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Cambodia

Road Traffic Accident and Victim Information System



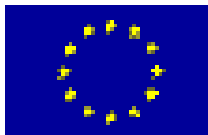
Monthly Report February 2008



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Belgian Cooperation



World Health Organization



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

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**.

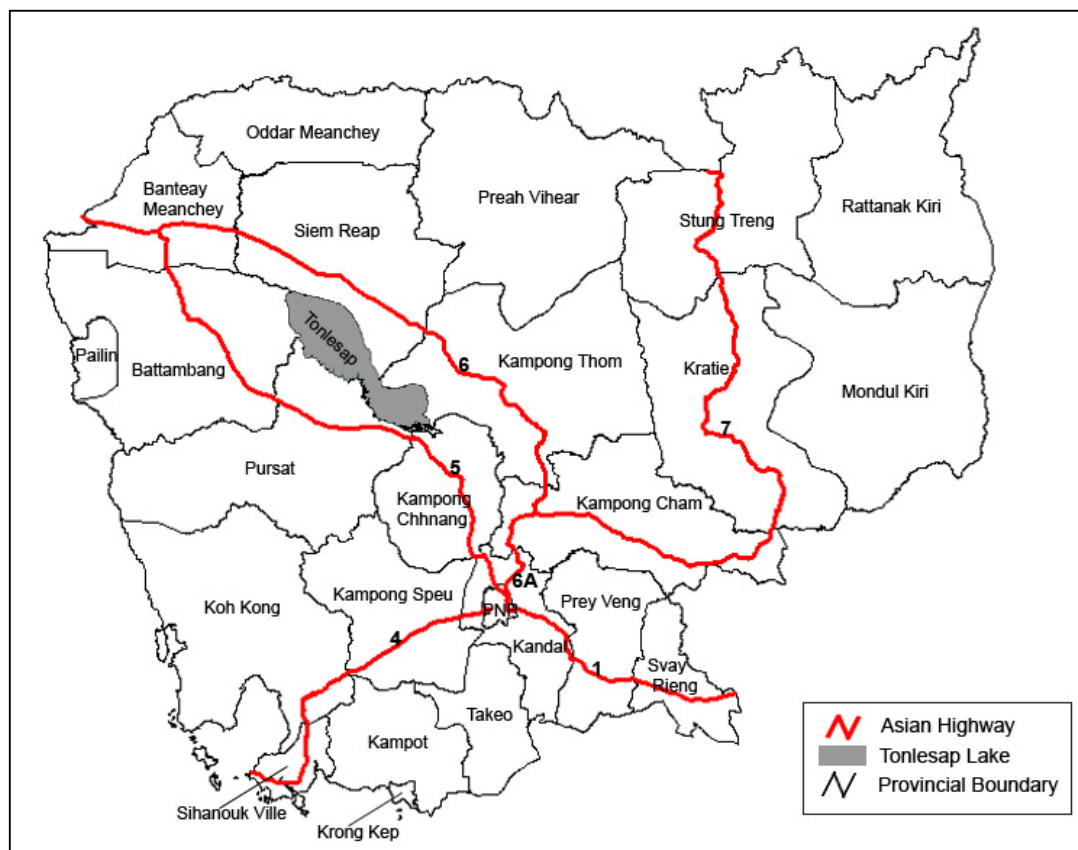
RTAVIS reports are **distributed monthly**. RTAVIS reports can also be found on the following websites: www.roadsafetycambodia.info and www.cnctp.info

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 will be released in May 2008.

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.



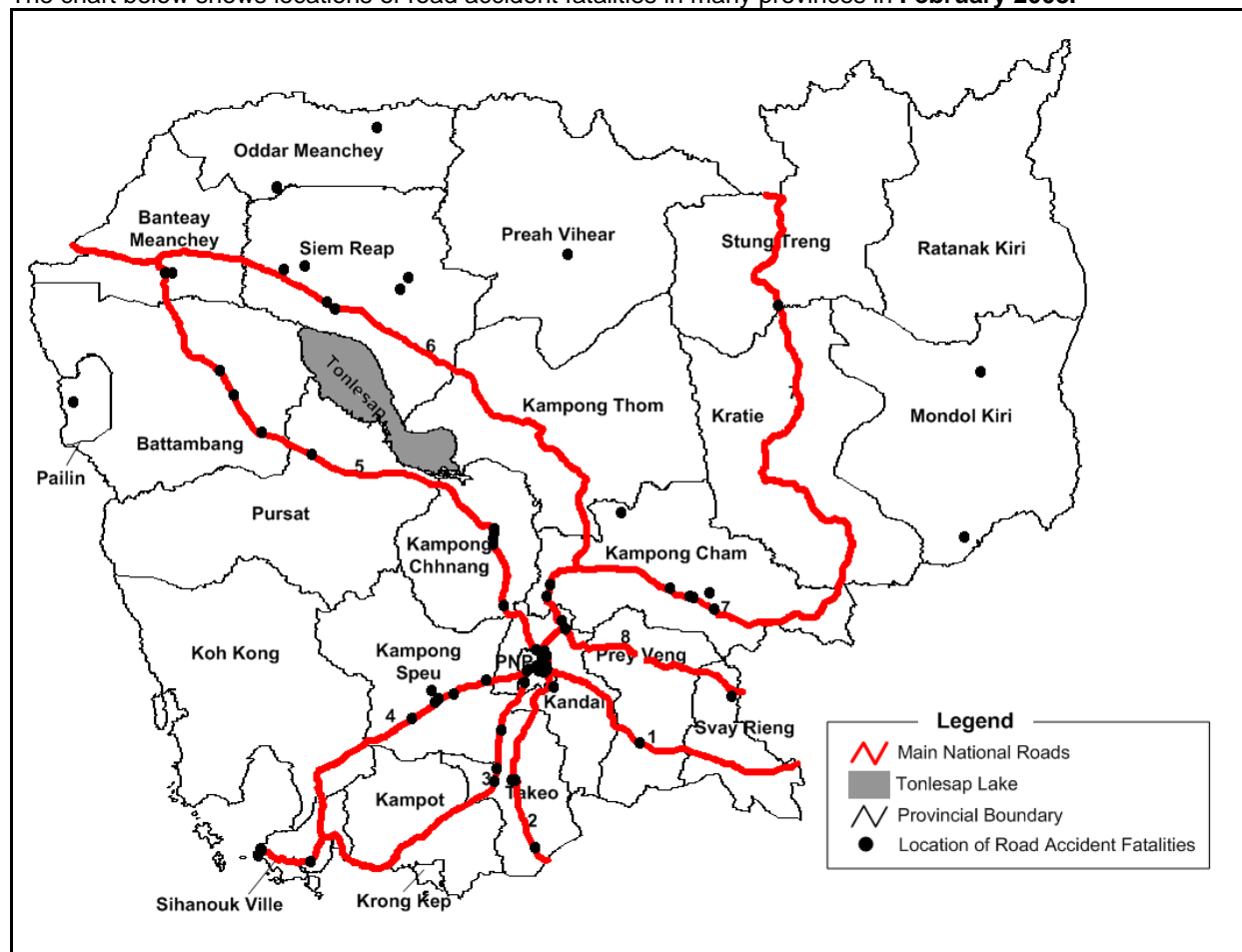
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III. System Update

Introduction of GPS

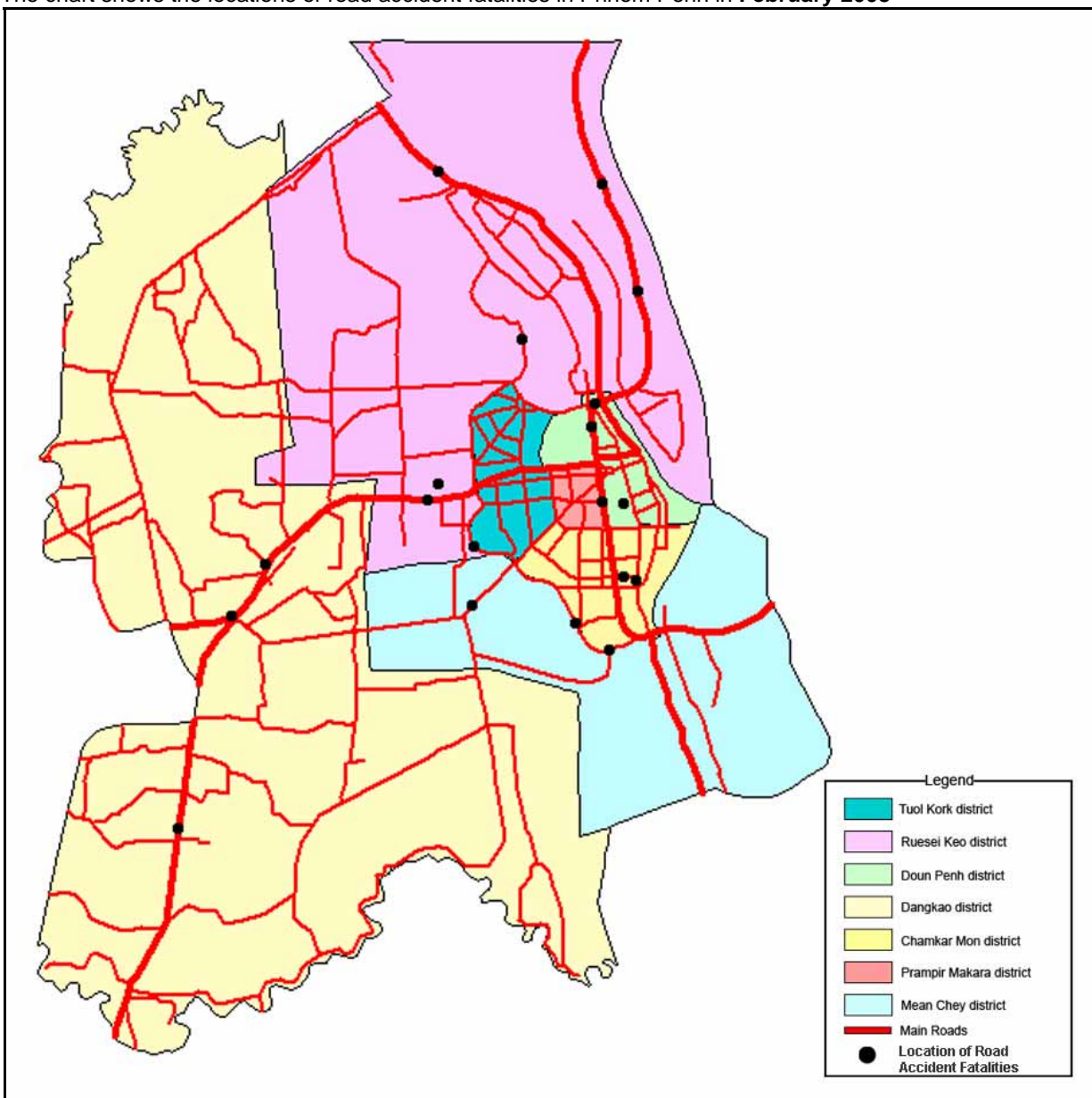
From July 2006, Global Position System (GPS) devices have been introduced to the traffic police in Russei Keo District in Phnom Penh. The GPS coordinates allow us now to exactly locate accidents, using GIS data. GPS devices have been progressively introduced to other districts of Phnom Penh and provinces 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 **February 2008**.



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

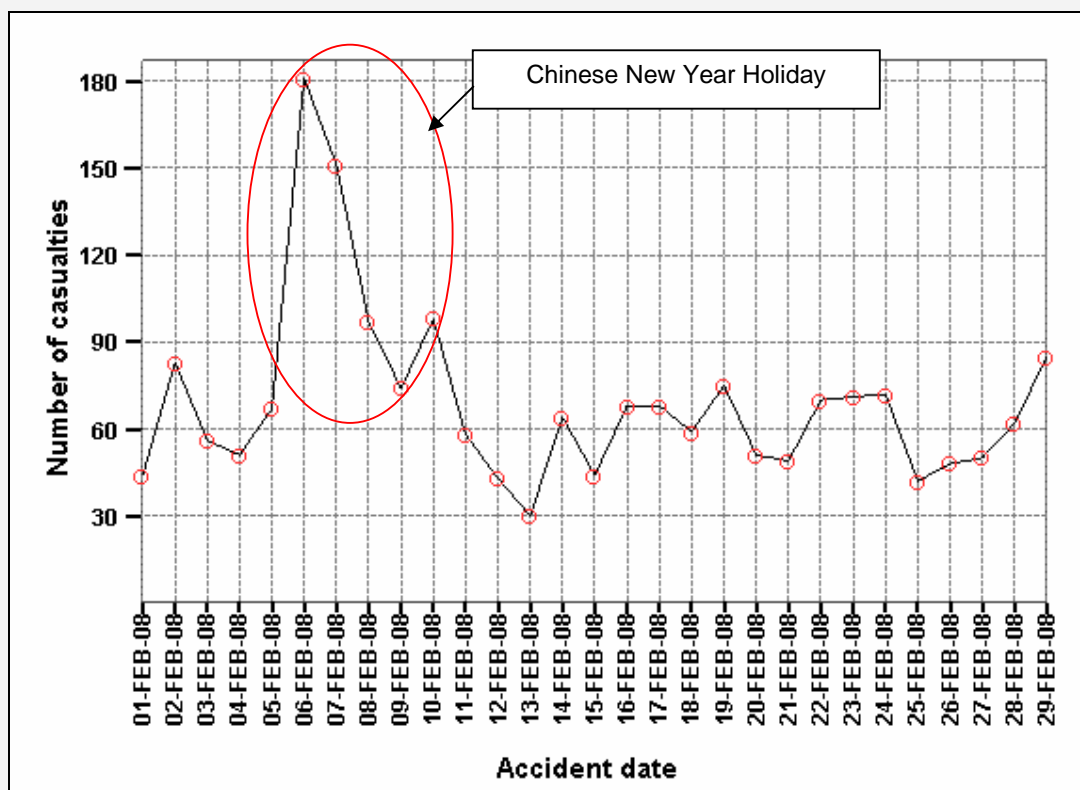


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IV. Executive Summary

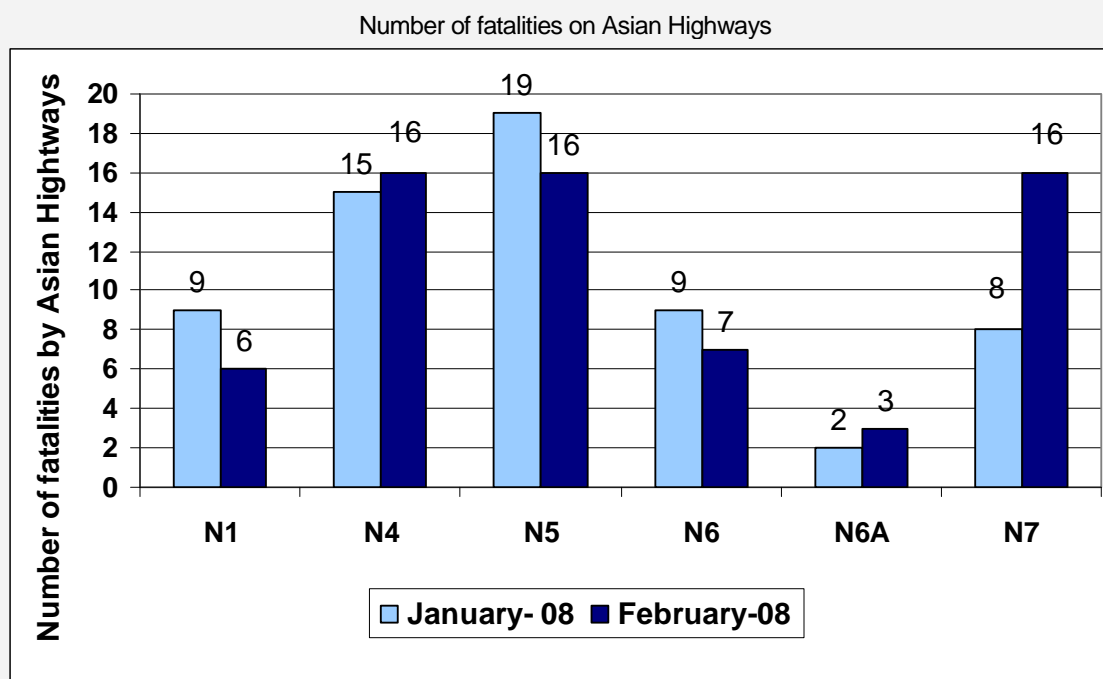
Key findings for the month of **February 2008** are the following:

- A provisional number of **2,011 casualties** were reported by the participating hospitals, health centres, private clinics and traffic police departments in the 24 reporting provinces. Among them, **485 were severely injured and 148 died**.
- **In Phnom Penh, 473 casualties** were reported, corresponding to **3% increase compared to February 2007** and **2% decrease** compared to the previous month. Among them, **28 died**.
- **11% of fatalities** were pedestrian, compared to **7% among casualties**.
- **14% of casualties** injured in junctions (X, T, Y- junctions and roundabout).
- **10% of motorbikes' casualties** were wearing a helmet, compared to 2% in February 2007.
- A peak of casualties was noticed during the Chinese New Year holiday.



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- A significant double increase of fatalities was noticed along the National road 7, mainly due to speeding.



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V. Evolution of Main Indicators

	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
Number of casualties reported to RTAVIS	2,061	2,516	2,455	2,239	2,299	2,011
Gender						
Percentage of males casualties	72%	73%	71%	74%	73%	74%
Age						
Percentage of casualties aged between 15 and 24 years old	30%	31%	31%	29%	28%	33%
Type of road user						
Percentage of motorbike riders	77%	76%	75%	75%	74%	78%
Percentage of pedestrians	9%	7%	8%	7%	7%	7%
Percentage of car riders (private and taxis)	2%	6%	5%	6%	6%	4%
Percentage of bicycle riders	4%	5%	4%	4%	4%	4%
Occupation						
Percentage of students	25%	22%	24%	25%	21%	24%
Percentage of farmers	23%	28%	25%	24%	29%	25%
Percentage of workers	20%	18%	19%	22%	21%	22%
Percentage of house keepers	6%	7%	6%	6%	6%	5%
Percentage of vendors/small businesses owners	7%	5%	5%	5%	4%	5%
Percentage of motorbike taxis	5%	3%	4%	4%	4%	3%
Residence of casualty						
Percentage of casualties residing in another province than the province of accident	15%	16%	19%	16%	15%	17%
Severity of injuries:						
Percentage of severely injured casualties (requiring surgical intervention of ICU)	29% (596 cases)	28% (695 cases)	28% (678 cases)	28% (618 cases)	30% (689 cases)	24% (485 cases)
Percentage of deaths	6% (132 cases)	6% (152 cases)	6% (144 cases)	6% (128 cases)	6% (145 cases)	7% (148 cases)
Nature of injuries:						
Percentage of casualties suffering from cranial trauma	46%	44%	40%	51%	49%	47%
Percentage of them being considered as severe (coma)	13%	10%	7%	4%	8%	7%
Percentage of casualties suffering from fracture	19%	16%	20%	20%	23%	19%
Percentage of casualties having wounds/cuts	50%	51%	54%	53%	50%	56%
Day of accident:						
Percentage of casualties injured during the weekend (from Friday 6 pm to Sunday midnight)	39%	27%	40%	37%	35%	33%
Time of accident:						
Percentage of casualties injured during nighttime (from 6 pm to 5.59 am)	30%	26%	33%	30%	31%	32%
Peak(s) of casualties	4pm-5pm	3pm-4pm	6pm-7pm	6pm-7pm	5pm-6pm	7pm-8pm
Cause of accident						
Percentage of casualties injured in accidents due to human error	95%	96%	96%	97%	97%	97%
High speed	48%	45%	52%	54%	49%	52%
Alcohol abuse	15%	14%	14%	12%	13%	14%
Non respect of rights of way rules	11%	11%	8%	7%	9%	9%
Changing lane without due care	6%	6%	5%	5%	6%	6%
Dangerous overtaking	9%	13%	11%	13%	14%	9%
Driving against flow of traffic	3%	3%	3%	3%	3%	4%
Other	3%	4%	3%	3%	3%	3%
Percentage of casualties injured in accidents due to road conditions	9%	9%	10%	12%	15%	6%
Percentage of casualties injured in accidents due to weather conditions	4%	3%	0%	0%	0%	0%
Percentage of casualties injured in accidents due to vehicle defect	4%	3%	3%	1%	2%	1%

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	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
Type of accident:						
Percentage of casualties injured in motorbike-motorbike collisions	40%	45%	45%	44%	39%	43%
Percentage of casualties injured in motorbike-4 wheeler collisions	19%	16%	17%	20%	18%	18%
Percentage of casualties injured in motorbike-pedestrian collisions	9%	7%	8%	7%	7%	9%
Percentage of motorbike casualties who fell alone	7%	6%	6%	6%	8%	7%
Average number of people injured per accident	3	3	3.2	2.6	2.5	2.4
Hit and Run						
Percentage of casualties injured in accidents where the driver of the vehicle causing the accidents escaped after the accident	26%	23%	22%	23%	19%	21%
Estimation of average vehicle damage cost	177 US\$	160 US\$	166 US\$	190 US\$	220 US\$	148 US\$
Percentage of four-wheeled vehicles with						
Left-hand-drive	75%	74%	70%	70%	68%	75%
Right-hand-drive	25%	26%	30%	30%	32%	25%
Location of accident:						
Percentage of casualties injured in urban areas	47%	41%	50%	44%	42%	44%
Percentage of casualties injured in accidents occurring on national roads	53%	58%	54%	55%	53%	56%
Percentage of casualties injured in accidents occurring on provincial roads	8%	6%	4%	5%	10%	9%
Percentage of casualties injured in accidents occurring on paved roads	81%	79%	79%	76%	76%	80%
Characteristics of location:						
Percentage of casualties injured in accidents occurring on straight roads	78%	78%	80%	83%	80%	77%
Percentage of casualties injured in junctions (X, T, Y-junctions and roundabout)	14%	12%	8%	9%	9%	14%
Percentage of casualties injured in curves	8%	10%	12%	7%	9%	9%
Safety Measures:						
Percentage of car/truck/bus drivers having a driving licence	52%	50%	55%	50%	46%	41%
Percentage of motorbikes' casualties wearing a helmet	4%	3%	7%	4%	6%	10%
Time to be transferred to hospitals:						
Percentage of casualties arriving at hospitals between 10 and 30 minutes after the accident	32%	39%	36%	30%	34%	32%
Percentage of casualties arriving at hospital more than 2 hours after the accident	39%	33%	33%	39%	37%	36%
Way to be transferred to hospitals:						
Percentage of casualties transported by ambulance	33%	34%	31%	43%	34%	27%
Percentage of casualties transported to the hospital by their family or relatives	59%	59%	61%	53%	58%	68%
Percentage of casualties arriving alone at the hospital	8%	7%	8%	4%	8%	5%
Estimation of average cost of treatment	161 US\$	146 US\$	173 US\$	185 US\$	170 US\$	260 US\$
Attendance of police:						
Percentage of cases where police was present on the accident site	69%	73%	64%	69%	70%	72%

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VI. Data by Provinces

	Sep-07		Oct-07		Nov-07		Dec-07		Jan-08		Feb-08	
Number of casualties reported to RTAVIS all provinces	2,061		2,516		2,455		2,239		2,299		2,011	
Severity of injuries	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death
Banteay Meanchey	26	3	9	3	21	2	21	9	19	7	22	5
Battambang	44	9	31	7	29	3	22	5	55	8	32	7
Kampong Cham	32	15	49	17	79	37	58	21	58	18	53	22
Kampong Chhnang	24	6	20	7	19	6	30	3	16	6	7	6
Kampong Speu	29	6	17	3	15	5	15	3	37	7	25	12
Kampong Thom	26	8	36	14	32	10	35	6	31	5	4	0
Kampot	8	1	24	2	15	2	7	4	7	1	21	2
Kandal	64	14	65	14	62	14	70	6	77	18	74	14
Koh Kong	6	0	9	3	4	1	9	3	7	2	3	0
Kratie	13	3	34	2	31	7	15	3	16	3	17	8
Mondol Kiri	4	1	7	1	4	1	5	1	2	2	6	3
Phnom Penh	144	31	101	29	173	21	121	18	101	18	96	28
Preah Vihear	3	0	4	1	3	3	1	0	8	1	8	1
Prey Veng	21	3	54	2	8	2	25	5	13	7	19	8
Pursat	8	2	30	8	27	13	22	1	12	6	10	4
Ratanak Kiri	3	0	8	0	8	1	4	6	NYA	NYA	1	0
Siem Reap	68	10	86	10	70	7	82	7	129	7	16	8
Sihanoukville	10	8	18	3	14	1	18	5	26	10	12	3
Stung Treng	5	1	9	0	3	1	10	0	10	1	10	2
Svay Rieng	14	3	11	10	11	3	10	2	18	5	13	1
Takeo	30	5	28	12	22	2	22	15	24	5	26	6
Otdar Meanchey	3	2	35	2	20	0	10	2	7	6	8	7
Krong Keb	0	1	1	1	0	0	1	0	6	0	NYA	NYA
Krong Pailin	10	0	8	1	7	2	4	3	7	2	2	1
Unidentified province	1	0	1	0	1	0	1	0	3	0	0	0
Total	596	132	695	152	678	144	618	128	689	145	485	148

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

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Contacts

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

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