

(2) Traffic at Screen Line

The total number of vehicle trips passing Rimac river and Av. Panamericana Sur are 632 thousand and 144 thousand, respectively, at both directions per day.

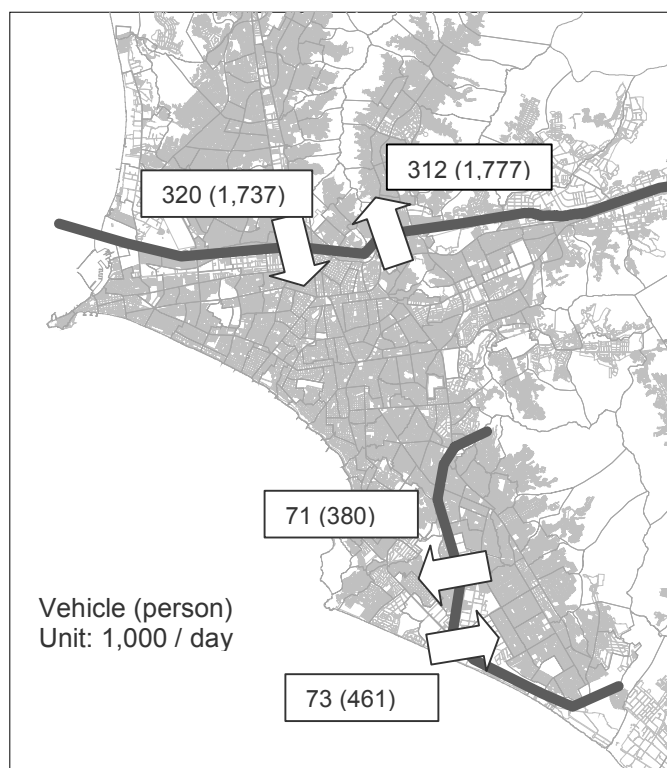


Figure 4.2-2 Traffic Volume Crossing Screen Lines

Figure 4.2-2 through Figure 4.2-6 show the traffic volume counted at each station on the screen lines. On the screen line on Rimac river, the traffic volume at Del Ejercito bridge is highest at 114 thousand vehicles (559 thousand passenger trips), followed by Faucett bridge at 75 thousand (400 thousand passenger trips) and Huascar bridge on the Av. Panamericana Sur, at 75 thousand (392 thousand passenger trips).

In the case of Av. Panamericana Sur, the highest volume (62 thousand vehicles/day or 428 thousand passenger trips) is observed at Atocongo bridge where Traffic observed at each survey station can be summarized in Table 4.2-2. In general, all station has a very low value in terms of peak ratio, except a few stations. This means that there is no concentration of traffic and congestion observe all day. The ratio of public transport traffic ranges 20% to 40%, except three stations where the public transport is prohibited to operate. Hourly fluctuation of traffic counted both two-screen lines is illustrated in Figure 4.2-7 through Figure 4.2-11.

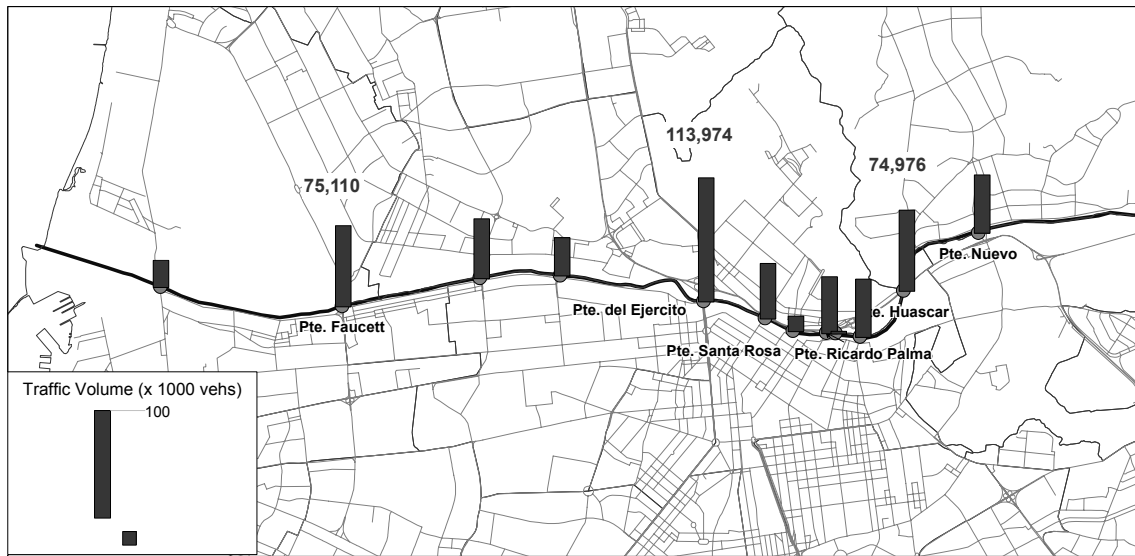


Figure 4.2-3 Traffic Volume on Rimac River Screen Line (Vehicle/day)

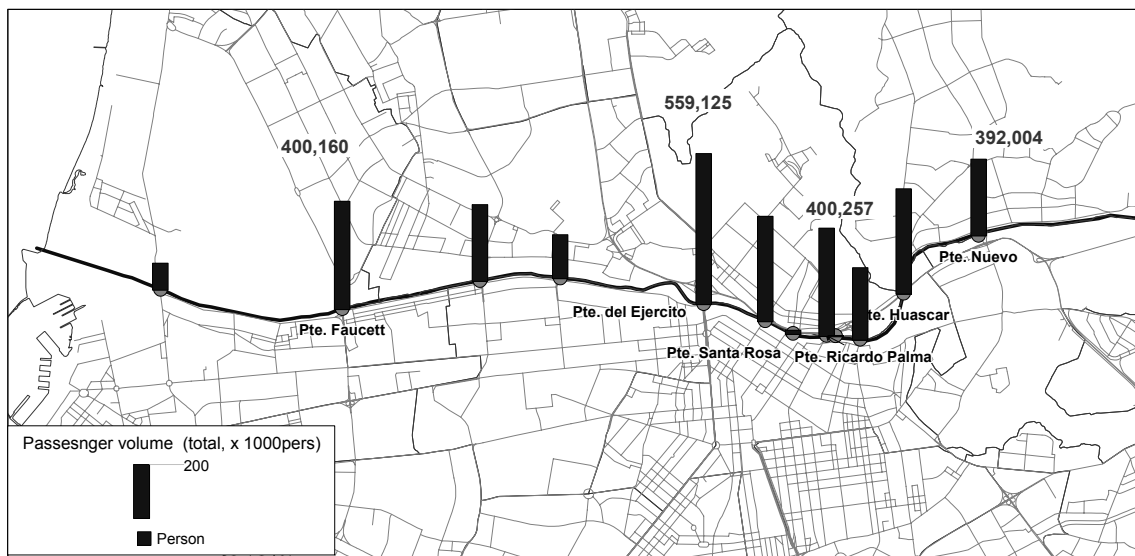


Figure 4.2-4 Traffic Volume on Rimac River Screen Line (Passenger/day)

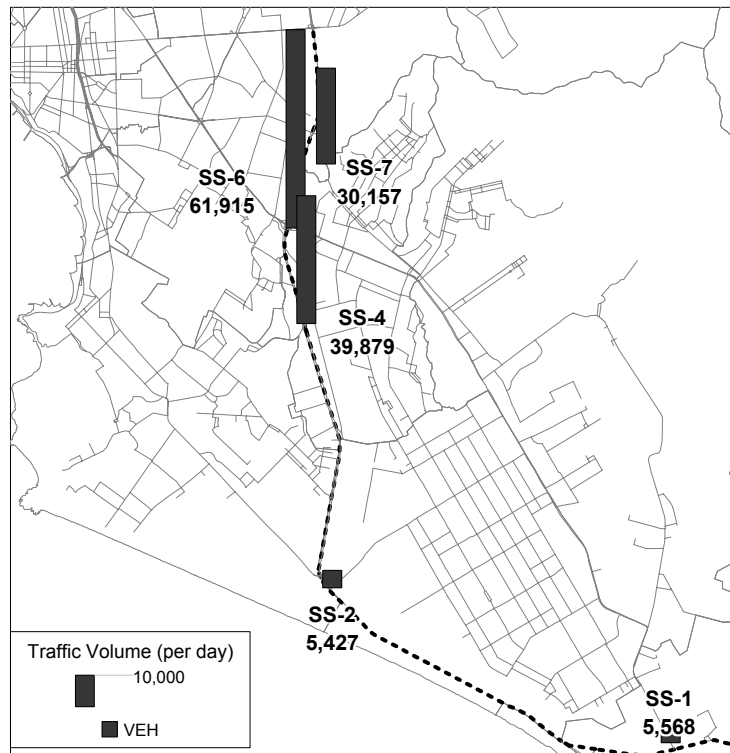


Figure 4.2-5 Traffic Volume on South Pan-American Screen Line (Vehicle/day)

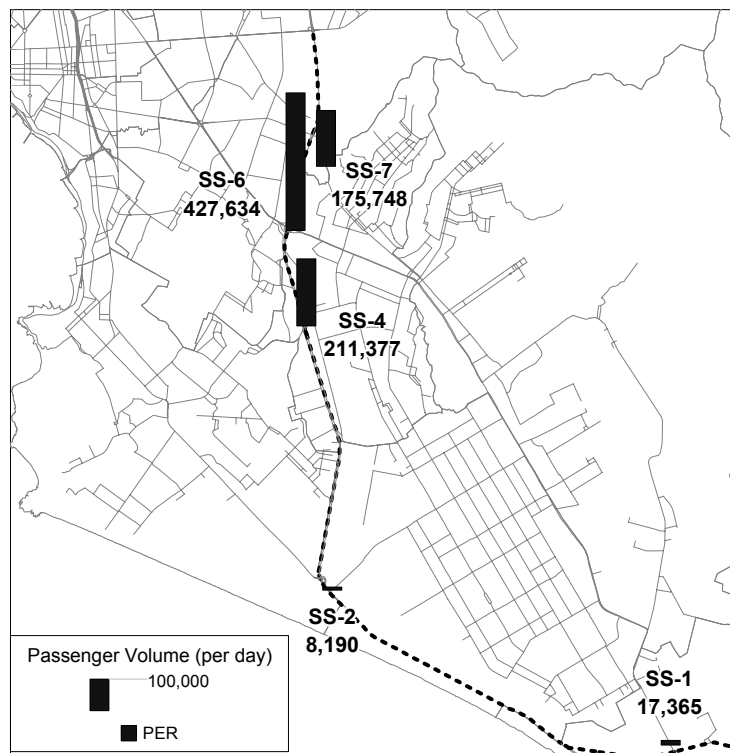


Figure 4.2-6 Traffic Volume on South Pan-American Screen Line (Passenger/day)

Table 4.2-2 Summary of Traffic at Screen Line Stations

Screen Line	No.	Station Name	No. of Trips Counted		Peak Ratio (%)	Public Transport Ratio (%)	Truck Ratio (%)
			Vehicles	Passengers			
			(000)	(000)			
Rimac River	SL-01	Puente Gambetta	25	99	9.3	23.7	22.1
	SL-02	Puente Faucett	75	400	7.1	32.1	2.0
	SL-03	Puente Union	55	283	6.6	23.7	5.7
	SL-04	Puente Duenas	36	161	7.4	24.0	4.0
	SL-05	Puente del Ejercito	114	559	6.5	20.7	6.2
	SL-06	Puente Santa Rosa	51	389	7.7	29.8	0.4
	SL-07	Puente Trujillo	15	17	9.3	0.0	0.1
	SL-08	Puente Ricardo Palma	53	400	7.2	24.3	0.6
	SL-09	Puente Balta	3	4	9.1	1.4	2.6
	SL-10	Puente Huanuco	54	268	7.2	28.9	6.7
	SL-11	Puente Huascar	75	392	7.5	35.3	14.2
	SL-12	Puente Miguel Grau	54	282	6.1	29.0	7.8
	SL-13	Puente Huachipa	20	104	7.2	28.1	18.6
South Pan-American Highway	SS-01	AV. Pachacutec	6	17	7.1	18.7	22.4
	SS-02	AV. Sol	5	8	9.5	0.7	12.6
	SS-04	AV. Vargas Machuca	40	211	7.2	35.4	6.4
	SS-06	AV. Pachacutec	62	428	6.5	38.4	2.6
	SS-07	AV. ROSA LOZANO	30	176	7.2	29.5	6.8

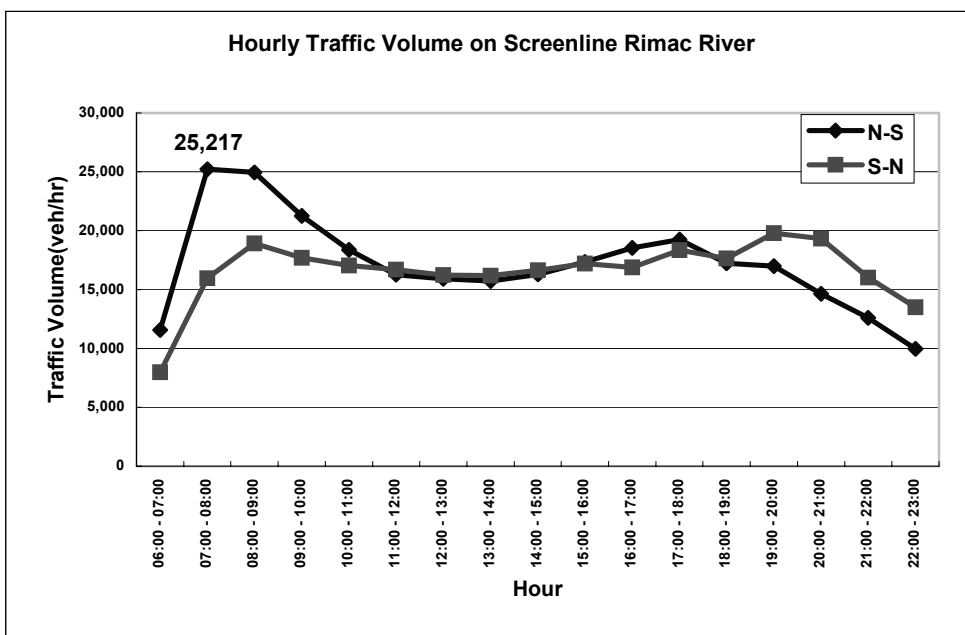


Figure 4.2-7 Hourly Traffic Volume on Rimac River Screen Line (Vehicle/day)

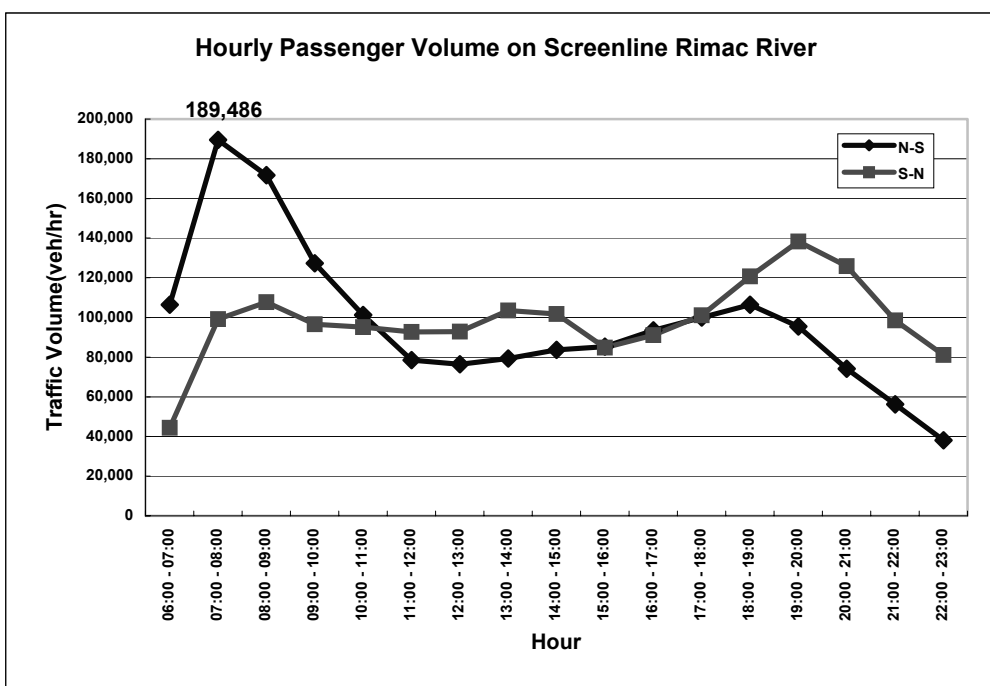


Figure 4.2-8 Hourly Traffic Volume on Rimac River Screen Line (Passenger/day)

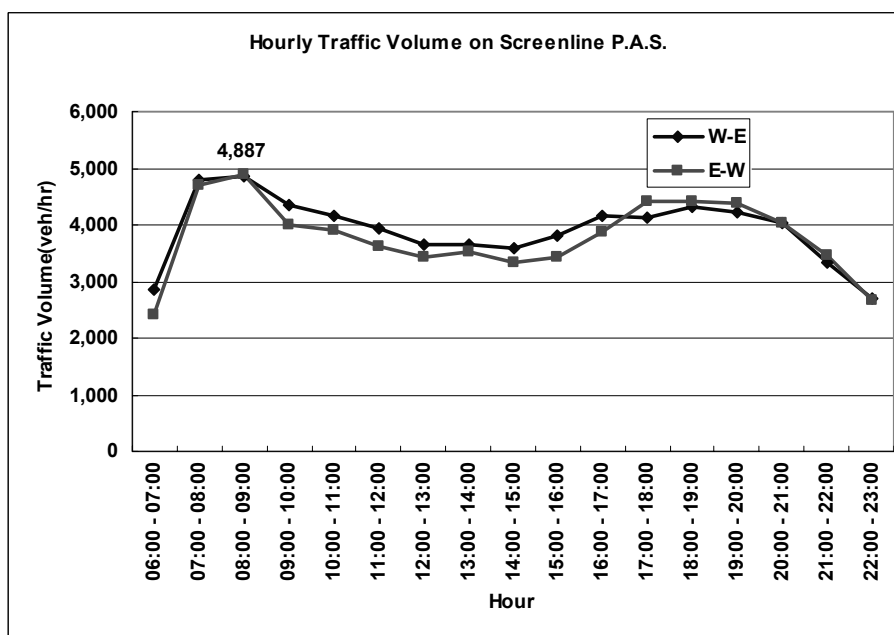


Figure 4.2-9 Hourly Traffic Volume on South Pan-American Screen Line (Vehicle/day)

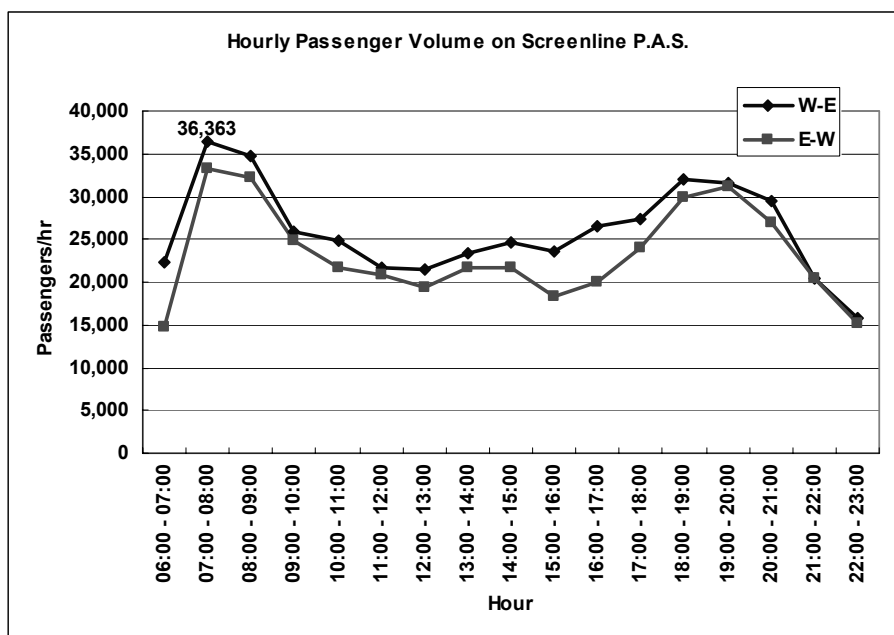


Figure 4.2-10 Hourly Traffic Volume on South Pan-American Screen Line (Passenger/day)

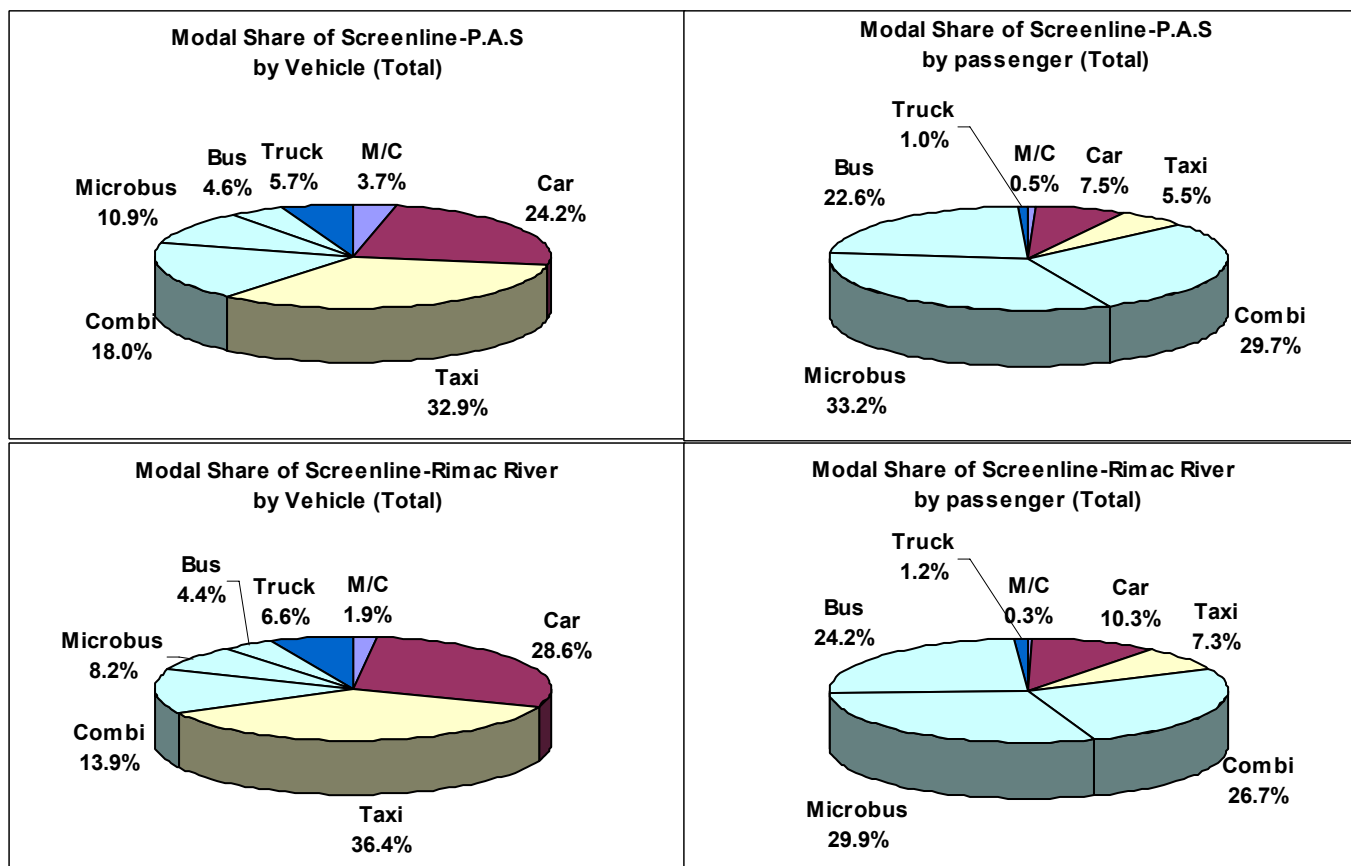


Figure 4.2-11 Modal Share on the Screen line

(3) Traffic at Principal Road Sections

Figure 4.2-12 through Figure 4.2-15 show traffic volume counted in periods from 6:00 to 10:00. The following can be obvious:

- a) In time period from 6:00 – 7:00 and 7:00 – 8:00, there is traffic generated in the north part of the Study area, which is going to the central area.
- b) In time period from 8:00 – 9:00, there is a generation in the central and south area, and the congestion in the central area starts.
- c) The congestion in the north area and south area are relieved and the congestion in the central area still remains.

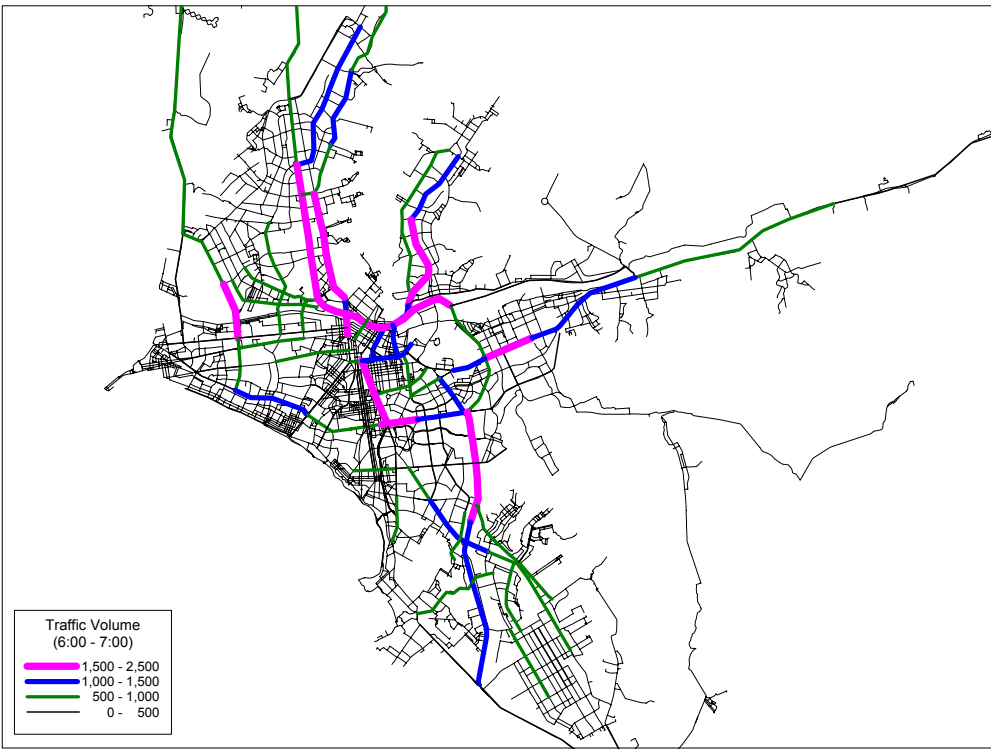


Figure 4.2-12 Traffic Volume Counted in Periods from 6:00 to 7:00

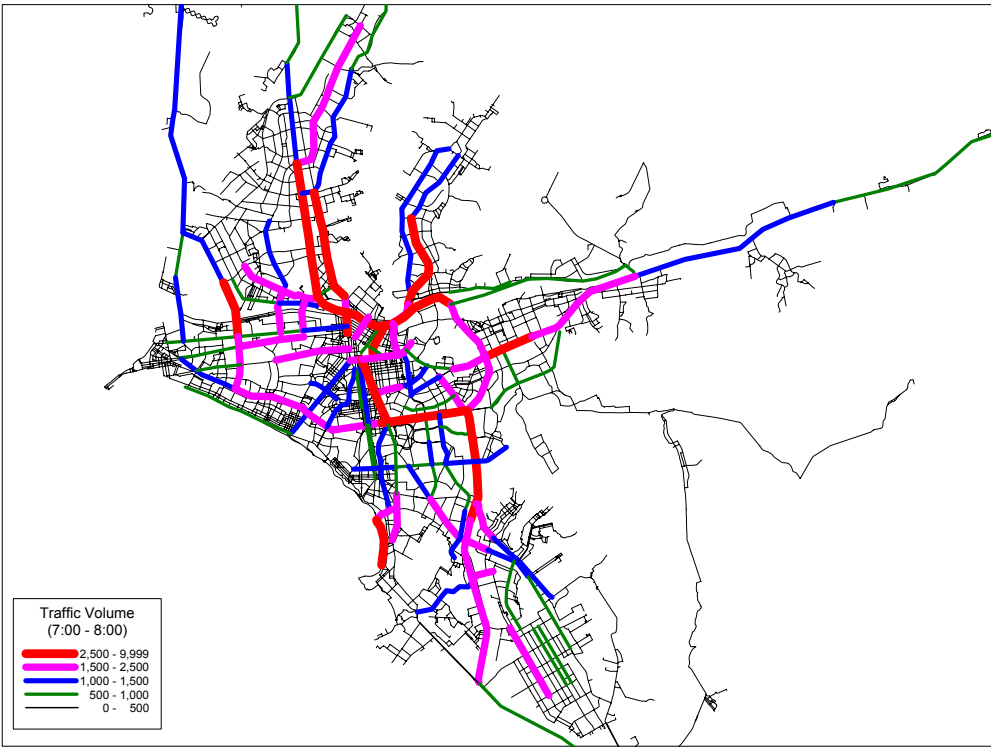


Figure 4.2-13 Traffic Volume Counted in Periods from 7:00 to 8:00

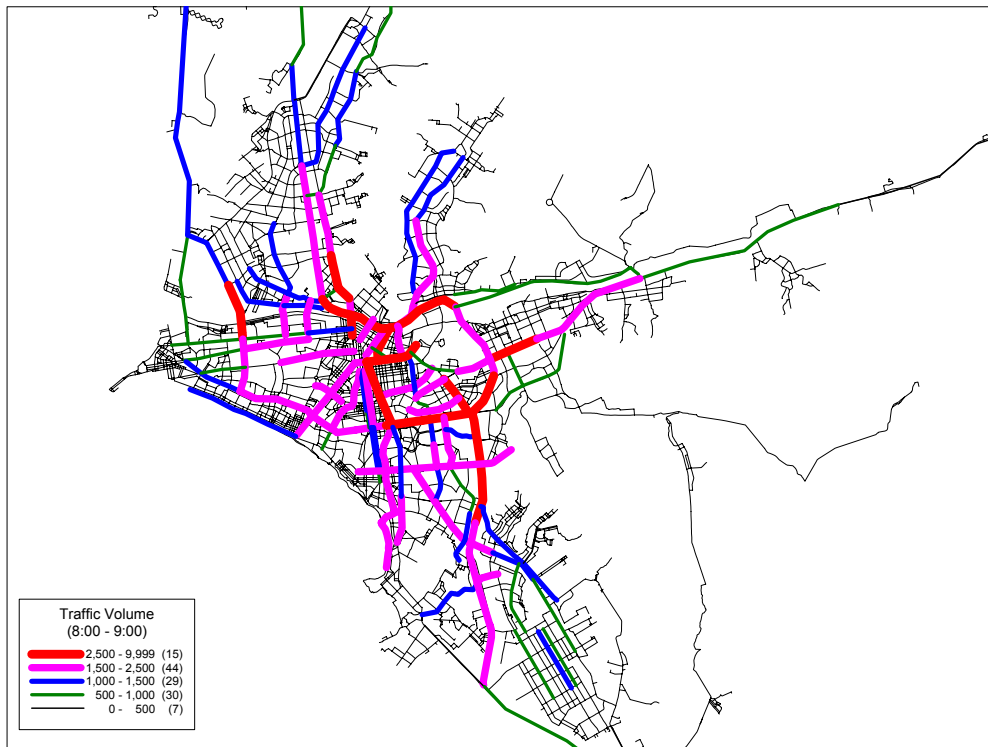


Figure 4.2-14 Traffic Volume Counted in Periods from 8:00 to 9:00

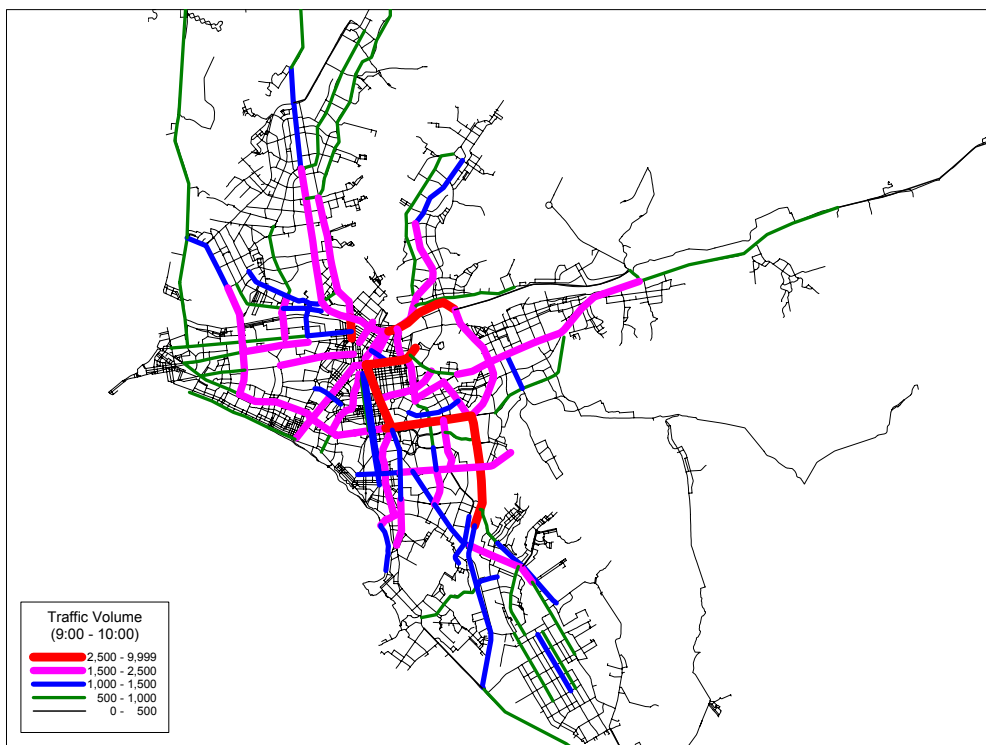


Figure 4.2-15 Traffic Volume Counted in Periods from 9:00 to 10:00