

Figure 2.3.10 The Study Area 2010 Populations by Zone

Source: Punjab Development Statistics 2010 and JICA Study Team

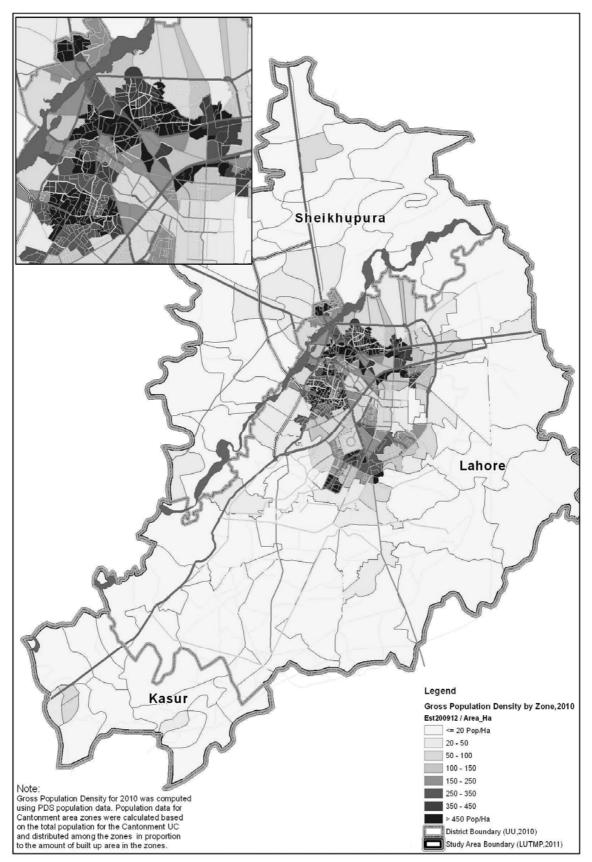


Figure 2.3.11 The Study Area 2010 Gross Population Density by Zone

Source: Punjab Development Statistics 2010 and JICA Study Team

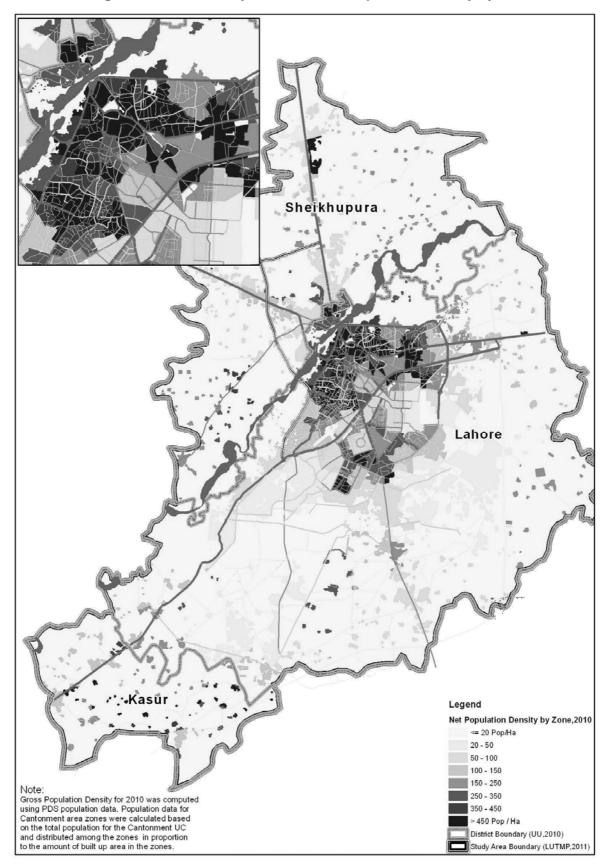


Figure 2.3.12 The Study Area 2010 Net Population Density by Zone

Source: Punjab Development Statistics 2010 and JICA Study Team

The net density plot clearly demonstrates that the population is mostly concentrated around the old city area in a concentric fashion, with the exception of linear developments along major arterial roads in the Study Area. The population in the mostly built up area around the city centre accounts for over 66 % of the Study Area population in approximately 10 % of the Study Area. This signifies that the population density in Lahore is still considerably lower than similar conurbation/ metropolis around the Asia region.

Figure 2.3.13 shows the age structure of the people living in the Study Area. Age groups 15-19 and 20-24 form the peak for both male and female due to the inflow of young students and workers into Lahore.

Figure 2.3.14 illustrates the distribution of household size in the Study Area. The average household size as of 2010 has been anticipated to be 5.62 persons per hundred.

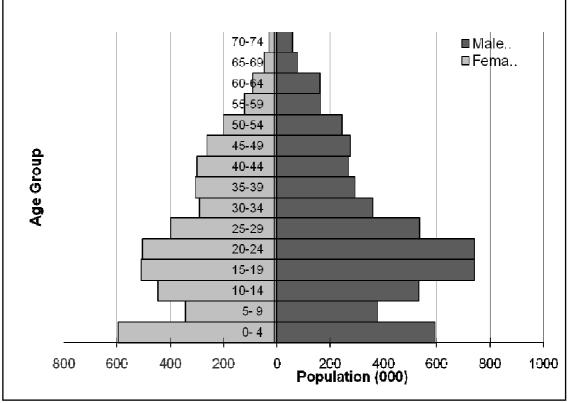


Figure 2.3.13 Age Structure of Lahore 2010 Population

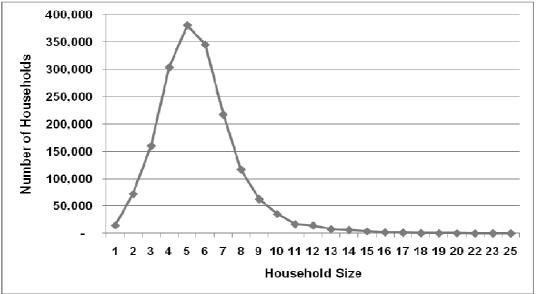


Figure 2.3.14 Household Size Distribution of 2010 Population of Lahore

Source: JICA Study Team

2.3.5 Employment Distribution

The Punjab or city statistics do not provide data on employed residents (level of employment) in the Study Area. The analysis below is based on the Household Interview Surveys (HIS) conducted for the Study. The data relates to the residence of the employed persons. Table 2.3.8 summarises the employed residents by zone in the Study Area.

Town/ Tehsil		Primary	Secondary	Tertiary	Total
1	Ravi	5	40	248	293
2	Data Gunj Baksh	3	31	227	262
3	Samanabad	4	40	232	275
4	Shalamar	3	36	197	237
5	Gulberg	3	23	191	217
6	AzizB	5	24	145	174
7	Wagah	27	29	111	167
8	Nishter	27	52	171	251
9	lqbal	19	39	194	252
10	Cantt	8	29	185	221
11	Ferozewala	27	33	86	146
12	Muridke	12	13	44	70
13	Sharaqpur	16	5	18	39
14	Kasur	8	5	26	40
15	Patoki	13	6	27	47
1-10	Lahore District	103	343	1,902	2,348
11-13	LUTMP_SHK	54	51	149	254
14-15	LUTMP-Kasur	22	11	54	87
1-15	LUTMP Total	179	405	2,105	2,689

Table 2.3.8 The Study Area 2010 Employment by Zone of Residence ('000)

The employment participation rate (Number of employed persons/ Total population) in Lahore is estimated to be around 27 %. This figure is rather low, and the main reason being that most of the population is young, and is below the employment age group of $0 \sim 16$ years. As anticipated, majority of the population is employed in tertiary sector, almost five times more than those employed in the industrial or manufacturing sector. This is significant to note that most of the Punjab provincial government offices are in Lahore, along with the banking, and other service sector employment. Distribution of employed residents by zone and employment sector is shown in Figure 2.3.15.

The unemployment level in the city remains very high, and exceeds those employed by about 27 %. The main conclusion to be drawn is that unemployment is almost 99 % among female residents. This is illustrated in Figure 2.3.16 for each zone in the Study Area and is summarised in Table 2.3.9.

District	Town / Tehsil	Unemployed		
	Ravi Town	339.4		
	Data Gunj Bakhsh Town	346.7		
	Samanabad Town	353.5		
	Shalamar Town	281.2		
Lahore	Gulberg Town	262.4		
Lanore	Aziz Bhatti Town	229.1		
	Wagah Town	224.1		
	Nishter Town	318.2		
	Iqbal Town	328.0		
	Cantonment	277.2		
	Ferozwala Tehsil	194.4		
Sheikhupura	Muridke Tehsil	91.0		
	Sharaqpur Tehsil	27.5		
Keeur	Kasur Tehsil	58.5		
Kasur	Pattoki Tehsil	73.7		
	Lahore			
	Sheikhupura			
	Kasur			
LUTMP	The Study Area Total	3,404.9		
Courses: IICA Study Teer		-,		

Table 2.3.9 LUTMP 2010 Unemployed Residents by Zone of Residence ('000)

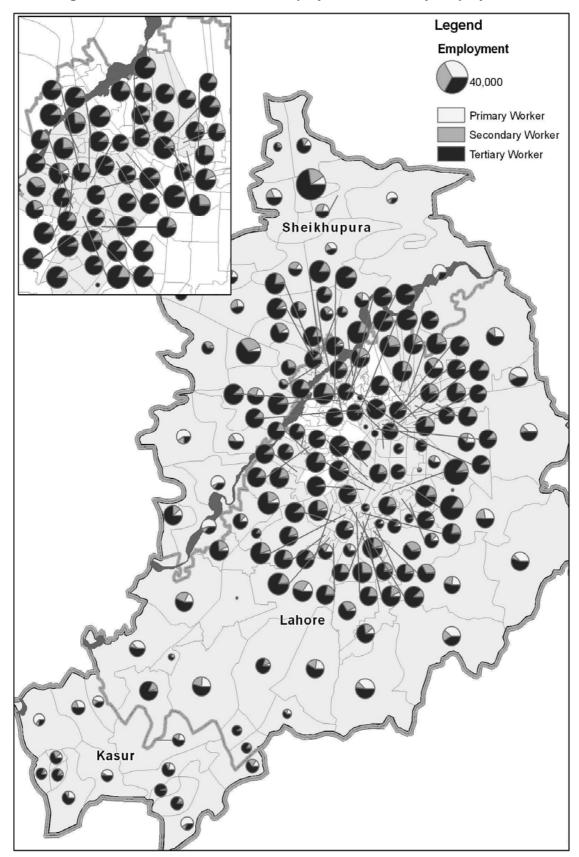


Figure 2.3.15 LUTMP 2010 Zonal Employed Residents by Employment Sector

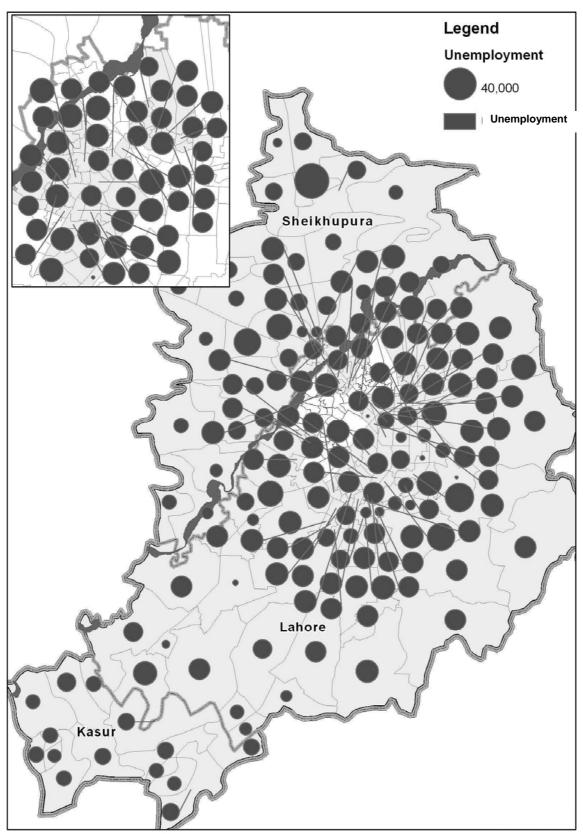


Figure 2.3.16 LUTMP 2010 Zonal Un-employed Residents by Residence Zone

2.3.6 2010 Vehicle Ownership in the Study Area

In the Study Area there are 1.77 million household, with an average household size of 5.62. The car ownership is highest in Cantonment (more than double of the Study Area) and stand at about 40 %. Gulberg and Iqbal towns have car ownership close to 30 % where as in the remainder of the Study Area it is lowest in the inner-city area towns, compared to larger towns on the outskirts. The car ownership in the areas of other two districts included in the Study Area is just over 10 %. The significant conclusion is that there are about 350,000 cars in the Study Area. Vehicle (cars and motorcycles) ownership in the Study Area is summarised in Table 2.3.10. The car owning households by the Study Area zones are shown in Figure 2.3.17.

	Town/ Tehsil	2010 Household (HH)						
District		Total 2010 HH (000)	Car Owning HH (000)	% Car Owning HH	M/ Cycle Owning HH	% M/Cycle Owning HH	% Car and M/ Cycle Owning HH	
	Ravi Town	172.8	13.1	7.6	80.9	46.8	54.4	
	Data Gunj Bakhsh	173.4	30.9	17.8	90.1	52.0	69.8	
	Samanabad Town	175.5	39.9	22.7	88.2	50.3	73.0	
	Shalamar Town	144.7	18.3	12.6	75.1	51.9	64.5	
Lahore	Gulberg Town	138.5	40.6	29.3	64.5	46.6	75.9	
Lanore	Aziz Bhatti Town	121.6	20.2	16.6	60.5	49.8	66.4	
	Wagah Town	106.8	7.4	6.9	46.2	43.3	50.2	
	Nishter Town	161.9	14.4	8.9	66.2	40.9	49.8	
	Iqbal Town	177.1	49.6	28.0	60.9	34.4	62.4	
	Cantonment	161.3	64.2	39.8	54.4	33.7	73.5	
	Ferozwala Tehsil	98.4	8.8	8.9	34.7	35.3	44.2	
Sheikhupura	Muridke Tehsil	44.8	3.0	6.7	12.6	28.1	34.8	
-	Sharaqpur Tehsil	27.9	4.0	14.3	9.4	33.7	73.5	
Keesse	Kasur Tehsil	28.1	6.4	22.8	5.8	20.6	43.4	
Kasur	Pattoki Tehsil	33.2	1.8	5.4	8.2	24.7	30.1	
Lahore		1,533.6	298.6	19.5	687.0	44.8	64.3	
Sheikhupura		171.1	15.8	9.2	56.7	33.1	42.4	
Kasur		61.3	8.2	13.4	14.0	22.8	36.2	
The Study Area Total		1,766.0	322.6	18.3	757.7	42.9	61.2	

Table 2.3.10 LUTMP 2010 Vehicle (Car and Motorcycle) Owning Households

Source: JICA Study Team

Motorcycle ownership in the Study Area exceeds 42 % of all households. The motorcycle ownership is more dominant in the inner city towns of Data Gunj Baksh, Samanabad and Shalamar towns, where it exceeds 50%. The motorcycle ownership is also dominant in the rural areas, as it is the only means of transport for the isolated villager and farmer. In Lahore around 45 % households are owning one or more motorcycles on average, and it is about 30% lower in Sheikhupura and about half in the district of Kasur. It is estimated that there are about 850,000 motorcycles in the Study Area. In total there are about 1.2 million vehicles in the Study Area. Figure 2.3.18 illustrates the motorcycle owning households by the Study Area zones.

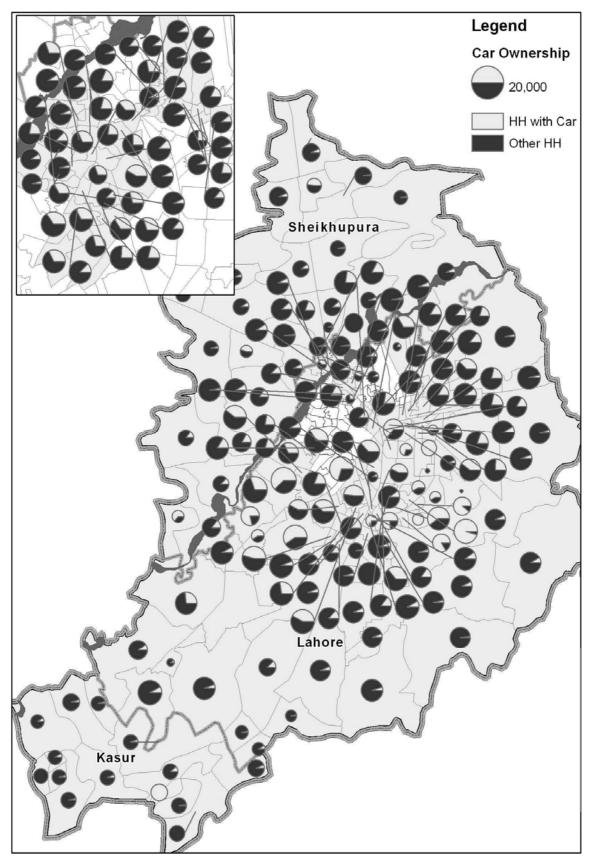


Figure 2.3.17 LUTMP 2010 Car Owning Households by Zone

Source: JICA Study Team

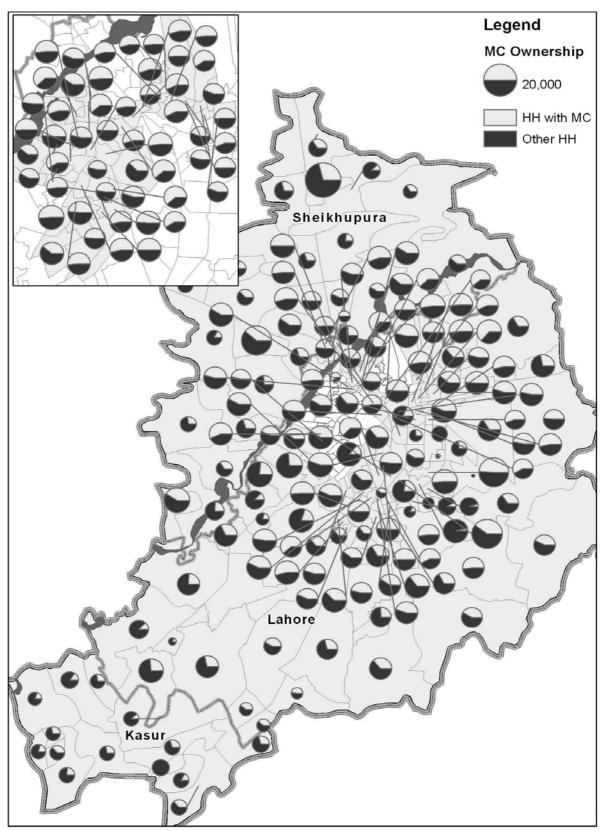
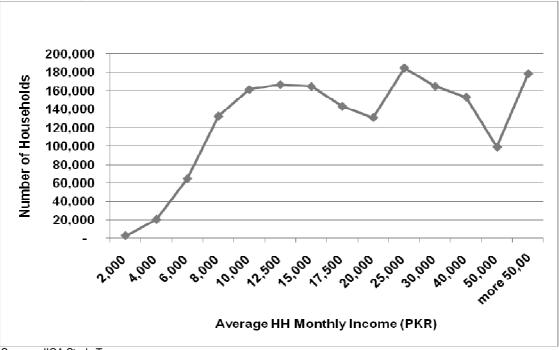


Figure 2.3.18 LUTMP 2010 Motorcycle Owning Households by Zone

Source: JICA Study Team

2.3.7 Household Income

One of the key factors in trip making is the household income. The HIS recorded income in a number of ranges from less than PKR 2,000 per month to those earning more than PKR 50,000 per month. The income distribution of the Study Area is shown in Figure 2.3.19.





Source: JICA Study Team

Table 2.3.11 presents the household income results of HIS. The data has been aggregated into three income groups: low, medium and high. It is interesting to note that there are similar number of households in low and high income groups ($381,000 \sim 22 \%$) and $430,000 \sim 24 \%$).

The middle income group accounts for just over 54 % of all households, with an average income of around PKR 20,000 (USD 250) per month. When converted to income per capita, it amounts to just over PKR 3,500 per month or USD 1.4 per day per person, rather low income on per capita basis by international standards. However, when compared with Pakistan GDP per capita, it shows that the survey results are quite consistent.

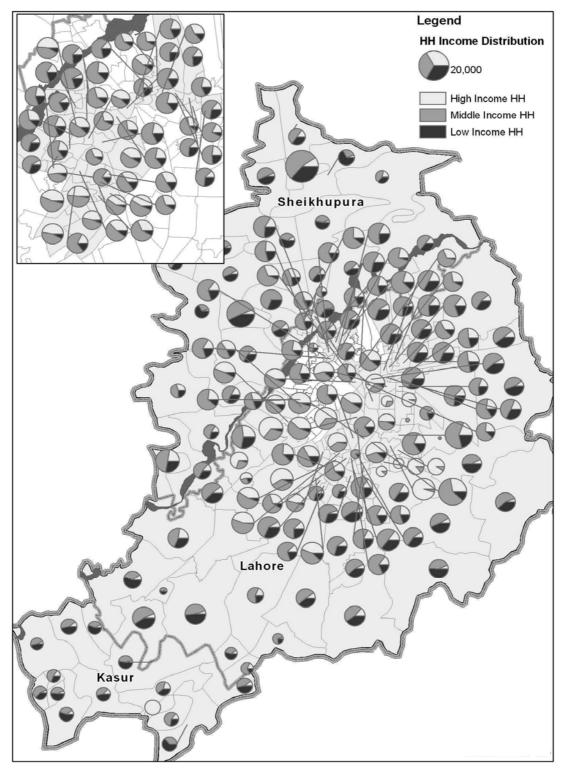
Household income varies considerably between areas of Lahore. Highest income group lives in Cantonment, where high income group amounts to 44 % of households. The other richer areas are Gulberg and Samanabad. As anticipated, the outskirt areas (mostly rural Wagah and Nishtar towns) have lowest proportion of high income household.

Household income in the areas of two adjoining districts is lower than those of Lahore. In both of these districts the high income group is less than 20 % of the total households,

with Kasur being the poorer of the two districts.

The complete household distribution by income groups, by Towns/ Tehsils is summarised in Table 2.3.11 and illustrated by zone in Figure 2.3.20.





Source: JICA Study Team

District	Town / Tehsil	Low Income (< =PKR 10,000/m)		Middle Income (> PKR10,000 & < =30,000/m)		High Income (>PKR 30,000/m)		Total Household
		НН (000)	% in Area	HH (000)	% in Area	HH (000)	% in Area	(000)
	Ravi Town	34.4	20	106.6	62	31.8	18	172.8
	Data Gunj Bakhsh	25.1	14	105.4	61	43.0	25	173.4
	Samanabad	20.0	11	96.6	55	59.0	34	175.5
	Shalamar Town	25.6	18	87.9	61	31.3	22	144.7
Lahore	Gulberg Town	10.6	8	74.9	54	53.1	38	138.5
Lanoie	Aziz Bhatti Town	29.9	25	69.0	57	22.6	19	121.6
	Wagah Town	35.4	33	58.9	55	12.5	12	106.8
	Nishter Town	50.9	31	89.5	55	21.5	13	161.9
	Iqbal Town	39.1	22	84.4	48	53.5	30	177.1
	Cantonment	18.6	12	71.8	45	70.3	44	161.3
	Ferozwala Tehsil	39.3	40	48.8	50	10.3	10	98.4
Sheikhupura	Muridke Tehsil	18.4	41	21.8	49	4.6	10	44.8
	Sharaqpur Tehsil	7.9	28	14.3	51	5.7	20	27.9
Kaava	Kasur Tehsil	10.6	38	10.1	36	7.5	27	28.1
Kasur	Pattoki Tehsil	15.5	47	14.5	44	3.3	10	33.2
L	Lahore		19	845.0	55	399.1	26	1,533.6
Sheikhupura		65.6	38	84.9	50	20.6	12	171.1
Kasur		26.1	43	24.6	40	10.8	18	61.3
The Study Area Total		381.3	22	954.5	54	430.5	24	1,766.0

Table 2.3.11 LUTMP 2010 Household Income Distribution by Town/ Tehsil

Source: JICA Study Team

Household income has a strong relationship with household vehicle ownership as revealed by Figure 2.3.21. Car is owned more as income level goes up. Motorcycle seems to be suitable for middle- to high-income households with a monthly income of PKR 20 to 50 thousand.

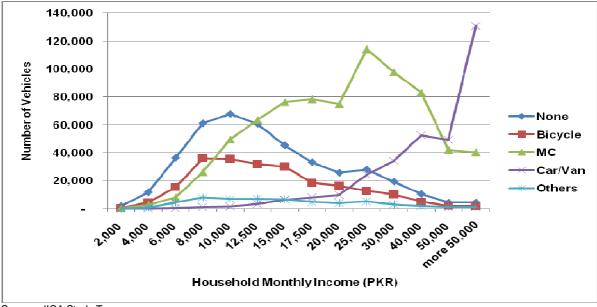


Figure 2.3.21 Household Income Distribution by Vehicle Ownership, 2010