTAL			3,099		3,099
348	2. Single Family (1-5du/ac)	DU	517.00	5,118	517.00	5,118
	SUB-TOTAL			5,118		5,118
349	4. Condominium/Townhouse	DU	83.00	664	83.00	664
	12. Commercial Center (<10ac)	TSF	8.00	680	8.00	680
	26. Day Care	STU	50.00	226	50.00	226
	SUB-TOTAL			1,570		1,570
350	25. Church	TSF	108.61	1,010	108.61	1,010
	SUB-TOTAL			1,010		1,010
352	2. Single Family (1-5du/ac)	DU	440.00	4,356	592.00	5,861
	SUB-TOTAL			4,356		5,861
353	2. Single Family (1-5du/ac)	DU	259.00	2,564	259.00	2,564
	SUB-TOTAL			2,564		2,564
355	2. Single Family (1-5du/ac)	DU	--	--	500.00	4,950
	20. Elementary/Middle School	STU	--	--	750.00	1,088
	51. Developed Park	AC	--	--	5.00	13
	SUB-TOTAL			--		6,051
356	2. Single Family (1-5du/ac)	DU	385.00	3,811	385.00	3,811
	SUB-TOTAL			3,811		3,811
357	2. Single Family (1-5du/ac)	DU	--	--	90.00	891
	SUB-TOTAL			--		891
358	2. Single Family (1-5du/ac)	DU	105.00	1,040	421.00	4,168
	4. Condominium/Townhouse	DU	140.00	1,120	255.00	2,040
	20. Elementary/Middle School	STU	650.00	943	650.00	943
	51. Developed Park	AC	10.50	27	19.20	50
	SUB-TOTAL			3,130		7,201
359	2. Single Family (1-5du/ac)	DU	570.00	5,643	570.00	5,643
	4. Condominium/Townhouse	DU	192.00	1,536	192.00	1,536
	SUB-TOTAL			7,179		7,179
360	2. Single Family (1-5du/ac)	DU	538.00	5,326	538.00	5,326
	4. Condominium/Townhouse	DU	248.00	1,984	248.00	1,984
	12. Commercial Center (<10ac)	TSF	119.00	10,122	119.00	10,122
	20. Elementary/Middle School	STU	647.00	938	647.00	938
	SUB-TOTAL			18,370		18,370

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
361	2. Single Family (1-5du/ac) DU		188.00	1,861	376.00	3,722
	SUB-TOTAL			1,861		3,722
362	2. Single Family (1-5du/ac) DU		173.00	1,713	173.00	1,713
	11. Commercial Center(10-30a) TSF		--	--	68.28	3,691
	SUB-TOTAL			1,713		5,404
363	2. Single Family (1-5du/ac) DU		6.00	59	44.00	436
	SUB-TOTAL			59		436
364	3. Single Family (6-10du/ac) DU		199.00	1,970	199.00	1,970
	SUB-TOTAL			1,970		1,970
365	2. Single Family (1-5du/ac) DU		201.00	1,990	201.00	1,990
	4. Condominium/Townhouse DU		102.00	816	102.00	816
	12. Commercial Center (<10ac) TSF		40.28	3,426	40.28	3,426
	SUB-TOTAL			6,232		6,232
366	2. Single Family (1-5du/ac) DU		600.00	5,940	600.00	5,940
	SUB-TOTAL			5,940		5,940
367	3. Single Family (6-10du/ac) DU		437.00	4,326	437.00	4,326
	SUB-TOTAL			4,326		4,326
368	2. Single Family (1-5du/ac) DU		1,070.00	10,593	1,070.00	10,593
	20. Elementary/Middle School STU		675.00	979	675.00	979
	25. Church TSF		21.00	195	56.00	521
	SUB-TOTAL			11,767		12,093
369	2. Single Family (1-5du/ac) DU		202.00	2,000	202.00	2,000
	SUB-TOTAL			2,000		2,000
370	2. Single Family (1-5du/ac) DU		1,080.00	10,692	1,080.00	10,692
	21. High School STU		2,800.00	5,012	2,800.00	5,012
	SUB-TOTAL			15,704		15,704
371	2. Single Family (1-5du/ac) DU		673.00	6,663	673.00	6,663
	20. Elementary/Middle School STU		687.00	996	687.00	996
	SUB-TOTAL			7,659		7,659
372	2. Single Family (1-5du/ac) DU		287.00	2,841	287.00	2,841
	4. Condominium/Townhouse DU		230.00	1,840	230.00	1,840
	11. Commercial Center(10-30a) TSF		153.55	8,301	153.55	8,301
	SUB-TOTAL			12,982		12,982
373	2. Single Family (1-5du/ac) DU		236.00	2,336	236.00	2,336
	20. Elementary/Middle School STU		462.00	670	462.00	670
	25. Church TSF		23.52	219	23.52	219
	SUB-TOTAL			3,225		3,225

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
374	5. Apartment	DU	--	--	324.00	2,236
	11. Commercial Center(10-30a)	TSF	150.00	8,109	150.00	8,109
	SUB-TOTAL			8,109		10,345
375	12. Commercial Center (<10ac)	TSF	--	--	40.00	3,402
	16. Fast Food Restaurant	TSF	5.00	2,481	5.00	2,481
	SUB-TOTAL			2,481		5,883
376	3. Single Family (6-10du/ac)	DU	--	--	225.00	2,228
	51. Developed Park	AC	--	--	5.00	13
	SUB-TOTAL			--		2,241
377	13. Commercial Shops	TSF	57.50	2,131	57.50	2,131
	SUB-TOTAL			2,131		2,131
378	6. Mobile Home	DU	332.00	2,291	332.00	2,291
	10. Commercial Center (>30ac)	TSF	--	--	500.00	20,030
	13. Commercial Shops	TSF	41.00	1,519	56.00	2,075
	31. Business Park	TSF	56.00	571	56.00	571
	40. Commercial Office	TSF	--	--	110.00	1,272
SUB-TOTAL			4,381		26,239	
379	3. Single Family (6-10du/ac)	DU	--	--	214.00	2,119
	SUB-TOTAL			--		2,119
380	5. Apartment	DU	--	--	420.00	2,898
	SUB-TOTAL			--		2,898
381	51. Developed Park	AC	50.00	130	50.00	130
	SUB-TOTAL			130		130
382	34. Utilities	TSF	21.00	50	21.00	50
	51. Developed Park	AC	50.00	130	50.00	130
	SUB-TOTAL			180		180
383	2. Single Family (1-5du/ac)	DU	231.00	2,287	257.00	2,544
	13. Commercial Shops	TSF	8.71	323	8.71	323
	SUB-TOTAL			2,610		2,867
384	2. Single Family (1-5du/ac)	DU	354.00	3,505	354.00	3,505
	12. Commercial Center (<10ac)	TSF	23.07	1,962	23.07	1,962
	SUB-TOTAL			5,467		5,467
385	2. Single Family (1-5du/ac)	DU	--	--	75.00	743
	SUB-TOTAL			--		743
386	2. Single Family (1-5du/ac)	DU	162.00	1,604	162.00	1,604
	SUB-TOTAL			1,604		1,604
387	2. Single Family (1-5du/ac)	DU	142.00	1,406	1,015.00	10,049

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
387	4. Condominium/Townhouse	DU	180.00	1,440	954.00	7,632
	SUB-TOTAL			2,846		17,681
388	1. Single Family (<1du/ac)	DU	--	--	208.00	2,059
	SUB-TOTAL			--		2,059
389	2. Single Family (1-5du/ac)	DU	1,061.00	10,504	1,078.00	10,672
	3. Single Family (6-10du/ac)	DU	126.00	1,247	126.00	1,247
	20. Elementary/Middle School	STU	528.00	766	528.00	766
	SUB-TOTAL			12,517		12,685
390	2. Single Family (1-5du/ac)	DU	150.00	1,485	150.00	1,485
	SUB-TOTAL			1,485		1,485
391	13. Commercial Shops	TSF	16.33	605	16.33	605
	30. Industrial Park	TSF	--	--	70.00	420
	32. Manufacturing/Warehouse	TSF	376.36	1,919	376.36	1,919
	SUB-TOTAL			2,524		2,944
392	2. Single Family (1-5du/ac)	DU	323.00	3,198	323.00	3,198
	6. Mobile Home	DU	400.00	2,760	400.00	2,760
	11. Commercial Center(10-30a)	TSF	--	--	81.68	4,416
	13. Commercial Shops	TSF	20.80	771	20.80	771
	20. Elementary/Middle School	STU	1,000.00	1,450	1,000.00	1,450
SUB-TOTAL			8,179		12,595	
393	3. Single Family (6-10du/ac)	DU	162.00	1,604	162.00	1,604
	4. Condominium/Townhouse	DU	100.00	800	100.00	800
	12. Commercial Center (<10ac)	TSF	52.27	4,446	52.27	4,446
	25. Church	TSF	37.64	350	37.64	350
SUB-TOTAL			7,200		7,200	
394	2. Single Family (1-5du/ac)	DU	325.00	3,217	325.00	3,217
	20. Elementary/Middle School	STU	720.00	1,044	720.00	1,044
	21. High School	STU	3,500.00	6,265	3,500.00	6,265
	51. Developed Park	AC	3.20	8	3.20	8
SUB-TOTAL			10,534		10,534	
395	3. Single Family (6-10du/ac)	DU	185.00	1,831	185.00	1,831
	11. Commercial Center(10-30a)	TSF	165.53	8,949	165.53	8,949
	20. Elementary/Middle School	STU	1,505.00	2,182	1,505.00	2,182
SUB-TOTAL			12,962		12,962	
396	12. Commercial Center (<10ac)	TSF	76.23	6,484	76.23	6,484
	SUB-TOTAL			6,484		6,484
397	3. Single Family (6-10du/ac)	DU	49.00	485	49.00	485
	4. Condominium/Townhouse	DU	512.00	4,096	512.00	4,096
	5. Apartment	DU	67.00	462	67.00	462
	6. Mobile Home	DU	171.00	1,180	171.00	1,180

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
397	11. Commercial Center(10-30a) TSF		310.98	16,812	310.98	16,812
	12. Commercial Center (<10ac) TSF		--	--	74.00	6,294
	SUB-TOTAL			23,035		29,329
398	2. Single Family (1-5du/ac) DU		1,120.00	11,088	1,120.00	11,088
	4. Condominium/Townhouse DU		120.00	960	120.00	960
	12. Commercial Center (<10ac) TSF		250.00	21,265	250.00	21,265
	13. Commercial Shops TSF		2.68	99	2.68	99
	15. Sit-Down Restaurant TSF		8.45	1,101	8.45	1,101
	20. Elementary/Middle School STU		820.00	1,189	820.00	1,189
	24. Library TSF		17.00	1,445	17.00	1,445
SUB-TOTAL			37,147		37,147	
399	2. Single Family (1-5du/ac) DU		779.00	7,712	779.00	7,712
	3. Single Family (6-10du/ac) DU		80.00	792	80.00	792
	20. Elementary/Middle School STU		545.00	790	545.00	790
	SUB-TOTAL			9,294		9,294
400	2. Single Family (1-5du/ac) DU		--	--	12.00	119
	SUB-TOTAL			--		119
401	2. Single Family (1-5du/ac) DU		--	--	900.00	8,910
	4. Condominium/Townhouse DU		--	--	482.00	3,856
	SUB-TOTAL			--		12,766
402	2. Single Family (1-5du/ac) DU		300.00	2,970	1,129.00	11,177
	11. Commercial Center(10-30a) TSF		--	--	150.00	8,109
	20. Elementary/Middle School STU		656.00	951	656.00	951
	SUB-TOTAL			3,921		20,237
403	2. Single Family (1-5du/ac) DU		111.00	1,099	111.00	1,099
	12. Commercial Center (<10ac) TSF		12.00	1,021	46.00	3,913
	SUB-TOTAL			2,120		5,012
404	2. Single Family (1-5du/ac) DU		10.00	99	170.00	1,683
	SUB-TOTAL			99		1,683
405	2. Single Family (1-5du/ac) DU		24.00	238	296.00	2,930
	SUB-TOTAL			238		2,930
406	2. Single Family (1-5du/ac) DU		38.00	376	353.00	3,495
	SUB-TOTAL			376		3,495
407	2. Single Family (1-5du/ac) DU		--	--	47.00	465
	SUB-TOTAL			--		465
408	2. Single Family (1-5du/ac) DU		47.00	465	648.00	6,415
	SUB-TOTAL			465		6,415
409	2. Single Family (1-5du/ac) DU		--	--	154.00	1,525
	SUB-TOTAL			--		1,525



Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
410	2. Single Family (1-5du/ac)	DU	25.00	247	248.00	2,455
	6. Mobile Home	DU	--	--	101.00	697
	30. Industrial Park	TSF	--	--	44.00	264
	SUB-TOTAL			247		3,416
411	2. Single Family (1-5du/ac)	DU	--	--	800.00	7,920
	20. Elementary/Middle School	STU	--	--	800.00	1,160
	SUB-TOTAL			--		9,080
412	1. Single Family (<1du/ac)	DU	120.00	1,188	120.00	1,188
	SUB-TOTAL			1,188		1,188
413	2. Single Family (1-5du/ac)	DU	29.00	287	106.00	1,049
	4. Condominium/Townhouse	DU	246.00	1,968	614.00	4,912
	12. Commercial Center (<10ac)	TSF	26.94	2,292	44.60	3,794
	30. Industrial Park	TSF	--	--	48.54	291
	32. Manufacturing/Warehouse	TSF	45.21	231	45.21	231
	40. Commercial Office	TSF	36.59	423	36.59	423
	SUB-TOTAL			5,201		10,700
414	2. Single Family (1-5du/ac)	DU	15.00	149	40.00	396
	4. Condominium/Townhouse	DU	1,358.00	10,864	1,358.00	10,864
	6. Mobile Home	DU	250.00	1,725	250.00	1,725
	13. Commercial Shops	TSF	95.83	3,551	95.83	3,551
	40. Commercial Office	TSF	--	--	125.00	1,445
	SUB-TOTAL			16,289		17,981
415	2. Single Family (1-5du/ac)	DU	206.00	2,039	211.00	2,089
	11. Commercial Center(10-30a)	TSF	--	--	63.71	3,444
	30. Industrial Park	TSF	--	--	125.45	753
	32. Manufacturing/Warehouse	TSF	27.80	142	27.80	142
	SUB-TOTAL			2,181		6,428
416	2. Single Family (1-5du/ac)	DU	579.00	5,732	579.00	5,732
	4. Condominium/Townhouse	DU	148.00	1,184	148.00	1,184
	13. Commercial Shops	TSF	15.00	556	15.00	556
	51. Developed Park	AC	15.00	39	15.00	39
	SUB-TOTAL			7,511		7,511
417	2. Single Family (1-5du/ac)	DU	579.00	5,732	579.00	5,732
	4. Condominium/Townhouse	DU	149.00	1,192	149.00	1,192
	20. Elementary/Middle School	STU	760.00	1,102	760.00	1,102
	SUB-TOTAL			8,026		8,026
418	4. Condominium/Townhouse	DU	474.00	3,792	474.00	3,792
	5. Apartment	DU	232.00	1,601	232.00	1,601
	6. Mobile Home	DU	90.00	621	90.00	621
	11. Commercial Center(10-30a)	TSF	128.43	6,943	128.43	6,943
	SUB-TOTAL			12,957		12,957

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
419	2. Single Family (1-5du/ac)	DU	--	--	1,018.00	10,078
	4. Condominium/Townhouse	DU	1,834.00	14,672	1,834.00	14,672
	SUB-TOTAL			14,672		24,750
420	4. Condominium/Townhouse	DU	40.00	320	40.00	320
	SUB-TOTAL			320		320
421	4. Condominium/Townhouse	DU	752.00	6,016	752.00	6,016
	30. Industrial Park	TSF	--	--	300.00	1,800
	31. Business Park	TSF	--	--	300.00	3,060
	SUB-TOTAL			6,016		10,876
422	2. Single Family (1-5du/ac)	DU	74.00	733	76.00	752
	4. Condominium/Townhouse	DU	80.00	640	80.00	640
	11. Commercial Center(10-30a)	TSF	--	--	132.00	7,136
	12. Commercial Center (<10ac)	TSF	4.00	340	4.00	340
	20. Elementary/Middle School	STU	817.00	1,185	817.00	1,185
SUB-TOTAL			2,898		10,053	
423	2. Single Family (1-5du/ac)	DU	353.00	3,495	353.00	3,495
	3. Single Family (6-10du/ac)	DU	--	--	21.00	208
	12. Commercial Center (<10ac)	TSF	98.01	8,337	98.01	8,337
	40. Commercial Office	TSF	10.89	126	10.89	126
	SUB-TOTAL			11,958		12,166
424	2. Single Family (1-5du/ac)	DU	2.00	20	114.00	1,129
	4. Condominium/Townhouse	DU	84.00	672	194.00	1,552
	SUB-TOTAL			692		2,681
425	2. Single Family (1-5du/ac)	DU	39.00	386	241.00	2,386
	4. Condominium/Townhouse	DU	--	--	80.00	640
	51. Developed Park	AC	--	--	31.00	81
	SUB-TOTAL			386		3,107
426	2. Single Family (1-5du/ac)	DU	30.00	297	560.00	5,544
	3. Single Family (6-10du/ac)	DU	70.00	693	70.00	693
	32. Manufacturing/Warehouse	TSF	39.60	202	39.60	202
	SUB-TOTAL			1,192		6,439
427	2. Single Family (1-5du/ac)	DU	249.00	2,465	249.00	2,465
	SUB-TOTAL			2,465		2,465
428	2. Single Family (1-5du/ac)	DU	540.00	5,346	2,124.00	21,028
	11. Commercial Center(10-30a)	TSF	--	--	47.40	2,562
	12. Commercial Center (<10ac)	TSF	--	--	39.20	3,334
	SUB-TOTAL			5,346		26,924
429	2. Single Family (1-5du/ac)	DU	42.00	416	55.00	545
	SUB-TOTAL			416		545

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
430	2. Single Family (1-5du/ac)	DU	2.00	20	2.00	20
	SUB-TOTAL			20		20
431	2. Single Family (1-5du/ac)	DU	3.00	30	3.00	30
	SUB-TOTAL			30		30
433	2. Single Family (1-5du/ac)	DU	8.00	79	55.00	545
	SUB-TOTAL			79		545
434	2. Single Family (1-5du/ac)	DU	25.00	247	25.00	247
	SUB-TOTAL			247		247
437	2. Single Family (1-5du/ac)	DU	6.00	59	250.00	2,475
	4. Condominium/Townhouse	DU	--	--	13.00	104
	59. Cemex	SG	--	--	12.84	1,284
	SUB-TOTAL			59		3,863
438	4. Condominium/Townhouse	DU	--	--	13.00	104
	SUB-TOTAL			--		104
439	2. Single Family (1-5du/ac)	DU	164.00	1,624	170.00	1,683
	3. Single Family (6-10du/ac)	DU	660.00	6,534	660.00	6,534
	11. Commercial Center(10-30a)	TSF	--	--	41.65	2,252
	SUB-TOTAL			8,158		10,469
440	2. Single Family (1-5du/ac)	DU	--	--	568.00	5,623
	SUB-TOTAL			--		5,623
441	2. Single Family (1-5du/ac)	DU	150.00	1,485	284.00	2,812
	20. Elementary/Middle School	STU	360.00	522	360.00	522
	SUB-TOTAL			2,007		3,334
442	2. Single Family (1-5du/ac)	DU	72.00	713	336.00	3,326
	3. Single Family (6-10du/ac)	DU	216.00	2,138	216.00	2,138
	SUB-TOTAL			2,851		5,464
443	2. Single Family (1-5du/ac)	DU	499.00	4,940	763.00	7,554
	20. Elementary/Middle School	STU	985.00	1,428	985.00	1,428
	23. Hospital	TSF	30.00	504	30.00	504
	40. Commercial Office	TSF	108.90	1,259	108.90	1,259
	SUB-TOTAL			8,131		10,745
444	2. Single Family (1-5du/ac)	DU	775.00	7,672	775.00	7,672
	4. Condominium/Townhouse	DU	19.00	152	19.00	152
	11. Commercial Center(10-30a)	TSF	--	--	298.95	16,161
	25. Church	TSF	4.00	37	4.00	37
	SUB-TOTAL			7,861		24,022
445	2. Single Family (1-5du/ac)	DU	29.00	287	41.00	406
	SUB-TOTAL			287		406

Table E-1 (cont.)  
LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
446	2. Single Family (1-5du/ac)	DU	231.00	2,287	231.00	2,287
	SUB-TOTAL			2,287		2,287
447	50. Golf Course	AC	150.00	1,194	150.00	1,194
	SUB-TOTAL			1,194		1,194
448	2. Single Family (1-5du/ac)	DU	395.00	3,910	691.00	6,841
	SUB-TOTAL			3,910		6,841
449	2. Single Family (1-5du/ac)	DU	20.00	198	20.00	198
	SUB-TOTAL			198		198
450	2. Single Family (1-5du/ac)	DU	--	--	27.00	267
	SUB-TOTAL			--		267
451	2. Single Family (1-5du/ac)	DU	40.00	396	67.00	663
	30. Industrial Park	TSF	--	--	47.00	282
	SUB-TOTAL			396		945
452	2. Single Family (1-5du/ac)	DU	6.00	59	38.00	376
	SUB-TOTAL			59		376
453	2. Single Family (1-5du/ac)	DU	172.00	1,703	225.00	2,228
	10. Commercial Center (>30ac)	TSF	--	--	16.00	641
	20. Elementary/Middle School	STU	490.00	711	490.00	711
	SUB-TOTAL			2,414		3,580
454	2. Single Family (1-5du/ac)	DU	116.00	1,148	125.00	1,238
	11. Commercial Center(10-30a)	TSF	--	--	34.14	1,846
	13. Commercial Shops	TSF	6.14	228	6.14	228
	52. Undeveloped Park	AC	745.00	373	745.00	373
	57. Agua Dulce Airport	SG	34.06	3,406	51.09	5,109
	SUB-TOTAL			5,155		8,794
455	2. Single Family (1-5du/ac)	DU	80.00	792	80.00	792
	SUB-TOTAL			792		792

Table E-1 (cont.)  
 LAND USE AND TRIP GENERATION SUMMARY

Zone	Land Use Category	Units	----- 2004 -----		-Long-Range GP--	
			Amount	ADT	Amount	ADT
TOTAL	1. Single Family (<1du/ac)	DU	300.00	2,970	1,817.00	17,988
	2. Single Family (1-5du/ac)	DU	42,731.00	423,044	68,913.00	682,252
	3. Single Family (6-10du/ac)	DU	5,812.00	57,538	17,629.00	174,529
	4. Condominium/Townhouse	DU	23,519.00	188,152	39,509.00	316,072
	5. Apartment	DU	2,108.00	14,545	8,510.00	58,720
	6. Mobile Home	DU	2,464.00	17,002	2,565.00	17,699
	10. Commercial Center (>30ac)	TSF	2,675.04	107,163	8,003.69	320,629
	11. Commercial Center(10-30a)	TSF	4,203.47	227,240	8,518.44	460,507
	12. Commercial Center (<10ac)	TSF	1,307.47	111,212	2,615.78	222,499
	13. Commercial Shops	TSF	1,168.87	43,318	1,656.71	61,396
	14. Hotel	ROOM	985.00	8,107	1,406.00	11,572
	15. Sit-Down Restaurant	TSF	210.92	27,493	290.19	37,825
	16. Fast Food Restaurant	TSF	47.58	23,606	53.08	26,335
	17. Movie Theater	SEAT	3,300.00	5,808	3,300.00	5,808
	18. Health Club	TSF	125.00	5,000	125.00	5,000
	19. Car Dealership	TSF	330.50	12,395	441.50	16,558
	20. Elementary/Middle School	STU	32,506.00	47,140	48,591.00	70,465
	21. High School	STU	13,228.00	23,678	23,274.00	41,661
	22. College	STU	18,379.00	28,303	25,236.00	38,863
	23. Hospital	TSF	222.80	3,743	222.80	3,743
	24. Library	TSF	53.73	4,567	71.40	6,068
	25. Church	TSF	512.89	4,770	635.89	5,914
	26. Day Care	STU	460.00	2,079	540.00	2,441
	30. Industrial Park	TSF	15,517.43	93,103	40,298.54	241,791
	31. Business Park	TSF	1,017.92	10,383	9,113.92	92,962
	32. Manufacturing/Warehouse	TSF	1,970.77	10,052	4,043.66	20,625
	34. Utilities	TSF	1,121.24	2,668	1,150.24	2,737
	35. Regional Post Office	TSF	764.00	3,820	764.00	3,820
	40. Commercial Office	TSF	1,170.75	13,533	5,188.12	59,973
	42. Medical Office	TSF	133.73	4,573	212.29	7,260
	43. Post Office	TSF	50.00	5,410	50.00	5,410
	50. Golf Course	AC	753.00	5,994	1,233.00	9,815
	51. Developed Park	AC	250.90	652	583.80	1,518
	52. Undeveloped Park	AC	745.00	373	762.50	382
	53. Wayside Honor Ranch	SG	20.00	2,000	30.00	3,000
	54. Six Flags Magic Mtn	SG	160.00	16,000	240.00	24,000
	55. Travel Village	SG	26.20	2,620	26.20	2,620
	56. CHP Office	SG	55.74	5,574	55.74	5,574
	57. Agua Dulce Airport	SG	34.06	3,406	51.09	5,109
	58. Landfill	SG	10.00	1,000	20.00	2,000
	59. Cemex	SG	--	--	12.84	1,284
	TOTAL			1,570,034		3,094,424