

# Cambodia

## Road Traffic Accident and Victim Information System



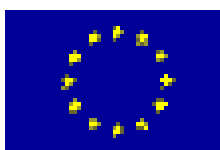
### Monthly Report June 2008



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Belgian Cooperation



World Health Organization



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# Cambodia Road Traffic Accident and Victim Information System

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### I. Introduction

The **objective** of the Road Traffic Accident and Victim Information System (RTAVIS) is to provide government and development stakeholders in Cambodia with accurate, continuous and comprehensive information on **road traffic accidents and victims**.

It should allow them to better understand the current road safety situation, plan appropriate responses and evaluate impact of current and future initiatives.

The system is being developed by the Ministry of Public Works and Transport, the Ministry of Interior and the Ministry of Health, with the support of Handicap International.

In Siem Reap, Oddar Mean Chey and Kampong Cham provinces, the system is also supported by the Belgian Technical Cooperation.

The system is run based on data collection forms filled in by trained staff at **major hospitals, private clinics and traffic police**.

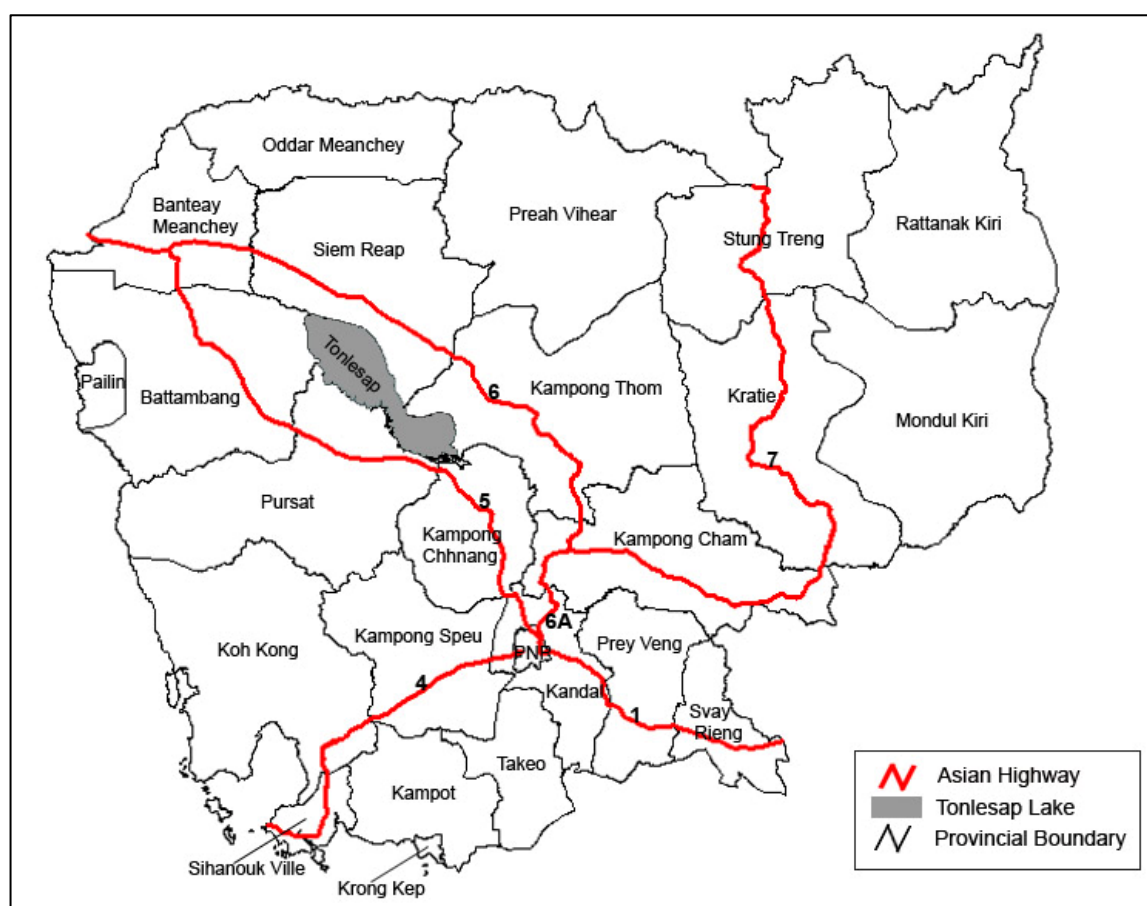
RTAVIS reports are **distributed monthly**. RTAVIS reports can also be found on the following websites: [www.roadsafetycambodia.info](http://www.roadsafetycambodia.info) and [www.cnctp.info](http://www.cnctp.info)

#### **Notice:**

This monthly report is a snapshot of the situation at a particular time of the year. More analysis is provided in the annual report. The annual report 2007 has released in June 2008. The annual report 2008 will be released in April 2009.

### II. System Coverage

RTAVIS covers the whole country. The map here below illustrates the Asian Highway (national road 1, 4, 5, 6, 6A and 7). The analysis of the number of fatalities is shown in the executive summary.



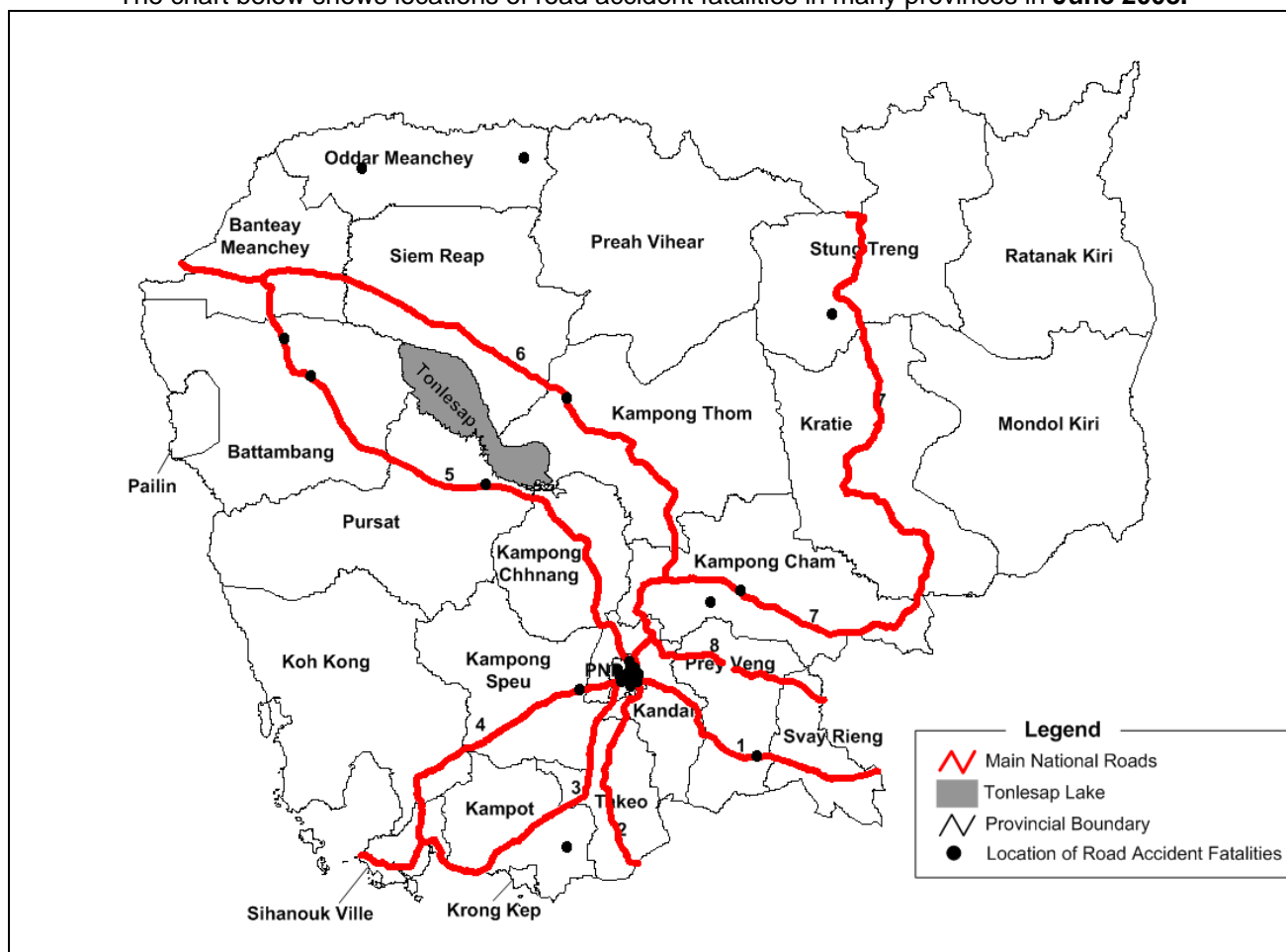
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### III. System Update

#### Introduction of GPS

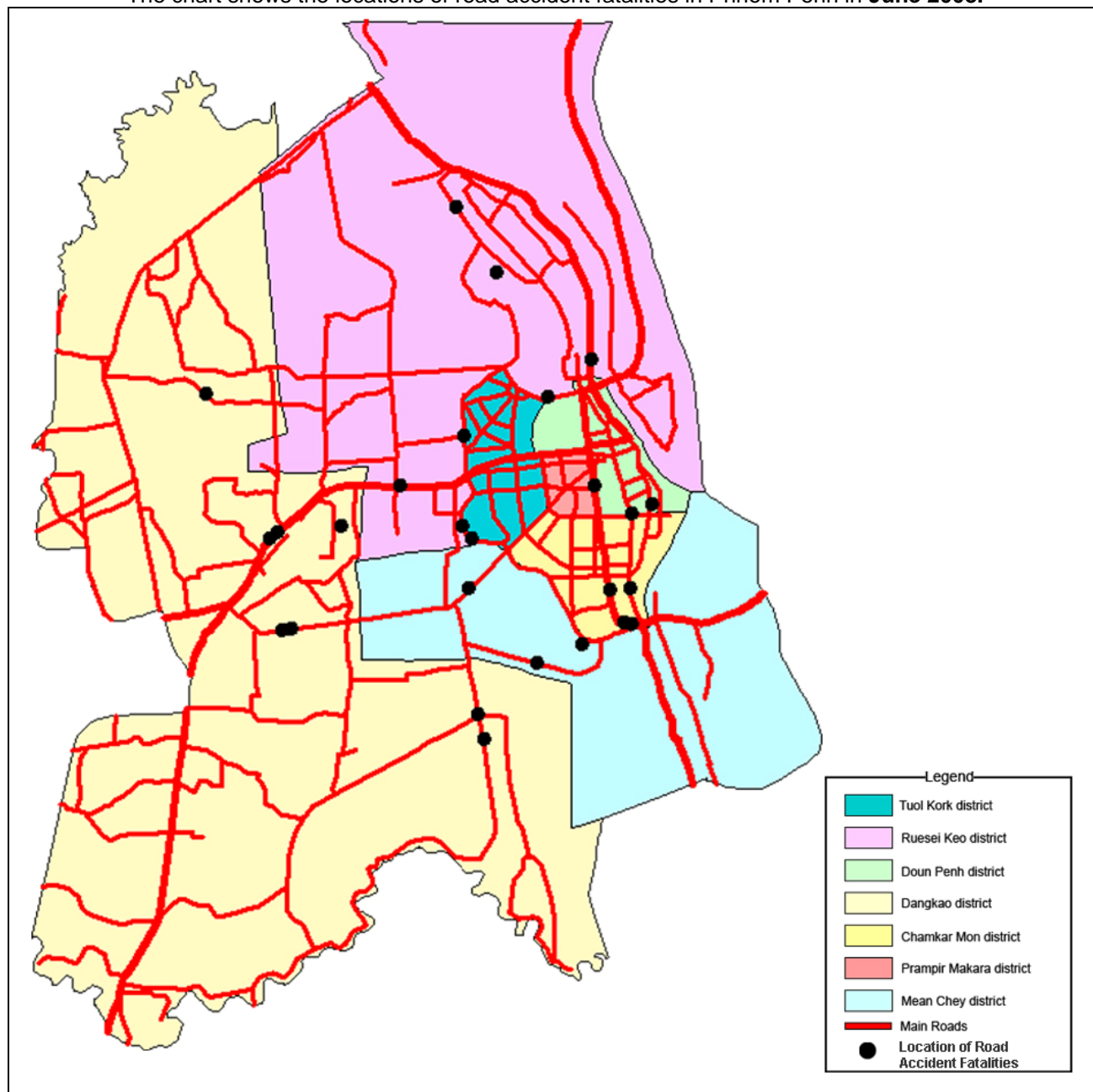
From July 2006, Global Position System (GPS) devices have been introduced to the traffic police in Russei Keo District in Phnom Penh. The GPS coordinates allow us now to exactly locate accidents, using GIS data. GPS devices have been progressively introduced to other districts of Phnom Penh and provinces crossed by major national roads from August 2007. On the medium term, this will enable RTAVIS to identify blackspots of the Cambodian Road Network.

The chart below shows locations of road accident fatalities in many provinces in **June 2008**.



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The chart shows the locations of road accident fatalities in Phnom Penh in **June 2008**.



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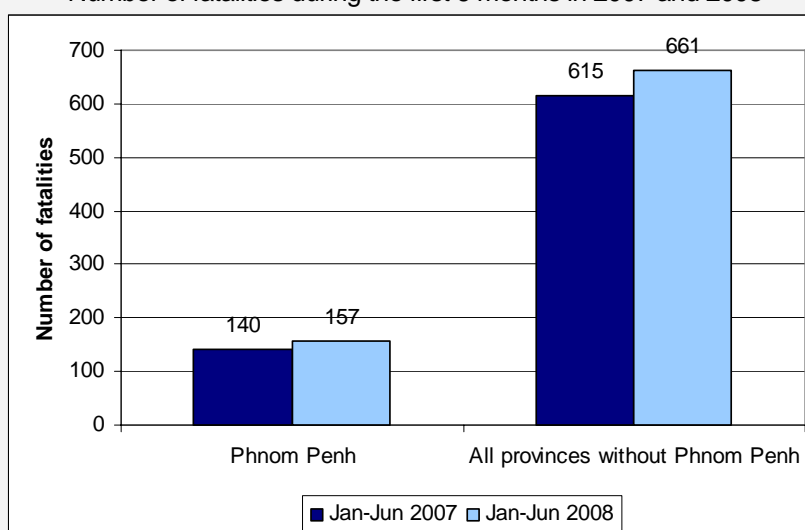
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### IV. Executive Summary

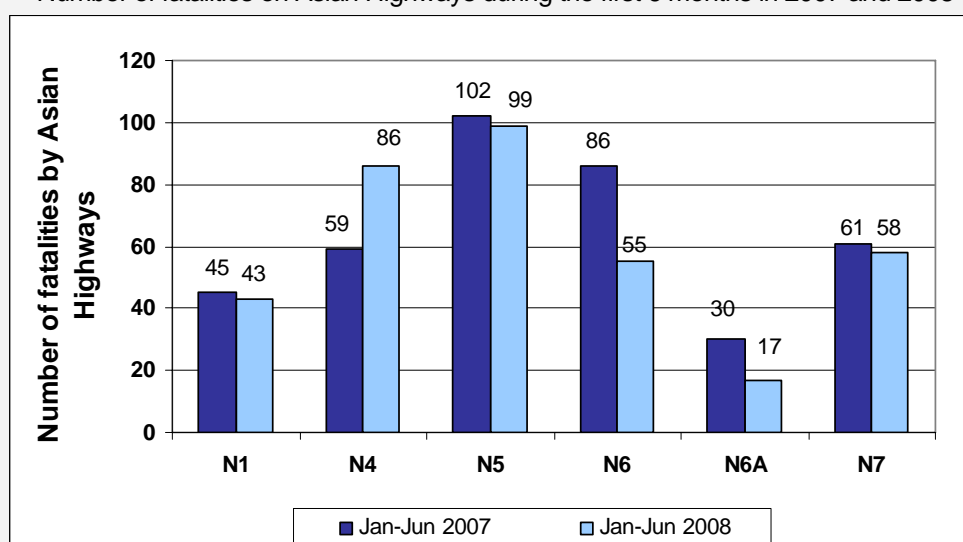
Key findings for the month of **June 2008** are the following:

- A provisional number of **1,777 casualties** were reported by the participating hospitals, health centres, private clinics and traffic police departments in the 24 reporting provinces. Among them, **534 were severely injured and 98 died**.
- **In Phnom Penh**, 556 casualties were reported, corresponding to **36% increase compared to June 2007** and **20% increase** compared to the previous month. Among them, **33 died**.
- **Motorbikes' users account for the largest majority of casualties** (79%), followed by pedestrians and bicyclists.
- **67% of fatalities were motorbike's rider**, whereas 2% of them wore a helmet.
- **In comparison between the first semester of 2008 and 2007:**
  - o The number of fatalities **has increased by 12%** in Phnom Penh, and **7%** in provinces.
  - o **National road 5 is the most deadly**. Number of fatalities **has increased by 46% on national road 4** and **decreased by 36% on national road 6**.

Number of fatalities during the first 6 months in 2007 and 2008



Number of fatalities on Asian Highways during the first 6 months in 2007 and 2008



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### V. Evolution of Main Indicators

	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08
<b>Number of casualties reported to RTAVIS</b>	2,299	2,011	1,941	2,545	1,663	1,777
<b>Gender</b>						
Percentage of males casualties	73%	74%	75%	73%	73%	73%
<b>Age</b>						
Percentage of casualties aged between 15 and 24 years old	28%	33%	28%	33%	39%	39%
<b>Type of road user</b>						
Percentage of motorbike riders	74%	78%	75%	77%	77%	79%
Percentage of pedestrians	7%	7%	8%	7%	8%	8%
Percentage of car riders (private and taxis)	6%	4%	5%	4%	5%	3%
Percentage of bicycle riders	4%	4%	4%	4%	4%	4%
<b>Occupation</b>						
Percentage of students	21%	24%	23%	25%	24%	23%
Percentage of farmers	29%	25%	25%	27%	25%	23%
Percentage of workers	21%	22%	21%	22%	20%	24%
Percentage of house keepers	6%	5%	5%	5%	6%	4%
Percentage of vendors/small businesses owners	4%	5%	6%	6%	8%	7%
Percentage of motorbike taxis	4%	3%	4%	3%	3%	4%
<b>Residence of casualty</b>						
Percentage of casualties residing in another province than the province of accident	15%	17%	17%	18%	17%	17%
<b>Severity of injuries:</b>						
Percentage of severely injured casualties (requiring chirurgical intervention of ICU)	30% (689 cases)	24% (485 cases)	28% (551 cases)	28% (715 cases)	29% (479 cases)	30% (534 cases)
Percentage of deaths	6% (145 cases)	7% (148 cases)	7% (130 cases)	7% (176 cases)	7% (117 cases)	6% (98 cases)
<b>Nature of injuries:</b>						
Percentage of casualties suffering from cranial trauma	49%	47%	49%	51%	56%	47%
Percentage of them being considered as severe (coma)	8%	7%	9%	10%	3%	5%
Percentage of casualties suffering from fracture	23%	19%	20%	16%	19%	18%
Percentage of casualties having wounds/cuts	50%	56%	52%	52%	52%	54%
<b>Day of accident:</b>						
Percentage of casualties injured during the weekend (from Friday 6 pm to Sunday midnight)	35%	33%	37%	30%	37%	36%
<b>Time of accident:</b>						
Percentage of casualties injured during nighttime (from 6 pm to 5.59 am)	31%	32%	35%	35%	32%	31%
Peak(s) of casualties	5pm-6pm	7pm-8pm	5pm-6pm	2pm-3pm	7pm-8pm	4pm-5pm
<b>Cause of accident</b>						
Percentage of casualties injured in accidents due to human error	97%	97%	97%	97%	97%	97%
High speed	49%	52%	50%	54%	49%	51%
Alcohol abuse	13%	14%	15%	10%	12%	14%
Non respect of rights of way rules	9%	9%	9%	8%	8%	9%
Changing lane without due care	6%	6%	6%	5%	7%	5%
Dangerous overtaking	14%	9%	12%	15%	15%	15%
Driving against flow of traffic	3%	4%	2%	2%	3%	2%
Other	3%	3%	3%	3%	3%	1%
Percentage of casualties injured in accidents due to road conditions	15%	6%	10%	7%	6%	7%
Percentage of casualties injured in accidents due to weather conditions	0%	0%	0%	1%	2%	1%
Percentage of casualties injured in accidents due to vehicle defect	2%	1%	2%	3%	2%	1%





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	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08
<b>Type of accident:</b>						
Percentage of casualties injured in motorbike-motorbike collisions	39%	43%	40%	45%	41%	<b>40%</b>
Percentage of casualties injured in motorbike-4 wheeler collisions	18%	18%	20%	18%	20%	<b>21%</b>
Percentage of casualties injured in motorbike-pedestrian collisions	7%	9%	7%	7%	9%	<b>7%</b>
Percentage of motorbike casualties who fell alone	8%	7%	8%	7%	7%	<b>8%</b>
<b>Average number of people injured per accident</b>	<b>2.5</b>	<b>2.4</b>	<b>2.1</b>	<b>2.8</b>	<b>2.2</b>	<b>2.4</b>
<b>Hit and Run</b>						
Percentage of casualties injured in accidents where the driver of the vehicle causing the accidents escaped after the accident	19%	21%	22%	19%	24%	<b>20%</b>
<b>Estimation of average vehicle damage cost</b>	<b>220 US\$</b>	<b>148 US\$</b>	<b>216 US\$</b>	<b>170 US\$</b>	<b>189 US\$</b>	<b>201 US\$</b>
<b>Percentage of four-wheeled vehicles with</b>						
Left-hand-drive	68%	75%	78%	74%	83%	<b>79%</b>
Right-hand-drive	32%	25%	28%	26%	17%	<b>21%</b>
<b>Location of accident:</b>						
Percentage of casualties injured in urban areas	42%	44%	42%	41%	40%	<b>43%</b>
Percentage of casualties injured in accidents occurring on national roads	53%	56%	55%	55%	59%	<b>50%</b>
Percentage of casualties injured in accidents occurring on provincial roads	10%	9%	6%	6%	5%	<b>5%</b>
Percentage of casualties injured in accidents occurring on paved roads	76%	80%	76%	75%	80%	<b>79%</b>
<b>Characteristics of location:</b>						
Percentage of casualties injured in accidents occurring on straight roads	80%	77%	79%	80%	83%	<b>79%</b>
Percentage of casualties injured in junctions (X, T, Y-junctions and roundabout)	9%	14%	11%	8%	9%	<b>10%</b>
Percentage of casualties injured in curves	9%	9%	10%	10%	6%	<b>10%</b>
<b>Safety Measures:</b>						
Percentage of car/truck/bus drivers having a driving licence	46%	41%	41%	62%	41%	<b>38%</b>
Percentage of motorbikes' casualties wearing a helmet	6%	10%	7%	5%	5%	<b>6%</b>
<b>Time to be transferred to hospitals:</b>						
Percentage of casualties arriving at hospitals between 10 and 30 minutes after the accident	34%	32%	35%	33%	28%	<b>35%</b>
Percentage of casualties arriving at hospital more than 2 hours after the accident	37%	36%	34%	37%	40%	<b>32%</b>
<b>Way to be transferred to hospitals:</b>						
Percentage of casualties transported by ambulance	34%	27%	30%	35%	31%	<b>33%</b>
Percentage of casualties transported to the hospital by their family or relatives	58%	68%	65%	60%	61%	<b>58%</b>
Percentage of casualties arriving alone at the hospital	8%	5%	5%	5%	8%	<b>9%</b>
<b>Estimation of average cost of treatment</b>	<b>170 US\$</b>	<b>260 US\$</b>	<b>176 US\$</b>	<b>258 US\$</b>	<b>256 US\$</b>	<b>194 US\$</b>
<b>Attendance of police:</b>						
Percentage of cases where police was present on the accident site	70%	72%	66%	75%	66%	<b>65%</b>



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### VI. Data by Provinces

	Jan-08		Feb-08		Mar-08		Apr-08		May-08		Jun-08	
Number of casualties reported to RTAVIS all provinces	2,299		2,011		1,941		2,545		1,663		1,777	
Severity of injuries	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death
Banteay Meanchey	19	7	22	5	22	5	29	8	14	5	18	5
Battambang	55	8	32	7	27	6	17	6	15	6	10	2
Kampong Cham	58	18	53	22	57	20	103	33	56	10	69	10
Kampong Chhnang	16	6	7	6	12	6	20	5	15	4	4	0
Kampong Speu	37	7	25	12	18	10	37	5	23	8	19	4
Kampong Thom	31	5	4	0	22	5	9	0	24	6	18	1
Kampot	7	1	21	2	3	2	20	0	14	1	6	4
Kandal	77	18	74	14	63	18	76	31	59	17	70	9
Koh Kong	7	2	3	0	4	0	8	9	11	2	3	4
Kratie	16	3	17	8	31	5	33	5	19	0	2	4
Mondol Kiri	2	2	6	3	8	2	1	0	NYA	NYA	1	0
Phnom Penh	101	18	96	28	111	19	134	34	114	25	129	33
Preah Vihear	8	1	8	1	4	1	2	2	7	0	4	1
Prey Veng	13	7	19	8	12	2	20	1	16	1	19	4
Pursat	12	6	10	4	11	0	6	4	9	5	12	2
Ratanak Kiri	NYA	NYA	1	0	NYA	NYA	11	3	6	3	7	3
Siem Reap	129	7	16	8	97	7	89	4	25	7	78	6
Sihanoukville	26	10	12	3	10	2	24	5	8	4	4	1
Stung Treng	10	1	10	2	3	1	2	0	2	0	4	0
Svay Rieng	18	5	13	1	13	7	26	10	7	3	14	1
Takeo	24	5	26	6	11	6	22	6	21	7	4	1
Otdar Meanchey	7	6	8	7	5	6	16	4	11	0	13	3
Krong Keb	6	0	NYA	NYA	NYA	NYA	NYA	NYA	2	3	0	0
Krong Pailin	7	2	2	1	3	0	9	1	1	0	4	0
Unidentified province	3	0	0	0	4	0	1	0	0	0	0	0
<b>Total</b>	<b>689</b>	<b>145</b>	<b>485</b>	<b>148</b>	<b>551</b>	<b>130</b>	<b>715</b>	<b>176</b>	<b>479</b>	<b>117</b>	<b>512</b>	<b>98</b>

Notice: **NYA** i.e. Not yet available.





## Cambodia Road Traffic Accident and Victim Information System Monthly Report – June 2008

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### Contacts

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**Further analysis** and **additional information** is available on request. Please do not hesitate to contact one of the following persons

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