## A4.3 CORDON LINE SURVEY

## A4.3.1 Design of the Survey

## a. Survey Stations

Cordon line survey was carried out to check inbound and outbound traffic into and from the Study Area, and determine the traffic demand between the traffic zones within the Study Area (inner zone) and those of out of the Study Area (outer zone). Eight (8) stations were selected on the border of the Study Area along National Road No.1, 2, 3, 4, 5, 6A, \& 21 and Street No. 369 (at east bank of the Bassac River). The locations of the stations for the cordon line survey are shown in Figure A4.1.2 (a).

## b. Survey Item and Time Duration

The actual survey consisted of roadside OD interview and classified vehicle counting.
Roadside OD interview surveys were conducted for fourteen (14) hours from 06:00 in the morning to 20:00 in the evening at all stations. The vehicles of the entire traffic were stopped at random basis, and drivers and passengers were interviewed. The minimum target-sampling rate was set at $20 \%$.

Table A4.3.1 Outline of the Cordon Line Survey

| No. | Survey Item | Contents |
| :--- | :--- | :--- |
| (1) | Roadside OD Interview | - Time of Interview |
|  |  | - Type of Vehicle |
|  | - Number Plate (if possible) |  |
|  | - Origin \& Destination |  |
|  | - Trip Purpose |  |
|  | - Number of Passengers (including Driver \& Co-Driver) |  |
|  |  | - Loading Rate (by quarters: Empty, $1 / 4,1 / 2,3 / 4$, Full) |

Classified vehicle counting (11 transport modes, including walking) were conducted for twenty-four (24) hours from 06:00 in the morning to 06:00 in the morning of the following day at six (6) stations along the National Road No.1, 2, 3, 4, 5, and 6A (24-hr station). These stations were selected for observing 24 -hour's traffic volume to the daytime traffic volume (24/12-hrs ratio), and expanding the results of traffic demand estimation from the output of the roadside OD interviews. In addition, same counting was conducted for fifteen (15) hours from 06:00 in the morning to 21:00 in the evening at two (2) stations along the National Road No. 21 and Street No. 369 in the Kandal Province (15-hr station). These stations were considered that relatively low rate of nighttime traffic volume would be expected. Table A4.3.1 shows outline of the cordon line survey.

## A4.3.2 Survey Output

Table A4.3.2 \& A4.3.3 and Figure A4.3.1 shows the brief summary of the cordon line survey carried out on May 30 (Tuesday) and June 6 (Tuesday) of 2000 with a supplement survey on June 8 (Thursday) along National Road No. 5 due to insufficient interviews caused by mishap at first day of implementation (May 30).

The total number of vehicles crossing the cordon line at $24-\mathrm{hr}$ stations was counted to be 73,282 units (in-bound: 37,920 \& out-bound: 35,362 ) in total, of which 43,747 units ( $59.7 \%$ ) were motorbikes. In addition, at $15-\mathrm{hr}$ stations, 11,721 units were counted (in-bound: 5,725 \& out-bound: 5,996) in total, of which 7,949 units ( $67.8 \%$ ) were also motorbikes.

Table A4.3.2 Sampling Rate of the Cordon Line OD Survey (Daytime)

| Station | Location | Daytime Traffic (units) | Sample (people) | Sampling <br> Rate (\%) | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CL-01 | National Road No. 1 | 11,671 | 2,057 | 17.6 | June 6/ 24-hr |
| CL-02 | National Road No. 2 | 6,199 | 2,077 | 33.5 | June 6/24-hr |
| CL-03 | National Road No. 3 | 4,961 | 1,809 | 36.5 | June 6/24-hr |
| CL-04 | National Road No. 4 | 18,880 | 3,843 | 20.4 | May 30/24-hr |
| CL-05 | National Road No. 5 | (11,570) | (N/A) | (N/A) | (May 30/24-hr) |
|  |  | 11,690 | 1,988 | 17.0 | June 8/12-hr |
| CL-06 | National Road No. 6 | 8,677 | 1,511 | 17.4 | May 30/24-hr |
| CL-11 | Street No. 369 | 4,387 | 849 | 19.4 | May 30/15-hr |
| CL-21 | National Road No. 21 | 6,479 | 1,585 | 24.5 | June 6/15-hr |
|  | Grand Total | 71,864 | 15,719 | 21.8 |  |

Table A4.3.3 Vehicle Occupancy of the Cordon Line OD Survey (Daytime)

| No. | Mode | Sample | Passenger | Occupancy |
| :---: | :---: | :---: | :---: | :---: |
| 1. | Passenger Car (including Station Wagon \& 4WD) | 1,121 | 4,489 | 4.00 |
| 2. | Taxi (Sedan Type Taxi with Yellow Line) | 543 | 2,528 | 4.66 |
| 3. | Light Bus / Passenger Van (Mini Bus) | 1,125 | 14,371 | 12.77 |
| 4. | Pick-up / Cargo Van | 1,497 | 15,061 | 9.63 |
| 5. | Standard and Large Bus | 289 | 5,345 | 18.56 |
| 6. | Large Truck, Semi \& Full Trailer | 774 | 3,438 | 4.86 |
| 7. | Motorumo (Motorbike Trailer) | 1,551 | 12,577 | 8.11 |
| 8. | Motorbike (including "Motodop" -Motorbike Taxi) | 8,139 | 15,020 | 1.85 |
| 9. | Cyclo (Tricycle Taxi) | 13 | 19 | 1.46 |
| 10. | Bicycle | 488 | 589 | 1.21 |
| 11. | Others (Tractor, Bicycle \& Horse Trailer, etc.) | 179 | 393 | 2.28 |
|  | Total \& Average | 15,719 | 73,830 | 4.70 |

Note: Number of passenger is including driver/co-driver


Figure 4.3.1 Daytime Traffic Volumes at Cordon Line Survey Stations
Daytime 12-hours (06:00~18:00) traffic at the all stations of the cordon line survey was counted 71,864 units and interviewed people were counted 15,719 in total. Therefore, sampling ratio of OD interviews during daytime reached $21.9 \%$ in total.

The largest traffic volume was counted at the station along the National Road No. 4 (CL-04) with a
total count of 22,360 units, followed by 14,780 units and 13,600 units along the National Road No. 5 (CL-05) and No. 1 (CL-01) respectively.

The relatively high share of heavy vehicles (7.0\%) was observed at the station along the National Road No. 4 (CL-04). The figures observed at the other stations were showing relatively low ratios of $2.5 \%$ at National Road No. 6 (CL-06) to $4.5 \%$ at National Road No. 1 (CL-01) for 24-hr stations, and $1.3 \%$ in average at $15-\mathrm{hr}$ stations (see Figure A4.3.3).

Figure A4.3.2 showed the traffic flow characteristics of the cordon lines after the expansion of sampled OD to the traffic counts. In generally, more than $95 \%$ of the entire traffic flow crossing these cordon lines had either trip end (origin or destination; OD) in the inner zones, of which almost half had OD in the central area, and the other half had OD in the suburban area. By route, at National Road No. 6 (CL-06), almost three-quarters (3/4) of the entire traffic had this OD in the central area. At National Road No. 3 (CL-03) and No. 4 (CL-04), this central area based share was around three-fifths (3/5). On the other hand, at National Road No. 1 (including St.369), No. 2 (including N.R.No.21), and National Road No.5, around three-fifths (3/5) of the entire traffic flow had OD in the suburban area.


Figure A4.3.2 Traffic Flow Characteristics of Cordon Lines

Figure A4.3.3 showed OD share characteristics by mode. Around sixty-five (65) to seventy (70) percent of light vehicles had OD trip-end in the central area. For large bus, this share became around eighty (80) percent.


Figure A4.3.3 OD Share by Mode

For large truck and trailer truck, OD share of central base and suburban base became almost even with average share of forty-six (46) percent and share of outer to outer traffic reached around seven (7) percent.
For motorbike, OD share of central base and suburban base were almost even. More than eighty (80) percent of motorbike trailer (Motorumok) and bicycle had OD trip-end in the suburban area, and about two-thirds $(2 / 3)$ of the other mode's OD trip-end was also in the nearest suburban area.

Table A4.3.4 (a) Sectional Summary of 24/12-Hr. Ratio \& Peak Hr. Ratio at 24-hrs Stations

| 24-hrs <br> Stations | Daytime Traffic | $24 / 12 \mathrm{hr} .$ <br> Ratio | 24 hr . <br> Traffic | Peak Hour Ratio | Peak hr. Traffic | Peak Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL-01 | 8,194 | 1.17 | 9,601 | 0.14 | 1,127 | 06:30~07:30 |
| CL-02 | 4,474 | 1.16 | 5,180 | 0.12 | 526 | 07:30~08:30 |
| CL-03 | 3,705 | 1.18 | 4,373 | 0.12 | 450 | 06:00~07:00 |
| CL-04 | 15,891 | 1.22 | 19,412 | 0.12 | 1,842 | 06:15~07:15 |
| CL-05 | 7,708 | 1.24 | 9,527 | 0.14 | 1,046 | 06:15~07:15 |
| CL-06 | 5,530 | 1.15 | 6,339 | 0.11 | 615 | 06:30~07:30 |
| Average | 7,584 | 1.20 | 9,076 | 0.12 | 934 | -- |

Table A4.3.4 (b) Sectional Summary of 15/12-Hr. Ratio \& Peak Hr. Ratio at 15-hrs Stations

| 15-hrs <br> Stations | Daytime Traffic | 15/12 hr. Ratio | 15 hr . Traffic | Peak Hour Ratio | Peak hr. Traffic | Peak Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL-11 | 2,250 | 1.08 | 2,427 | 0.22 | 492 | 08:15~09:15 |
| CL-21 | 3,700 | 1.09 | 4,024 | 0.17 | 624 | 06:30~07:30 |
| Average | 2,975 | 1.08 | 3,233 | 0.19 | 558 | --- |

Traffic Unit: Passenger Car Units (PCU's)
Table A4.3.4 (a) and (b) shows average ratio of 24-hrs or 15-hrs total traffic to daytime traffic (24/12-hrs or 15/12-hrs ratio) and peak hours ratio to daytime traffic of each station in passenger car unit (pcu) by section. 24/12-hrs ratios were ranged from 1.15 at National Road No. 6 (CL-06) to 1.24 at National Road No. 5 (CL-05) with an average ratio of 1.20. 15/12-hrs ratios were 1.08 at Street 369 (CL-11) and 1.09 at National Road No. 21 (CL-21).

At 24-hrs stations, peak hour's ratios were ranged from 0.11 at National Road No. 4 (CL-04) to 0.14 at National Road No. 5 (CL-05) with an average ratio of 0.12 . Peak hours were observed in the morning between 06:00 and 07:30 at all stations except National Road No.2. At National Road No.2, peak hour was 60 to 90 minutes later than other stations. At 15-hrs stations, peak hour's ratios were 0.22 at Street 369 (CL-11) with peak time between 08:15 and 09:15, and 0.17 at National Road No. 21 (CL-21) with peak time between 06:30 and 07:30.

Figure A4.3.4 shows hourly fluctuation of vehicles by direction and type. At 24-hr stations, in-bound traffic, especially motorcycles, showed very steep peak around 06:00~07:00 in the morning and continued flat flow until 17:00 with a small off-peak around 11:00~12:00 and a small peak around 17:00~18:00, then declined gradually after 18:00. The other type of vehicles showed almost flat flow from 06:00 to 18:00. On the other out-bound traffic, motorcycles showed peak flow around

07:00~09:00 in the morning and around 17:00~18:00 in the evening. Within the other vehicles, peak flow was observed in light vehicles only around 08:00~09:00.

In addition, at 15 -hr stations, only motorcycles showed remarkable fluctuations with steep peak around 06:00~07:00 on in-bound side and around 08:00~09:00 on out-bound side. Off-peak occurred around 10:00~11:00, then small peak occurred around 13:00~15:00 on both directions.


Figure A4.3.3 Vehicle Type Share \& Directional Volume of Cordon Line Survey Stations

Total Traffic Volume (Cordon Line 24-hr Stations) In-bound


Total Traffic Volume (Cordon Line 24-hrStatlons) Out-bound


Total Traffic Volume (Cordon Line 24-hr Stations) B oth


Figure A4.3.4 (a) Hourly Fluctuation of Cordon Line Survey Stations (24-hrs)

Total Traffic Volume (Cordon Line 15-hr Stations) In-bound



Total Traffic Volume (Cordon Line $15-h r$ Stations) Both


Figure A4.3.4 (b) Hourly Fluctuation of Cordon Line Survey Stations (15-hrs)



Sectional Traffic Volume (CL-03)


Figure A4.3.5 (a) Directional \& Hourly Fluctuation of Cordon Line Survey Stations (1)


Sectional Traffic Volume (CL-05)


Sectional Traffic Volume (CL-06)


Figure A4.3.5 (b) Directional \& Hourly Fluctuation of Cordon Line Survey Stations (2)


Figure A4.3.5 (c) Directional \& Hourly Fluctuation of Cordon Line Survey Stations (3)

| Station |  | Item | unit | Vehicle Type |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Location |  |  | 1. <br> Passenger Cars | $\begin{gathered} 2 . \\ \text { Taxi } \end{gathered}$ | 3. Light Bus/ Pass.Van | 4. <br> Pick-up/ <br> Cargovan | 5. Large Bus |  | 7. <br> Motoruno | . 8. <br> Motodop/ Motorbike | $9 .$ | 10. Bicycle | Total |
| Cl-01 | National <br> Road <br> No. 1 | 12 hivs Tralific <br> Share by Vehicie Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | vehicie <br> (\%) <br> sample <br> (\%) | $\begin{gathered} 586 \\ (9.6) \\ 1.22 \\ 99 \\ (16.9) \end{gathered}$ | $\begin{gathered} 88 \\ (4.2) \\ 1.07 \\ 53 \\ (60.2) \\ \hline \end{gathered}$ | $\begin{gathered} 273 \\ (1.7) \\ 1.13 \\ 153 \\ (56.0) \end{gathered}$ | $\begin{gathered} 683 \\ (11.2) \\ 1.08 \\ 36 \\ (5.3) \end{gathered}$ | $\begin{gathered} 19 \\ (0.3) \\ 1.05 \\ 12 \\ (63.2) \\ \hline \end{gathered}$ | $\begin{gathered} 131 \\ (2.1) \\ 1.33 \\ 45 \\ (34.4) \end{gathered}$ | $\begin{gathered} 619 \\ (10.1) \\ 1.41 \\ 110 \\ (17.8) \end{gathered}$ | $\begin{gathered} 3.514 \\ (57.4) \\ 1.14 \\ 684 \\ (19.5) \end{gathered}$ | $\begin{gathered} 4 \\ (0.1) \\ 1.00 \\ 4 \\ (100.0) \\ \hline \end{gathered}$ | $\begin{gathered} 202 \\ (3.3) \\ 1.05 \\ 0 \\ (0.0) \\ \hline \end{gathered}$ | $\begin{gathered} 6.119 \\ (100.0) \\ 1.17 \\ 1,196 \\ (19.5) \\ \hline \end{gathered}$ |
|  |  | 12 hrs Trulfic <br> Share by Vehick Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | vehicie <br> (\%) <br> sample <br> (\%) | 545 $(10.0)$ 1.19 156 $(28.6)$ | $\begin{gathered} 55 \\ (3.6) \\ 1.09 \\ 9 \\ (16.4) \\ \hline \end{gathered}$ | $\begin{gathered} 200 \\ (1.1) \\ 1.30 \\ 69 \\ (34.5) \end{gathered}$ | $\begin{gathered} 387 \\ (3.4) \\ 1.25 \\ 55 \\ (14.2) \\ \hline \end{gathered}$ | $\begin{gathered} 17 \\ (0.3) \\ 1.06 \\ 3 \\ (17.6) \\ \hline \end{gathered}$ | $\begin{gathered} 154 \\ (6.5) \\ 1.10 \\ 30 \\ (19.5) \end{gathered}$ | 628 $(11.6)$ 1.26 141 $(22.5)$ | $\begin{gathered} 3.287 \\ (60.6) \\ 1.15 \\ 386 \\ (11.7) \end{gathered}$ | 2 $(0.0)$ 1.00 4 $(200.0)$ | $\begin{gathered} 150 \\ (2.8) \\ 1.07 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 5.425 \\ (100.0) \\ 1.17 \\ 853 \\ (15.7) \\ \hline \end{gathered}$ |
|  |  | 12 hrs Traffic <br> Share by Vehicle Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | vehicle <br> (\%) <br> sample <br> (\%) | 1.131 $(9.8)$ 1.21 255 $(22.5)$ | $\begin{gathered} 143 \\ (3.9) \\ 1.08 \\ 62 \\ (43.4) \end{gathered}$ | $\begin{gathered} 473 \\ (1.4) \\ 1.19 \\ 222 \\ (46.9) \end{gathered}$ | $\begin{gathered} 1.070 \\ (7.5) \\ 1.12 \\ 91 \\ (8.5) \end{gathered}$ | $\begin{gathered} 36 \\ (0.3) \\ 1.06 \\ 15 \\ (41.7) \end{gathered}$ | $\begin{gathered} 285 \\ (4.2) \\ 1.16 \\ 75 \\ (26.3) \end{gathered}$ | $\begin{gathered} 1.247 \\ (10.8) \\ 1.33 \\ 251 \\ (20.1) \end{gathered}$ | $\begin{aligned} & 6.801 \\ & (58.9) \\ & 1.15 \\ & 1,070 \\ & (15.7) \end{aligned}$ | 6 $(0.1)$ 1.00 8 $(133.3)$ | $\begin{gathered} 352 \\ (3.0) \\ 1.06 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 11.544 \\ (100.0) \\ 1.17 \\ 2.049 \\ (17.7) \end{gathered}$ |
| CL-02 | National <br> Road <br> No. 2 | 12 hos Trafic <br> Share by Vehicie Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Basc | vehicle <br> (\%) <br> sample <br> (\%) | $\begin{gathered} 143 \\ (4.7) \\ 1.30 \\ 61 \\ (42.7) \\ \hline \end{gathered}$ | $\begin{gathered} 73 \\ (2.4) \\ 1.19 \\ 34 \\ (46.6) \\ \hline \end{gathered}$ | $\begin{gathered} 47 \\ (1.5) \\ 1.21 \\ 114 \\ (242.6) \\ \hline \end{gathered}$ | $\begin{gathered} 426 \\ (13.9) \\ 1.17 \\ 113 \\ (26.5) \\ \hline \end{gathered}$ | $\begin{gathered} 11 \\ (0.4) \\ 1.09 \\ 23 \\ (209.1) \\ \hline \end{gathered}$ | $\begin{gathered} 62 \\ (2.0) \\ 1.21 \\ 52 \\ (83.9) \\ \hline \end{gathered}$ | $\begin{gathered} 187 \\ (6.1) \\ 1.27 \\ 155 \\ (82.9) \\ \hline \end{gathered}$ | $\begin{gathered} 1.970 \\ (64.1) \\ 1.15 \\ 618 \\ (31.4) \end{gathered}$ | $\begin{gathered} 4 \\ (0.1) \\ 1.25 \\ 1 \\ (25.0) \\ \hline \end{gathered}$ | $\begin{gathered} 152 \\ (4.9) \\ 1.16 \\ 0 \\ (0.0) \\ \hline \end{gathered}$ | $\begin{gathered} 3.075 \\ (100.0) \\ 1.17 \\ 1,171 \\ (38.1) \\ \hline \end{gathered}$ |
|  |  | 12 hrs Traffic Share by Vehick Type $24 / 12$ Ratio Number of Sampling Sampling Ratio 12 hrs Base | ychick <br> (\%) <br> sample <br> (\%) | 348 $(10.0)$ 1.10 86 $(24.7)$ | 93 $(3.6)$ 1.06 25 $(26.9)$ | 45 <br> $(1.1)$ <br> 1.04 <br> 76 <br> $(168.9)$ | 383 $(3.4)$ 1.13 51 $(13.3)$ | 13 <br> $(0.3)$ <br> 1.08 <br> 26 <br> $(200.0)$ | 82 <br> $(6.5)$ <br> 1.18 <br> 35 <br> $(42.7)$ | 264 <br> $(11.6)$ <br> 1.14 <br> 210 <br> $(79.5)$ | $\begin{gathered} 1.740 \\ (60.6) \\ 1.15 \\ 397 \\ (22.8) \\ \hline \end{gathered}$ | $Q$ $(0.0)$ \#DIV/O! 0 \#DIV/O! | $\begin{gathered} 121 \\ (2.8) \\ 1.04 \\ 0 \\ (0.0) \\ \hline \end{gathered}$ | $\begin{gathered} 3.089 \\ (100.0) \\ 1.14 \\ 906 \\ (29.3) \\ \hline \end{gathered}$ |
|  |  | 12 has Traffic <br> Share by Vehicie Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | vehicis <br> (\%) <br> sample (\%) | 491 $(9.8)$ 1.16 147 $(29.9)$ | $\begin{gathered} 166 \\ (3.9) \\ 1.12 \\ 59 \\ (35.5) \end{gathered}$ | $\begin{gathered} 92 \\ (1.4) \\ 1.13 \\ 190 \\ (206.5) \end{gathered}$ | $\begin{gathered} 802 \\ (7.5) \\ 1.16 \\ 164 \\ (20.3) \end{gathered}$ | $\begin{gathered} 24 \\ (0.3) \\ 1.08 \\ 49 \\ (204.2) \end{gathered}$ | 144 $(4.2)$ 1.19 87 $(60.4)$ | 451 $(10.8)$ 1.20 365 $(80.9)$ | 3.710 $(58.9)$ 1.15 1.015 $(27.4)$ | 4 $(0.1)$ 1.25 1 $(25.0)$ | $\begin{gathered} \hline 273 \\ (3.0) \\ 1.11 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 6.164 \\ (100.0) \\ 1.15 \\ 2,077 \\ (33.7) \end{gathered}$ |
| CL-03 | National <br> Road <br> No. 3 | 12 hestraffic <br> Share by Vehicle Type 24/12 Ratio Number of Sampling Sampling Ratio 12 hrs Base | vehicle <br> (\%) <br> sample <br> (\%) | $\begin{gathered} 141 \\ (5.9) \\ 1.18 \\ 86 \\ (61.0) \\ \hline \end{gathered}$ | $\begin{gathered} 54 \\ (2.3) \\ 1.22 \\ 5 \\ (9.3) \\ \hline \end{gathered}$ | $\begin{gathered} 88 \\ (3.7) \\ 1.27 \\ 27 \\ (30.7) \\ \hline \end{gathered}$ | $\begin{gathered} 466 \\ (19.4) \\ 1.22 \\ 216 \\ (46.4) \\ \hline \end{gathered}$ | $\begin{gathered} 2 \\ (0.1) \\ 1.00 \\ 0 \\ (0.0) \\ \hline \end{gathered}$ | $\begin{gathered} 60 \\ (2.5) \\ 1.15 \\ 40 \\ (66.7) \\ \hline \end{gathered}$ | $\begin{gathered} 44 \\ (1.8) \\ 1.41 \\ 23 \\ (52.3) \\ \hline \end{gathered}$ | $\begin{gathered} 1.478 \\ (61.7) \\ 1.12 \\ 643 \\ (43.5) \end{gathered}$ | $\begin{gathered} 0 \\ (0.0) \\ \# D I V / 0! \\ 0 \\ \text { \#DIV/0! } \\ \hline \end{gathered}$ | $\begin{gathered} 64 \\ (2.7) \\ 1.28 \\ 0 \\ (0.0) \\ \hline \end{gathered}$ | $\begin{gathered} 2.397 \\ (100.0) \\ 1.16 \\ 1.040 \\ (43.4) \\ \hline \end{gathered}$ |
|  |  | 12.hrs Traffic <br> Share by Vehick Type | vecticle <br> (\%) | $\begin{gathered} 156 \\ (10.0) \end{gathered}$ | $\begin{gathered} 63 \\ (3.6) \end{gathered}$ | $\begin{gathered} 72 \\ (1.1) \end{gathered}$ | $\begin{gathered} 526 \\ (3.4) \end{gathered}$ | $\begin{gathered} 2 \\ (0.3) \end{gathered}$ | $\begin{gathered} 121 \\ (6.5) \end{gathered}$ | $\begin{gathered} 51 \\ (11.6) \end{gathered}$ | $\begin{aligned} & 1,512 \\ & (60.6) \end{aligned}$ | $\begin{gathered} \ell \\ (0.0) \end{gathered}$ | $\begin{gathered} 32 \\ (2.8) \end{gathered}$ | $\begin{gathered} 2,542 \\ (100.0) \end{gathered}$ |
|  |  | 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | sample <br> (\%) | $\begin{gathered} 1.16 \\ 21 \\ (13.5) \\ \hline \end{gathered}$ | $\begin{gathered} 1.00 \\ 6 \\ (9.5) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.15 \\ 54 \\ (75.0) \end{array}$ | $\begin{gathered} 1.32 \\ 288 \\ (54.8) \\ \hline \end{gathered}$ | $\begin{gathered} 1.00 \\ 4 \\ (200.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.25 \\ 43 \\ (35.5) \\ \hline \end{gathered}$ | $\begin{gathered} 1.06 \\ 32 \\ (62.7) \end{gathered}$ | $\begin{gathered} 1.13 \\ 321 \\ (21.2) \end{gathered}$ | $\begin{gathered} \text { \#DIVIOI } \\ 0 \\ \text { \#DIV/O! } \end{gathered}$ | $\begin{gathered} 1.08 \\ 0 \\ (0.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.17 \\ 769 \\ (30.3) \\ \hline \end{gathered}$ |
|  |  | 12 hes Traffic <br> Share by Vehicle Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | rehick <br> (\%) <br> sample <br> (\%) | 297 $(6.0)$ 1.17 107 $(36.0)$ | $\begin{gathered} 117 \\ (2.4) \\ 1.10 \\ 11 \\ (9.4) \end{gathered}$ | $\begin{gathered} 160 \\ (3.2) \\ 1.22 \\ 81 \\ (50.6) \end{gathered}$ | 992 $(20.1)$ 1.27 504 $(50.8)$ | $\begin{gathered} 4 \\ (0.1) \\ 1.00 \\ 4 \\ (100.0) \end{gathered}$ | $\begin{gathered} 181 \\ (3.7) \\ 1.22 \\ 83 \\ (45.9) \end{gathered}$ | $\begin{gathered} 95 \\ (1.9) \\ 1.22 \\ 55 \\ (57.9) \end{gathered}$ | $\begin{gathered} 2.290 \\ (60.5) \\ 1.12 \\ 964 \\ (32.2) \end{gathered}$ | 0 $(0.0)$ HDIV/O! 0 \#DIV/O! | $\begin{gathered} 103 \\ (2.1) \\ 1.20 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 4.939 \\ (100.0) \\ 1.17 \\ 1.809 \\ (36.6) \end{gathered}$ |
| CL-04 | National <br> Road <br> No. 4 | 12 hrs Traffic <br> Share by Vehicle Type 24/12 Ratio <br> Number of Sampling Sampling Ratio 12 hus Base | yehicle <br> (\%) <br> sample <br> (\%) | $\begin{gathered} 1,142 \\ (12.0) \\ 1.21 \\ 277 \\ (24.3) \end{gathered}$ | $\begin{gathered} 92 \\ (0.3) \\ 1.00 \\ 45 \\ (45.5) \\ \hline \end{gathered}$ | $\begin{gathered} 331 \\ (0.5) \\ 1.25 \\ 133 \\ (40.2) \\ \hline \end{gathered}$ | $\begin{gathered} 756 \\ (8.5) \\ 1.29 \\ 189 \\ (25.0) \\ \hline \end{gathered}$ | $\begin{gathered} 51 \\ (3.8) \\ 1.22 \\ 77 \\ (151.0) \\ \hline \end{gathered}$ | $\begin{gathered} 519 \\ (5.5) \\ 1.41 \\ 159 \\ (30.6) \\ \hline \end{gathered}$ | $\begin{gathered} 528 \\ (5.6) \\ 1.24 \\ 142 \\ (26.9) \\ \hline \end{gathered}$ | $\begin{gathered} 5.688 \\ (60.0) \\ 1.14 \\ 947 \\ (16.6) \\ \hline \end{gathered}$ | $\begin{gathered} 2 \\ (0.0) \\ 1.50 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 367 \\ (3.9) \\ 1.07 \\ 74 \\ (20.2) \\ \hline \end{gathered}$ | $\begin{gathered} 2.483 \\ (100.0) \\ 1.18 \\ 2,043 \\ (21.5) \\ \hline \end{gathered}$ |
|  |  | 12 hrs Traffic Share by Vehicle Type | yehicls (\%) | $\begin{aligned} & 1,544 \\ & (17.2) \end{aligned}$ | $\begin{gathered} 122 \\ (2.8) \end{gathered}$ | $\begin{aligned} & 480 \\ & (4.0) \end{aligned}$ | $\begin{aligned} & 847 \\ & (9.5) \end{aligned}$ | $\begin{gathered} 29 \\ (0.3) \end{gathered}$ | $\begin{gathered} 718 \\ (8.0) \end{gathered}$ | $\frac{462}{(5.2)}$ | $\frac{4.550}{(50.8)}$ | $\begin{gathered} 2 \\ (0.0) \end{gathered}$ | $\begin{gathered} 201 \\ (2.2) \end{gathered}$ | $\begin{gathered} 8.255 \\ (100.0) \end{gathered}$ |
|  |  | $\begin{gathered} \text { 24/12 Ratio } \\ \text { Number of Sampling } \\ \text { Sampling Ratio } 12 \text { hrs Base } \end{gathered}$ | sample <br> (\%) | $\begin{gathered} 1.24 \\ 283 \\ (18.3) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.47 \\ 21 \\ (17.2) \\ \hline \end{array}$ | $\begin{gathered} 1.39 \\ 213 \\ (44.4) \\ \hline \end{gathered}$ | $\begin{gathered} 1.28 \\ 112 \\ (13.2) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.10 \\ 65 \\ (224.1) \\ \hline \end{array}$ | $\begin{gathered} 1.28 \\ 83 \\ (11.6) \\ \hline \end{gathered}$ | $\begin{gathered} 1.10 \\ 197 \\ (42.6) \\ \hline \end{gathered}$ | $\begin{gathered} 1.12 \\ 759 \\ (16.7) \\ \hline \end{gathered}$ | $\begin{gathered} 1.00 \\ 0 \\ (0.0) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.08 \\ 50 \\ (24.9) \\ \hline \end{array}$ | $\begin{aligned} & 1.19 \\ & 1,783 \\ & (19.9) \\ & \hline \end{aligned}$ |
|  |  | 12.hrs. Traffic Share by Vehicle Type 24/12 Ratio Number of Sampling Sampling Ratio $\mathbf{1 2}$ hus Base | yehicle <br> (\%) <br> sample (\%) | 2.686 $(14.6)$ 1.22 560 $(20.8)$ | $\begin{gathered} 22 i \\ (1.5) \\ 1.43 \\ 66 \\ (29.9) \end{gathered}$ | 811 $(2.2)$ 1.38 346 $(42.7)$ | $\begin{gathered} \hline 1.603 \\ (9.0) \\ 1.28 \\ 301 \\ (18.8) \end{gathered}$ | $\begin{gathered} \hline 80 \\ (2.1) \\ 1.21 \\ 142 \\ (177.5) \end{gathered}$ | $\begin{gathered} 1,237 \\ (6.7) \\ 1.33 \\ 242 \\ (19.6) \end{gathered}$ | $\begin{gathered} \hline 990 \\ (5.4) \\ 1.18 \\ 339 \\ (34.2) \end{gathered}$ | $\begin{aligned} & 10,238 \\ & (55.5) \\ & 1.13 \\ & 1,706 \\ & (16.7) \end{aligned}$ | $\begin{gathered} 4 \\ (0.0) \\ 1.25 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 568 \\ (3.1) \\ 1.07 \\ 124 \\ (21.8) \end{gathered}$ | $\begin{gathered} 18.438 \\ (100.0) \\ 1.19 \\ 3,826 \\ (20.8) \end{gathered}$ |
| CLo5 |  | 12hrstraffic <br> Share by Vehick Type 24/12 Ratio Number of Sampling Sampling Ratio 12 hus Base | vehicle <br> (\%) <br> sample <br> (\%) | $\begin{gathered} 414 \\ (6.9) \\ 1.27 \\ 77 \\ (18.6) \\ \hline \end{gathered}$ | $\begin{gathered} 65 \\ (1.9) \\ 1.02 \\ 52 \\ (80.0) \\ \hline \end{gathered}$ | $\begin{gathered} 126 \\ (1.3) \\ 1.21 \\ 59 \\ (46.8) \\ \hline \end{gathered}$ | $\begin{gathered} 470 \\ (7.8) \\ 1.23 \\ 160 \\ (34.0) \end{gathered}$ | $\begin{gathered} 22 \\ (0.4) \\ 1.00 \\ 9 \\ (40.9) \\ \hline \end{gathered}$ | $\begin{gathered} 122 \\ (2.0) \\ 1.16 \\ 50 \\ (41.0) \\ \hline \end{gathered}$ | $\begin{gathered} 723 \\ (12.0) \\ 1.16 \\ 105 \\ (14.5) \\ \hline \end{gathered}$ | $\begin{gathered} 3,246 \\ (65.6) \\ 1.21 \\ 513 \\ (13.0) \\ \hline \end{gathered}$ | $\begin{gathered} 5 \\ (0.1) \\ 1.00 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 124 \\ (2.1) \\ 1.08 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 6.017 \\ (100.0) \\ 1.20 \\ 1,025 \\ (17.0) \\ \hline \end{gathered}$ |
|  | National | 12 hrs Traffic <br> Share by Vehicle Type | ychicle <br> (\%) | $\frac{321}{(6.0)}$ | $\begin{gathered} 72 \\ (3.4) \end{gathered}$ | $\begin{gathered} 163 \\ (1.2) \end{gathered}$ | $\frac{562}{(10.5)}$ | $\begin{gathered} 39 \\ (0.7) \end{gathered}$ | $\begin{aligned} & 190 \\ & (3.6) \end{aligned}$ | $\begin{gathered} 752 \\ (14.1) \end{gathered}$ | $\begin{aligned} & 3.184 \\ & (59.7) \end{aligned}$ | $\begin{gathered} Q \\ (0.0) \end{gathered}$ | $\begin{gathered} \frac{46}{(0.9)} \end{gathered}$ | $\frac{5.336}{(100.0)}$ |
|  | Road No. 5 | 24/12 Ratio Number of Sampling Sampling Ratio 12 hrs Base | sample <br> (\%) | $\begin{gathered} 1.37 \\ 51 \\ (15.9) \\ \hline \end{gathered}$ | $\begin{gathered} 1.22 \\ 23 \\ (29.1) \\ \hline \end{gathered}$ | $\begin{gathered} 1.37 \\ 86 \\ (52.8) \\ \hline \end{gathered}$ | $\begin{gathered} 1.23 \\ 135 \\ (24.0) \end{gathered}$ | $\begin{gathered} 1.03 \\ 29 \\ (74.4) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.30 \\ 31 \\ (16.3) \\ \hline \end{array}$ | $\begin{gathered} 1.20 \\ 117 \\ (15.6) \\ \hline \end{gathered}$ | $\begin{gathered} 1.31 \\ 491 \\ (15.4) \\ \hline \end{gathered}$ | $\begin{gathered} \text { \#DN/io! } \\ 0 \\ \text { \#DIV/D! } \end{gathered}$ | $\begin{gathered} 1.00 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 1.28 \\ 963 \\ (18.0) \end{gathered}$ |
|  |  | 12 has Trafic <br> Share by Vehicle Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | yehick <br> (\%) <br> sample <br> (\%) | $\begin{gathered} 735 \\ (6.5) \\ 1.32 \\ 128 \\ (17.4) \end{gathered}$ | $\begin{gathered} 144 \\ (2.6) \\ 1.14 \\ 75 \\ (52.1) \end{gathered}$ | $\begin{gathered} 289 \\ (1.2) \\ 1.28 \\ 145 \\ (50.2) \end{gathered}$ | 1.032 $(9.1)$ 1.23 295 $(28.6)$ | $\begin{gathered} 61 \\ (0.5) \\ 1.02 \\ 38 \\ (62.3) \end{gathered}$ | $\begin{gathered} 312 \\ (2.7) \\ 1.25 \\ 81 \\ (26.0) \end{gathered}$ | 1.475 $(13.0)$ 1.18 222 $(15.1)$ | $\begin{aligned} & 7.130 \\ & (62.8) \\ & 1.25 \\ & 1,004 \\ & (14.1) \end{aligned}$ | 5 $(0.0)$ 1.00 0 $(0.0)$ | $\begin{gathered} \hline 170 \\ (1.5) \\ 1.06 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} 11,353 \\ (100.0) \\ 1.24 \\ 1,988 \\ (17.5) \end{gathered}$ |

Table A4.3.2 Summary of the Cordon Line Survey Results

| Station |  | 1 tem | unit | Vehicle Type |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Location |  |  | 1. Passenger Cars | $\begin{gathered} 2 . \\ \text { Taxi } \end{gathered}$ | 3. <br> Light Bus/ Pass.Van | $\begin{gathered} 4 . \\ \text { Pick-up/ } \\ \text { CargoVan } \\ \hline \end{gathered}$ | $\begin{gathered} 5 . \\ \text { Large Bus } \end{gathered}$ | 6. <br> Truck/ <br> Trailer | 7. <br> Motorumo | 8. <br> Motodop/ <br> Motorbike | $\begin{gathered} 9 . \\ \text { Cycho } \end{gathered}$ | $\begin{gathered} 10 . \\ \text { Bixycle } \end{gathered}$ | Total |
|  |  | 12 hes Traffic <br> Share by Vehicle Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | yehicie <br> (\%) <br> sample <br> (\%) | $\begin{gathered} 257 \\ (5.7) \\ 1.26 \\ 81 \\ (31.5) \\ \hline \end{gathered}$ | $\begin{gathered} 109 \\ (6.4) \\ 1.04 \\ 28 \\ (25.7) \end{gathered}$ | $\begin{gathered} 205 \\ (0.6) \\ 1.16 \\ 77 \\ (37.6) \end{gathered}$ | $\begin{gathered} 120 \\ (2.7) \\ 1.15 \\ 62 \\ (51.7) \\ \hline \end{gathered}$ | $\begin{gathered} 13 \\ (0.3) \\ 1.00 \\ 9 \\ (69.2) \\ \hline \end{gathered}$ | $\begin{gathered} 82 \\ (1.8) \\ 1.28 \\ 47 \\ (57.3) \\ \hline \end{gathered}$ | $\begin{gathered} 33 \\ (0.7) \\ 1.18 \\ 22 \\ (66.7) \\ \hline \end{gathered}$ | $\begin{gathered} 3.559 \\ (79.3) \\ 1.16 \\ 319 \\ (9.0) \\ \hline \end{gathered}$ | $\begin{gathered} 2 \\ (0.0) \\ 1.00 \\ 2 \\ 2 \\ (100.0) \\ \hline \end{gathered}$ | $\begin{gathered} 106 \\ (2.4) \\ 1.09 \\ 0 \\ (0.0) \\ \hline \end{gathered}$ | $\begin{gathered} 4.486 \\ (100.0) \\ 1.16 \\ 647 \\ (14.4) \\ \hline \end{gathered}$ |
| CL06 | National Road No. 6 | 12. hrs Traffic <br> Share by Vehicle Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | vehicle <br> (\%) <br> sample <br> (\%) | $\begin{gathered} 180 \\ (4.6) \\ 1.16 \\ 129 \\ (67.9) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 100 \\ (4.8) \\ 1.03 \\ 43 \\ (43.0) \\ \hline \end{gathered}$ | $\begin{gathered} 163 \\ (1.5) \\ 1.06 \\ 132 \\ (81.0) \\ \hline \end{gathered}$ | $\begin{gathered} 166 \\ (4.0) \\ 1.30 \\ 70 \\ (42.2) \\ \hline \end{gathered}$ | $\begin{gathered} 14 \\ (0.3) \\ 1.00 \\ 19 \\ (135.7) \\ \hline \end{gathered}$ | $\begin{gathered} 1110 \\ (2.6) \\ 1.26 \\ 39 \\ (35.5) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 22 \\ (0.5) \\ 1.14 \\ 8 \\ (36.4) \\ \hline \end{gathered}$ | $\begin{aligned} & 3.329 \\ & (79.9) \\ & 1.09 \\ & .422 \\ & (12.7) \\ & \hline \end{aligned}$ | $\begin{gathered} 2 \\ (0.0) \\ 1.00 \\ 2 \\ 2 \\ (100.0) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 68 \\ (1.6) \\ 1.31 \\ 0 \\ (0.0) \\ \hline \end{gathered}$ | $\begin{gathered} 4.164 \\ (100.0) \\ 1.10 \\ 864 \\ (20.7) \\ \hline \end{gathered}$ |
|  |  | 12 hus Traftis <br> Shate by Vehick Type 24/12 Ratio <br> Number of Sampling Sampling Ratio 12 hrs Base | yebicks <br> (\%) <br> sample <br> (\%) | $\begin{gathered} \hline 447 \\ (5.2) \\ 1.22 \\ 210 \\ (47.0) \end{gathered}$ | $\begin{gathered} \hline 209 \\ (5.7) \\ 1.04 \\ 71 \\ (34.0) \end{gathered}$ | $\begin{gathered} \hline \frac{368}{(1.0)} \\ 1.09 \\ 209 \\ (56.8) \end{gathered}$ | $\begin{gathered} \hline 286 \\ (3.3) \\ 1.23 \\ 132 \\ (46.2) \end{gathered}$ | $\begin{gathered} 27 \\ (0.3) \\ 1.00 \\ 28 \\ (103.7) \end{gathered}$ | $\begin{gathered} \hline 122 \\ (2.2) \\ 1.27 \\ 86 \\ (44.8) \end{gathered}$ | $\begin{gathered} 55 \\ (0.6) \\ 1.16 \\ 30 \\ (54.5) \end{gathered}$ | $\begin{gathered} \hline 6.888 \\ (79.6) \\ 1.13 \\ 741 \\ (10.8) \end{gathered}$ | $\begin{gathered} 4 \\ (0.0) \\ 1.00 \\ 4 \\ (100.0) \end{gathered}$ | $\begin{gathered} 174 \\ (2.0) \\ 1.18 \\ 0 \\ (0.0) \end{gathered}$ | $\begin{gathered} \hline \frac{8.650}{(100.0)} \\ 1.13 \\ 1,511 \\ (17.5) \end{gathered}$ |
|  |  | 12 hiss Traffic <br> Share by Vehick Type 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | vehick <br> (\%) <br> sample <br> (\%) | $\begin{gathered} 2.683 \\ (8.5) \\ 1.23 \\ 681 \\ (25.4) \end{gathered}$ | $\begin{gathered} \frac{813}{(2.6)} \\ 1.07 \\ 217 \\ (26.7) \\ \hline \end{gathered}$ | $\begin{gathered} 390 \\ (1.2) \\ 1.21 \\ 563 \\ (144.4) \\ \hline \end{gathered}$ | $\begin{gathered} 2.971 \\ (9.4) \\ 1.20 \\ 776 \\ (26.1) \end{gathered}$ | $\begin{gathered} 423 \\ (1.3) \\ 1.19 \\ 130 \\ (30.7) \\ \hline \end{gathered}$ | $\begin{gathered} 976 \\ (3.1) \\ 1.33 \\ 393 \\ (40.3) \\ \hline \end{gathered}$ | $\begin{gathered} 2,134 \\ (6.8) \\ 1.27 \\ 557 \\ (26.1) \end{gathered}$ | $\begin{aligned} & 20.155 \\ & (63.8) \\ & 1.16 \\ & 3,724 \\ & (18.5) \end{aligned}$ | $\begin{gathered} 17 \\ (0.1) \\ 1.12 \\ 7 \\ (41.2) \\ \hline \end{gathered}$ | $\begin{gathered} 1.015 \\ (3.2) \\ 1.10 \\ 74 \\ (7.3) \\ \hline \end{gathered}$ | $\begin{gathered} \frac{31.577}{(100.0)} \\ 1.18 \\ 7,122 \\ (22.6) \\ \hline \end{gathered}$ |
| 24-hr |  | 12 hirs Traffic Shate by Vehicle Type 24/12 Ratio | yehisk <br> (\%) | $\begin{aligned} & 3.104 \\ & (10.5) \end{aligned}$ | $\begin{gathered} 977 \\ (3.3) \end{gathered}$ | $\underset{(2.2)}{688}$ | $\begin{aligned} & 2.571 \\ & (8.7) \end{aligned}$ | $\begin{aligned} & 114 \\ & (0,4) \\ & 105 \end{aligned}$ | $\begin{aligned} & 1.675 \\ & (5.7) \end{aligned}$ | $\begin{aligned} & 2.179 \\ & (7.4) \end{aligned}$ | $\begin{aligned} & 17,602 \\ & (59.6) \end{aligned}$ | $\begin{aligned} & 6.0 \\ & (0.0) \\ & 0 \end{aligned}$ | $\begin{aligned} & 625.0 \\ & (2.1) \\ & 1.09 \end{aligned}$ | $\begin{gathered} 22.511 .0 \\ (100.0) \end{gathered}$ |
| Stations | Total | 24/12 Ratio <br> Number of Sampling <br> Sampling Ratio 12 hrs Base | sample <br> (\%) | $\begin{gathered} 1.22 \\ 726 \\ (23.4) \end{gathered}$ | $\begin{gathered} 1.19 \\ 127 \\ (13.0) \end{gathered}$ | $\begin{gathered} 1.30 \\ 630 \\ (95.7) \end{gathered}$ | $\begin{gathered} 1.26 \\ 711 \\ (27.7) \\ \hline \end{gathered}$ | $\begin{gathered} 1.05 \\ 146 \\ (128.1) \end{gathered}$ | $\begin{array}{r} 1.23 \\ 261 \\ (15.6) \\ \hline \end{array}$ | $\begin{gathered} 1.18 \\ 705 \\ (32.4) \end{gathered}$ | $\begin{aligned} & 1.16 \\ & 2,776 \\ & (15.8) \end{aligned}$ | $\begin{gathered} 1.00 \\ 6 \\ (100.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.09 \\ 50 \\ (8.0) \end{gathered}$ | $\begin{aligned} & 1.18 \\ & 6,138 \\ & (20.8) \\ & \hline \end{aligned}$ |
|  |  | 12 hrs Traffic Share by Vehicle Type | ychick <br> (\%) | 5.787 $(9.5)$ | $\begin{aligned} & 1.790 \\ & (2.9) \end{aligned}$ | 1.048 (1.7) | $\begin{aligned} & 5.542 \\ & (9.1) \end{aligned}$ | $\begin{gathered} 537 \\ (0.9) \end{gathered}$ | $\begin{aligned} & 2.651 \\ & (4.3) \end{aligned}$ | $\begin{aligned} & 4.313 \\ & \hline(7.1) \end{aligned}$ | $\begin{aligned} & 37,757 \\ & (61.8) \end{aligned}$ | $\begin{gathered} 23 \\ (0.0) \end{gathered}$ | $\begin{aligned} & 1.640 \\ & (2.7) \end{aligned}$ | $\begin{aligned} & \frac{61.088}{(100.0)} \\ & \end{aligned}$ |
|  |  | 24/12 Ratio | ) | 1.22 | 1.13 | 1.27 | 1.23 | 1.16 | 1.27 | 1.23 | 1.16 | 1.09 | 1.09 | 1.18 |
|  |  | Number of Sampling Sampling Ratio 12 hrs Base | sample <br> (\%) | $\begin{aligned} & 1,407 \\ & (24,3) \end{aligned}$ | $\begin{gathered} 344 \\ (19.2) \end{gathered}$ | $\begin{gathered} 1,193 \\ (113.8) \end{gathered}$ | $\begin{aligned} & 1,487 \\ & (26.8) \end{aligned}$ | $\begin{gathered} 276 \\ (51.4) \end{gathered}$ | $\begin{gathered} 654 \\ (24.7) \end{gathered}$ | $\begin{aligned} & 1,262 \\ & (29.3) \end{aligned}$ | $\begin{aligned} & 6,500 \\ & (17.2) \end{aligned}$ | $\begin{gathered} 13 \\ (56.5) \end{gathered}$ | $\begin{array}{r} 124 \\ (7.6) \end{array}$ | $\begin{aligned} & 13,260 \\ & (21.7) \end{aligned}$ |



