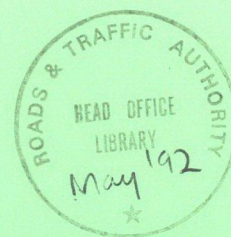


ROADS AND TRAFFIC AUTHORITY

SYDNEY REGION

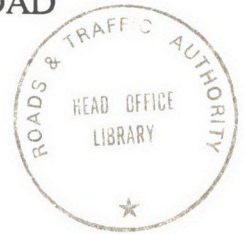


**USE OF
SYDENHAM ROAD
AND
STONE CREEK ROAD
BY
HEAVY VEHICLES**

10 MAY 1992

USE OF SYDENHAM ROAD AND STONEY CREEK ROAD BY HEAVY VEHICLES

by J D Brewer



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INTRODUCTION

Detailed information about the use of many roads by various classes of vehicles is not readily available. If the classes relate to hazardous chemicals or containers, the data may be even more difficult to identify.

Furthermore, the classes of vehicles commonly used for pavement design and similar purposes is frequently not in a form which is of interest the general community.

The Botany-West Transport Study found that the preferred routes by heavy vehicles emanating from Botany/Mascot are:

to the southwest
to the northwest

Stoney Creek Road
Sydenham Road

To provide data for these two routes which is relevant to the general community, a 6-hour manual classification count was conducted on each in early May 1992. This was prior to the opening of the F4 (Western Freeway) and F5 (South Western Freeway) toll works which will open later in 1992.

CLASSIFICATIONS

The classes of vehicles identified during the counts were:

- | | | |
|---|---------------------------|-------------------|
| * | Bicycles | |
| * | Motor bikes | |
| * | Light vehicles | |
| * | Semi-trailers | - with Haz Chem |
| * | | - with Containers |
| * | | - other |
| * | Rigid Commercial Vehicles | - with Haz Chem |
| * | | - with Containers |
| * | | - other |
| * | Buses | |

Light vehicles included all four-wheeled vehicles, including cars, station sedans, utilities. No three wheeled vehicles were noted.

Rigid Commercial Vehicles were taken to be non-articulated vehicles with more than two axles or with dual wheels on at least one axle. These vehicles are usually referred to as heavy vehicles in vernacular terms.

The conventional definition of a semi-trailer was used. The two routes in question are not permitted routes for B-doubles.

Vehicles carrying shipping containers were readily identified in the traffic stream.

Vehicles carrying hazardous chemicals were identified by the various signs required to be displayed on the vehicles by regulation.

THE LOCATIONS AND DATES

The counts were carried out on Stoney Creek Road and Sydenham Road on Monday 4 May 1992 and Friday 8 May 1992 respectively, between 5.45am and 12.00 noon.

Both directions of flow were counted.

THE SITES

The Stoney Creek Road count took place about 20 metres west of Forest Road at Bexley.

Stoney Creek Road has Clearway conditions between 6.00am and 10.00am at the site for eastbound traffic. For westbound traffic, and for eastbound traffic at other times, there were no parking restrictions of significance.

During the Clearway hours, Stoney Creek Road essentially operates as two lanes eastbound and one lane westbound at the point of the count, and at other times as a two-lane road.

The Sydenham Road count took place about 5 metres east of Meeks Road. There were no parking restrictions of significance in operation, and so the road essentially functions as a two-lane road at that point.

THE COUNTS

The data obtained in the counts is summarised in Tables 1 to 4.

The graphs at the end of this Report show the hourly flows.

ANALYSIS

The total numbers of vehicles on the roads during the period of the counts are summarised in Table 5.

The proportions of vehicles in the various classes are summarised in Table 6.

It is clear from those two tables that while Stoney Creek Road carries larger flows of traffic, and a higher overall proportion of commercial vehicles, Sydenham Road carries a slightly higher proportion of container vehicles.

CONCLUSION

The two main routes for commercial vehicles to the northwest and southwest from Botany-Mascot and Sydenham Road are Stoney Creek Road respectively.

They carry about 17.0 - 19.9% of commercial vehicles. About one-third of the commercial vehicles are semi-trailers, and about one-sixth of the commercial vehicles carry containers. Less than one vehicle in 100 carries Haz Chem materials.

TABLE 1

TRAFFIC COUNT - STONEY CREEK ROAD, 20 M WEST OF FOREST ROAD BEXLEY.

4 MAY 1992 EASTBOUND

15 MIN FROM	BI- CYCLE	MOTOR BIKES	LIGHT VEHS	SEMI-TRAILERS				RIGID HEAVY VEHS				BUS	TOTAL VEHS	1-HR FLOWS
				WITH HAZ CHEM	WITH CON- TAINER	OTHER SEMI	TOTAL	WITH HAZ CHEM	WITH CON- TAINER	OTHER RIGID	TOTAL			
5.45 AM	0	1	194	3	0	8	11	0	0	26	26	1	233	-
6.00	0	2	297	1	0	6	7	1	0	36	37	2	345	
6.15	0	5	331	0	1	10	11	1	0	30	31	2	380	
6.30	0	5	305	0	2	7	9	1	0	30	31	2	352	
6.45	0	2	277	3	4	8	15	0	0	26	26	1	321	
7.00	0	1	339	0	6	8	14	2	0	37	39	2	395	1398
7.15	0	3	257	1	1	8	10	1	0	23	24	1	295	
7.30	0	1	214	2	7	7	16	0	0	20	20	1	252	
7.45	0	2	208	1	5	4	10	2	1	12	15	1	236	
8.00	0	1	138	2	6	8	16	0	0	20	20	3	178	
8.15	0	2	190	1	2	8	11	0	3	19	22	1	226	1178
8.30	0	1	215	0	7	7	14	0	0	5	5	0	235	
8.45	0	0	207	0	6	8	14	1	0	29	30	3	254	
9.00	0	2	191	2	4	7	13	1	0	21	22	2	230	
9.15	0	0	131	2	8	8	18	0	0	18	18	0	167	
9.30 *	0	0	101	2	4	5	11	0	0	18	18	2	132	893
9.45	0	1	142	3	3	18	24	0	1	17	18	3	188	
10.00	1	0	175	0	3	14	17	0	1	27	28	1	221	
10.15	0	0	149	0	4	7	11	1	1	26	28	0	188	
10.30	0	1	154	1	4	13	18	0	0	17	17	2	192	
10.45	0	0	118	1	3	13	17	0	1	36	37	0	172	773
11.00	0	0	146	0	2	17	19	1	1	26	28	1	194	
11.15	0	0	116	1	6	12	19	0	1	18	19	3	157	
11.30	1	0	133	2	6	14	22	0	0	28	28	2	185	
11.45	0	2	128	1	5	11	17	0	0	17	17	1	165	
TOTALS	2	32	4856	29	99	236	364	12	10	582	604	37	5893	

* 10 minute period only

TABLE 2

TRAFFIC COUNT - STONEY CREEK ROAD, 20 M WEST OF FOREST ROAD BEXLEY.

4 MAY 1992 WESTBOUND

15 MIN FROM	BI- CYCLE	MOTOR BIKES	LIGHT VEHS	SEMI-TRAILERS				RIGID HEAVY VEHS				BUS	TOTAL VEHS	1-HR FLOWS
				WITH HAZ CHEM	WITH CON- TAINER	OTHER SEMI	TOTAL	WITH HAZ CHEM	WITH CON- TAINER	OTHER RIGID	TOTAL			
5.45 AM	0	1	51	2	1	4	7	0	0	6	6	1	66	-
6.00	0	1	60	1	3	1	5	0	0	9	9	0	75	
6.15	0	2	96	1	1	1	3	0	0	12	12	1	114	
6.30	0	0	119	1	1	2	4	0	0	10	10	1	134	
6.45	0	1	97	2	5	5	12	0	0	6	6	1	117	
7.00	0	1	133	2	5	7	14	2	0	20	22	1	171	440
7.15	0	2	180	0	3	6	9	0	0	7	7	2	200	
7.30	0	0	104	2	0	9	11	1	0	10	11	2	128	
7.45	0	1	116	0	6	4	10	0	1	15	16	1	144	
8.00	0	4	112	1	4	8	13	0	0	21	21	1	151	
8.15	0	0	89	3	6	7	16	0	1	12	13	2	120	546
8.30	0	1	113	1	7	7	15	1	1	17	19	1	149	
8.45	0	0	87	2	8	14	24	0	1	13	14	1	126	
9.00	0	1	130	5	9	7	21	0	0	24	24	1	177	
9.15	0	0	79	1	8	7	16	0	0	26	26	3	124	
9.30 *	0	1	50	1	5	4	10	2	0	12	14	1	76	521
9.45	0	0	101	2	2	15	19	1	0	21	22	2	144	
10.00	0	1	107	1	4	8	13	1	0	15	16	1	138	
10.15	1	0	81	3	10	10	23	0	0	26	26	2	132	
10.30	0	0	85	0	9	8	17	0	1	26	27	1	130	
10.45	0	2	97	1	6	15	22	1	0	21	22	0	143	543
11.00	0	1	113	0	8	10	18	0	0	21	21	2	155	
11.15	0	2	98	0	4	9	13	1	0	27	28	2	143	
11.30	0	2	110	2	4	12	18	0	0	22	22	1	153	
11.45	0	0	94	2	6	9	17	2	0	34	36	1	148	
TOTALS	1	24	2502	36	125	189	350	12	5	433	450	32	3358	

* 10 minute period only

TABLE 3

TRAFFIC COUNT - SYDENHAM ROAD, 5 M EAST OF MEEKS ROAD.

8 MAY 1992 EASTBOUND

15 MIN FROM	BI- CYCLE	MOTOR BIKES	LIGHT VEHS	SEMI-TRAILERS				RIGID HEAVY VEHS				BUS	TOTAL VEHS	1-HR FLOWS
				WITH HAZ CHEM	WITH CON- TAINER	OTHER SEMI	TOTAL	WITH HAZ CHEM	WITH CON- TAINER	OTHER RIGID	TOTAL			
5.45 AM	0	1	101	0	0	6	6	0	0	14	14	0	122	—
6.00	0	0	155	0	1	6	7	0	0	19	19	0	181	
6.15	0	1	159	0	0	6	6	0	0	12	12	0	178	
6.30	0	3	217	0	1	5	6	0	0	18	18	0	244	
6.45	3	1	211	0	1	7	8	0	0	21	21	0	241	
7.00	1	3	197	0	1	4	5	0	0	14	14	2	221	
7.15	2	0	223	0	1	3	4	0	0	19	19	0	246	844
7.30	0	1	190	0	1	1	2	0	0	20	20	1	214	
7.45	0	3	213	0	1	2	3	0	0	15	15	0	234	
8.00	1	0	213	0	1	2	3	0	0	14	14	1	231	
8.15	2	0	187	0	2	4	6	0	0	16	16	0	209	
8.30	0	0	170	0	3	3	6	1	1	28	30	0	206	
8.45	0	2	194	1	5	2	8	0	0	18	18	1	223	869
9.00	0	0	158	0	4	4	8	0	0	21	21	0	187	
9.15	0	1	83	0	3	9	12	1	0	22	23	1	120	
9.30	0	0	143	0	10	3	13	1	1	20	22	0	178	
9.45	0	0	157	0	6	4	10	1	1	22	24	0	191	
10.00	0	0	157	0	8	9	17	0	0	36	36	0	210	
10.15	0	0	148	0	4	3	7	0	1	21	22	0	177	738
10.30	0	0	116	0	3	4	7	0	0	19	19	1	143	
10.45	0	0	160	0	8	4	12	0	1	35	36	0	208	
11.00	0	0	164	3	3	8	14	0	2	30	32	0	210	
11.15	0	0	147	0	2	3	5	0	0	30	30	0	182	
11.30	0	1	160	0	6	5	11	1	3	32	36	1	209	
11.45	0	1	147	0	4	3	7	2	0	22	24	0	179	780
TOTALS	9	18	4170	4	79	110	193	7	10	538	555	8	4944	

TABLE 4

TRAFFIC COUNT - SYDENHAM ROAD, 5 M EAST OF MEEKS ROAD.

8 MAY 1992 WESTBOUND

15 MIN FROM	BI- CYCLE	MOTOR BIKES	LIGHT VEHS	SEMI-TRAILERS				RIGID HEAVY VEHs				BUS	TOTAL VEHS	1-HR FLOWS
				WITH HAZ CHEM	WITH CON- TAINER	OTHER SEMI	TOTAL	WITH HAZ CHEM	WITH CON- TAINER	OTHER RIGID	TOTAL			
5.45 AM	0	0	18	0	0	3	3	0	0	2	2	0	23	222
6.00	1	1	37	0	1	3	4	0	0	6	6	0	48	
6.15	0	0	43	1	3	0	4	0	0	7	7	1	55	
6.30	1	0	40	1	1	2	4	0	0	8	8	0	52	
6.45	0	1	57	0	1	4	5	0	1	3	4	0	67	
7.00	0	1	60	0	4	8	12	0	1	7	8	1	82	341
7.15	0	2	75	1	5	0	6	0	0	7	7	0	90	
7.30	1	0	64	0	2	3	5	0	0	6	6	1	76	
7.45	0	0	76	0	1	4	5	0	2	10	12	0	93	
8.00	0	1	79	0	7	2	9	0	2	13	15	0	104	
8.15	0	0	71	0	9	2	11	0	0	8	8	2	92	413
8.30	0	0	75	0	3	3	6	0	10	17	27	0	108	
8.45	0	0	89	0	4	3	7	1	1	11	13	0	109	
9.00	0	0	82	0	10	10	20	0	1	11	12	0	114	
9.15	0	0	85	1	8	5	14	1	1	24	26	0	125	
9.30	0	0	81	0	6	6	12	0	0	21	21	1	115	478
9.45	1	0	100	1	3	4	8	0	0	16	16	0	124	
10.00	0	0	98	0	1	7	8	0	1	15	16	0	122	
10.15	0	2	90	0	3	4	7	0	0	20	20	0	119	
10.30	0	0	101	0	6	3	9	0	0	23	23	1	134	
10.45	0	0	99	0	6	3	9	0	1	21	22	0	130	505
11.00	0	0	124	2	8	5	15	0	1	16	17	0	156	
11.15	0	0	80	0	8	1	9	0	1	22	23	0	112	
11.30	0	1	107	0	7	3	10	0	0	24	24	1	143	
11.45	0	1	116	0	1	6	7	0	0	21	21	0	145	
TOTALS	4	10	1947	7	108	94	209	2	23	339	364	8	2538	

TABLE 5

SUMMARY OF TOTAL VEHICLE FLOWS

5.45am - 12.00 noon

ROAD	BI-CYCLE	MOTOR BIKES	LIGHT VEHS	SEMI-TRAILERS				RIGID HEAVY VEHS				BUS	TOTAL VEHS
				WITH HAZ CHEM	WITH CON-TAINER	OTHER SEMI	TOTAL	WITH HAZ CHEM	WITH CON-TAINER	OTHER RIGID	TOTAL		
STONECK RD E/B	2	32	4856	29	99	236	364	12	10	582	604	37	5893
STONECK RD W/B	1	24	2502	36	125	189	350	12	5	433	450	32	3358
STONECK RD TOTAL	3	56	7358	65	224	425	714	24	15	1015	1054	69	9251
SYDENHAM RD E/B	9	18	4170	4	79	110	193	7	10	538	555	8	4944
SYDENHAM RD W/B	4	10	1947	7	108	94	209	2	23	339	364	8	2538
SYDENHAM RD TOTAL	13	28	6117	11	187	204	402	9	33	877	919	16	7482

TABLE 6

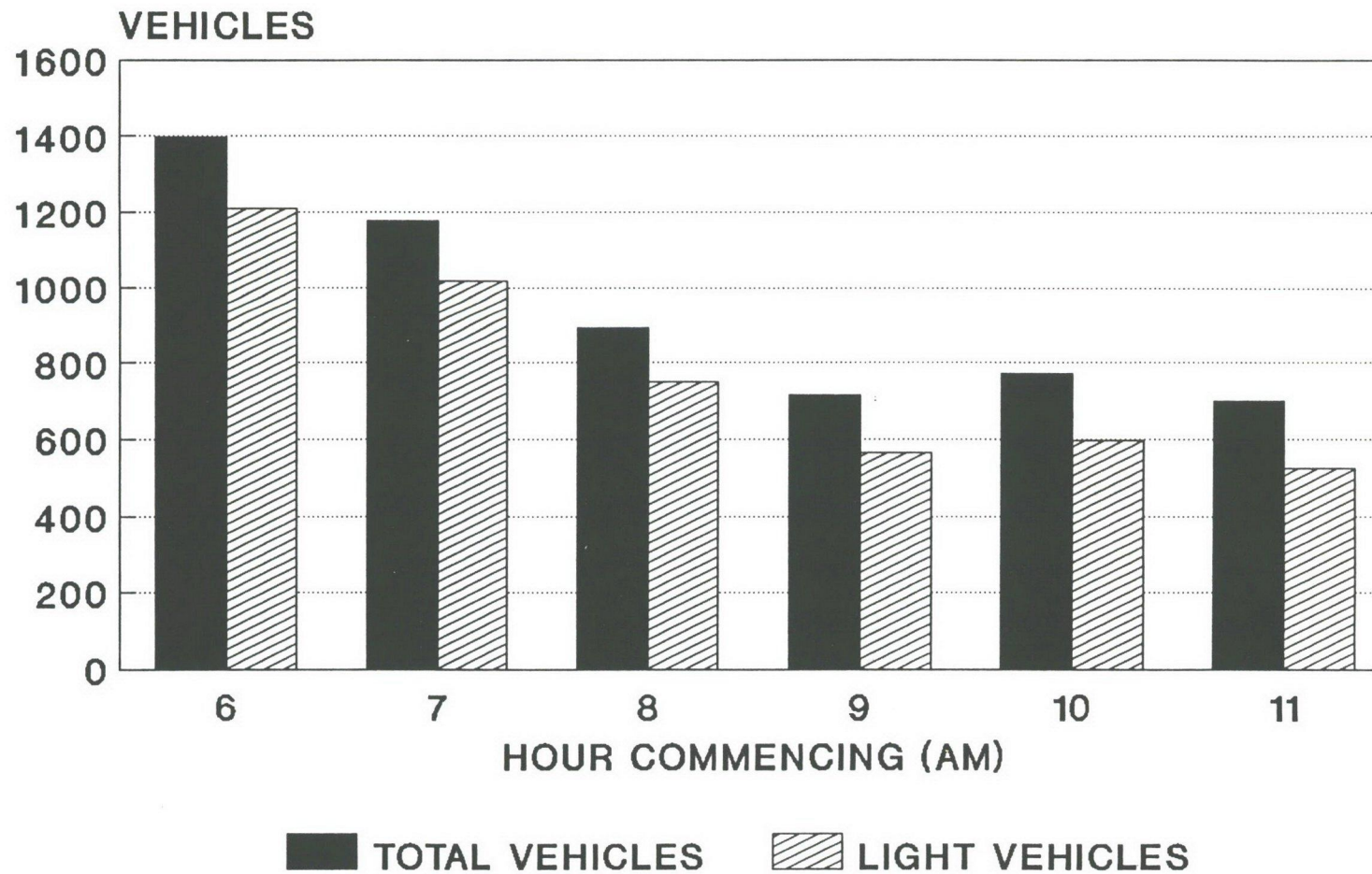
SUMMARY OF ANALYSIS

5.45am - 12.00 5.45am - 12.00 noon, 4 and 8 May 1992

	Overall Proportion of:				Proportion of Heavy Vehicles:		
	Commercial Vehicles	Vehicles Carrying Haz Chem	Vehicles Carrying Containers	Semi-Trailers	Carrying Haz Chem	Carrying Containers	Semi-Trailers
Stoney Creek Road Eastbound	17.1%	0.07%	1.9%	6.2%	4.1%	10.9%	36.2%
Stoney Creek Road Westbound	24.8%	1.4%	3.87%	10.4%	5.8%	15.6%	42.1%
Stoney Creek Road Total	19.9%	0.96%	2.6%	7.7%	4.8%	13.0%	38.9%
Sydenham Road Eastbound	15.0%	0.22%	1.8%	3.9%	1.5%	12.0%	26.1%
Sydenham Road Westbound	21.9%	0.35%	5.2%	8.2%	1.6%	23.6%	37.6%
Sydenham Road Total	17.3%	0.27%	2.9%	5.4%	1.5%	17.0%	31.0%

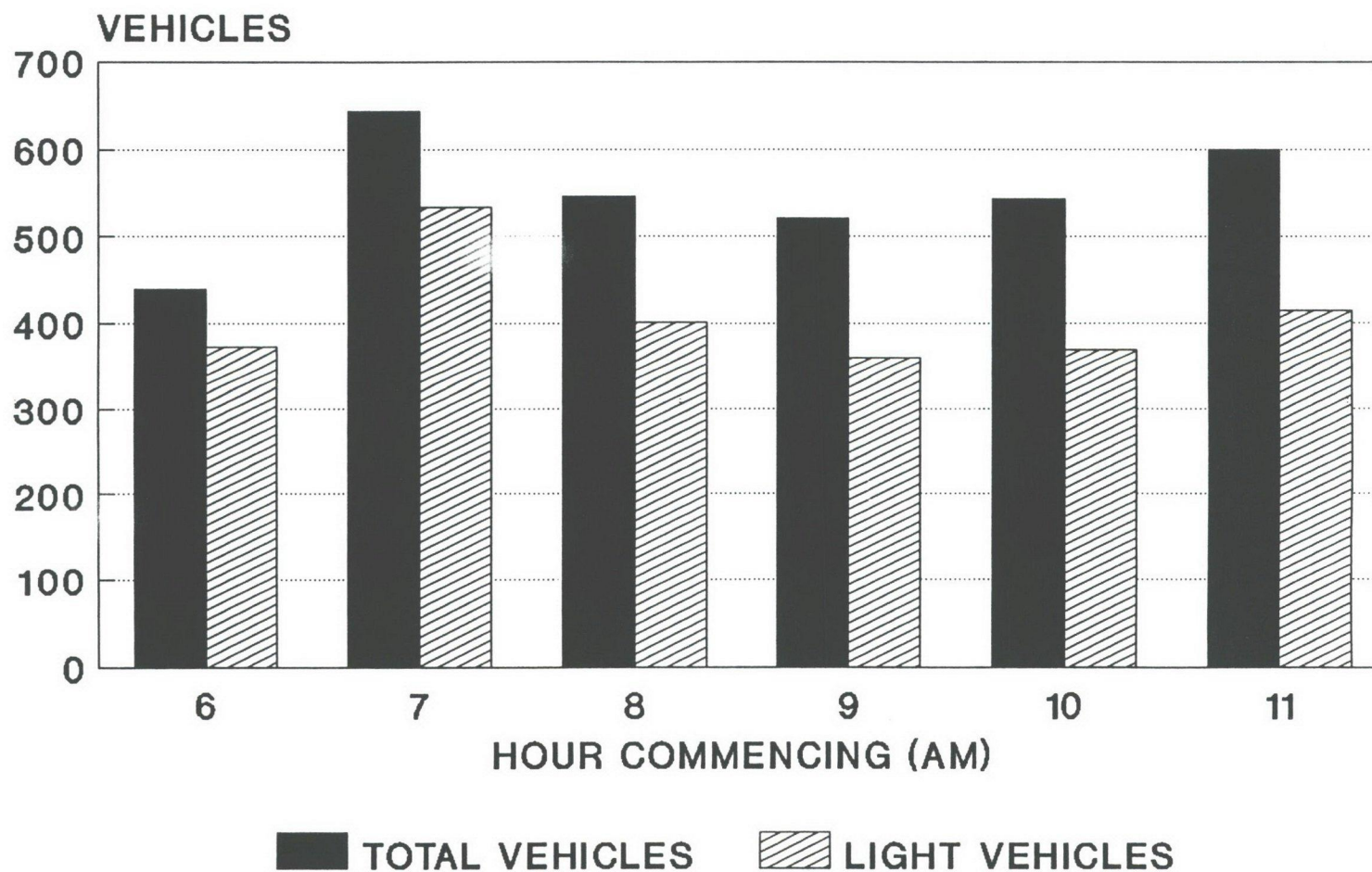
STONEY CREEK ROAD EASTBOUND

TOTAL VEHICLES AND LIGHT VEHICLES



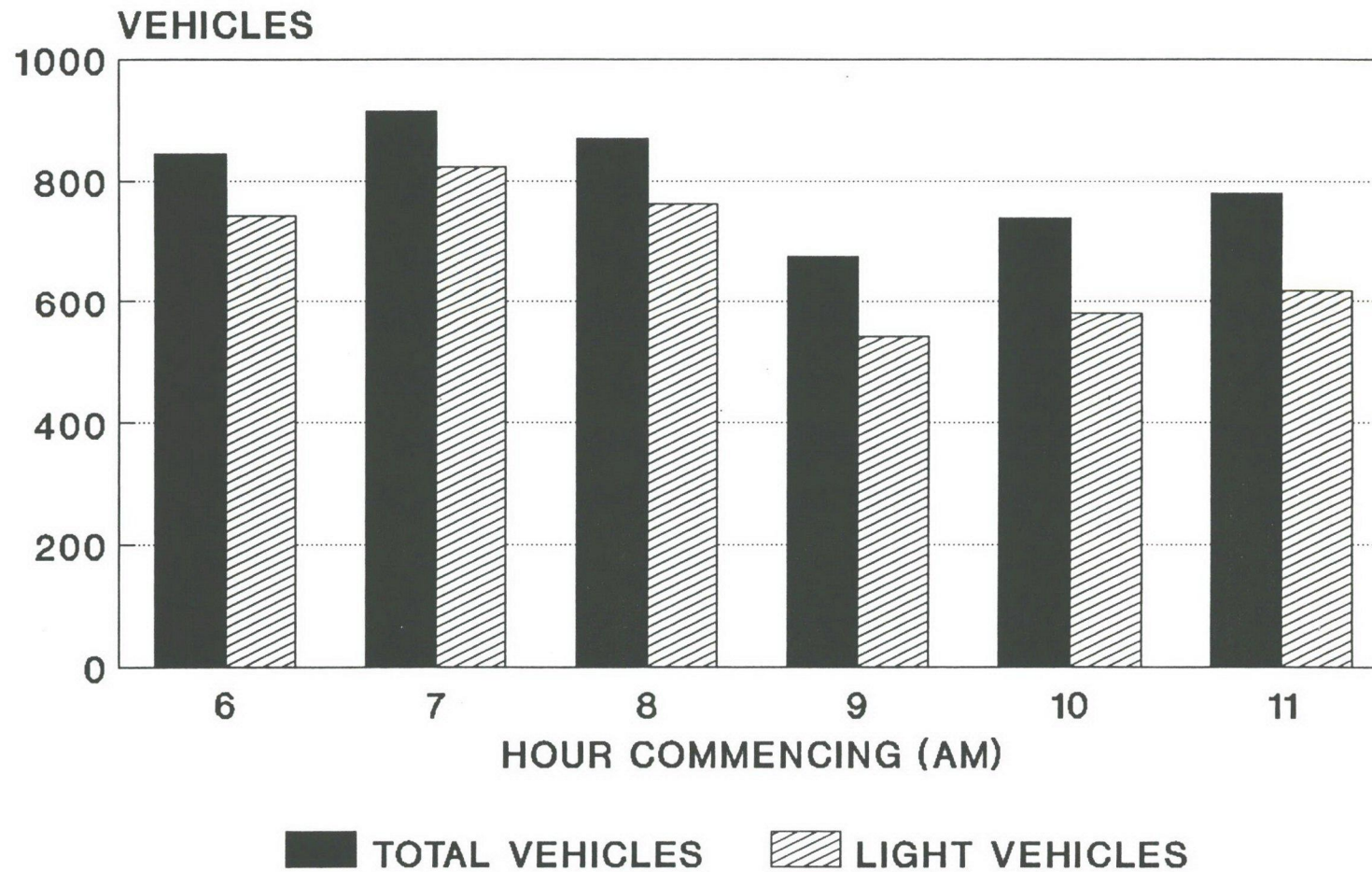
STONE CREEK ROAD WESTBOUND

TOTAL VEHICLES AND LIGHT VEHICLES



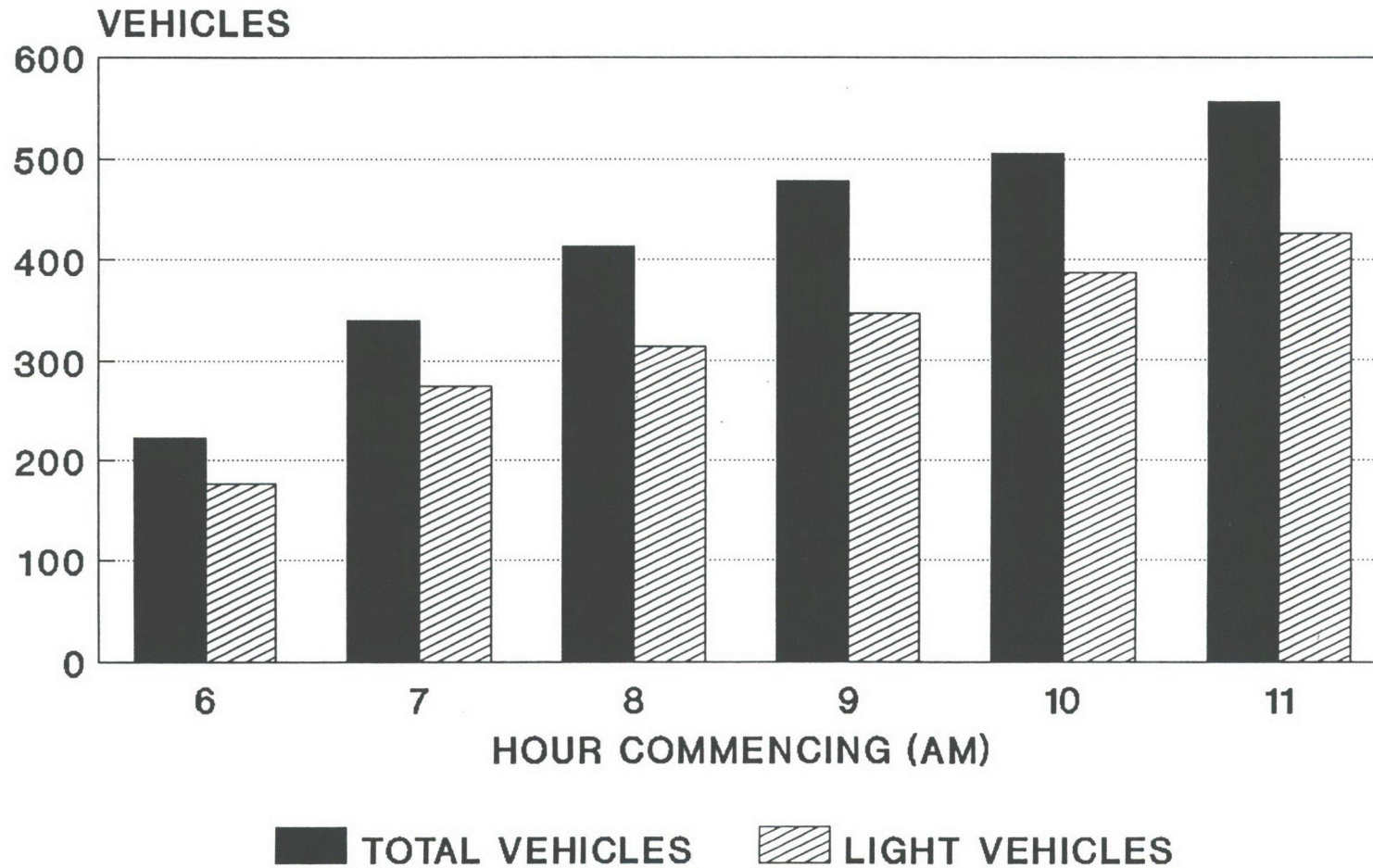
SYDENHAM ROAD EASTBOUND

TOTAL VEHICLES AND LIGHT VEHICLES



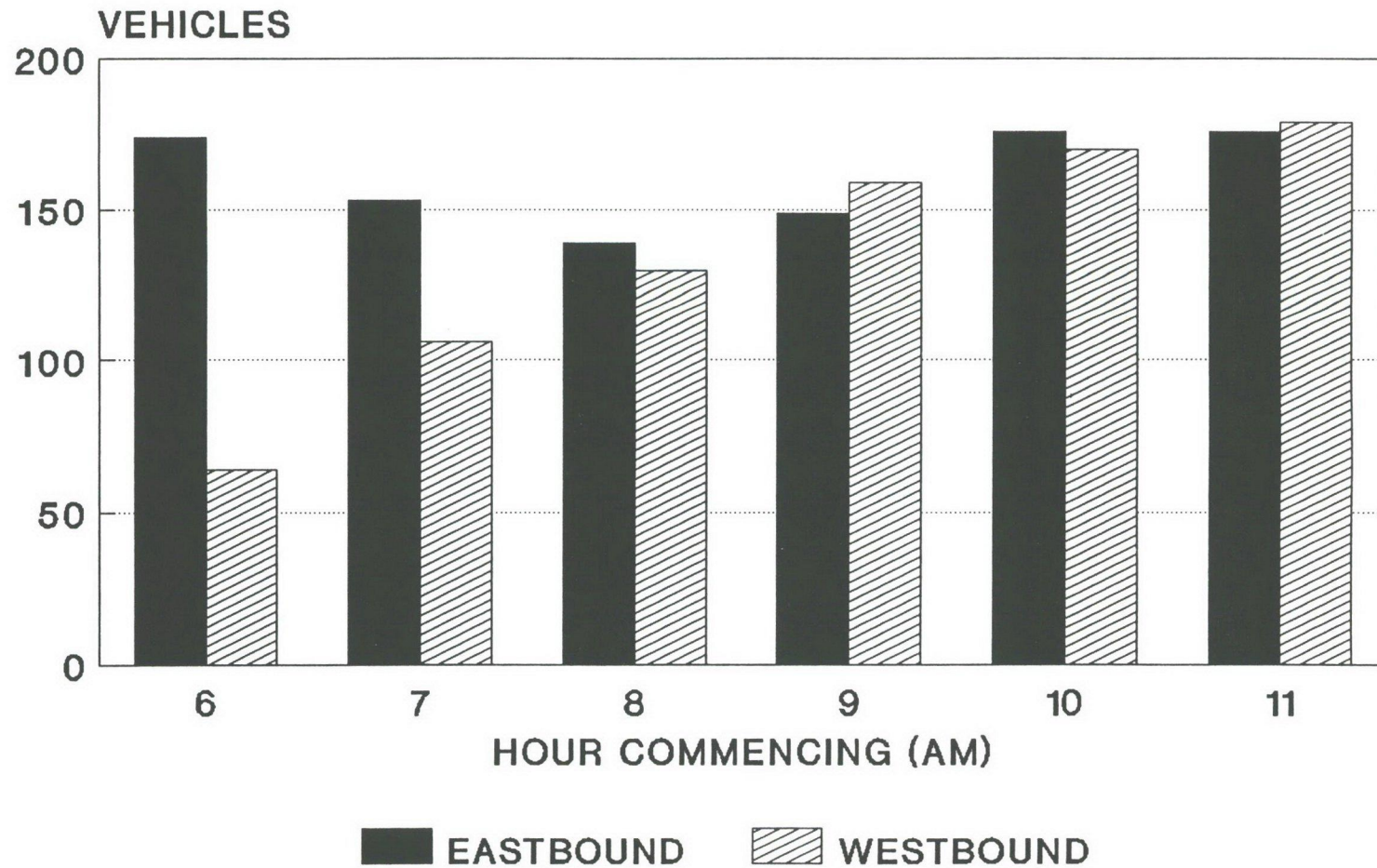
SYDENHAM ROAD WESTBOUND

TOTAL VEHICLES AND LIGHT VEHICLES



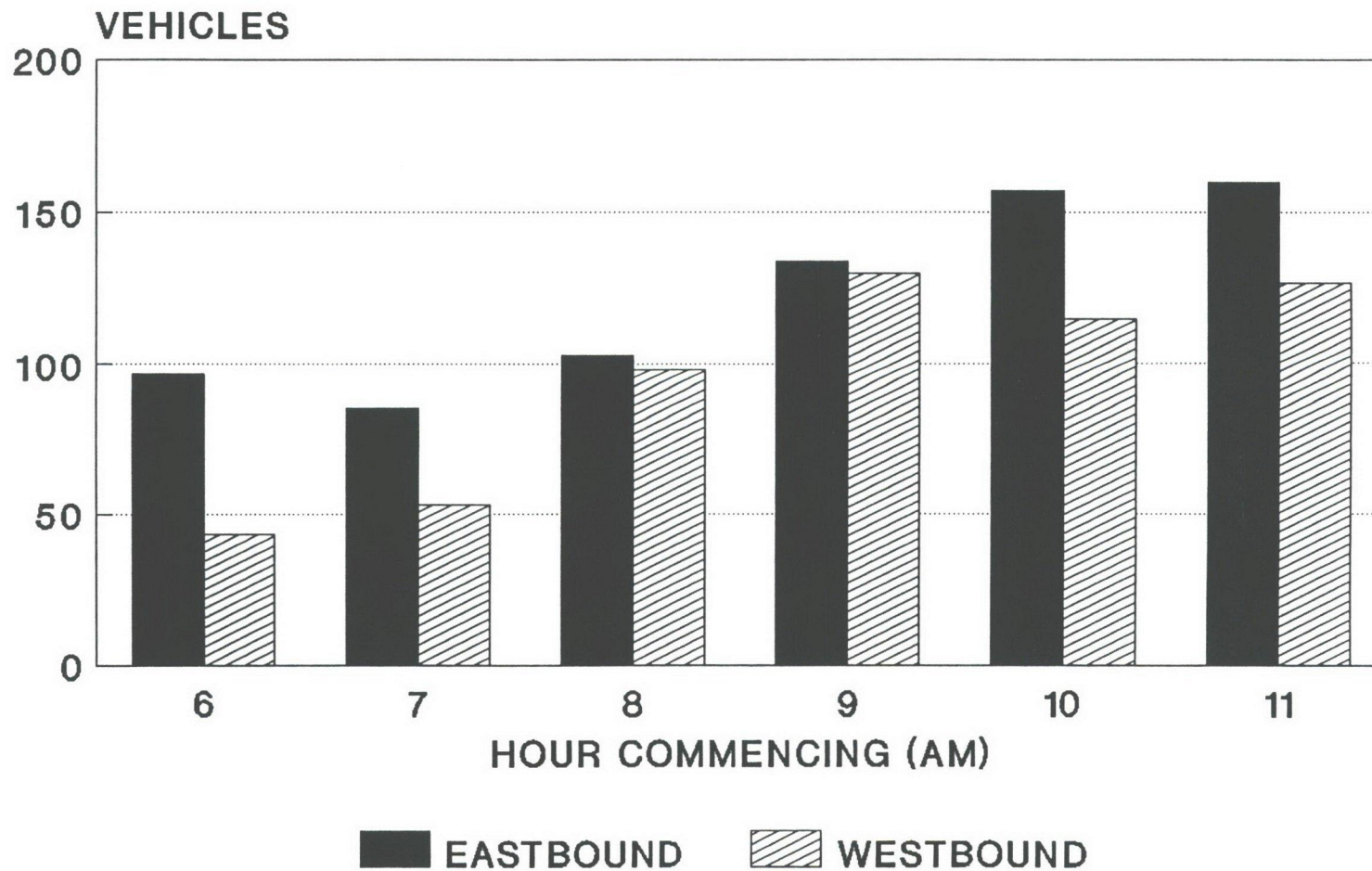
STONEY CREEK ROAD

COMMERCIAL VEHICLES E/B & W/B



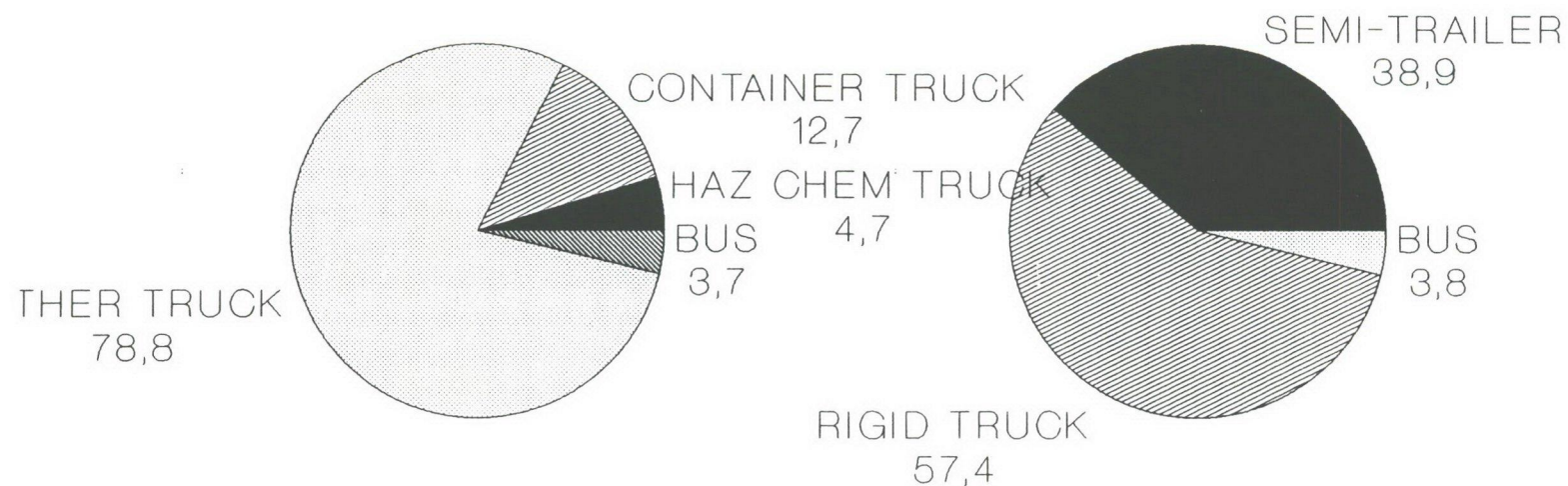
SYDENHAM ROAD

COMMERCIAL VEHICLES E/B & W/B



STONE CREEK ROAD

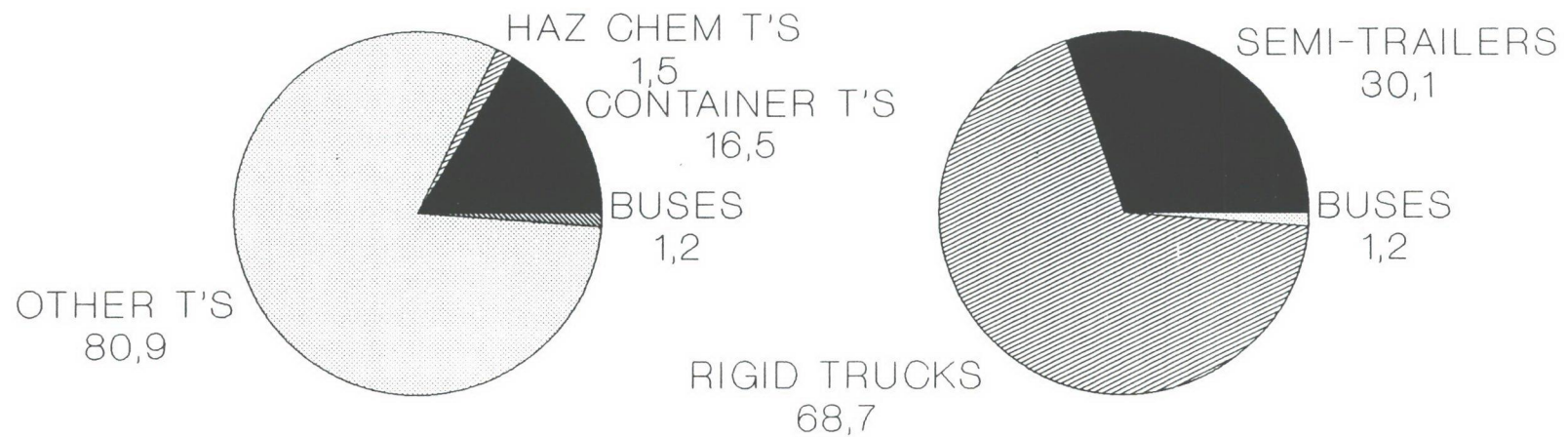
CLASSES OF COMMERCIAL VEHICLE



PERCENTAGES BY CLASS

SYDENHAM ROAD

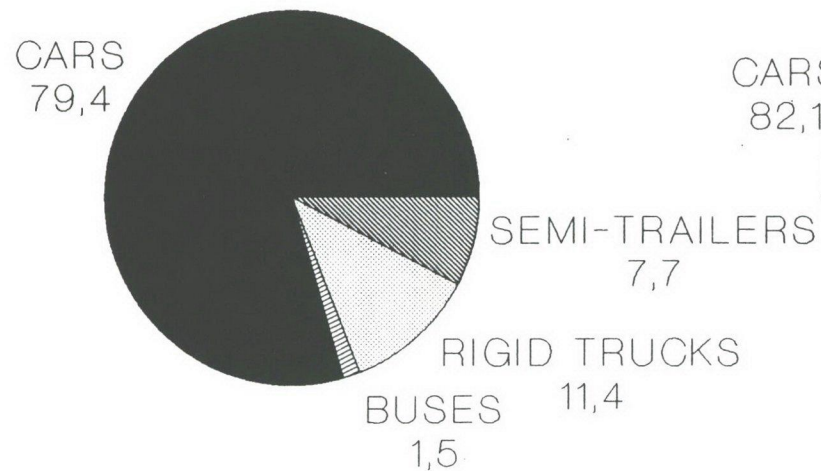
CLASSES OF COMMERCIAL VEHICLE



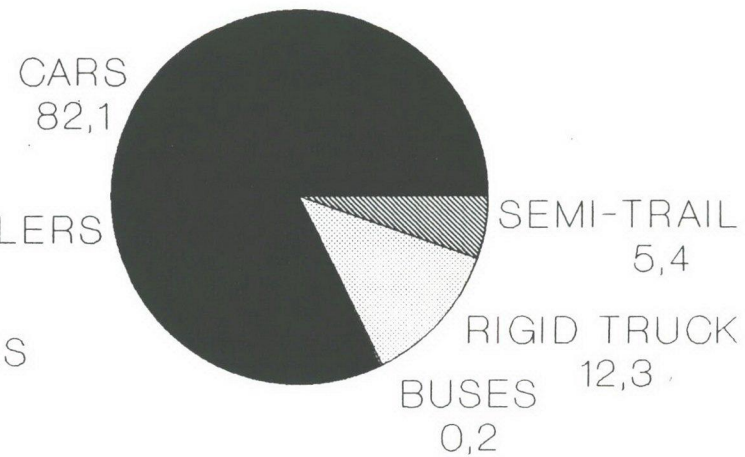
PERCENTAGES BY CLASS

CLASSES OF VEHICLES

STONEY CREEK ROAD & SYDENHAM ROAD



STONEY CREEK RD



SYDENHAM RD

PERCENTAGES BY CLASS