

ANNEXES FOR MASTER PLAN

ANNEX M-1

TRAFFIC SURVEY RESULTS

ANNEX M-1 TRAFFIC SURVEY RESULTS

Bus Passenger Volume Survey Sheet

Name of Recorder(s):	Location:	Date: Day: Time:	Direction To:..... From:.....	
Route Name	Type of Bus Operator	Type of Bus Operation	Bus Size	Passenger Loading
.....	1.Public 2.Private	1. Intra-Provincial 2. Inter-Provincial	1. Below 20 Seats 2. 20 to 29 Seats 3. 30 to 39 Seats 4. Over 40 Seats	1. Empty 2. Less than 1/2 3. More than 1/2 4. Full No Standers 5. Full with Standers 6. Capacity 7. Capacity Overflow
.....	1.Public 2.Private	1. Intra-Provincial 2. Inter-Provincial	1. Below 20 Seats 2. 20 to 29 Seats 3. 30 to 39 Seats 4. Over 40 Seats	1. Empty 2. Less than 1/2 3. More than 1/2 4. Full No Standers 5. Full with Standers 6. Capacity 7. Capacity Overflow
.....	1.Public 2.Private	1. Intra-Provincial 2. Inter-Provincial	1. Below 20 Seats 2. 20 to 29 Seats 3. 30 to 39 Seats 4. Over 40 Seats	1. Empty 2. Less than 1/2 3. More than 1/2 4. Full No Standers 5. Full with Standers 6. Capacity 7. Capacity Overflow
.....	1.Public 2.Private	1. Intra-Provincial 2. Inter-Provincial	1. Below 20 Seats 2. 20 to 29 Seats 3. 30 to 39 Seats 4. Over 40 Seats	1. Empty 2. Less than 1/2 3. More than 1/2 4. Full No Standers 5. Full with Standers 6. Capacity 7. Capacity Overflow
.....	1.Public 2.Private	3. Intra-Provincial 4. Inter-Provincial	1. Below 20 Seats 2. 20 to 29 Seats 3. 30 to 39 Seats 4. Over 40 Seats	1. Empty 2. Less than 1/2 3. More than 1/2 4. Full No Standers 5. Full with Standers 6. Capacity 7. Capacity Overflow
.....	1.Public 2.Private	5. Intra-Provincial 6. Inter-Provincial	1. Below 20 Seats 2. 20 to 29 Seats 3. 30 to 39 Seats 4. Over 40 Seats	1. Empty 2. Less than 1/2 3. More than 1/2 4. Full No Standers 5. Full with Standers 6. Capacity 7. Capacity Overflow

Roadside OD Passenger Survey Sheet for Passenger Vehicles (1)

Name of Recorder(s)		Survey Station		Date & Day	Direction To:..... From:.....		Time:
Vehicle Type	Occup.	Origin	Type of Origin	Destination	Type of Destination	How many times a week do you usually ride the bus or bus truck?	When you use the bus, is a private vehicle available?
1. Motorcycle	1	1. Village/Town	1. Home	1. Village/Town	5. Home	<input type="checkbox"/> times/week <input type="checkbox"/> times/month <input type="checkbox"/> bus driver	Yes <input type="checkbox"/> No <input type="checkbox"/>
2. Cart	2	.....	2. Work	.....	6. Work
3. Bicycle	3	.....	3. School/Ed	2. District	7. School/Ed.	
4. 3-wheeler	4	2. District	4. Business/Personal	.....	8. Business	
5. Car, Van, Jeep, Taxi	5 <input type="text"/>	5. Social	3. Province	9. Social		
6. Pickup		.....	.....	.....	.....
7. Light Bus		3. Province	.....	.....	.....
8. Bus		.....	.....	.....	.....
9. Bus Truck		.....	.....	.....	.....
10. Farm Vehicle		.....	.....	.....	.....
1. Motorcycle	1	1. Village/Town	1. Home	1. Village/Town	1.Home	<input type="checkbox"/> times/week <input type="checkbox"/> times/month <input type="checkbox"/> bus driver	Yes <input type="checkbox"/> No <input type="checkbox"/>
2. Cart	2	.....	2. Work	.....	2.Work
3. Bicycle	3	.....	3. School/Ed	2. District	3.School/Ed.	
4. 3-wheeler	4	2. District	4. Business/Personal	.....	4.Business	
5. Car, Van, Jeep, Taxi	5 <input type="text"/>	5. Social	3. Province	5.Social		
6. Pickup		.....	.....	.....	.....
7. Light Bus		3. Province	.....	.....	.....
8. Bus		.....	.....	.....	.....
9. Bus Truck		.....	.....	.....	.....
10. Farm Vehicle		.....	.....	.....	.....

Roadside OD Survey Sheet for Goods Vehicles (2)

Name of Recorder(s)		Survey Station	Date & Day	Direction To:..... From:.....		Time:	
Vehicle Type	Occup.	Origin	Destination	Type of Commodity		Load	Capacity
1. Med. Truck (2 axles) 2. Heavy Truck (3 axles) 3. Heavy Truck (4 or more axles)	1 2 3 4 5 <input style="width: 20px; height: 15px;" type="text"/>	4. Village/Town Village/Town 5. District 6. Province	1. Village/Town 2. District 3. Province	1. Processed Food 2. Fish 3. Agri. Products 4. Livestock 5. Forestry Products	6. Industrial Products 7. Fertilizer 8. Construction Materials 9. Petroleum Products 10. Empty Containers	1. Empty 2. 1/4 3. 1/2 4. Full 5. Overloaded	1....liters 2.....tons
1. Med Truck (2 axles) 2. Heavy Truck (3 axles) 3. Heavy Truck (4 or more axles)	1 2 3 4 5 <input style="width: 20px; height: 15px;" type="text"/>	1. Village/Town 2. District 3. Province	1. Village/Town 2. District 3. Province	1. Processed Food 2. Fish 3. Agri. Products 4. Livestock 5. Forestry Products	6. Industrial Products 7. Fertilizer 8. Construction Materials 9. Petroleum Products 10. Empty Containers	1. Empty 2. 1/4 3. 1/2 4. Full 5. Overloaded	1....liters 2.....tons
1. Med Truck (2 axles) 2. Heavy Truck (3 axles) 3. Heavy Truck (4 or more axles)	1 2 3 4 5 <input style="width: 20px; height: 15px;" type="text"/>	1. Village/Town 2. District 3. Province	1. Village/Town 2. District 3. Province	1. Processed Food 2. Fish 3. Agri. Products 4. Livestock 5. Forestry Products	6. Industrial Products 7. Fertilizer 8. Construction Materials 9. Petroleum Products 10. Empty Containers	1. Empty 2. 1/4 3. 1/2 4. Full 5. Overloaded	1....liters 2.....tons

Traffic Volume Survey Sheet (Manual Classified Counts)

Name of Observer(s):													
Location: Rt. No.: Nearest Village/Town: District: Province:													
Direction: To:..... From:.....													
Date:													
Day:													
Weather: Dry Wet Cold Hot													
No. of Lanes/Direction: 1 lane 2 lanes 3 lanes or more lanes (write in no.) <input style="width: 30px; height: 15px;" type="text"/>													
Road Surface: Paved Unpaved Road Surface Condition: Good Fair Poor													
Time	Type of Vehicle												
	Motor -cycle	Cart	Bicycle	3-wheeler	Car & Jeep	Pickup	Light Bus	Bus	Bus Truck	Med. Truck (2 axles)	Heavy Truck (3 axles)	Heavy Truck (4 or more axles)	Farm Vehicle
6:00 – 6:30													
6:30 – 7:00													
7:00 – 7:30													
7:30 – 8:00													
8:00 – 8:30													
8:30 – 9:00													
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16:30 – 17:00													
17:00 – 17:30													
17:30 – 18:00													

- 1.1 Traffic Volume Survey & OD Passenger/
Goods Survey**
- 1.2 Axle-Load Survey**
- 1.3 Travel Speed Survey**

1.1 Traffic Volume Survey & OD Passenger/Goods Survey

Survey Station # 1

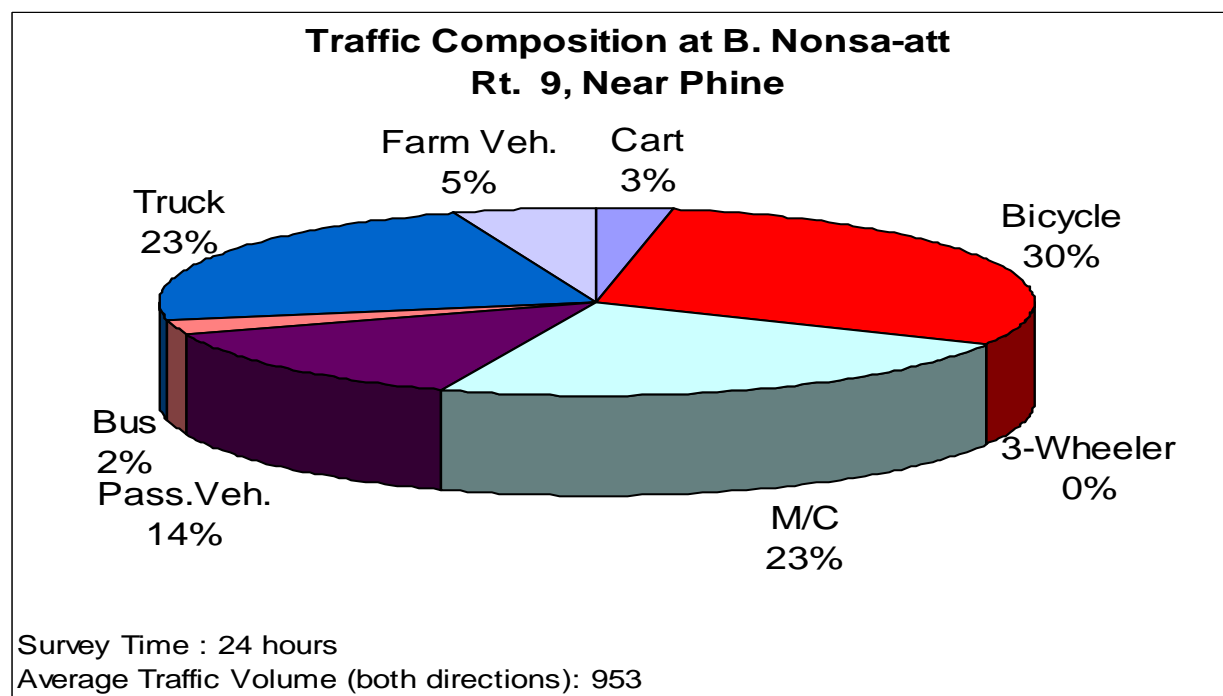
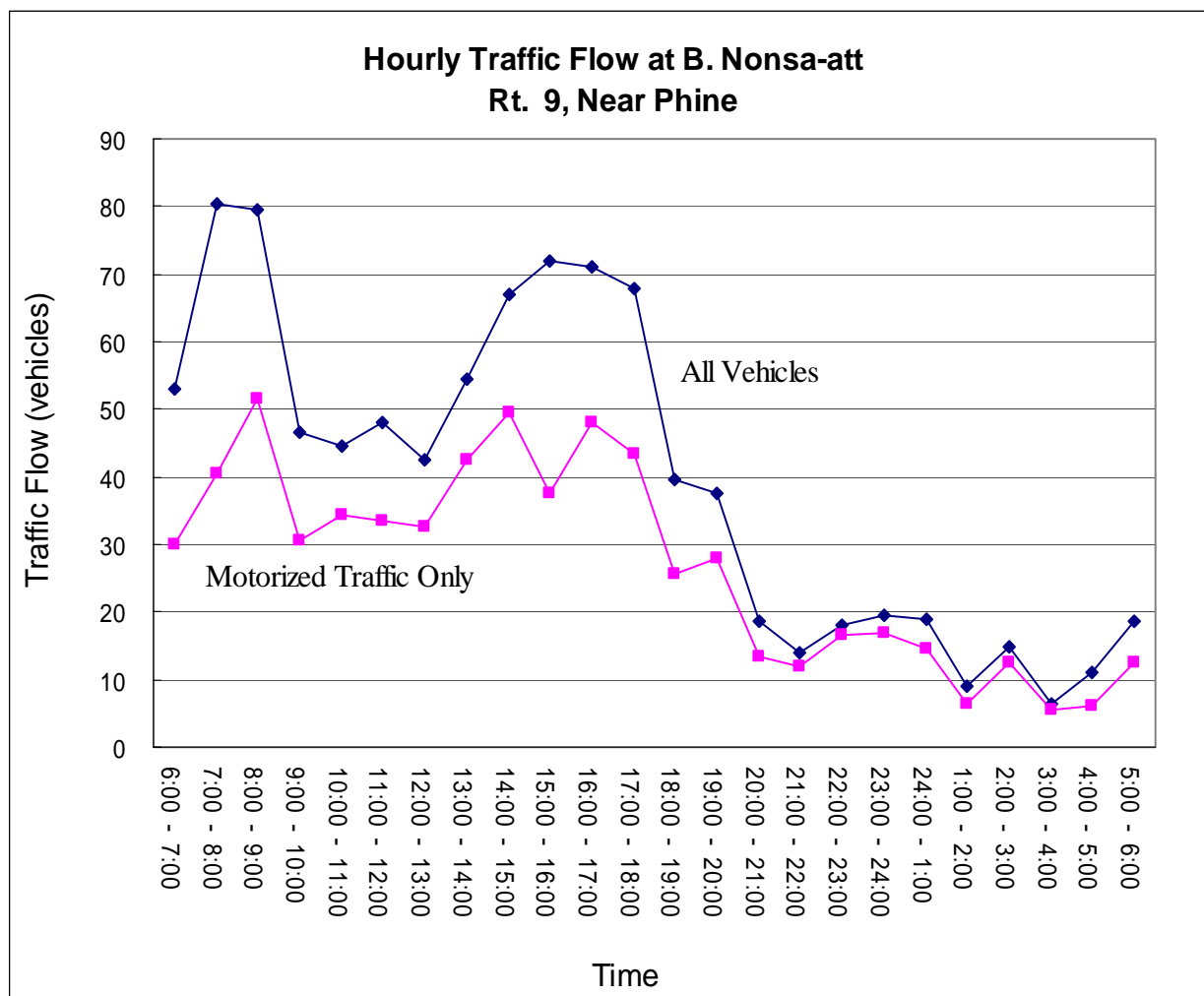


Average 12-hour Traffic Counts at B. Nonsa-att (Rt. 9, Near Phine)

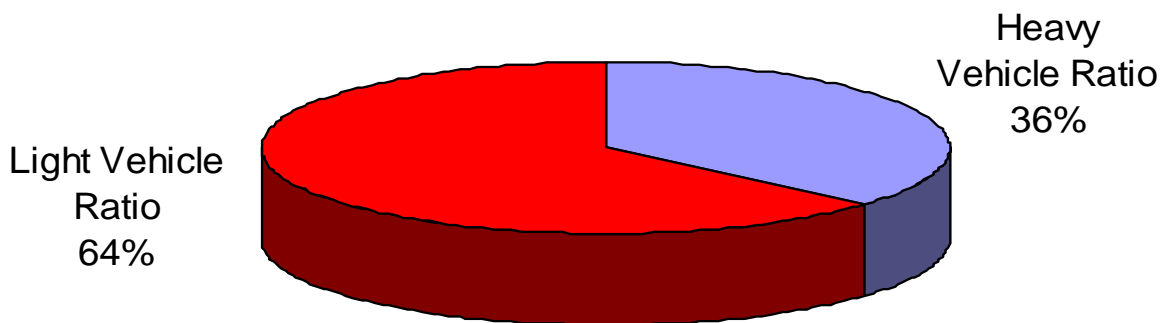
Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average 12-hour Traffic (vehicles)
	Day 1	Day 2	
1. Cart	31	16	24
2. Bicycle	241	218	230
3. 3-wheeler	0	0	0
4. Motorcycle	179	181	180
5. Car & Jeep	39	20	30
6. Pickup	76	82	79
7. Light Bus	4	5	5
8. Bus	13	7	10
9. Bus Truck	1	7	4
10. Light Truck	29	48	39
11. Med. Truck	66	81	74
12. Heavy Truck	10	7	9
13. Farm Vehicle	51	42	47
Grand Total: All Traffic	740	714	727
Motorized Traffic Only	468	480	474

24-hour Traffic Counts & Av. Daily Traffic at B. Nonsa-att (Rt. 9, Near Phine)

Vehicle Type	24-hour Count Totals		Av. 24/12 Hour Traffic (ratio)	Average Daily Traffic (vehicles)
	Day 1	Day 2		
1. Cart	35	20	1.17	28
2. Bicycle	335	228	1.23	282
3. 3-wheeler	0	0	-	0
4. Motorcycle	244	200	1.23	222
5. Car & Jeep	42	21	1.07	32
6. Pickup	102	99	1.27	101
7. Light Bus	6	5	1.22	6
8. Bus	16	7	1.15	12
9. Bus Truck	1	9	1.25	5
10. Light Truck	48	82	1.69	65
11. Med. Truck	111	144	1.73	128
12. Heavy Truck	24	26	2.94	25
13. Farm Vehicle	52	49	1.09	51
Grand Total: All Traffic	1016	890	-	953
Motorized Traffic Only	646	642	-	644

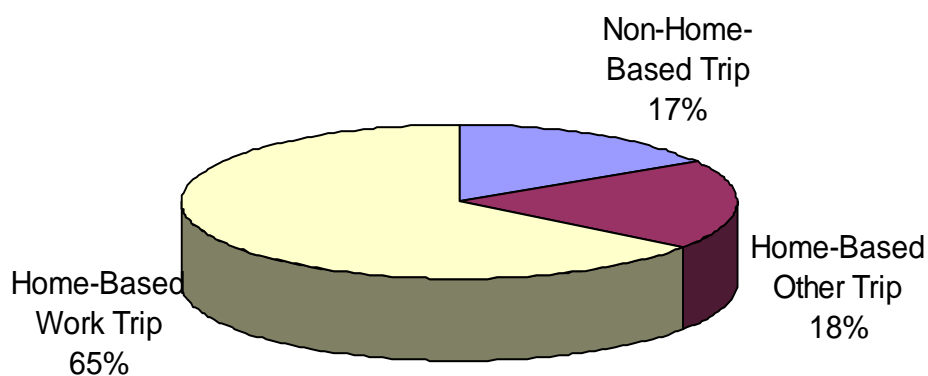


Heavy Vehicle Ratio at B. Nonsa-att Rt. 9, Near Phine



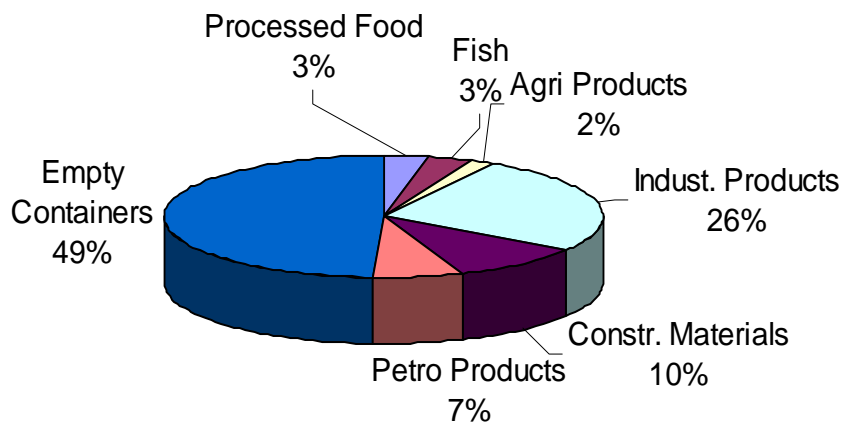
Survey Time : 24hours
Average Traffic Volume (both directions): 953

Vehicle Trip Composition at B. Nonsa-att (Rt. 9, Near Phine)



Survey Time: 12 hours (6 am-6 pm)
Total No. of Passenger Veh.: 1016
Sampling Rate: 10.7%

**Commodities Carried by Goods Vehicles B. Nonsa-att
Rt. 9, Near Phine**



Survey Time: 12 hours (6 am - 6 pm)
Total No. of Goods Vehicles: 105
Sampling Rate: 58.1%

Survey Station # 2

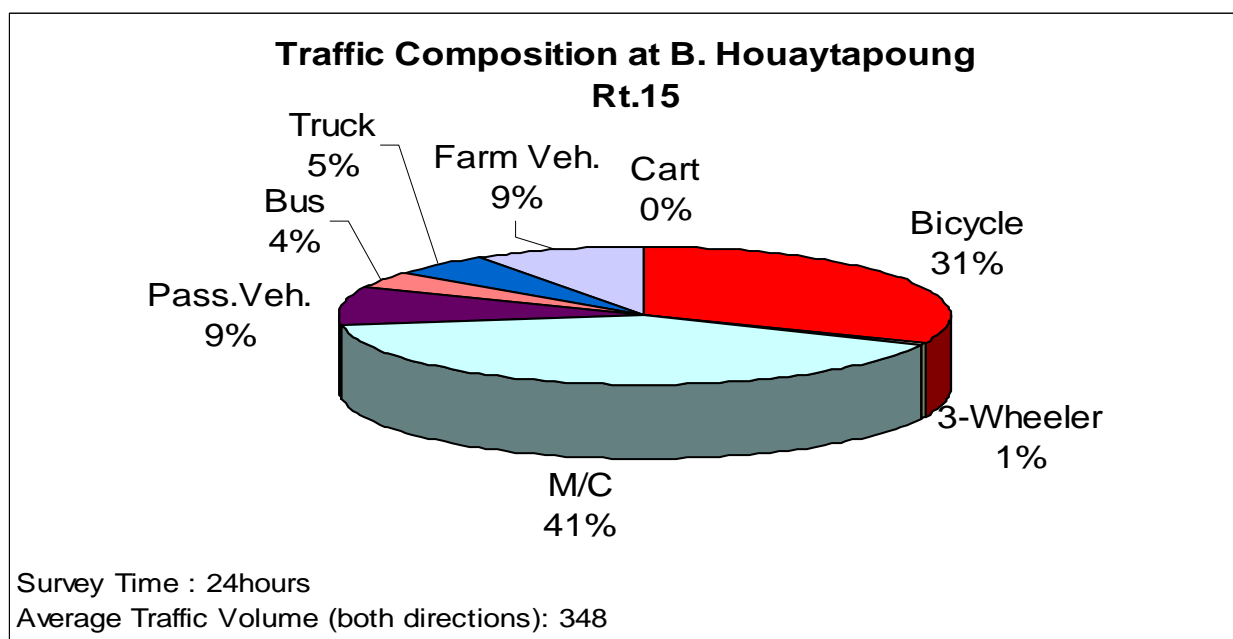
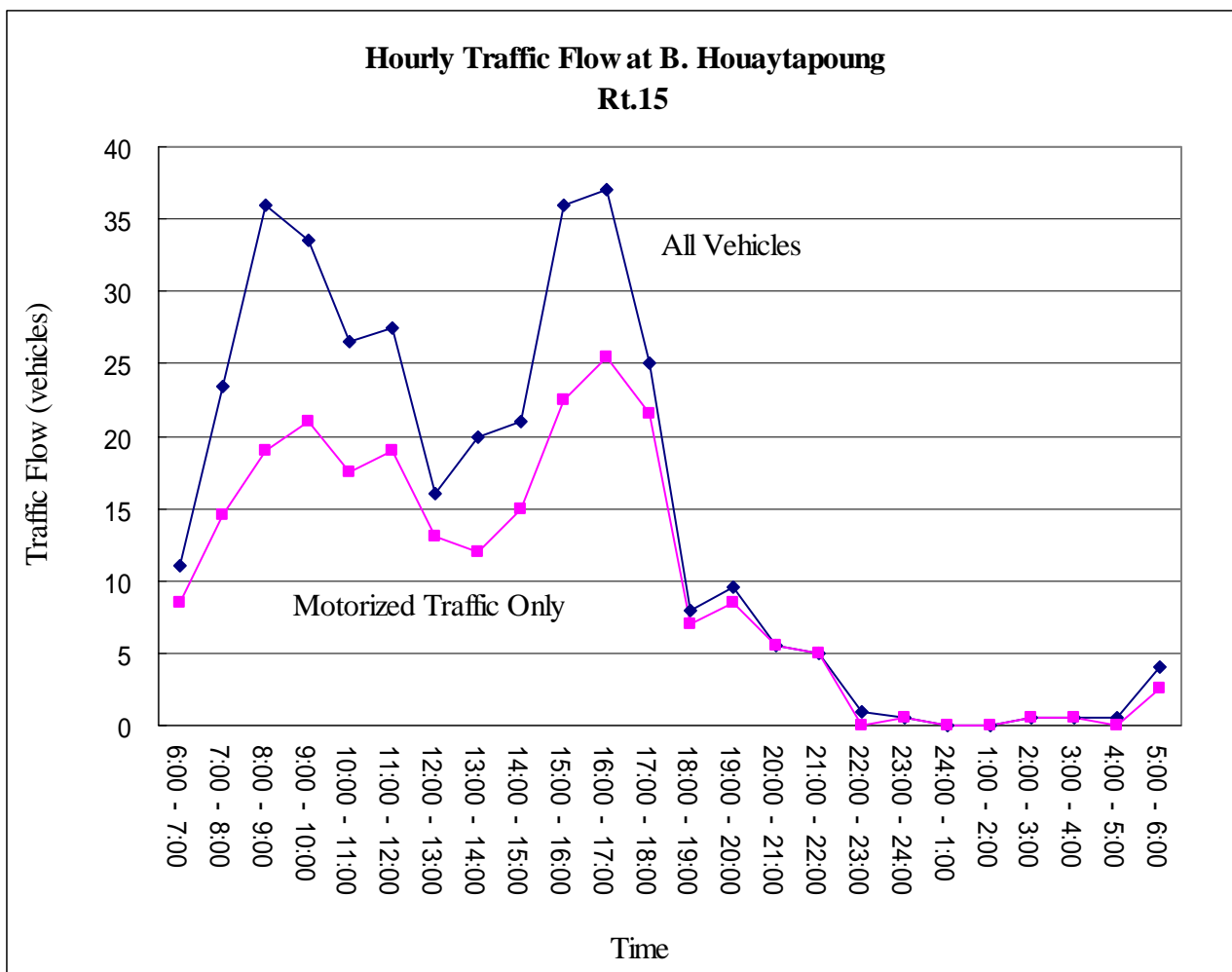


Average 12-hour Traffic Counts at B. Houaytapoung Rt.15

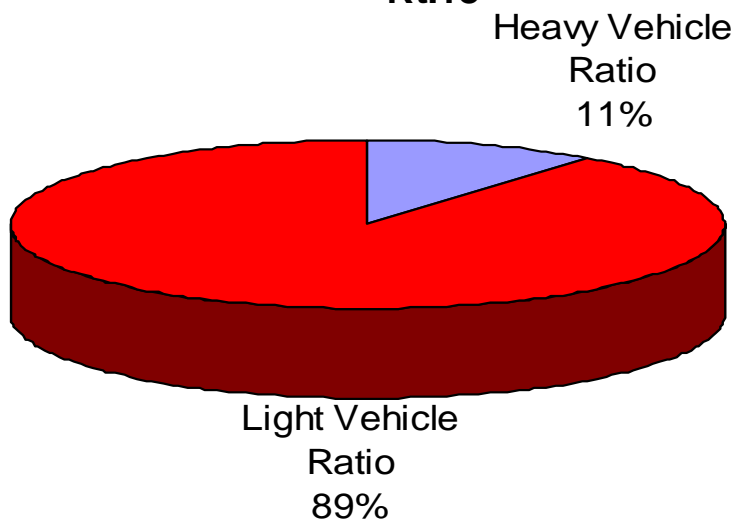
Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	0	0
2. Bicycle	86	122	104
3. 3-wheeler	3	0	2
4. Motorcycle	132	125	129
5. Car & Jeep	4	5	5
6. Pickup	27	15	21
7. Light Bus	10	2	6
8. Bus	3	0	2
9. Bus Truck	2	9	6
10. Light Truck	11	11	11
11. Med. Truck	1	0	1
12. Heavy Truck	0	0	0
13. Farm Vehicle	36	22	29
Grand Total:			
All Traffic	315	311	313
Motorized Traffic Only	229	189	209

24-hour Traffic Counts & Av. Daily Traffic at B. Houaytapoung Rt.15

Vehicle Type	24-hour Count Totals		Av. 24/12 Hour Traffic (ratio)	Average Daily Traffic (vehicles)
	Day 1	Day 2		
1. Cart	0	0	-	0
2. Bicycle	91	127	1.05	109
3. 3-wheeler	3	1	1.33	2
4. Motorcycle	143	142	1.11	143
5. Car & Jeep	4	6	1.11	5
6. Pickup	32	19	1.21	26
7. Light Bus	11	3	1.17	7
8. Bus	3	0	1.00	2
9. Bus Truck	2	10	1.09	6
10. Light Truck	19	16	1.59	18
11. Med. Truck	1	0	1.00	1
12. Heavy Truck	0	0	-	0
13. Farm Vehicle	39	24	1.09	32
Grand Total:				
All Traffic	348	348	-	348
Motorized Traffic Only	257	221	-	239

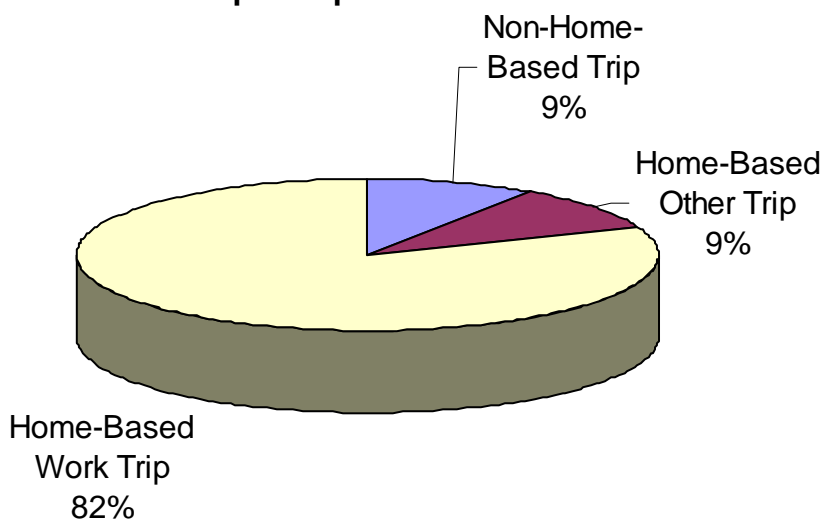


Heavy Vehicle Ratio at B. Houaytapoung Rt.15



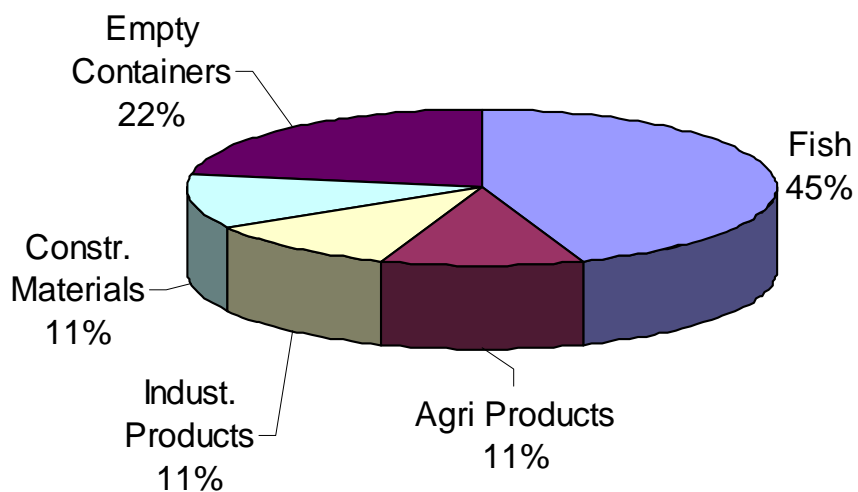
Survey Time : 24hours
Average Traffic Volume (both directions): 348

Vehicle Trip Composition



Survey Time: 12 hours (6 am - 6pm)
Total No. of Passenger Veh: 348
Sampling Rate: 42.8%

**Commodities Carried by Goods Vehicles B. Houaytapoung
Rt.15**



Survey Time: 12 hours (6 am - 6 pm)
Total No. of Goods Vehicles: 12
Sampling Rate: 75.0%

Survey Station # 3

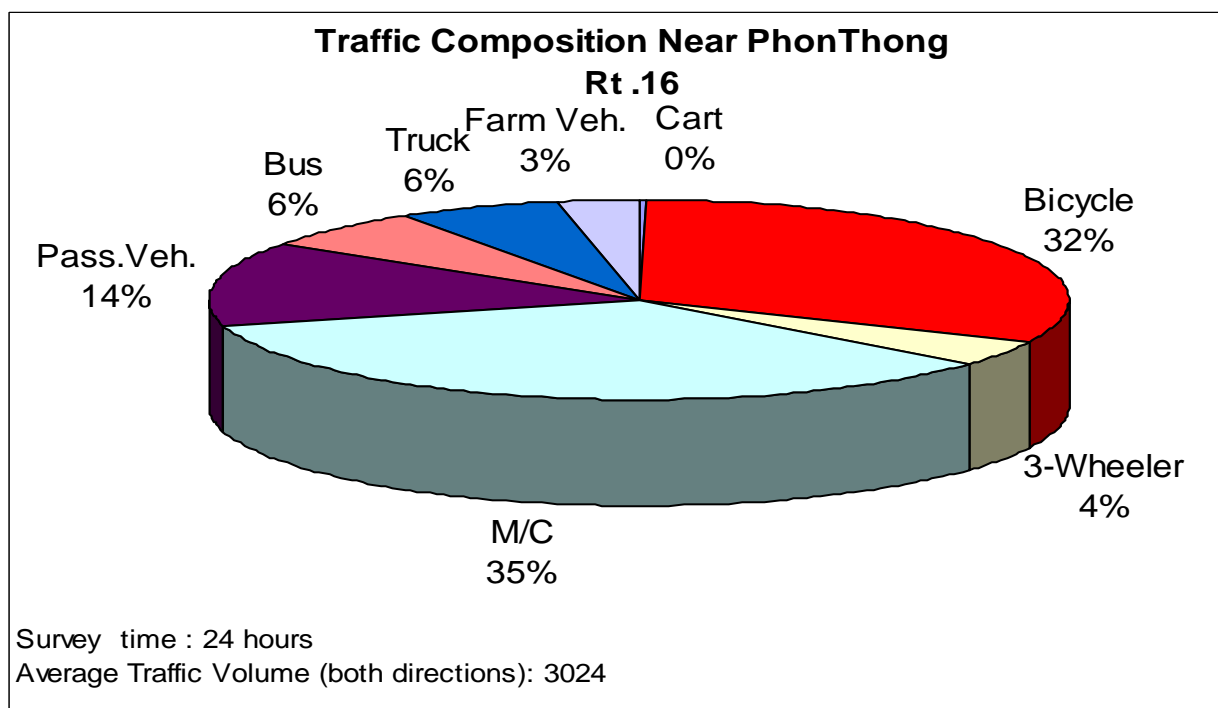
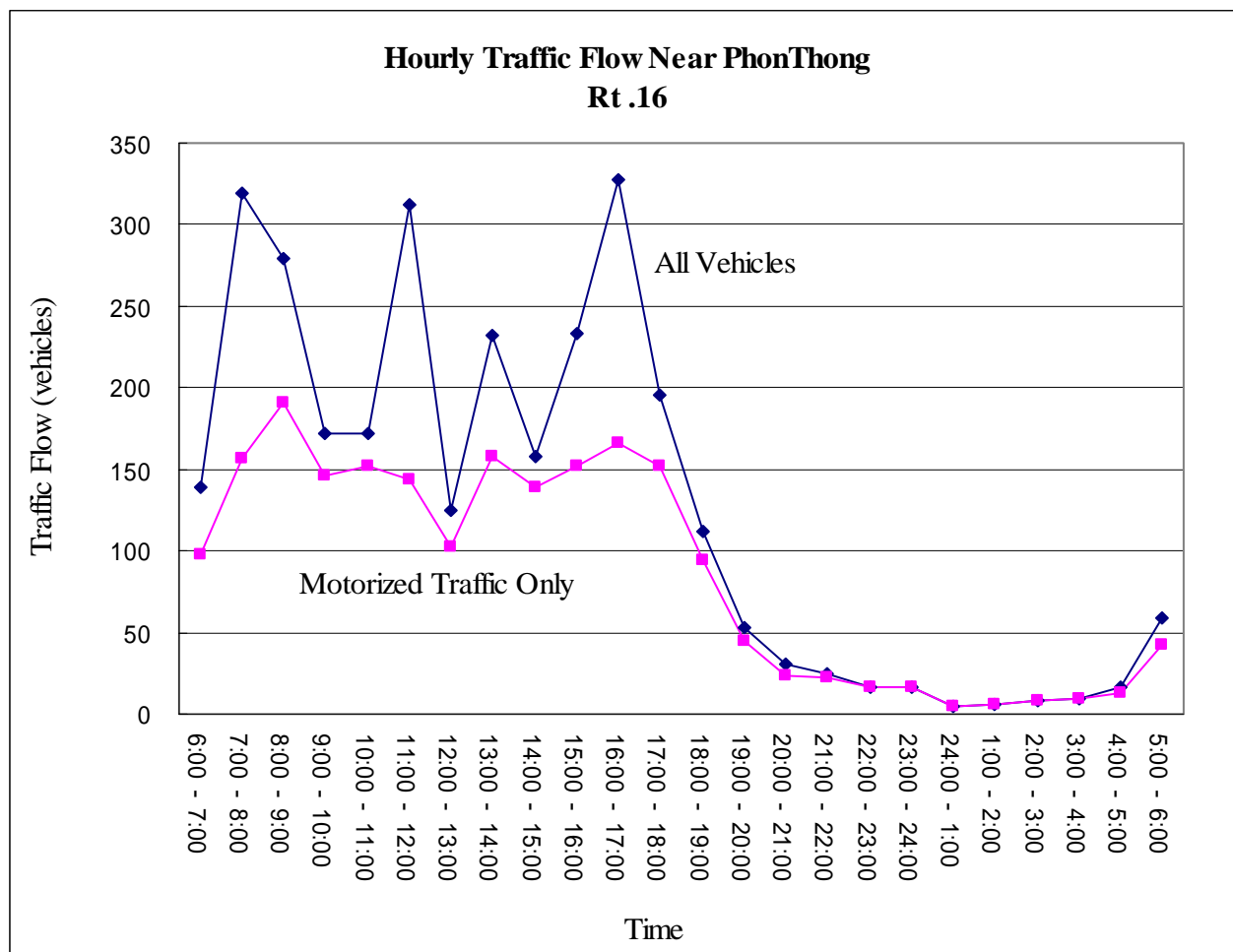


Average 12-hour Traffic Counts Near Phonthong Rt .16

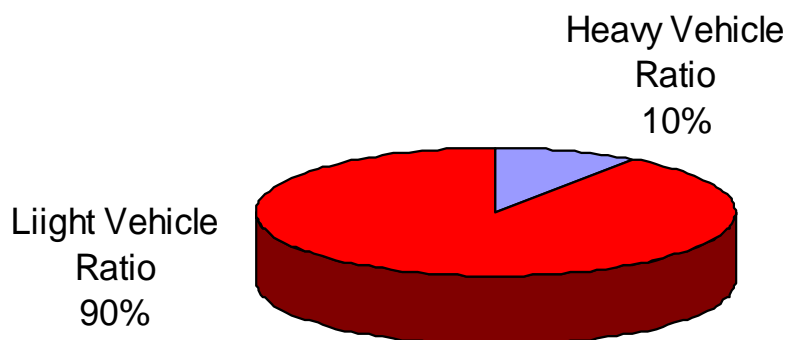
Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	8	1	5
2. Bicycle	967	841	904
3. 3-wheeler	83	138	111
4. Motorcycle	869	894	882
5. Car & Jeep	118	161	140
6. Pickup	190	238	214
7. Light Bus	161	159	160
8. Bus	3	12	8
9. Bus Truck	2	9	6
10. Light Truck	57	54	56
11. Med. Truck	32	102	67
12. Heavy Truck	16	48	32
13. Farm Vehicle	61	108	85
Grand Total: All Traffic	2567	2765	2666
Motorized Traffic Only	1592	1923	1758

24-hour Traffic Counts & Av. Daily Traffic Near Phonthong Rt .16

Vehicle Type	24-hour Count Totals		Av. 24/12 Hour Traffic (ratio)	Average Daily Traffic (vehicles)
	Day 1	Day 2		
1. Cart	9	4	1.44	7
2. Bicycle	1017	899	1.06	958
3. 3-wheeler	94	154	1.12	124
4. Motorcycle	968	1146	1.20	1057
5. Car & Jeep	127	195	1.15	161
6. Pickup	202	298	1.17	250
7. Light Bus	176	175	1.10	176
8. Bus	3	12	1.00	8
9. Bus Truck	4	10	1.27	7
10. Light Truck	69	61	1.17	65
11. Med. Truck	46	113	1.19	80
12. Heavy Truck	19	58	1.20	39
13. Farm Vehicle	73	116	1.12	95
Grand Total: All Traffic	2807	3241	-	3024
Motorized Traffic Only	1781	2338	-	2060

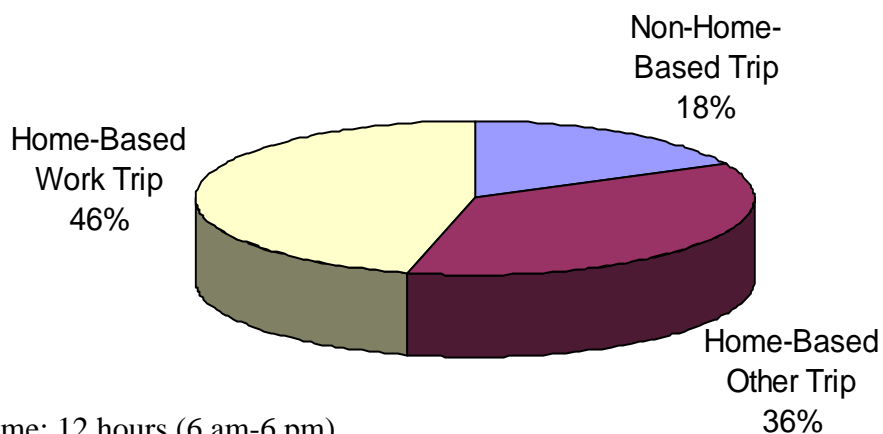


Heavy Vehicle Ratio Near PhonThong Rt .16



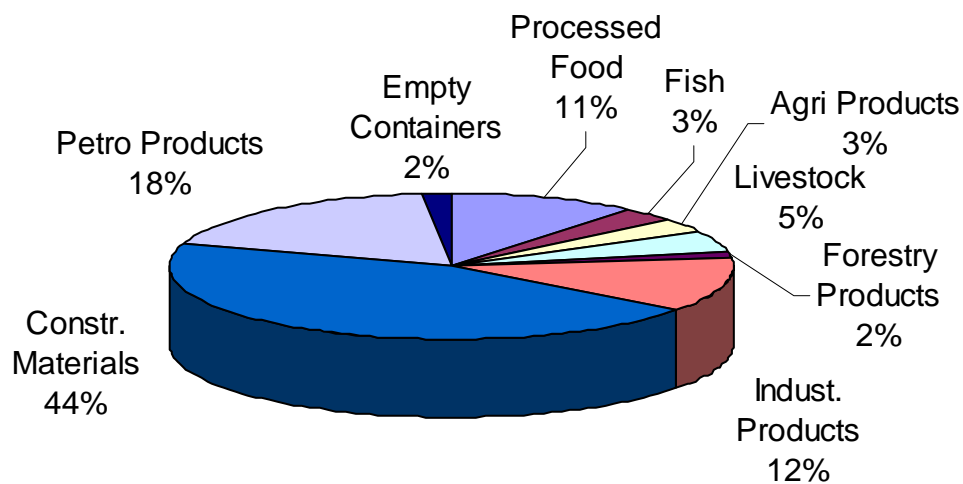
Survey time : 24 hours
Average Traffic Volume (both directions): 3024

Vehicle Trip Composition Near PhonThong Rt .16



Survey Time: 12 hours (6 am-6 pm)
Total No. of Passenger Veh.:2807
Sampling Rate: 12.9%

Commodities Carried by Goods Vehicles Near PhonThong Rt .16



Survey Time: 12 hours (6 am - 6 pm)

Total No. of Goods Vehicles: 105

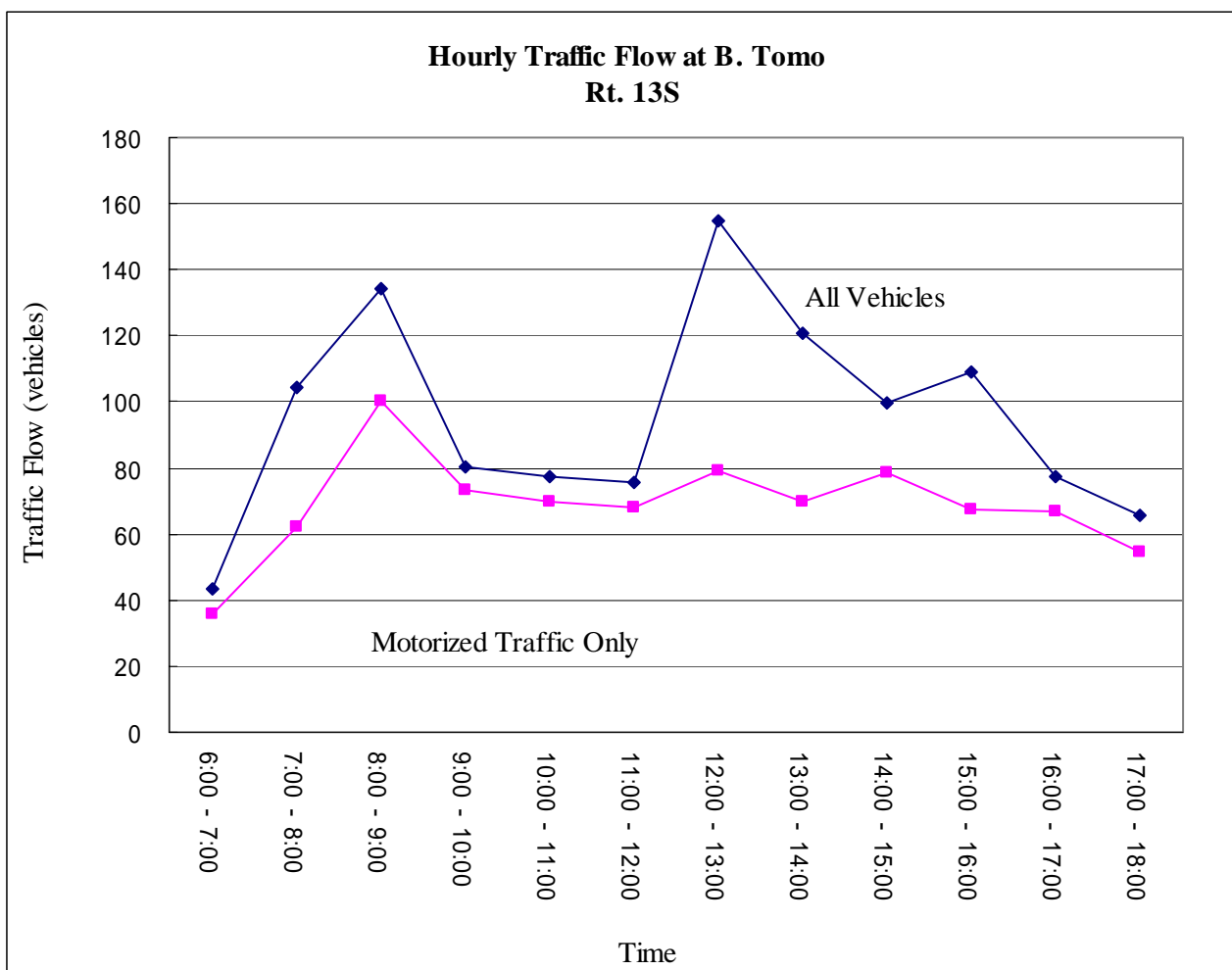
Sampling Rate: 61.9%

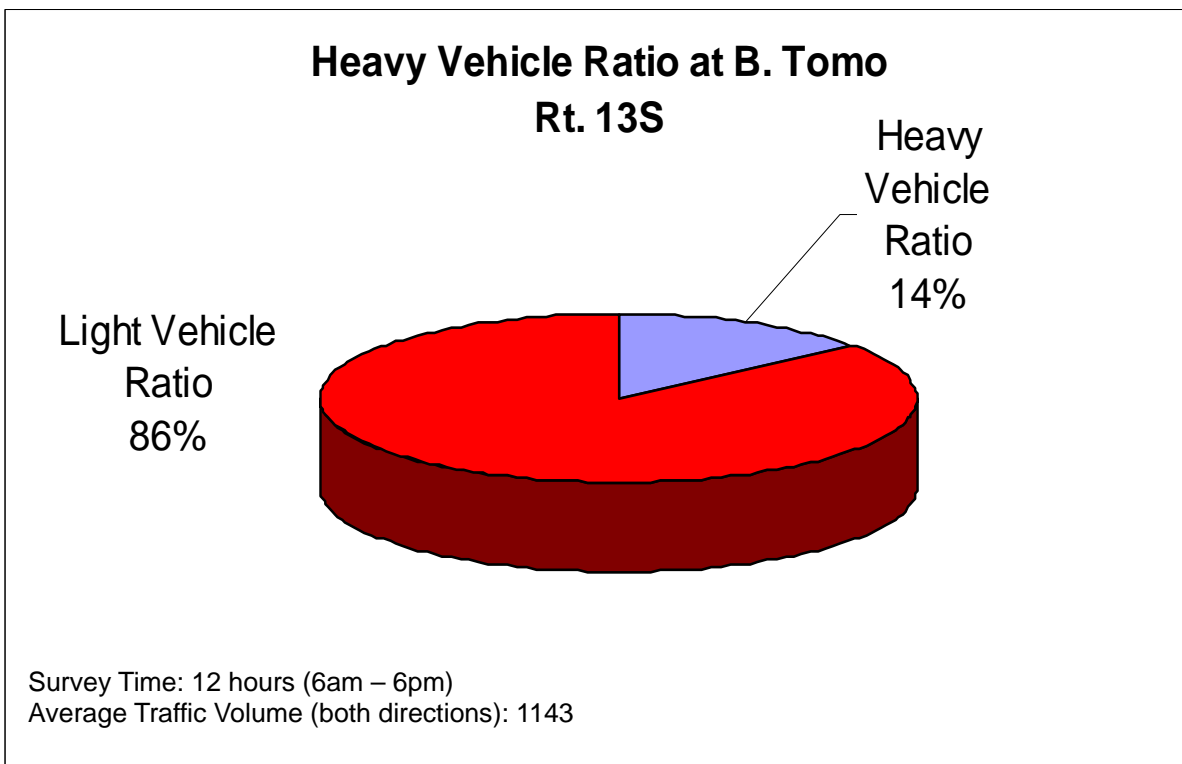
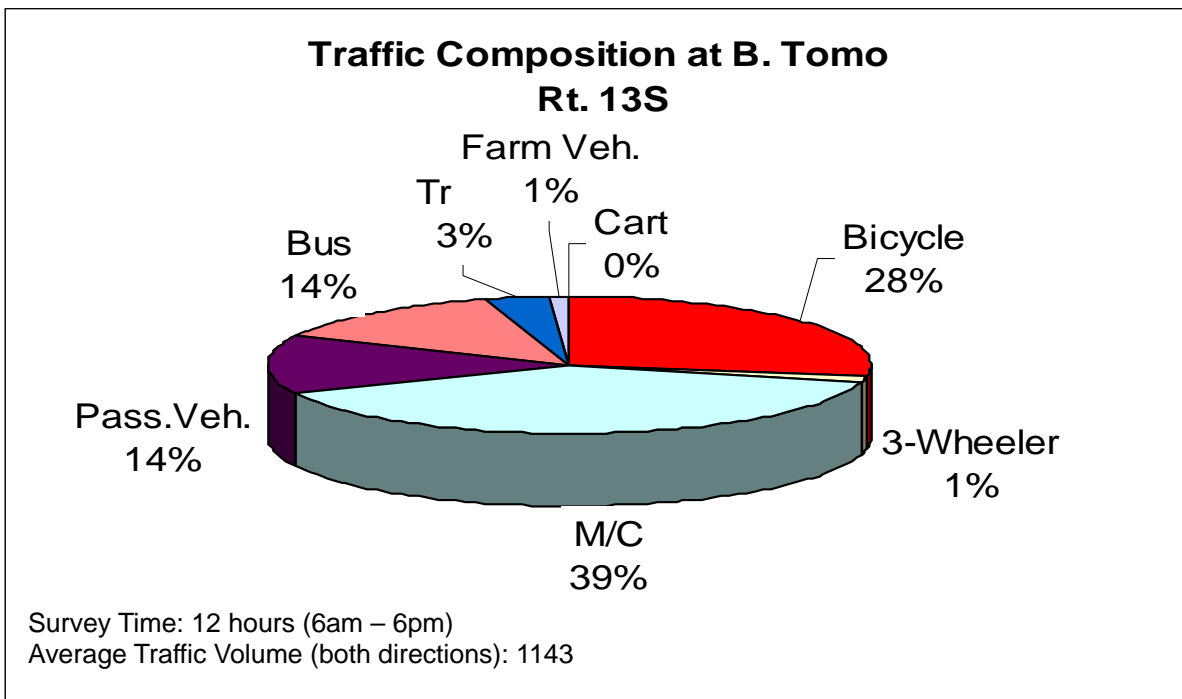
Survey Station # 4



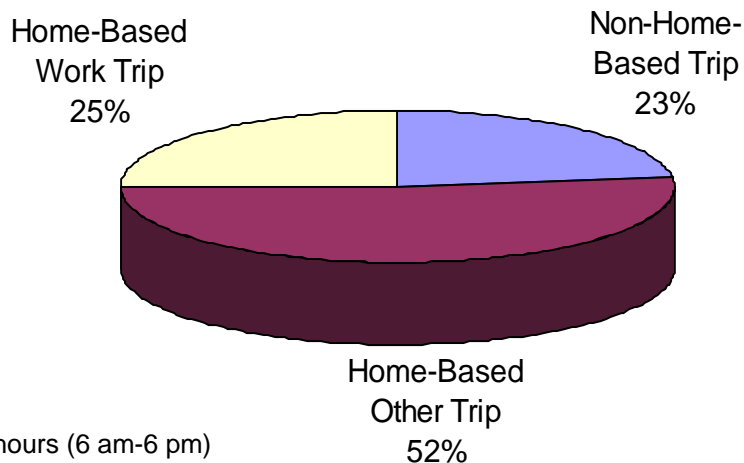
Average 12-hour Traffic Counts at B. Tomo Rt. 13S

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	0	0
2. Bicycle	237	398	318
3. 3-wheeler	24	5	15
4. Motorcycle	421	467	444
5. Car & Jeep	50	40	45
6. Pickup	115	113	114
7. Light Bus	112	84	98
8. Bus	58	27	43
9. Bus Truck	21	11	16
10. Light Truck	15	39	27
11. Med. Truck	5	14	10
12. Heavy Truck	1	0	1
13. Farm Vehicle	11	17	14
Grand Total: All Traffic	1070	1215	1143
Motorized Traffic Only	833	817	825



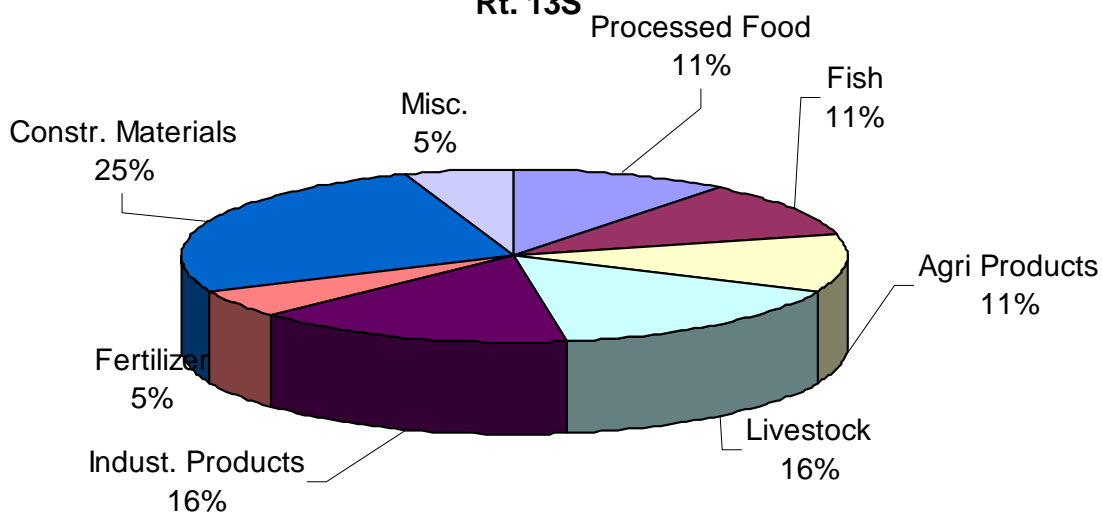


Vehicle Trip Composition at B. Tomo Rt. 13S



Survey Time: 12 hours (6 am-6 pm)
 Total No. of Passenger Veh.:1070
 Sampling Rate: 21.9%

Commodities Carried by Goods Vehicles at B. Tomo Rt. 13S



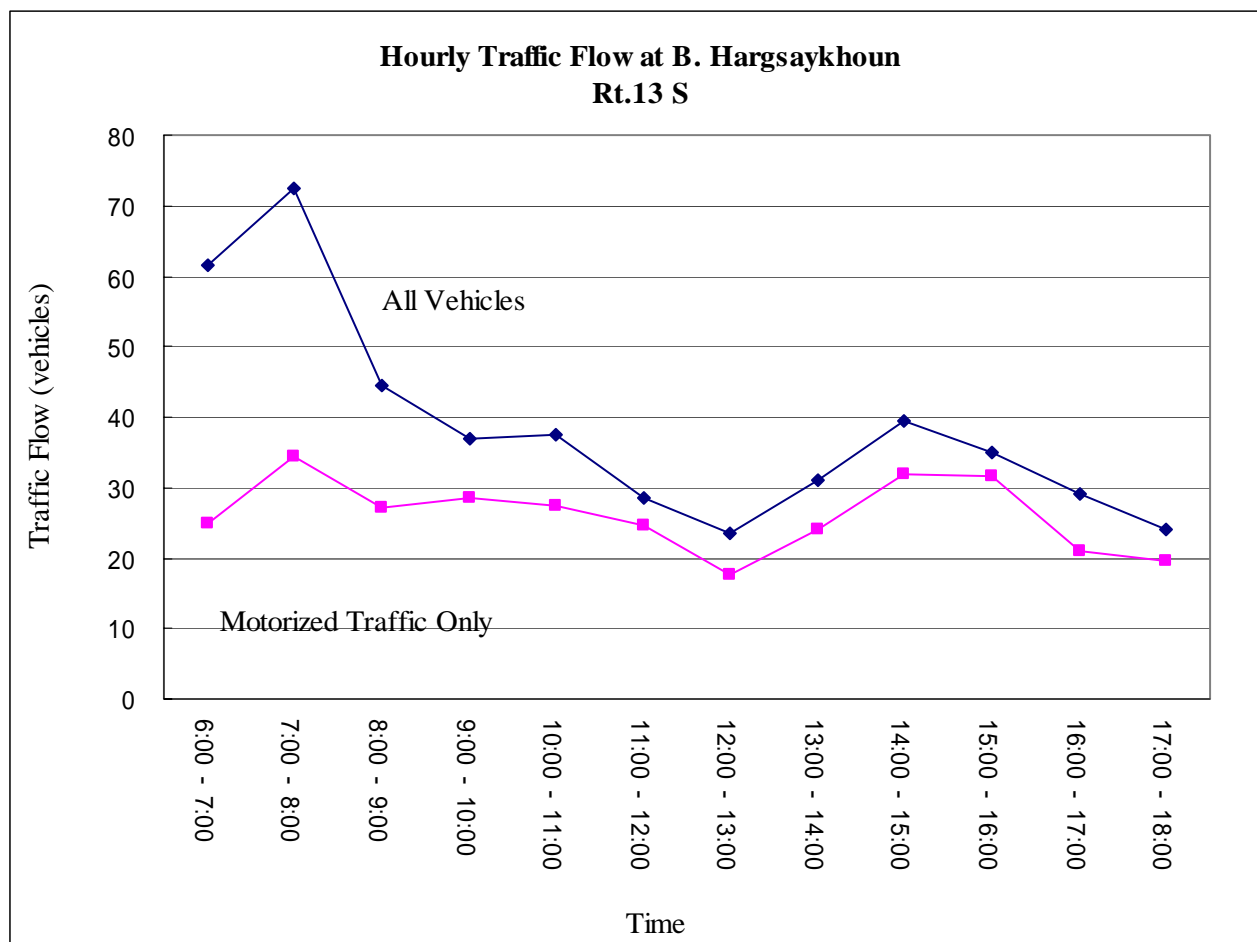
Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Goods Vehicles: 21
 Sampling Rate: 90.5%

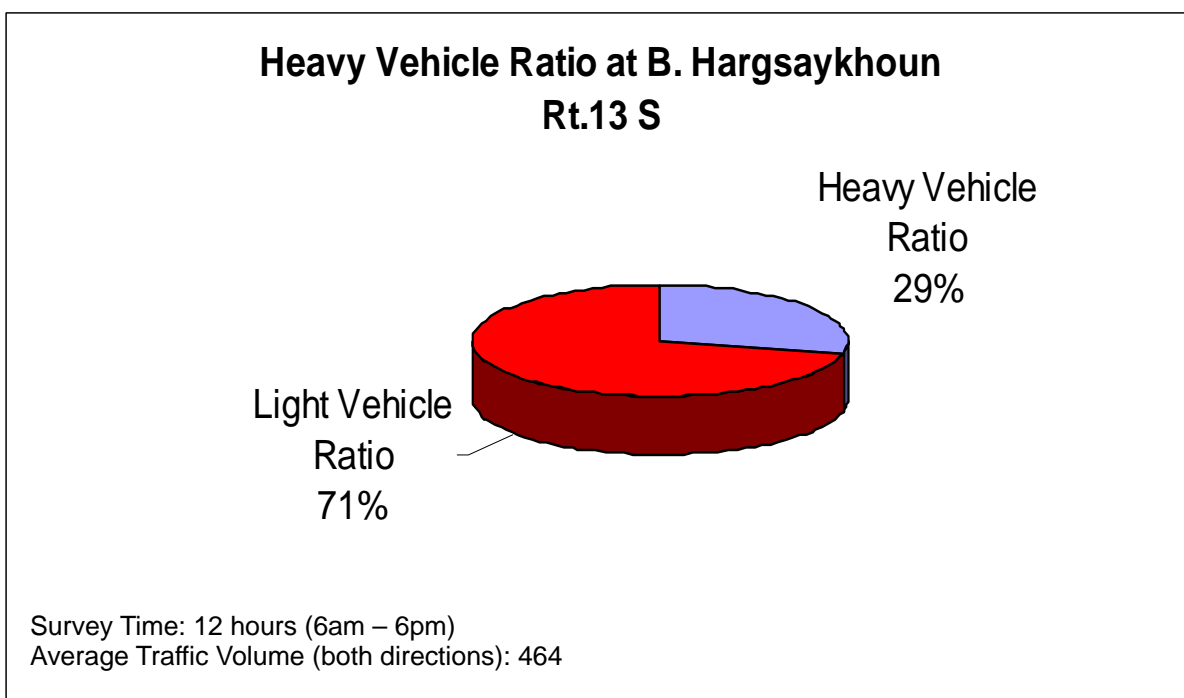
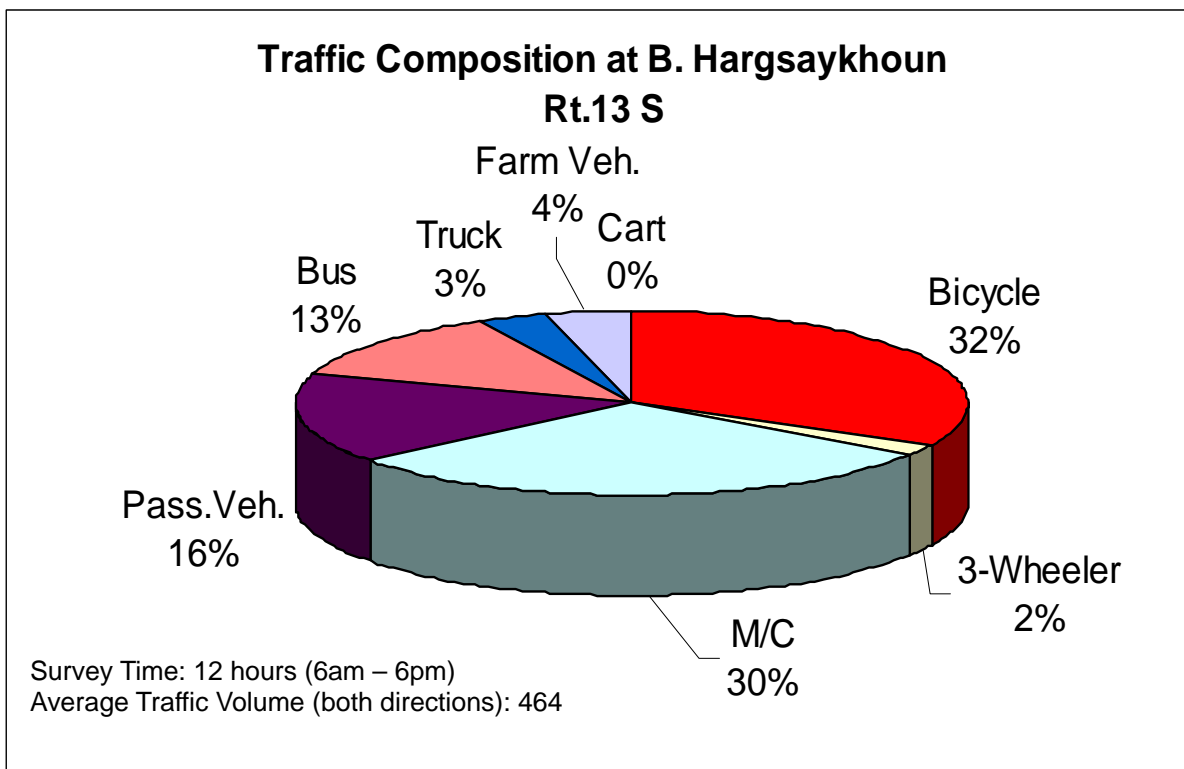
Survey Station # 5



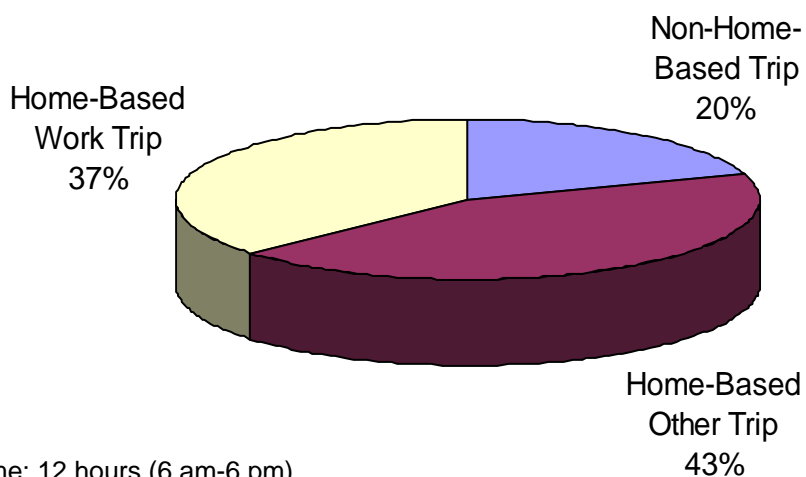
Average 12-hour Traffic Counts at B. Hargsaykhoun t.13 S

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	0	0
2. Bicycle	178	124	151
3. 3-wheeler	7	10	9
4. Motorcycle	144	131	138
5. Car & Jeep	25	23	24
6. Pickup	57	43	50
7. Light Bus	28	28	28
8. Bus	25	27	26
9. Bus Truck	4	4	4
10. Light Truck	12	14	13
11. Med. Truck	1	3	2
12. Heavy Truck	0	0	0
13. Farm Vehicle	21	18	20
Grand Total:			
All Traffic	502	425	464
Motorized Traffic Only	324	301	313



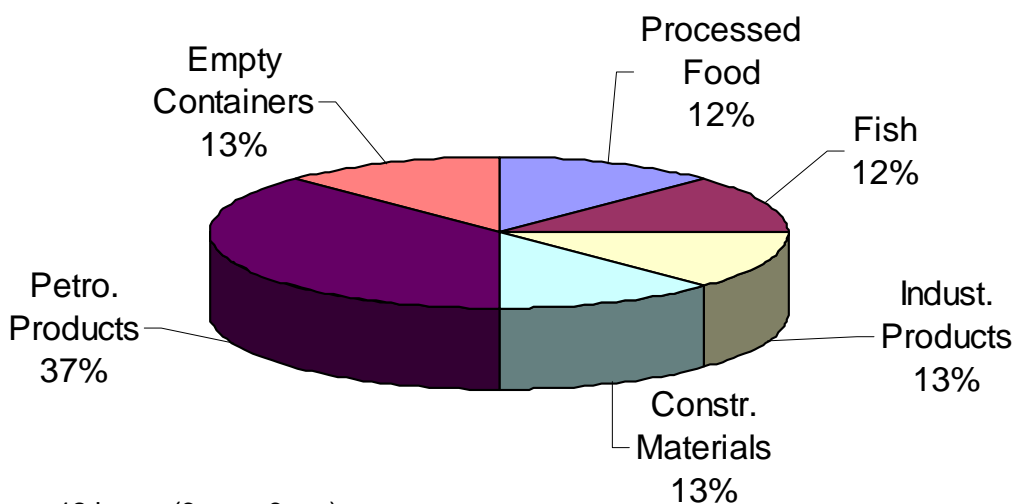


Vehicle Trip Composition at B. Hargsaykhoun t.13 S



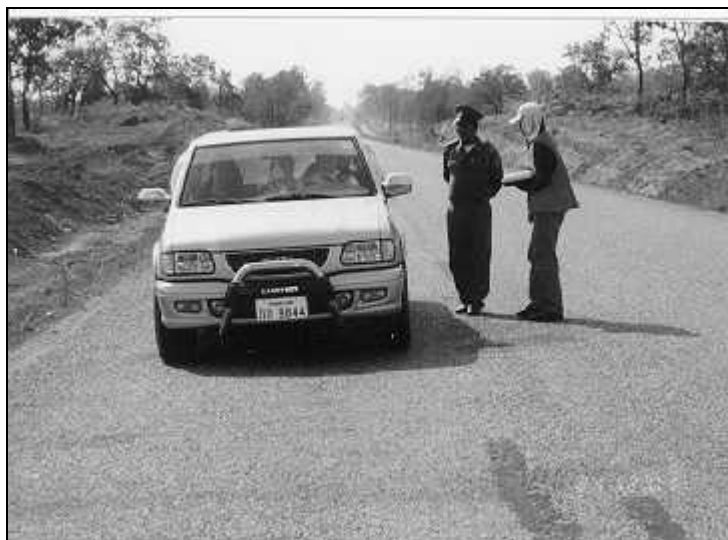
Survey Time: 12 hours (6 am-6 pm)
 Total No. of Passenger Veh.: 502
 Sampling Rate: 33.7%

Commodities Carried by Goods Vehicles at B. Hargsaykhoun Rt.13 S



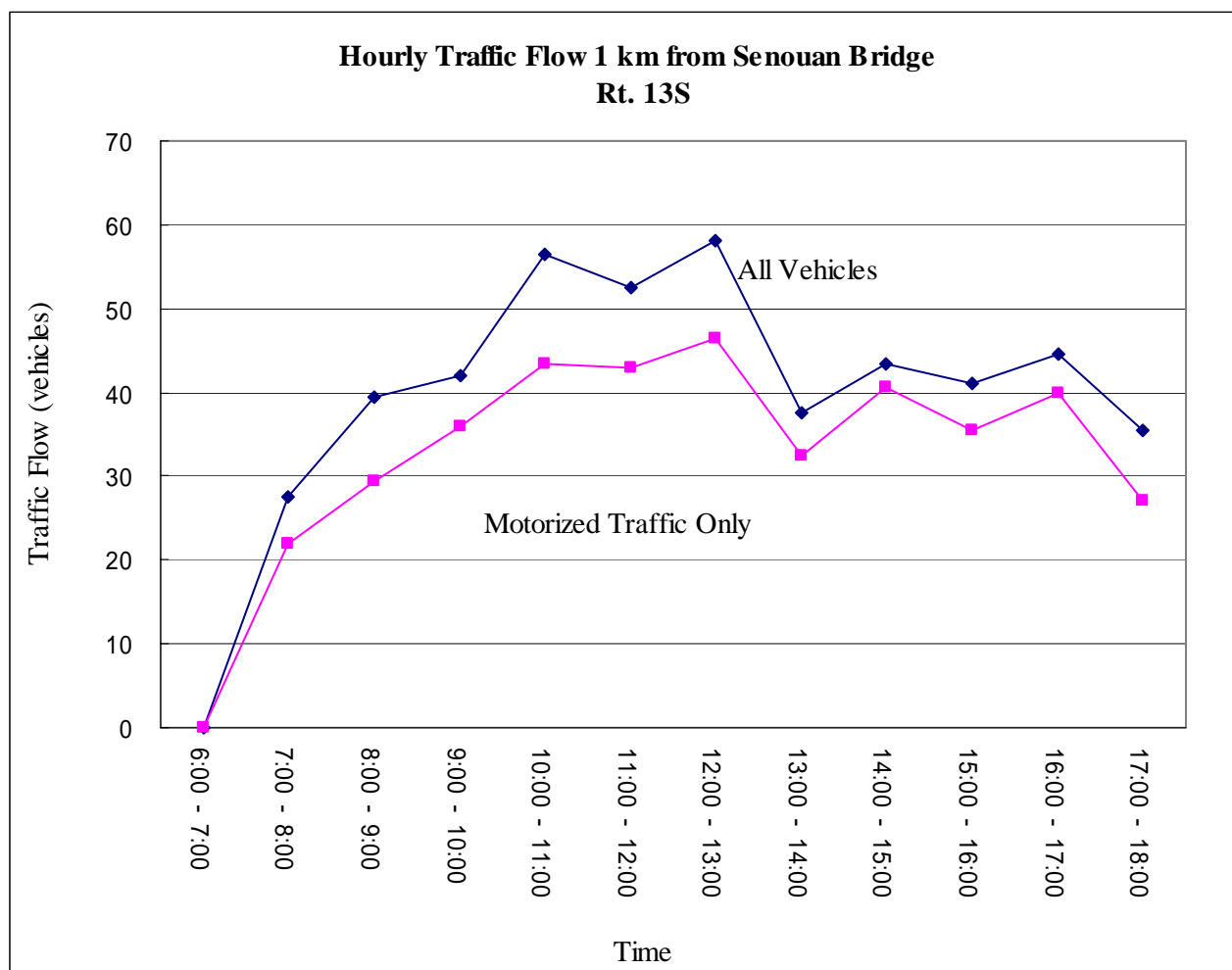
Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Goods Vehicles: 13
 Sampling Rate: 61.5%

Survey Station # 6

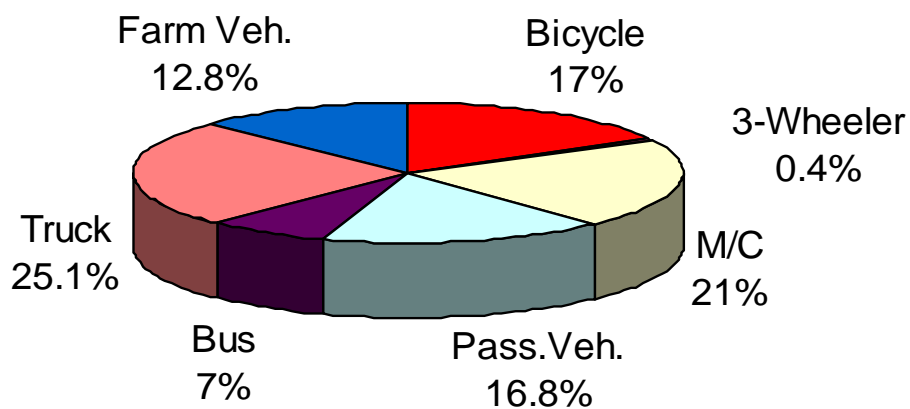


Average 12-hour Traffic Counts 1 km from Senouan Bridge Rt. 13S

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	3	2
2. Bicycle	103	66	85
3. 3-wheeler	4	0	2
4. Motorcycle	108	97	103
5. Car & Jeep	38	21	30
6. Pickup	63	45	54
7. Light Bus	18	12	15
8. Bus	17	18	18
9. Bus Truck	6	1	4
10. Light Truck	59	54	57
11. Med. Truck	96	30	63
12. Heavy Truck	4	6	5
13. Farm Vehicle	81	46	64
Grand Total:			
All Traffic	597	399	498
Motorized Traffic Only	494	330	412

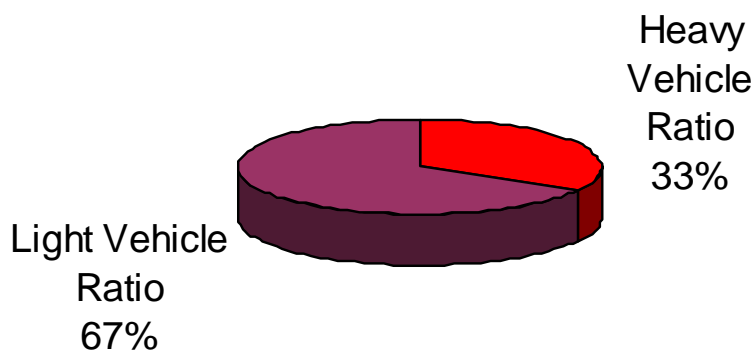


Traffic Composition 1 km from Senouan Bridge Rt. 13S



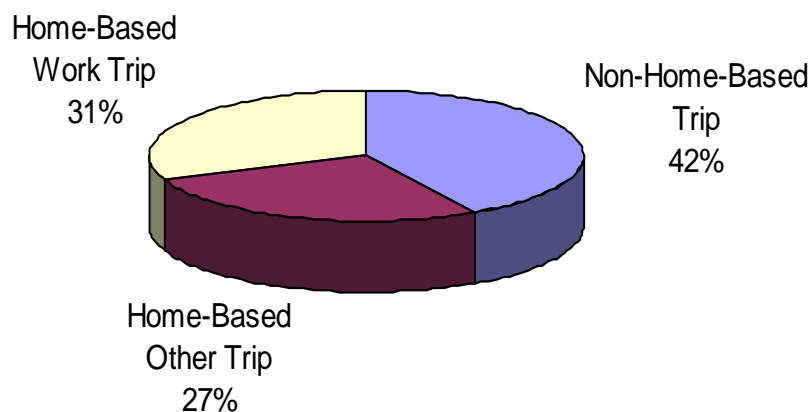
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 498

Heavy Vehicle Ratio 1 km from Senouan Bridge Rt. 13S



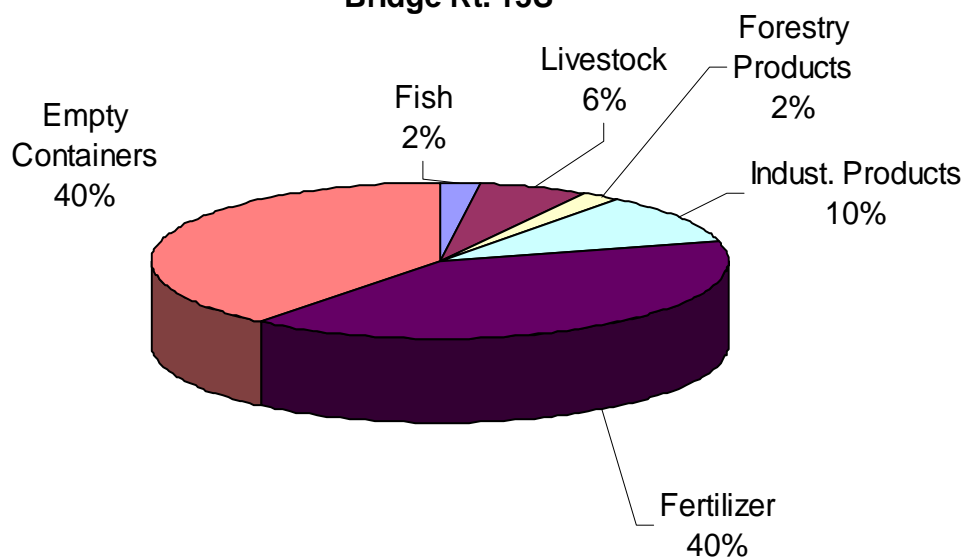
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 498

Vehicle Trip Composition



Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Passenger veh.: 399
 Sampling Rate: 57.9%

Commodities Carried by Goods Vehicles, 1 km from Senouan Bridge Rt. 13S



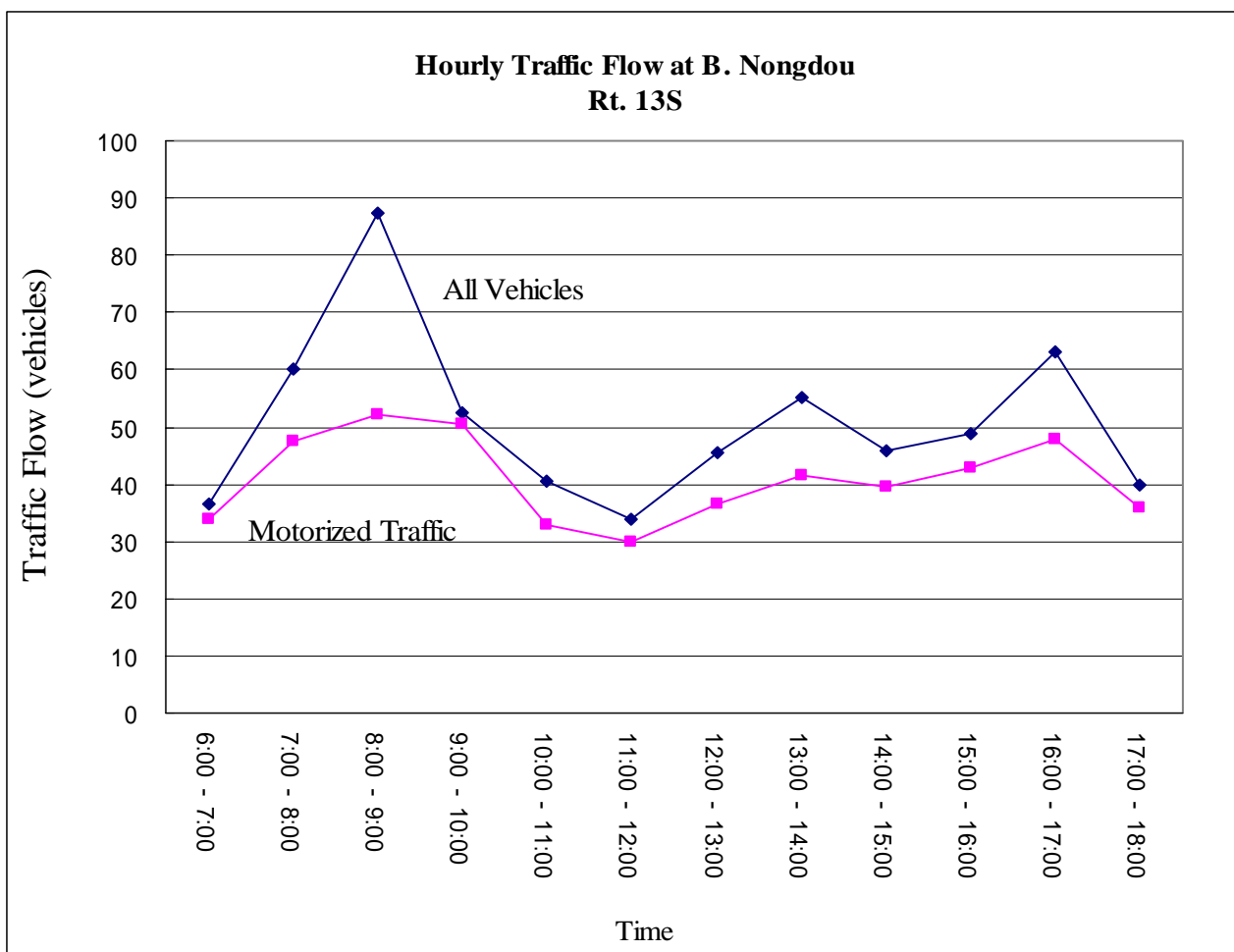
Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Goods Vehicles: 90
 Sampling Rate: 53.3%

Survey Station # 7

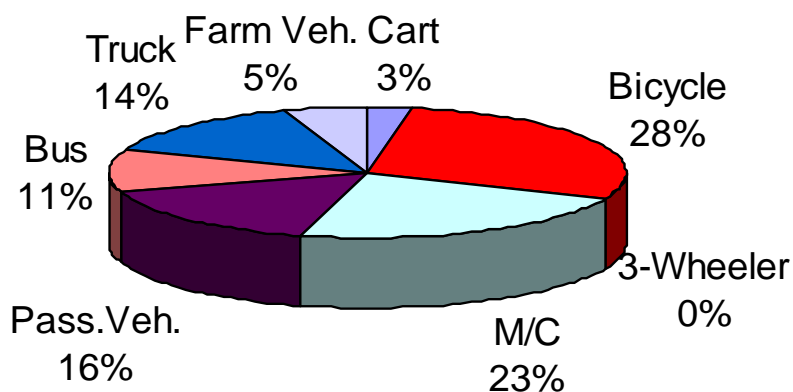


Average 12-hour Traffic Counts at B. Nongdou Rt. 13S

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	0	0
2. Bicycle	55	181	118
3. 3-wheeler	7	10	9
4. Motorcycle	131	261	196
5. Car & Jeep	29	41	35
6. Pickup	67	60	64
7. Light Bus	37	44	41
8. Bus	16	23	20
9. Bus Truck	10	7	9
10. Light Truck	34	51	43
11. Med. Truck	43	29	36
12. Heavy Truck	10	9	10
13. Farm Vehicle	26	38	32
Grand Total:			
All Traffic	465	754	610
Motorized Traffic Only	410	573	492

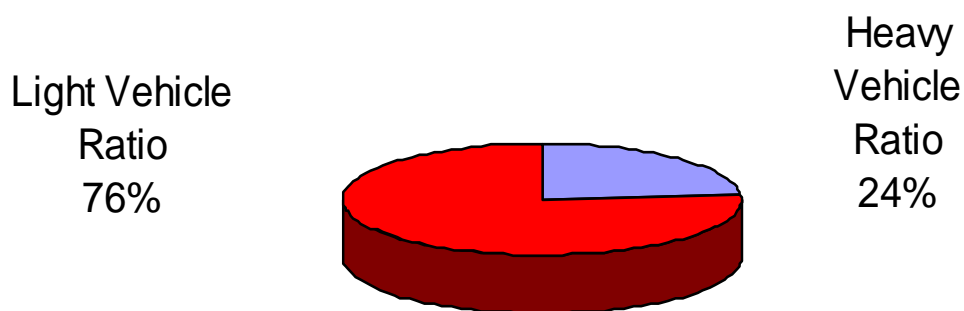


**Traffic Composition at B. Nongdou
Rt. 13S**



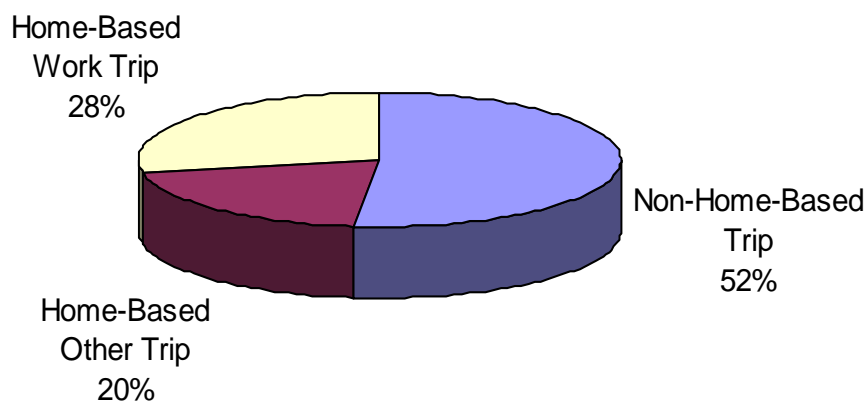
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 610

**Heavy Vehicle Ratio at B. Nongdou
Rt. 13S**



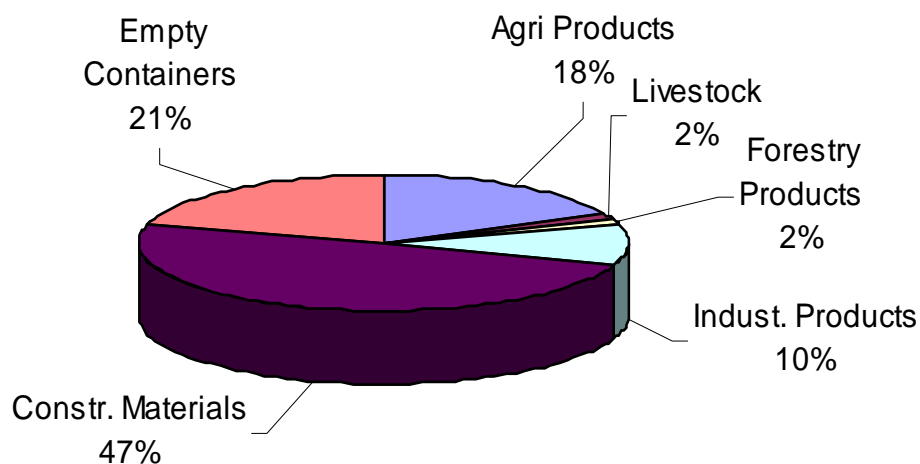
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 610

Vehicle Trip Composition



Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Passenger veh.: 465
 Sampling Rate: 48.6%

**Commodities Carried by Goods Vehiclesm at B. Nongdou
 Rt. 13S**



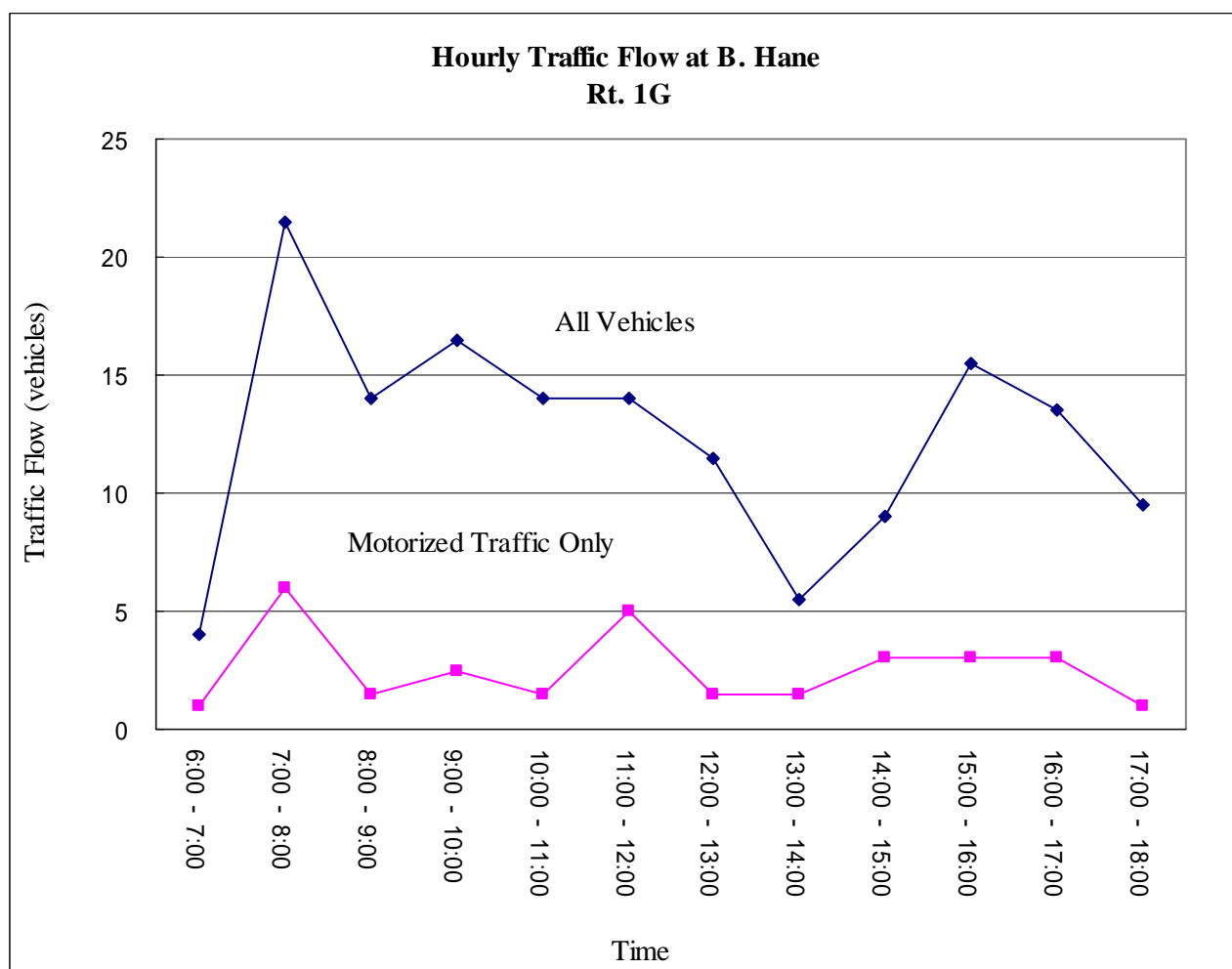
Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Goods Vehicles: 87
 Sampling Rate: 71.3%

Survey Station # 8

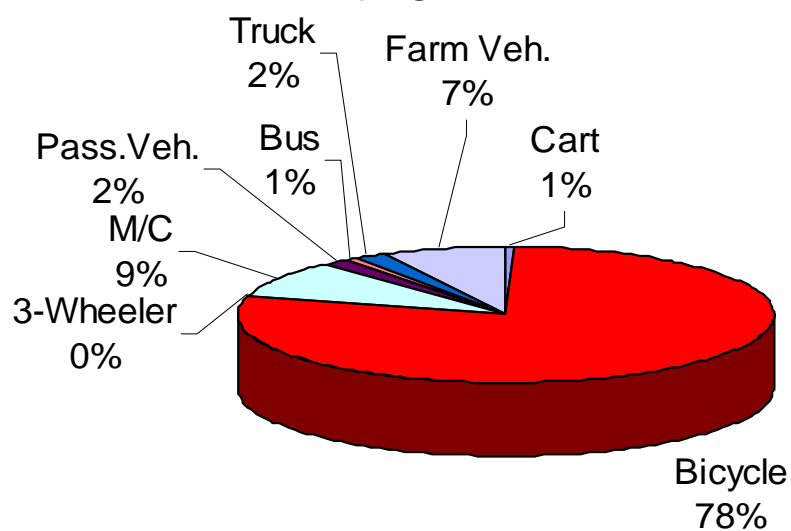


Average 12-hour Traffic Counts at B. Hane Rt. 1G

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	2	1
2. Bicycle	67	167	117
3. 3-wheeler	0	0	0
4. Motorcycle	11	15	13
5. Car & Jeep	1	3	2
6. Pickup	1	0	1
7. Light Bus	0	0	0
8. Bus	0	0	0
9. Bus Truck	1	1	1
10. Light Truck	2	2	2
11. Med. Truck	0	2	1
12. Heavy Truck	0	0	0
13. Farm Vehicle	6	16	11
Grand Total: All Traffic	89	208	149
Motorized Traffic Only	22	39	31

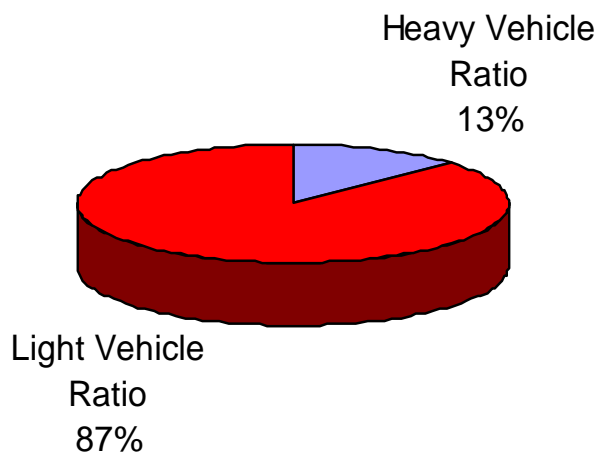


Traffic Composition at B. Hane Rt. 1G

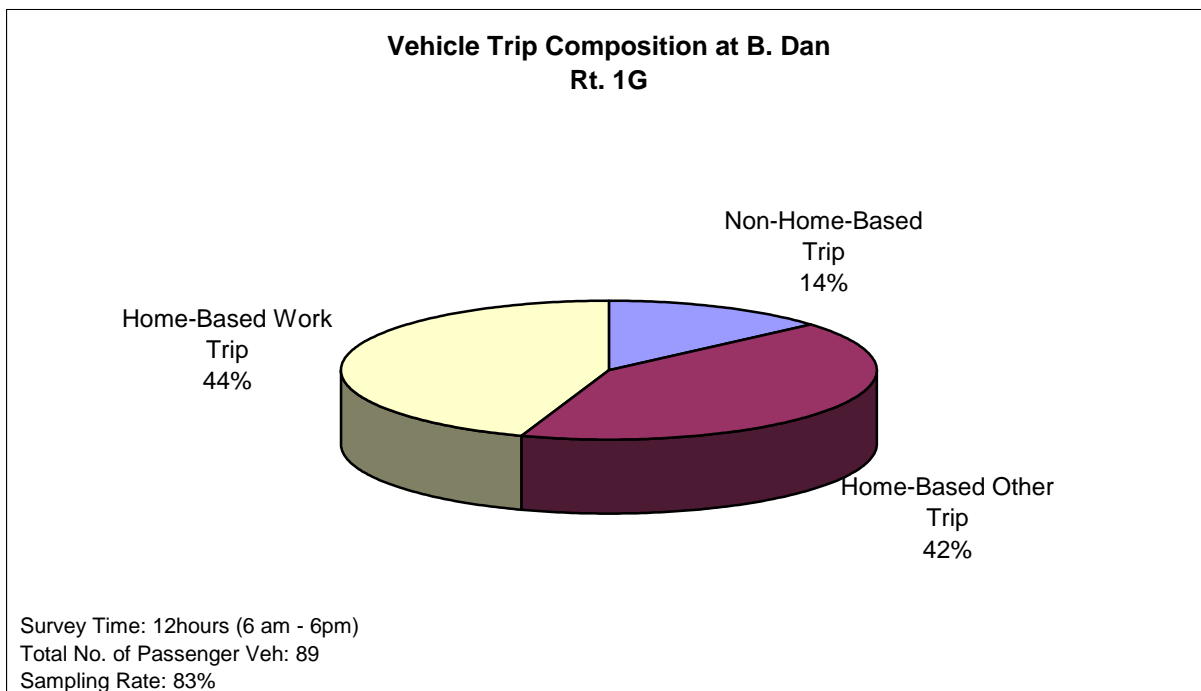


Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 149

Heavy Vehicle Ratio at B. Hane Rt. 1G



Survey Time : 12 hours (6am - 6pm)
Average Traffic Volume (both directions): 149



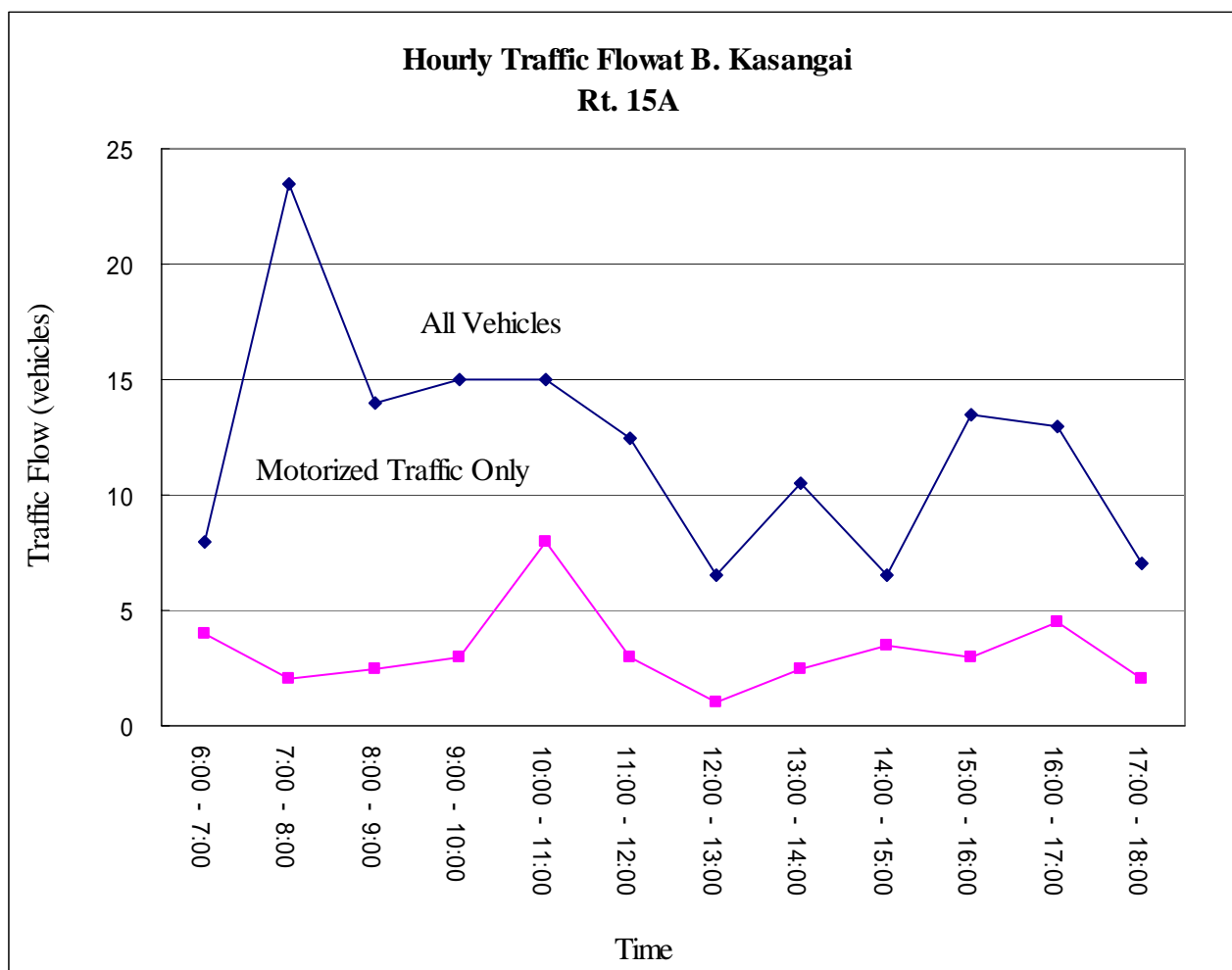
Commodities Carried by Goods Vehicles:
Traffic Volume too Low (less than 10 veh)
for Diagramming Purposes

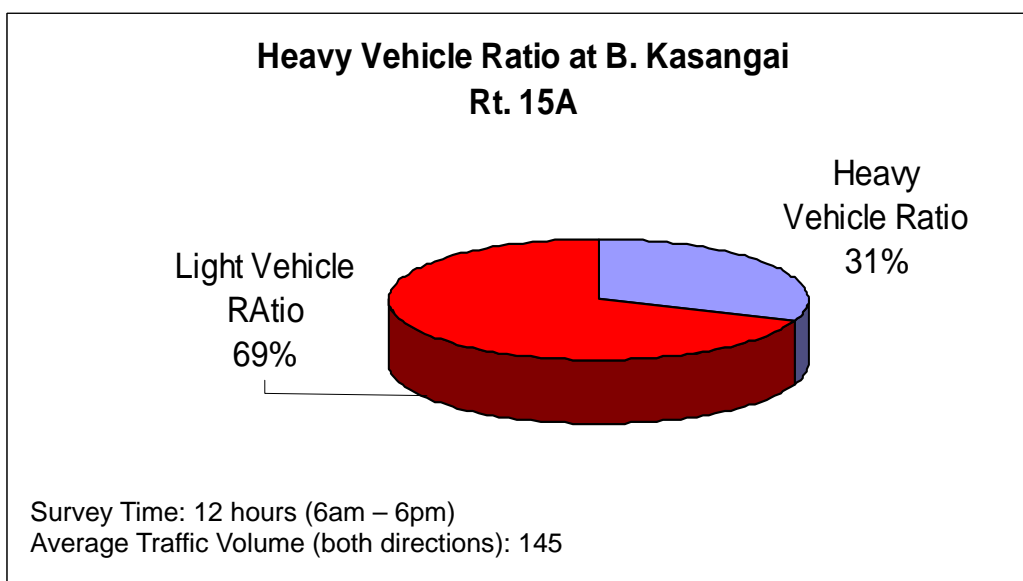
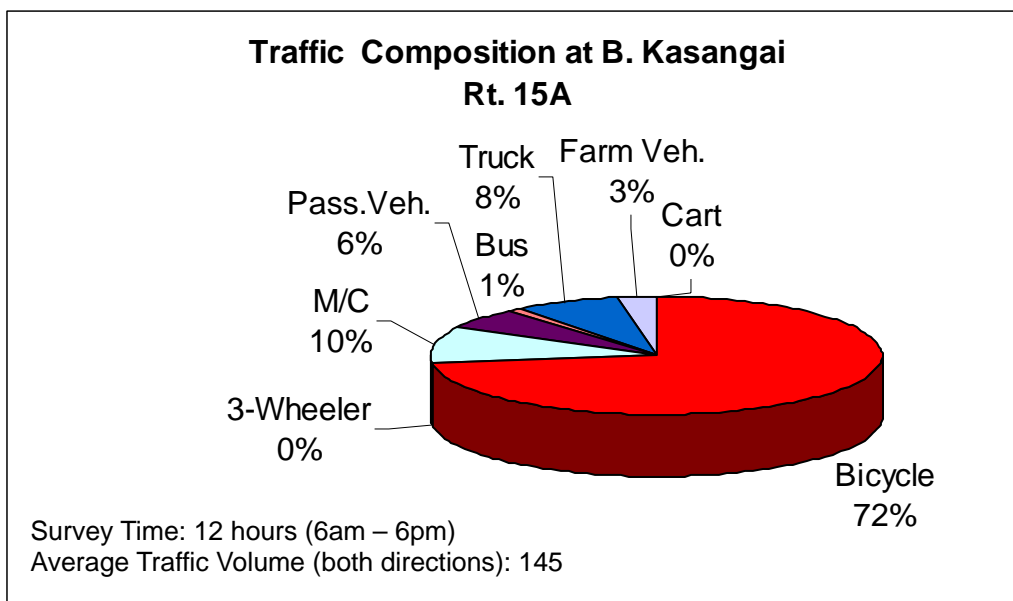
Survey Station # 9

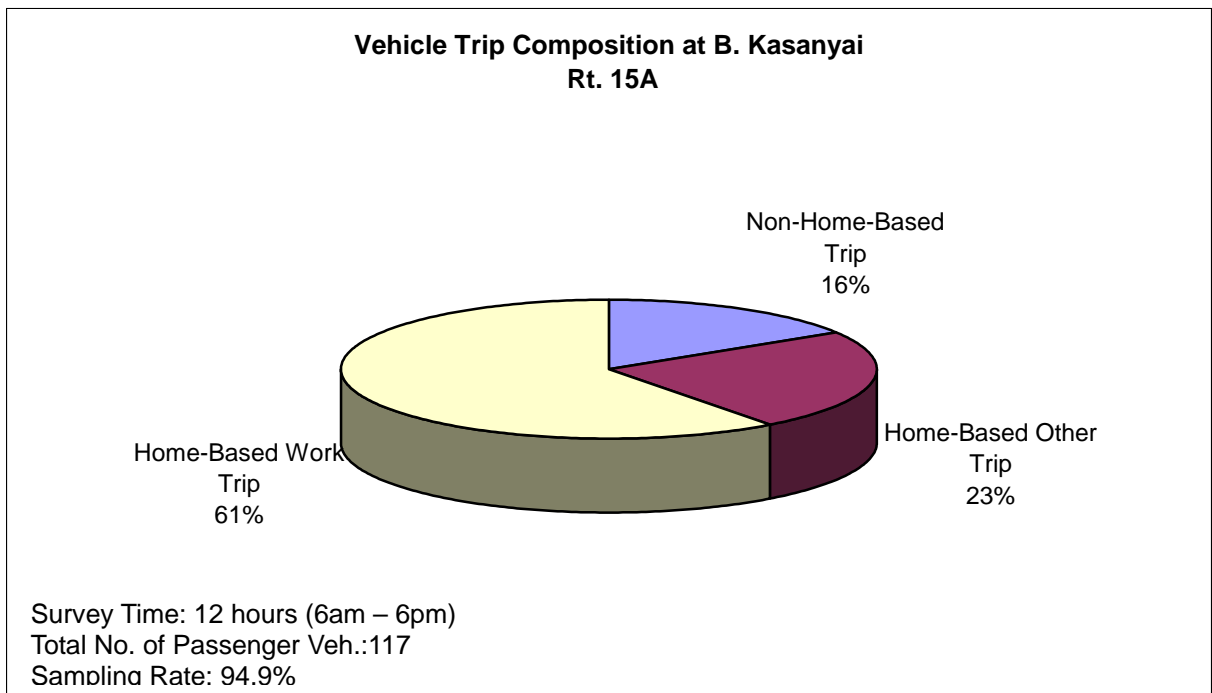


Average 12-hour Traffic Counts at B. Kasangai Rt. 15A

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	0	0
2. Bicycle	78	134	106
3. 3-wheeler	0	0	0
4. Motorcycle	16	12	14
5. Car & Jeep	8	1	5
6. Pickup	4	4	4
7. Light Bus	0	1	1
8. Bus	0	0	0
9. Bus Truck	1	1	1
10. Light Truck	2	4	3
11. Med. Truck	2	14	8
12. Heavy Truck	0	0	0
13. Farm Vehicle	6	2	4
Grand Total: All Traffic	117	173	145
Motorized Traffic Only	39	39	39







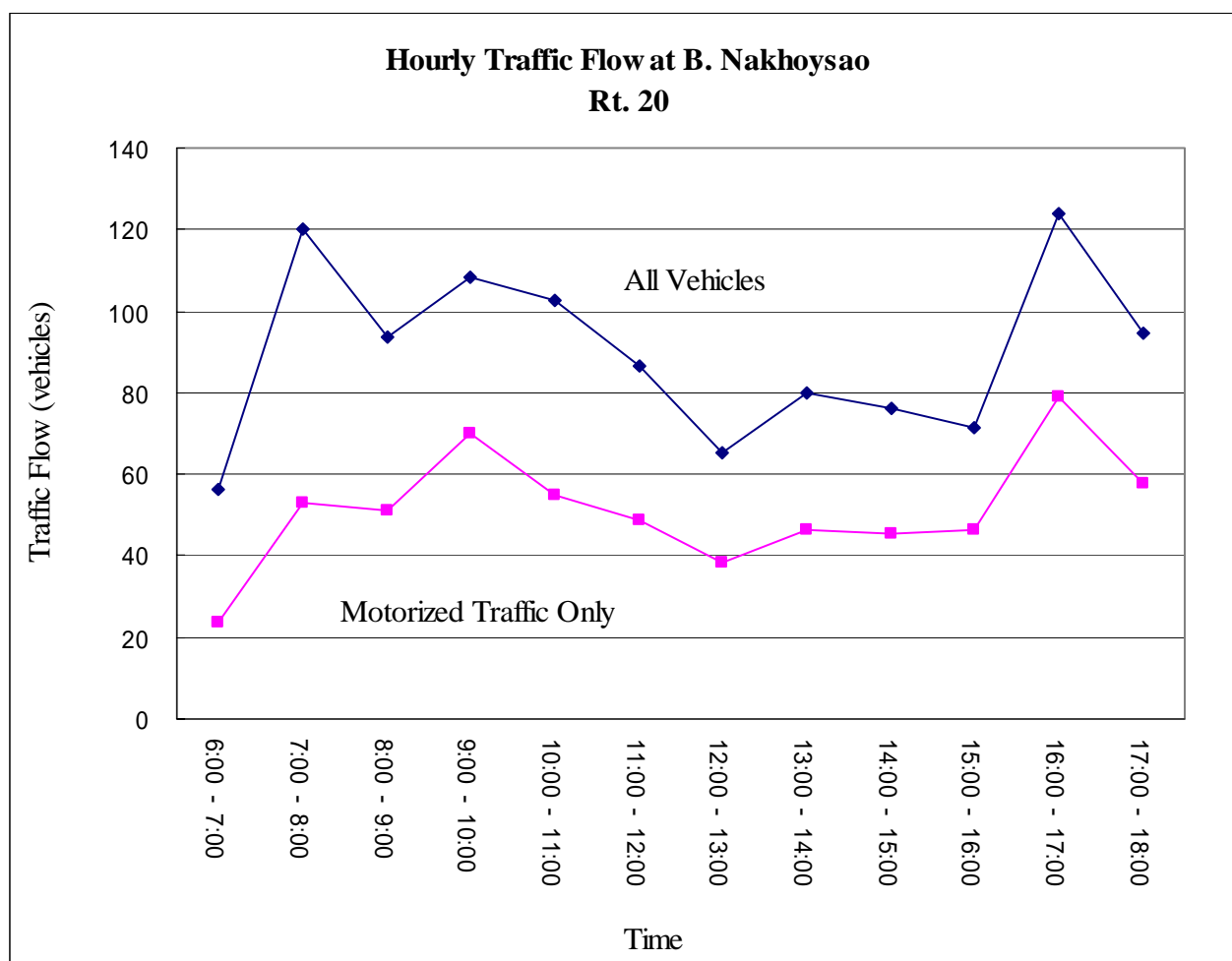
Commodities Carried by Goods Vehicles:
Traffic Volume too Low (less than 10 veh)
for Diagramming Purposes

Survey Station # 10



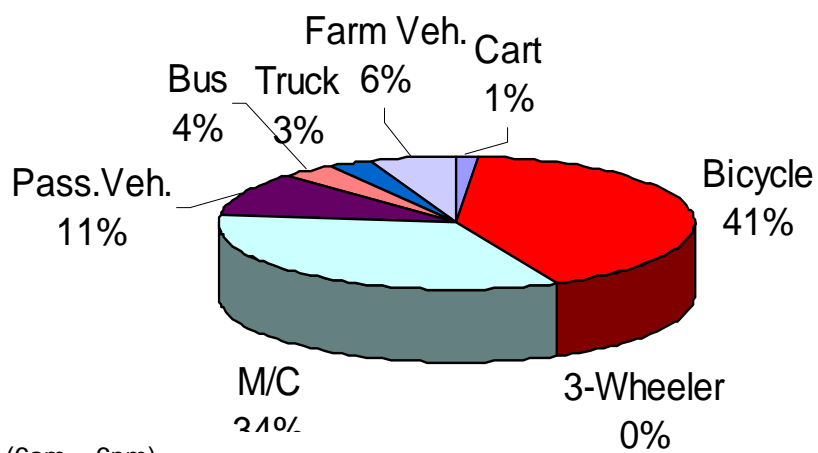
Average 12-hour Traffic Counts at B. Nakhoysao Rt. 20

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	8	23	15.5
2. Bicycle	389	509	449
3. 3-wheeler	2	0	1
4. Motorcycle	341	390	366
5. Car & Jeep	31	46	39
6. Pickup	60	90	75
7. Light Bus	21	21	21
8. Bus	9	14	12
9. Bus Truck	5	8	7
10. Light Truck	33	29	31
11. Med. Truck	0	6	3
12. Heavy Truck	0	0	0
13. Farm Vehicle	61	62	62
Grand Total: All Traffic	960	1198	1079
Motorized Traffic Only	563	666	615



Traffic Composition at B. Nakhoysao

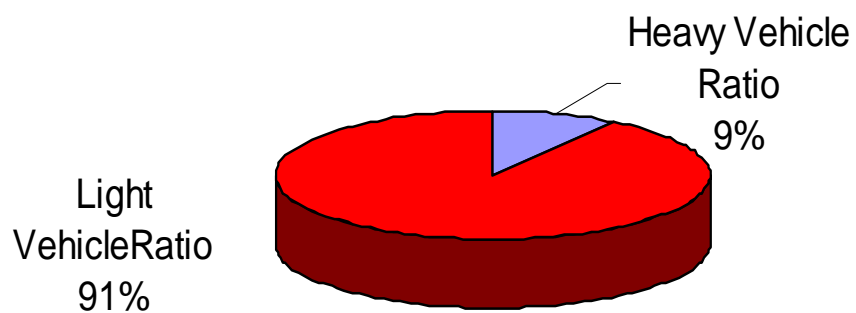
Rt. 20



Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 1079

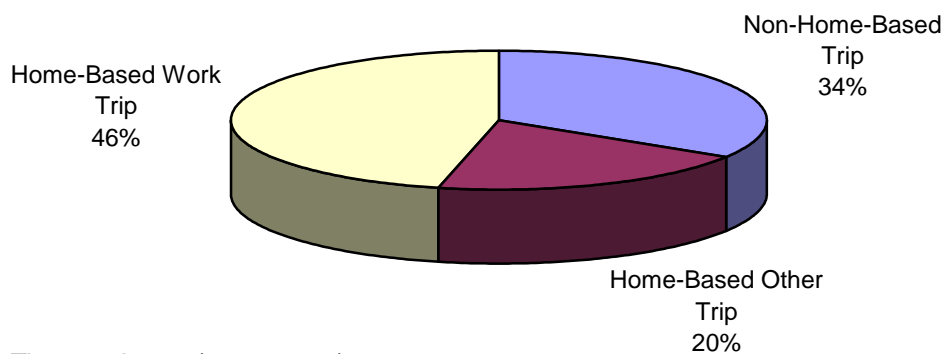
Traffic Composition at B. Nakhoysao

Rt. 20



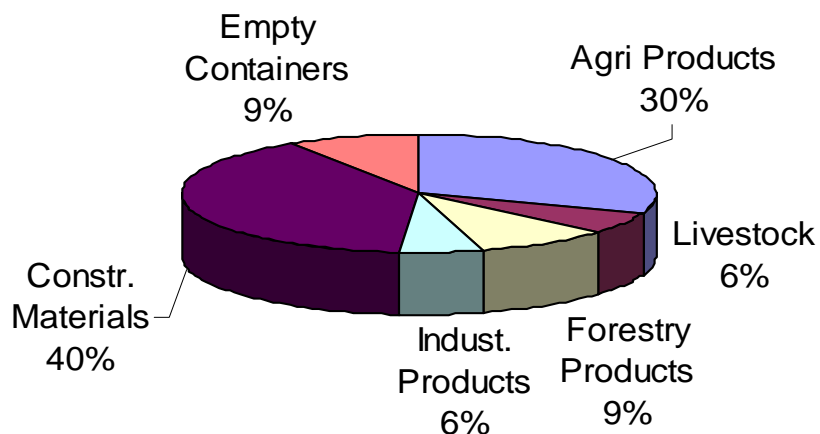
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 1079

**Vehicle Trip Composition at B. Nakhoysao
Rt. 20**



Survey Time: 12 hours (6am – 6pm)
 Total No. of Passenger Veh.: 960
 Sampling Rate: 35.9%

**Commodities Carried by Goods Vehicles at B. Nakhoysao
Rt. 20**



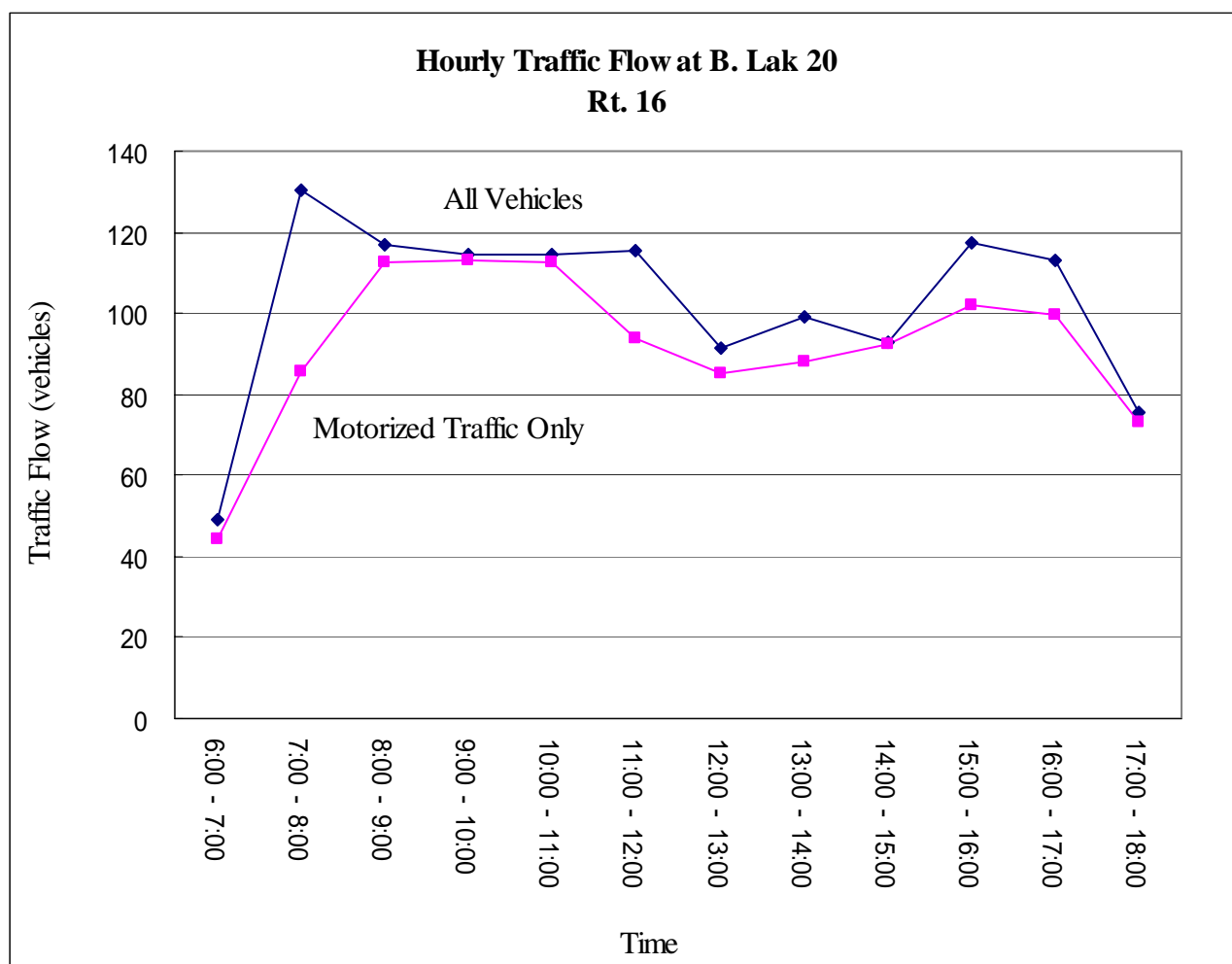
Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Goods Vehicles: 105
 Sampling Rate: 58.1%

Survey Station # 11

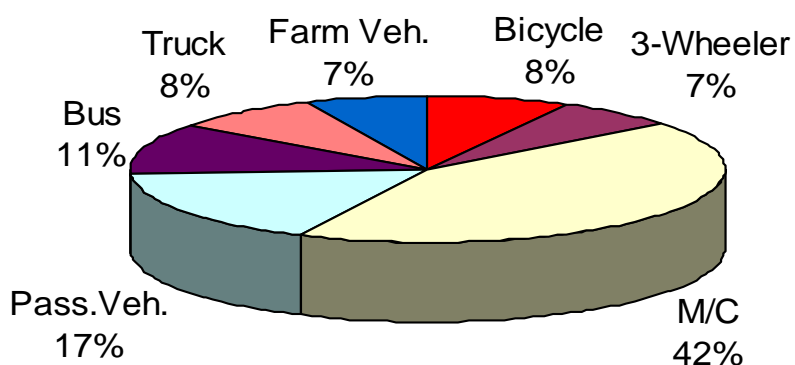


Average 12-hour Traffic Counts at B. Lak 20 Rt. 16

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	1	0	1
2. Bicycle	118	138	128
3. 3-wheeler	97	122	110
4. Motorcycle	629	763	696
5. Car & Jeep	49	29	39
6. Pickup	224	263	244
7. Light Bus	90	113	102
8. Bus	42	29	36
9. Bus Truck	45	41	43
10. Light Truck	83	55	69
11. Med. Truck	22	30	26
12. Heavy Truck	47	30	39
13. Farm Vehicle	106	113	110
Grand Total: All Traffic	1553	1726	1640
Motorized Traffic Only	1434	1588	1511

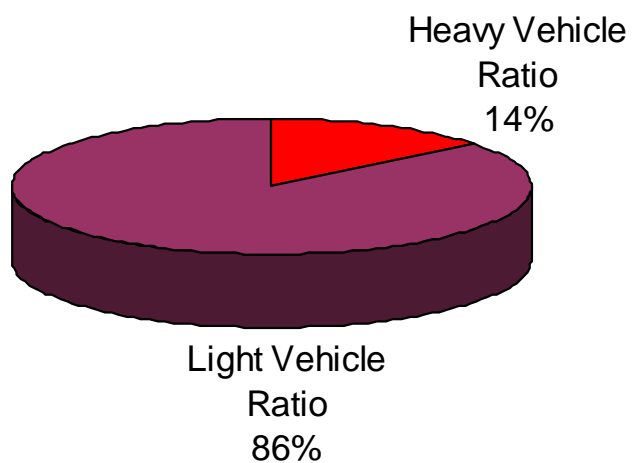


Traffic Composition at B. Lak 20 Rt. 16



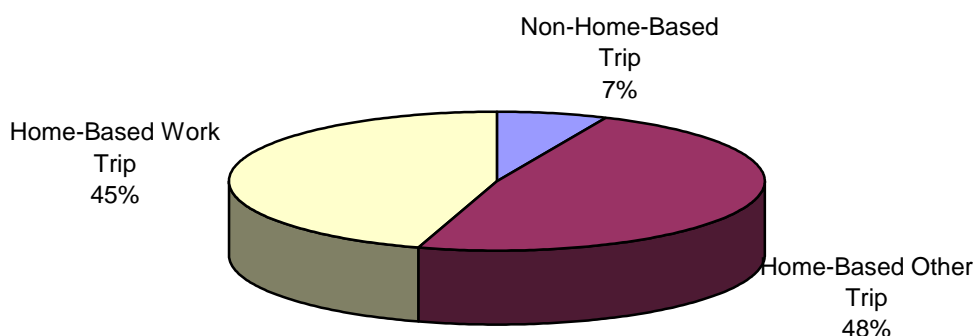
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 1640

Heavy Vehicle Ratio at B. Lak 20 Rt. 16



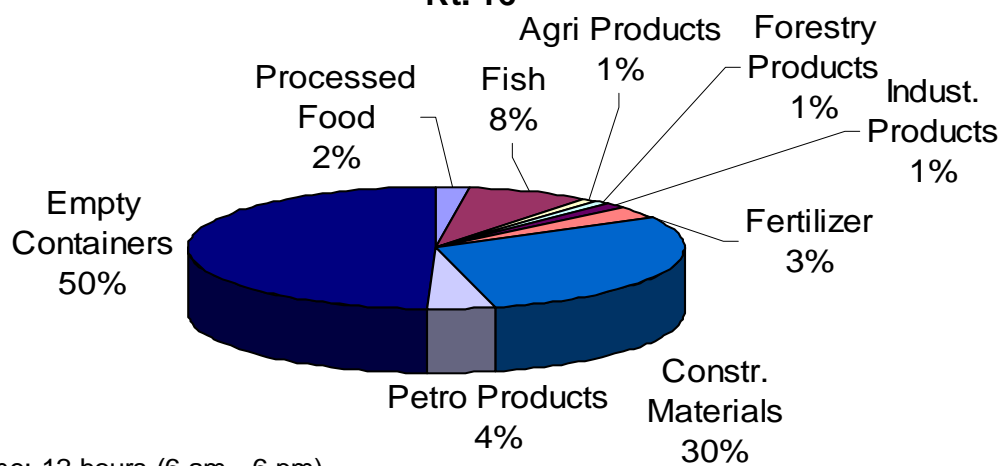
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 1640

**Vehicle Trip Composition at B.Lak 20
Rt. 16**



Survey Time: 12 hours (6am – 6pm)
Total No. of Passenger Veh.:1726
Sampling Rate: 13.0%

**Commodities Carried by Goods Vehicles at B. Lak 20
Rt. 16**



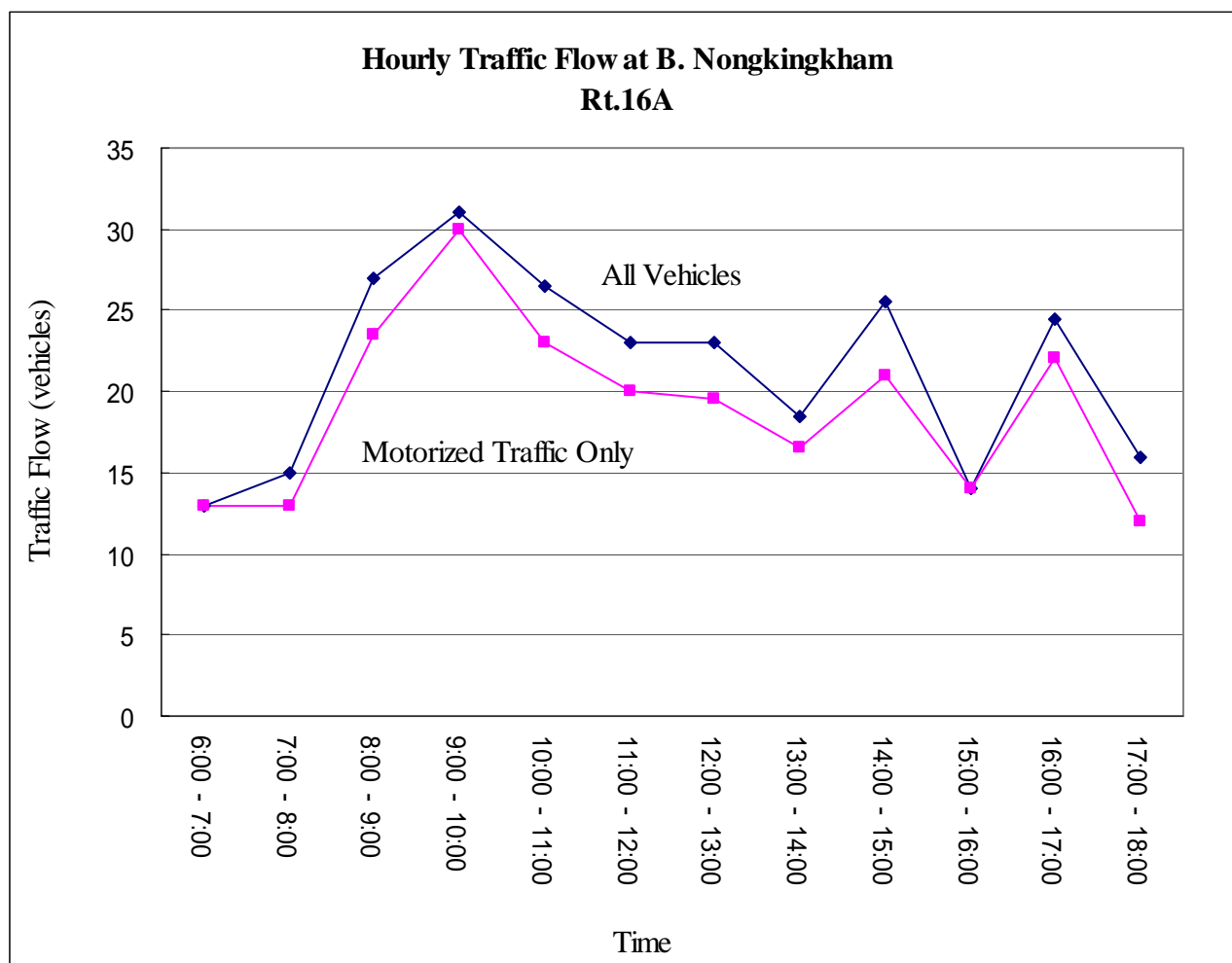
Survey Time: 12 hours (6 am - 6 pm)
Total No. of Goods Vehicles: 105
Sampling Rate: 58.1%

Survey Station # 12

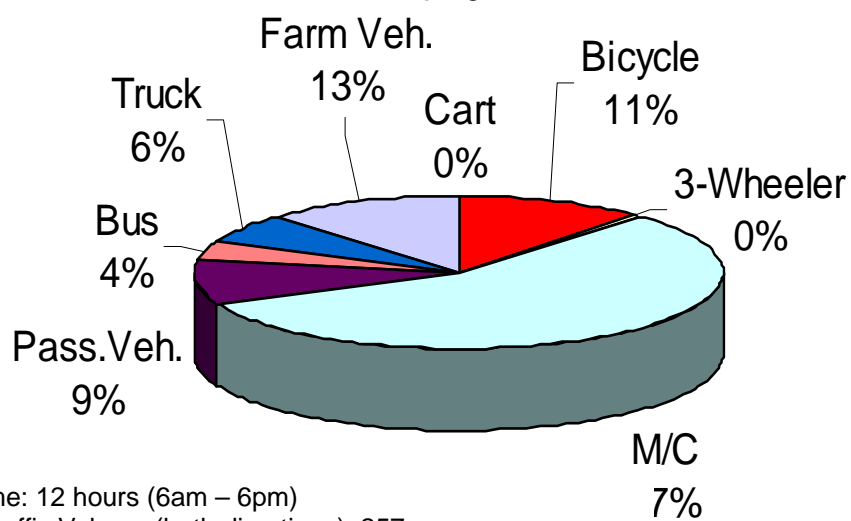


Average 12-hour Traffic Counts at B. Nongkingkham Rt.16A

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	0	0
2. Bicycle	36	23	30
3. 3-wheeler	2	0	1
4. Motorcycle	130	160	145
5. Car & Jeep	8	2	5
6. Pickup	20	18	19
7. Light Bus	10	11	11
8. Bus	0	0	0
9. Bus Truck	0	0	0
10. Light Truck	9	17	13
11. Med. Truck	2	5	4
12. Heavy Truck	0	0	0
13. Farm Vehicle	39	22	31
Grand Total: All Traffic	256	258	257
Motorized Traffic Only	220	235	228

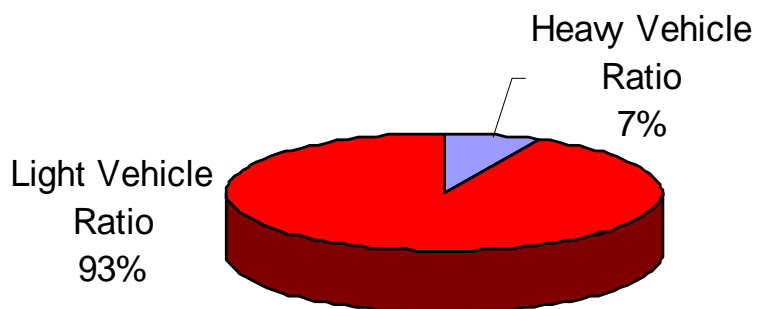


Traffic Composition at B. Nongkingkham Rt.16A



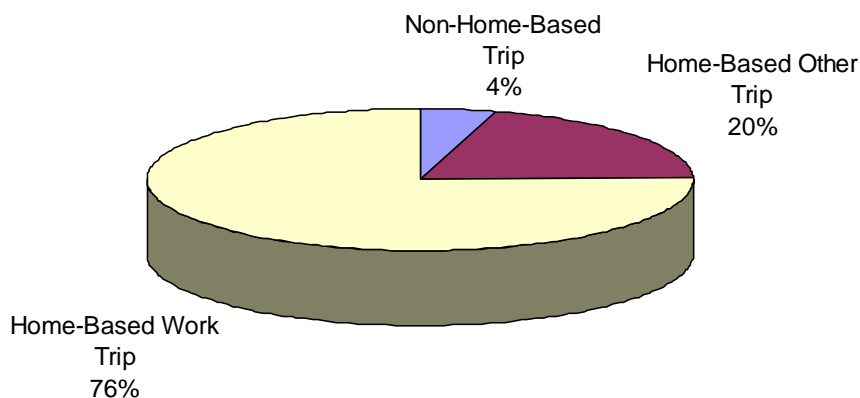
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 257

Heavy Vehicle Ratio at B. Nongkingkham Rt.16A



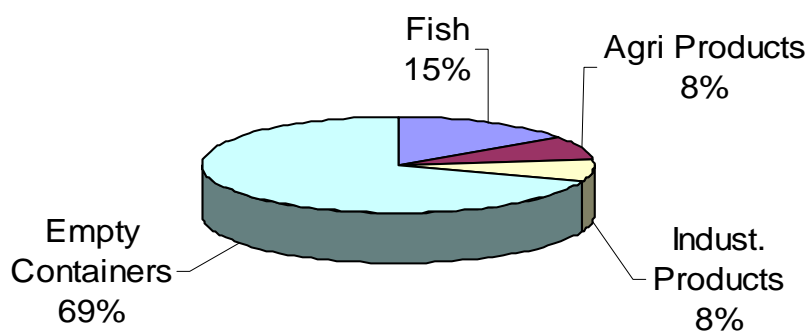
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 257

**Vehicle Trip Composition at B. Nongkingham
Rt. 16A**



Survey Time: 12 hours (6am – 6pm)
 Total No. of Passenger Veh.:256
 Sampling Rate: 53.9%

**Commodities Carried by Goods Vehicles at B.
Nongkingham Rt.16A**



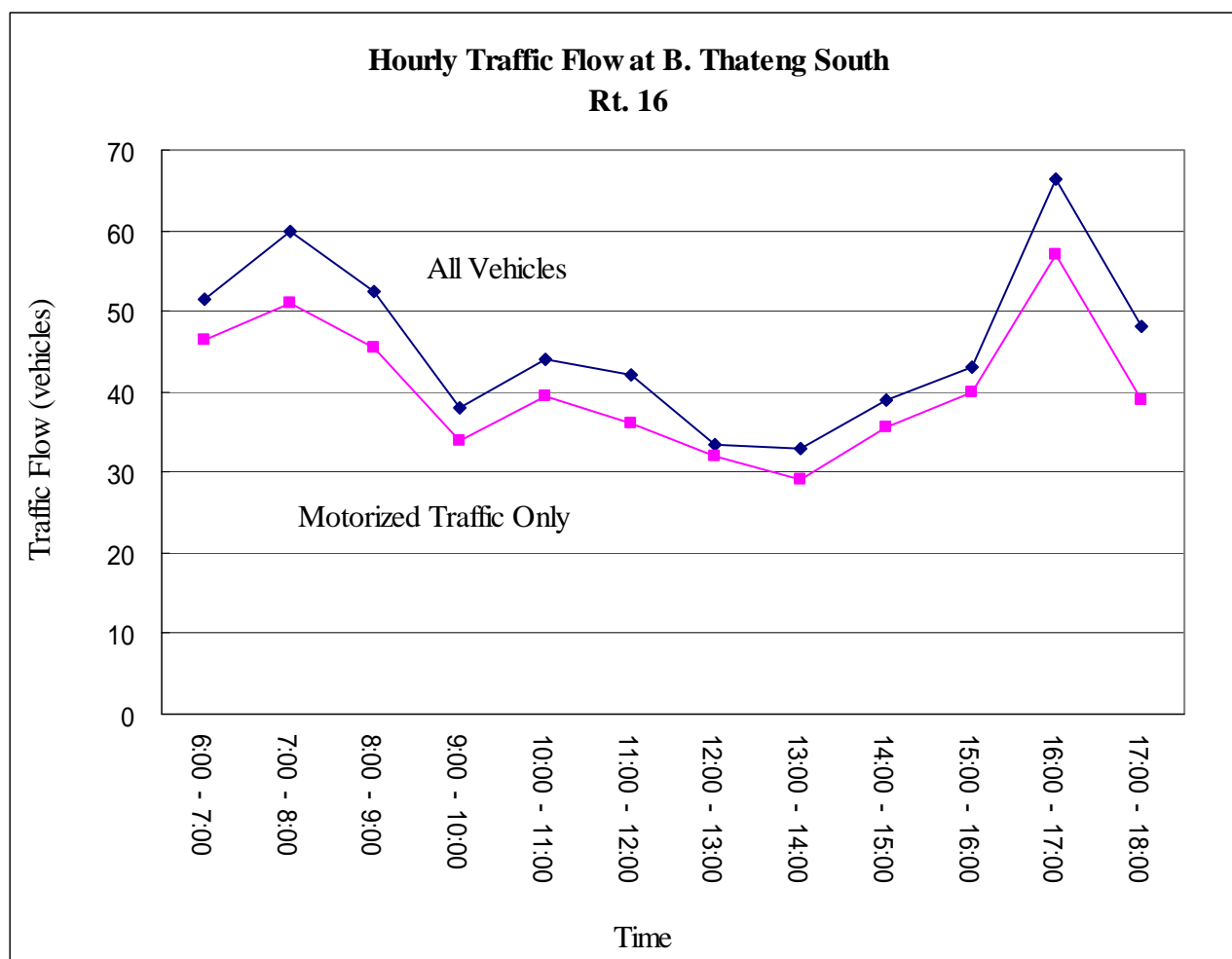
Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Goods Vehicles: 105
 Sampling Rate: 58.1%

Survey Station # 13



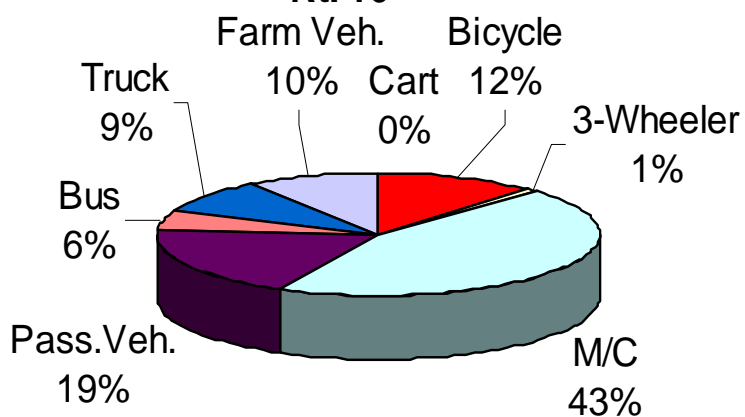
Average 12-hour Traffic Counts at B. Thateng South Rt. 16

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	0	0
2. Bicycle	84	48	66
3. 3-wheeler	4	6	5
4. Motorcycle	265	223	244
5. Car & Jeep	35	20	28
6. Pickup	60	91	76
7. Light Bus	16	14	15
8. Bus	6	7	7
9. Bus Truck	10	8	9
10. Light Truck	22	23	23
11. Med. Truck	30	20	25
12. Heavy Truck	1	1	1
13. Farm Vehicle	51	57	54
Grand Total:			
All Traffic	584	518	551
Motorized Traffic Only	500	470	485



Traffic Composition at B. Thateng South

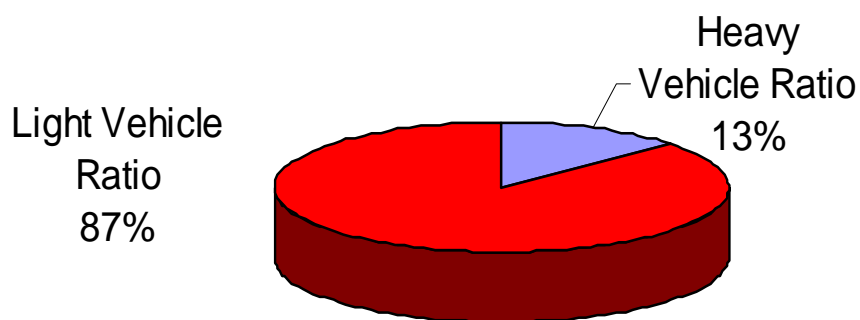
Rt. 16



Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 551

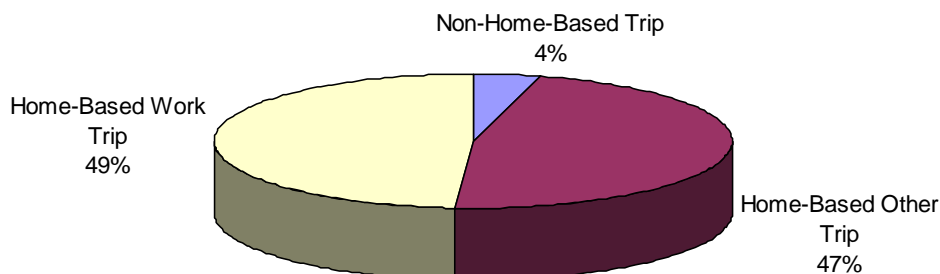
Heavy Vehicle Ratio at B. Thateng South

Rt. 16



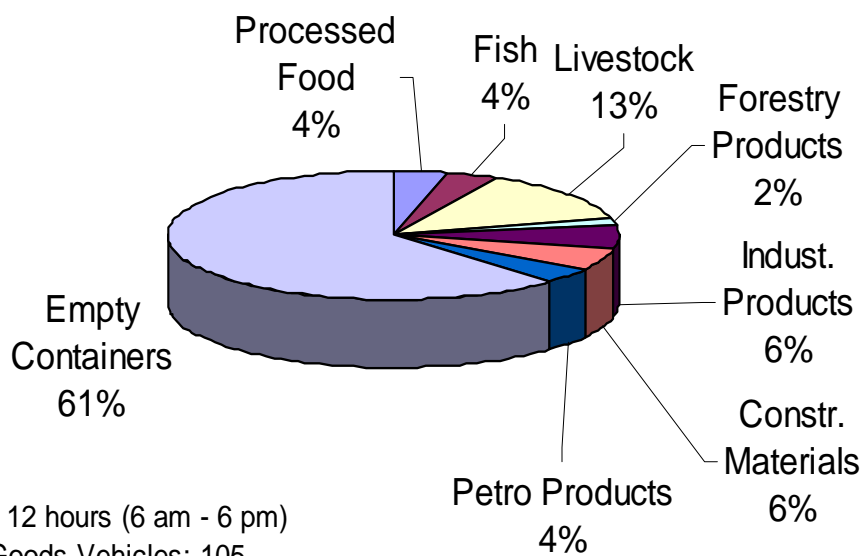
Survey Time: 12 hours (6am – 6pm)
Average Traffic Volume (both directions): 551

**Vehicle Trip Composition at B. Thateng South
Rt. 16**



Survey Time: 12 hours (6am – 6pm)
 Total No. of Passenger Veh.:584
 Sampling Rate: 28.1%

Commodities Carried by Goods Vehicles



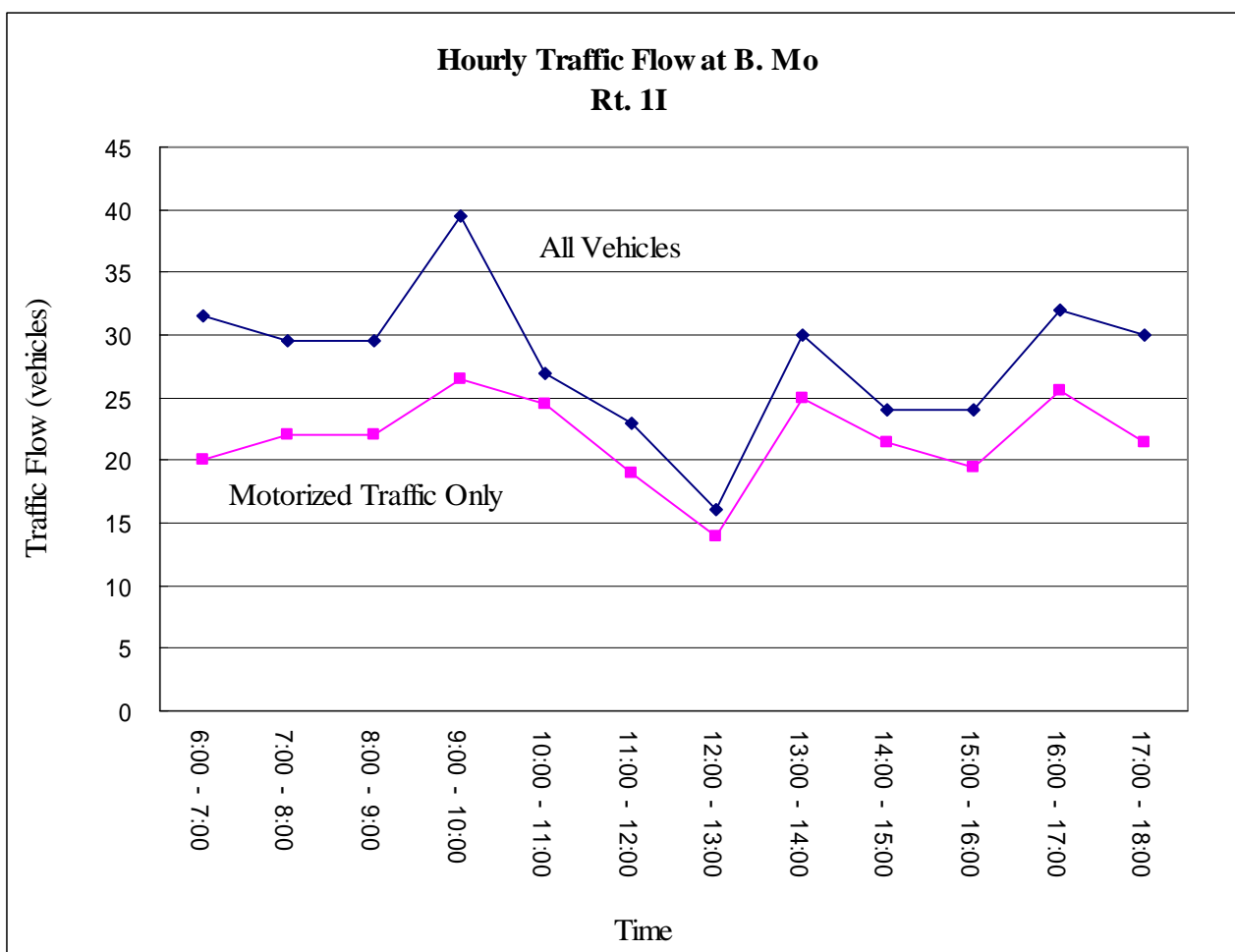
Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Goods Vehicles: 105
 Sampling Rate: 58.1%

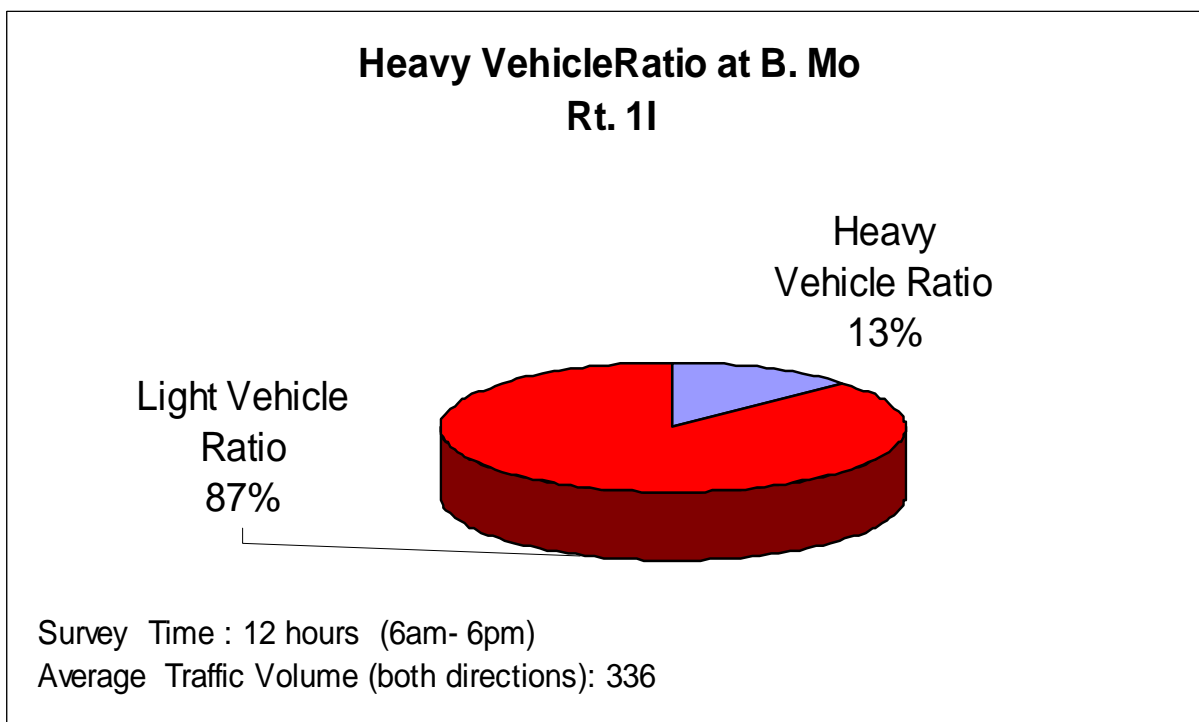
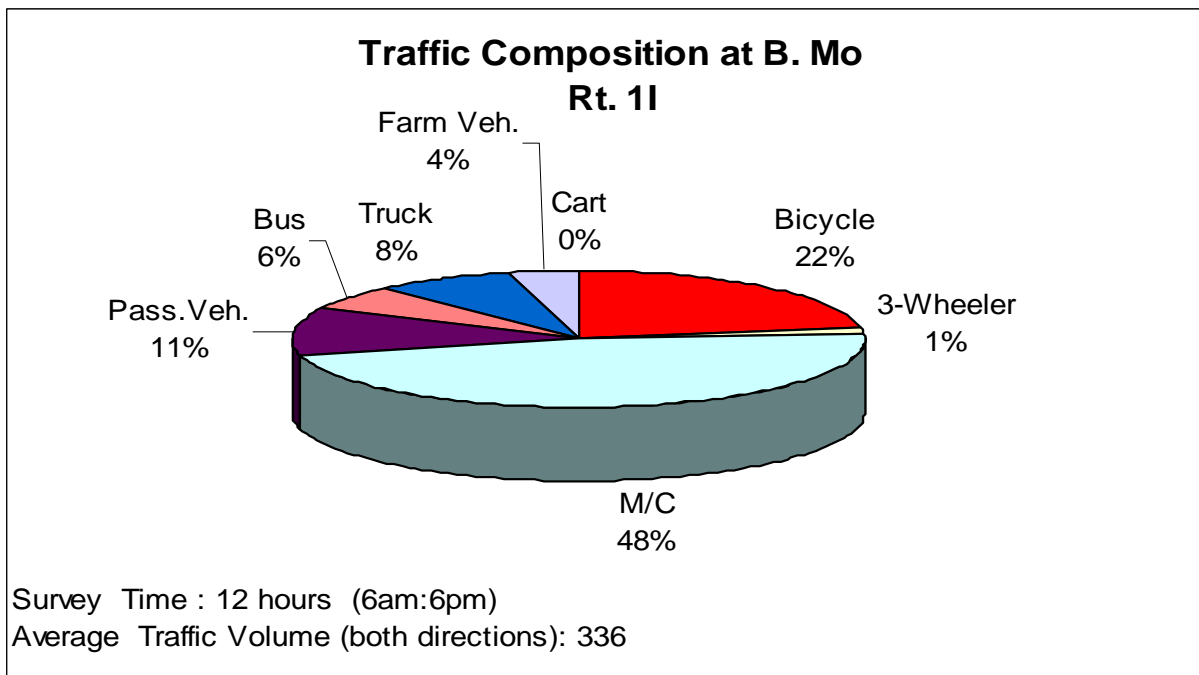
Survey Station # 14



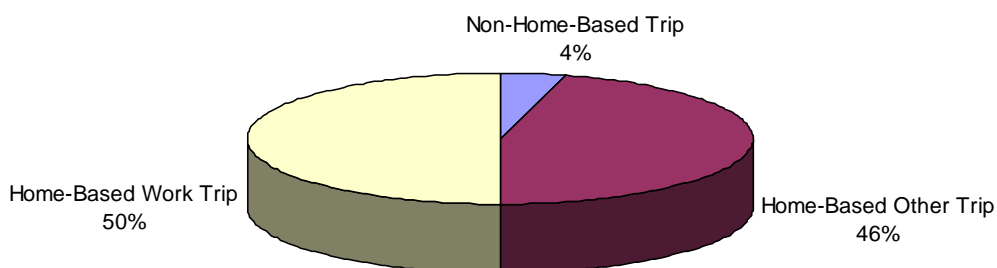
Average 12-hour Traffic Counts at B. Mo Rt. 11

Vehicle Type	12-hour Count totals (6 am - 6pm)		Average
	Day 1	Day 2	
1. Cart	0	0	0
2. Bicycle	92	58	75
3. 3-wheeler	4	4	4
4. Motorcycle	181	139	160
5. Car & Jeep	8	3	6
6. Pickup	30	34	32
7. Light Bus	13	11	12
8. Bus	4	6	5
9. Bus Truck	2	2	2
10. Light Truck	23	22	23
11. Med. Truck	6	0	3
12. Heavy Truck	3	0	2
13. Farm Vehicle	16	11	14
Grand Total: All Traffic	382	290	336
Motorized Traffic Only	290	232	261



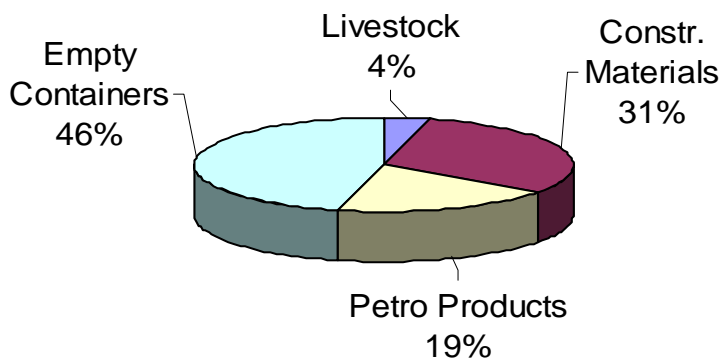


**Vehicle Trip Composition at B. Mo
Rt. 11**



Survey Time: 12 hours (6am – 6pm)
Total No. of Passenger Veh.:382
Sampling Rate: 31.4%

**Commodities Carried by Goods Vehicles at B. Mo
Rt. 11**



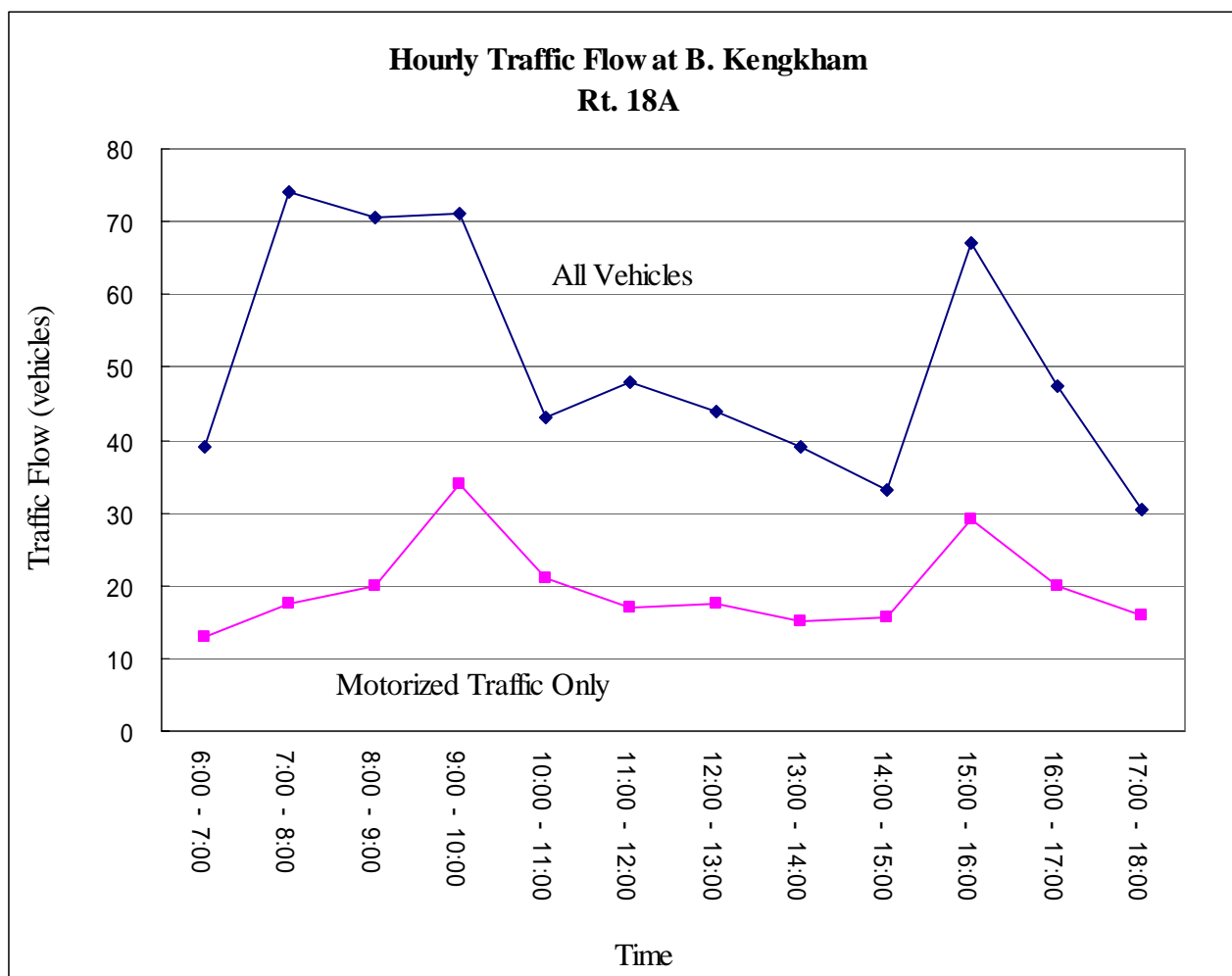
Survey Time: 12 hours (6 am - 6 pm)
Total No. of Goods Vehicles: 105
Sampling Rate: 58.1%

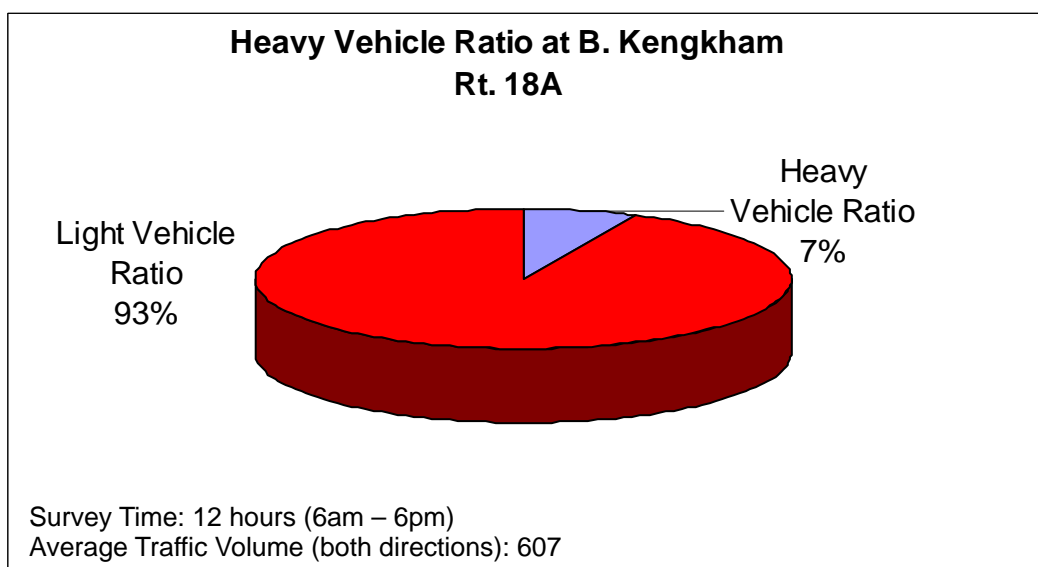
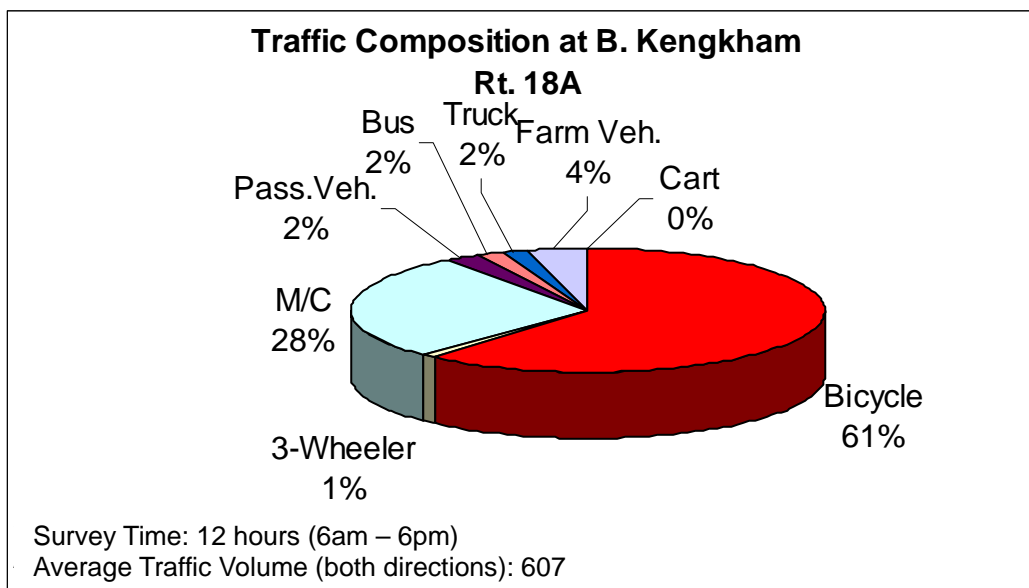
Survey Station # 15



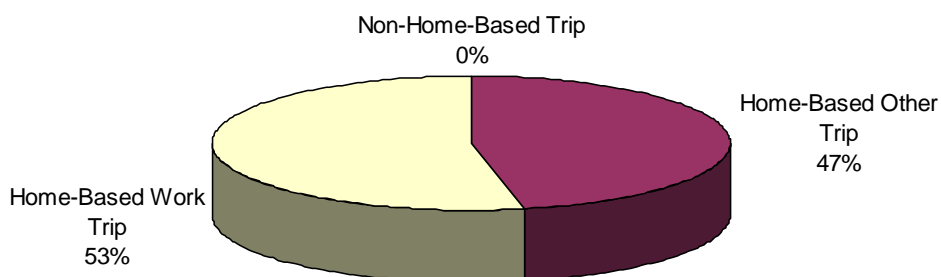
Average 12-hour Traffic Counts at B. Kengkham Rt. 18A

Vehicle Type	12-hour Count Totals (6 am - 6 pm)		Average
	Day 1	Day 2	
1. Cart	0	0	0
2. Bicycle	304	438	371
3. 3-wheeler	4	9	7
4. Motorcycle	184	152	168
5. Car & Jeep	1	8	5
6. Pickup	10	7	9
7. Light Bus	9	4	7
8. Bus	0	1	1
9. Bus Truck	3	8	6
10. Light Truck	11	7	9
11. Med. Truck	3	0	2
12. Heavy Truck	0	0	0
13. Farm Vehicle	30	20	25
Grand Total:			
All Traffic	559	654	607
Motorized Traffic Only	255	216	236



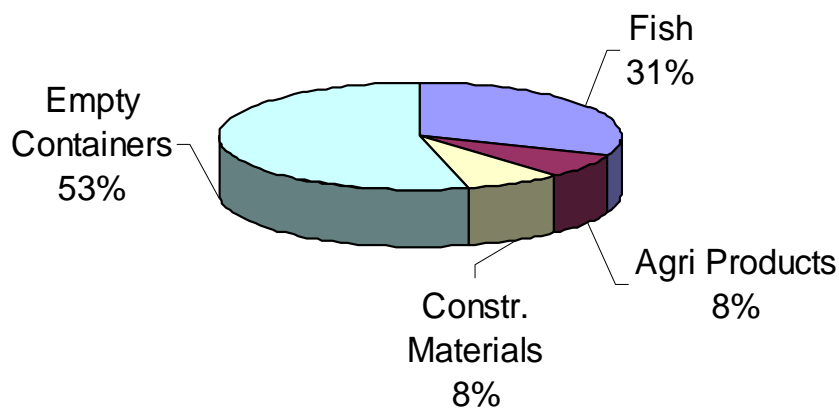


**Vehicle Trip Composition at B. Kengkham
Rt. 18A**



Survey Time: 12 hours (6am – 6pm)
 Total No. of Passenger Veh.: 559
 Sampling Rate: 25.8%

**Commodities Carried by Goods Vehicles at B. Kengkham
Rt. 18A**

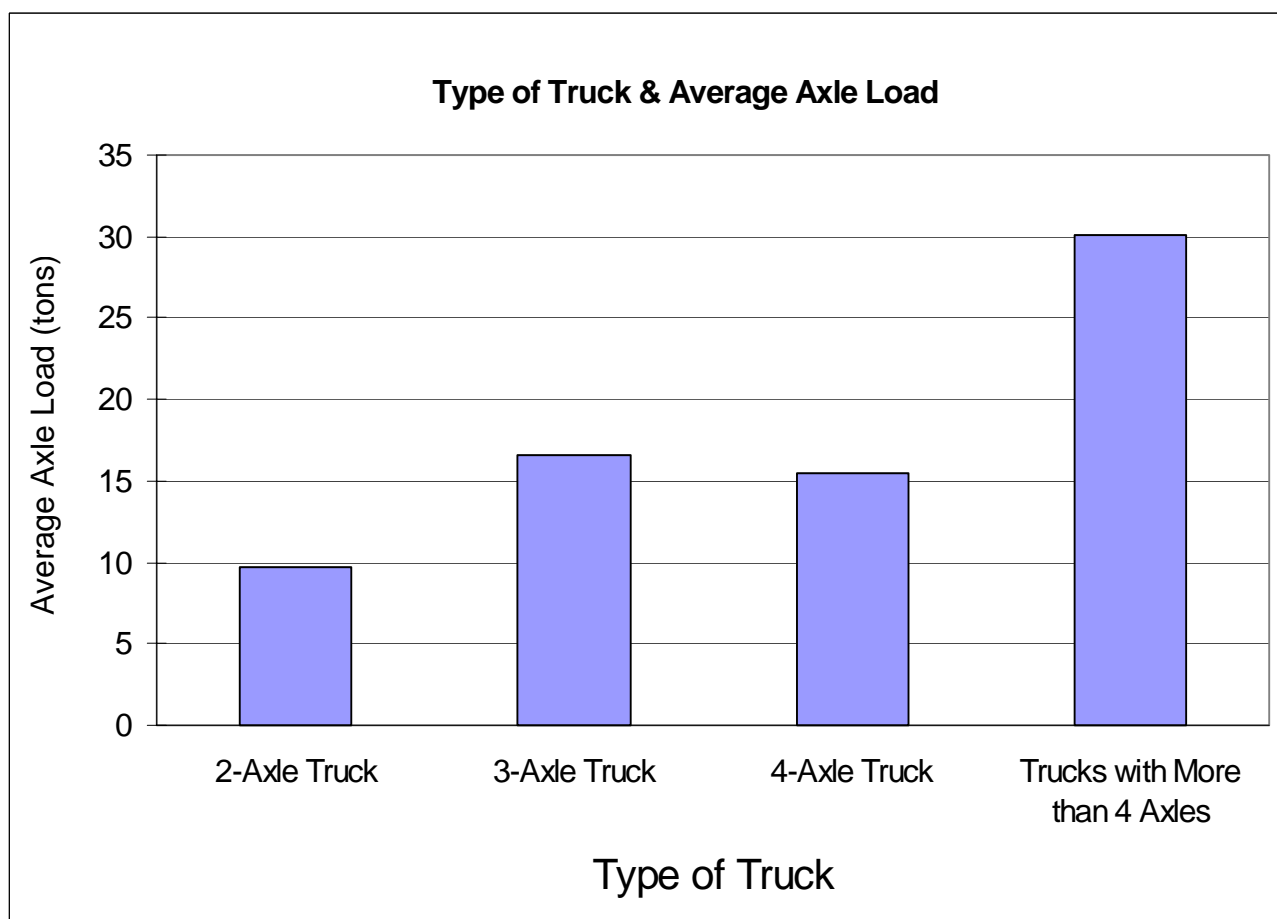


Survey Time: 12 hours (6 am - 6 pm)
 Total No. of Goods Vehicles: 105
 Sampling Rate: 58.1%

1.2 Axle-Load Survey

Average Axle-Load & Percentage of Trucks Overloaded

Axle-Load Survey Station	No. of Trucks Weighed	Sampling Rate	Average Axle-Load	% of Trucks Overloaded
1	142	77.6%	14.4	4.3
3	70	52.2%	17.4	10.0
6	56	35.9%	16.0	30.6



1.3 Travel Speed Survey

Travel Speed Survey Results

Survey Road No.	Rt. No.	% of Road Paved	% of Road in Good Condition	Traffic Rolling Count	Average Speed
1	13S	70.4	74.9	236	37.4
2	6313	0.0	83.0	31	46.4
3	15	0.0	86.1	37	48.6
4	6902, 6906	0.0	0.0	10	21.2
5	15	0.0	82.8	34	43.0
6	1G	0.0	12.8	4	30.5
7	15A	0.0	53.2	6	39.0
8	15A	0.0	0.0	6	39.0
9	15A	0.0	0.0	4	26.6
10	13S	74.9	79.4	64	35.9
11	20	100.0	100.0	29	64.1
12	6903	0.0	0.0	0	18.2
13	20	100.0	100.0	78	69.7
14	1H	15.0	100.0	9	56.4
15	16	100.0	100.0	23	60.0
16	7501	0.0	0.0	0	27.8
17	16	0.0	0.0	8	23.8
18	11	60.9	89.8	51	50.9
19	18B	100.0	47.3	4	38.0
20	9001	0.0	0.0	5	28.1
21	1J	0.0	32.4	3	41.3
22	18A	0.0	94.4	13	50.0
24	18B	0.0	0.0	32	18.7
27	14A	0.0	0.0	26	17.7
28	14A	30.4	0.0	88	30.5
29	16	100.0	100.0	51	49.7
30	13S	100.0	100.0	95	52.3
31	18A	0.0	0.0	19	26.3
32	13S	100.0	100.0	80	58.9
33	13S	100.0	100.0	62	56.5
34	20	100.0	100.0	66	55.1
35	20	100.0	100.0	17	49.3
36	16	100.0	100.0	78	59.4
37	16	100.0	100.0	33	59.8
38	16A	0.0	65.1	8	52.1
39	14A	0.0	0.0	44	24.2

