

Cambodia

Road Traffic Accident and Victim Information System



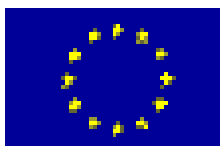
Monthly Report September 2008



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Developed with the support of:

European Union



Belgian Cooperation



World Health Organization



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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**.

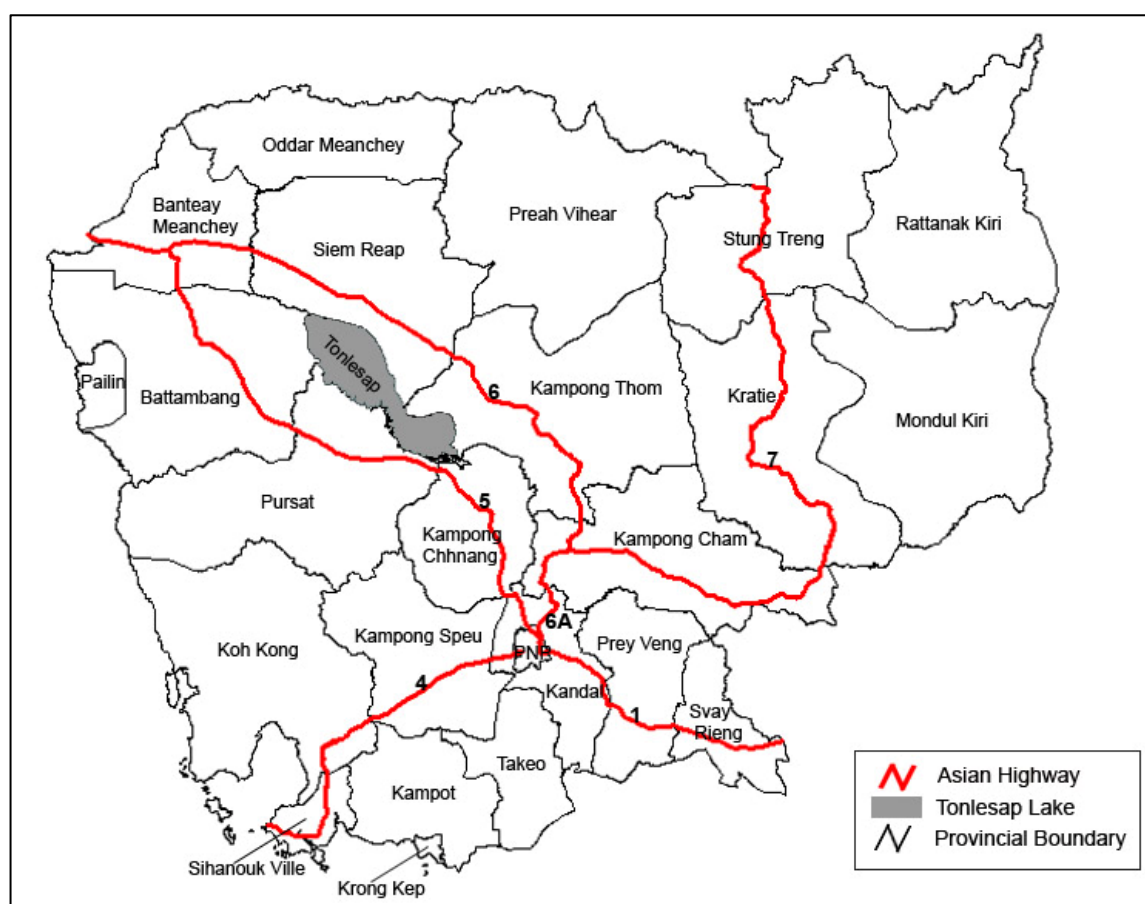
RTAVIS reports are **distributed monthly**. RTAVIS reports can also be found on the following websites: www.roadsafetycambodia.info and www.cnctp.info

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 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.



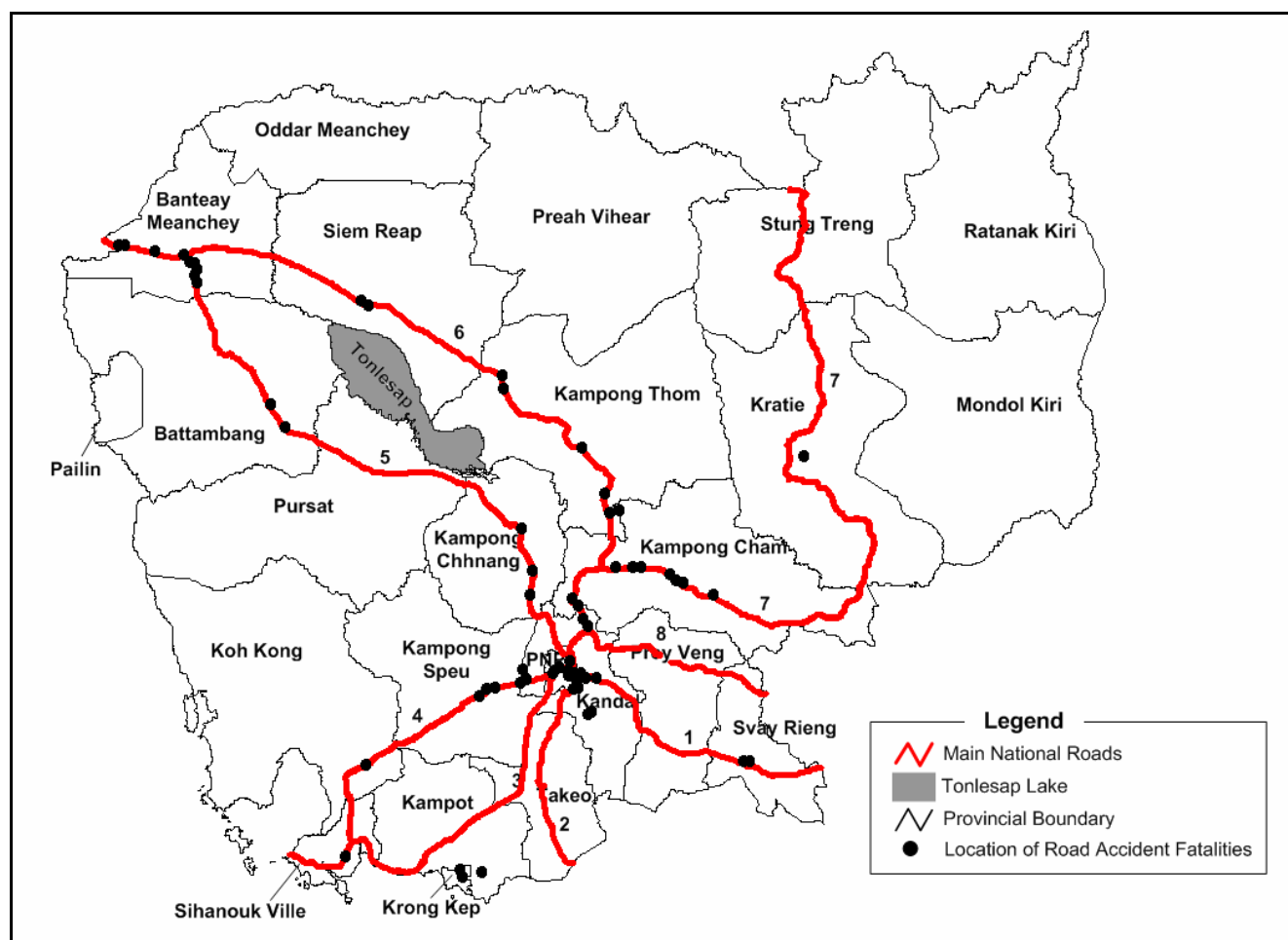
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III. System Update

Introduction of GPS

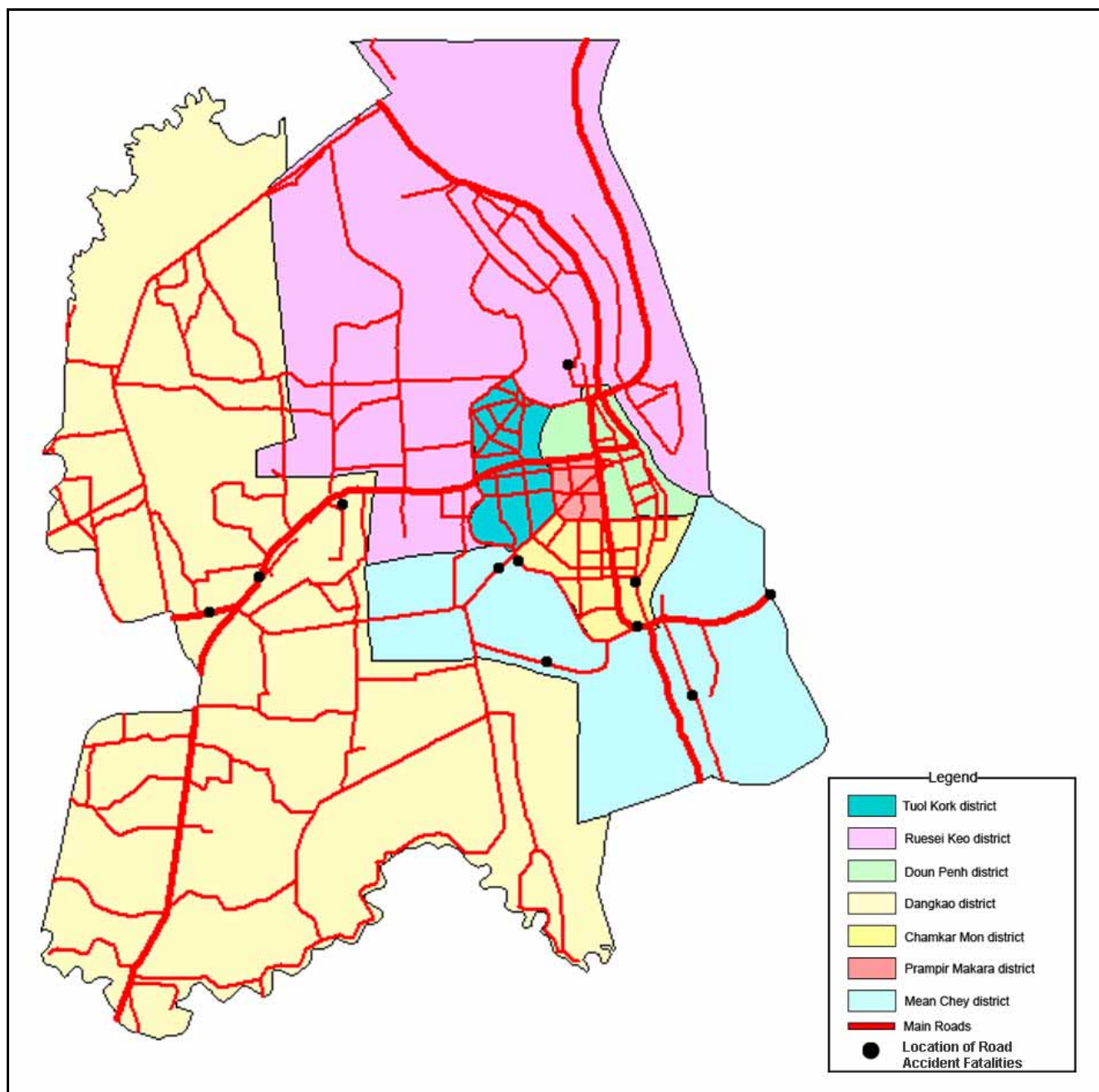
From July 2006, Global Position System (GPS) devices have been introduced to the traffic police in Russei Keo District in Phnom Penh. The GPS coordinates allow us now to exactly locate accidents, using GIS data. GPS devices have been progressively introduced to other districts of Phnom Penh and provinces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



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

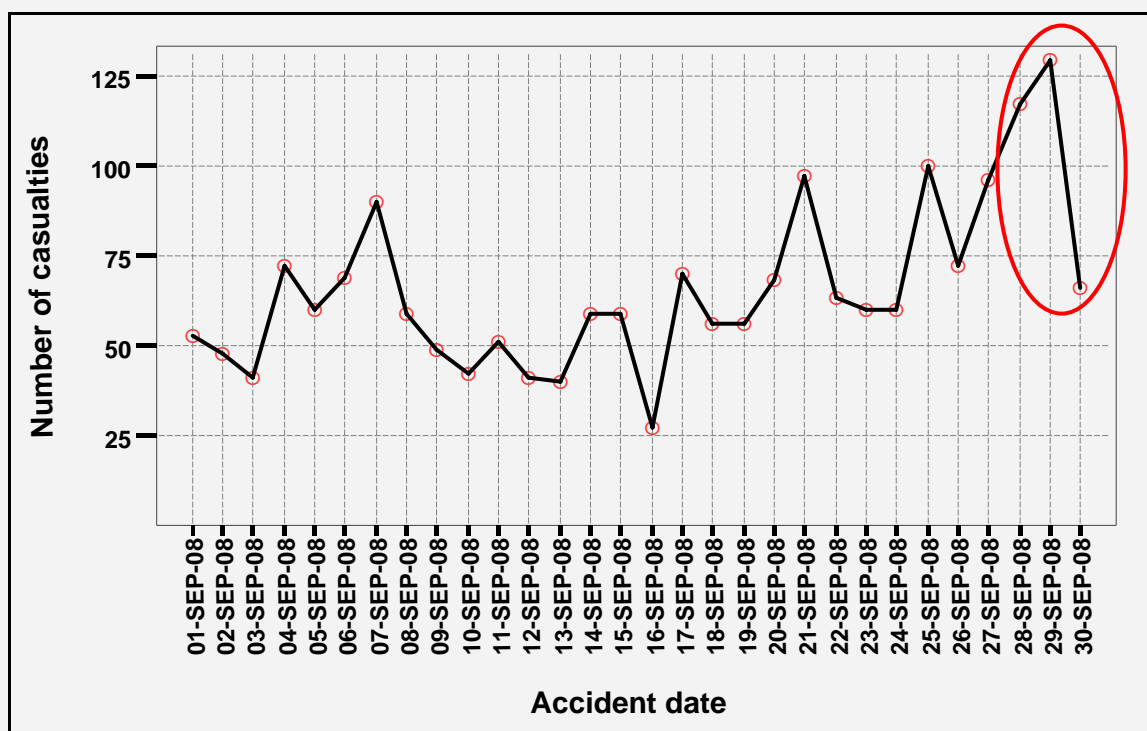


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IV. Executive Summary

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

- A provisional number of **1,970 casualties** were reported by the participating hospitals, health centres, private clinics and traffic police departments in the 24 reporting provinces. Among them, **538 were severely injured and 129 died**.
- **In Phnom Penh, 531 casualties** were reported, corresponding to **10% increase compared to September 2007** and **24% increase** compared to the previous month. Among them **18 died**. **33% of those fatalities were workers**, followed by **students (17%), house keepers/servants (17%) and motor taxi drivers (17%)**.
- **44% of fatalities in Phnom Penh** aged between **20 and 24 years old**, compared to only 20 % in provinces.
- **73% of fatalities** injured in accidents occurring on **national roads**.
- **Highest daily numbers of casualties were reported during the Pchum Ben period** (28th, 29th, and 30th of September), with a peak of 129 on the 29th, 2 times more than the daily average of casualties in the month. **In total, 292 people were injured (24% decrease compared to 2007) and 20 died during this 3-day holiday**.



- **69% of fatalities** were **motorbike riders**, followed by pedestrians (10%).

Head injury among motorbike fatalities

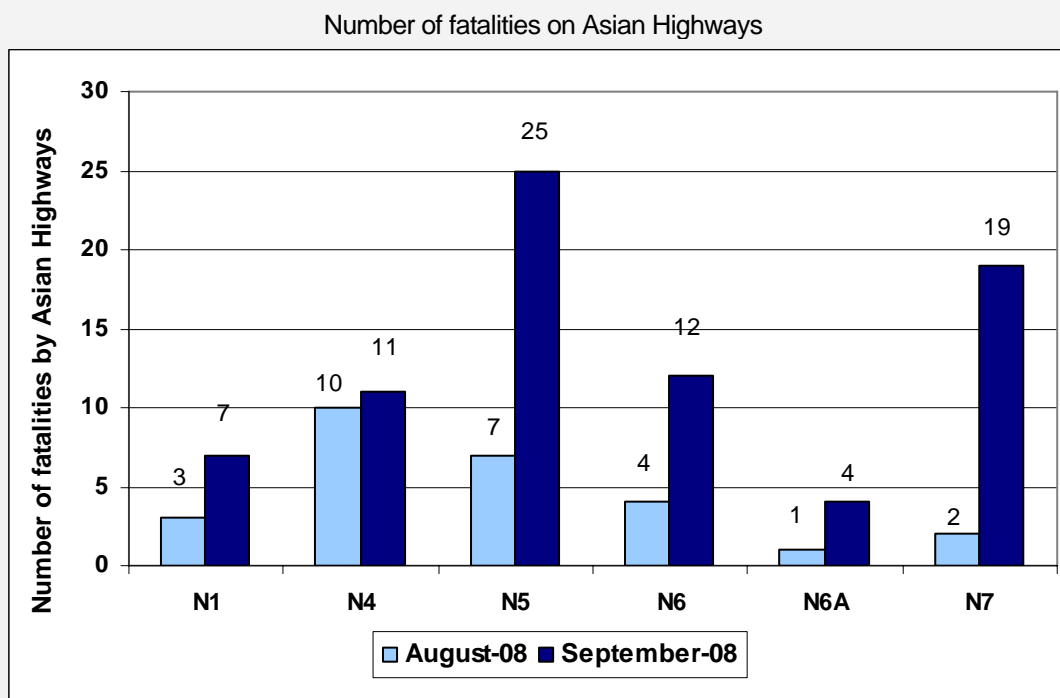
86% of motorbike fatalities suffered head injury.

- 72% of those head injured fatalities got an accident along the national roads.
- 42% of them died at an accident scene.
- Kampong Cham province had highest fatalities (36%) compared to other provinces.
- 27% aged between 20-29 years old.



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- **A significant increase** of fatalities was observed on the **National Road 5** (25 fatalities) and **National Road 7** (19 fatalities).



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V. Evolution of Main Indicators

	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Number of casualties reported to RTAVIS	2,545	1,663	1,777	1,828	1,455	1,970
Gender						
Percentage of males casualties	73%	73%	73%	72%	73%	71%
Age						
Percentage of casualties aged between 15 and 24 years old	33%	39%	39%	37%	38%	40%
Type of road user						
Percentage of motorbike riders	77%	77%	79%	79%	81%	80%
Percentage of pedestrians	7%	8%	8%	6%	6%	6%
Percentage of car riders (private and taxis)	4%	5%	3%	4%	3%	4%
Percentage of bicycle riders	4%	4%	4%	3%	4%	3%
Occupation						
Percentage of students	25%	24%	23%	22%	21%	24%
Percentage of farmers	27%	25%	23%	25%	29%	28%
Percentage of workers	22%	20%	24%	25%	20%	17%
Percentage of house keepers	5%	6%	4%	6%	4%	4%
Percentage of vendors/small businesses owners	6%	8%	7%	6%	7%	7%
Percentage of motorbike taxis	3%	3%	4%	3%	3%	3%
Residence of casualty						
Percentage of casualties residing in another province than the province of accident	18%	17%	17%	18%	16%	17%
Severity of injuries:						
Percentage of severely injured casualties (requiring surgical intervention of ICU)	28% (715 cases)	29% (479 cases)	30% (534 cases)	30% (551 cases)	25% (358 cases)	27% (538 cases)
Percentage of deaths	7% (176 cases)	7% (117 cases)	6% (98 cases)	7% (124 cases)	5% (70 cases)	7% (129 cases)
Nature of injuries:						
Percentage of casualties suffering from cranial trauma	51%	56%	47%	51%	45%	49%
Percentage of them being considered as severe (coma)	10%	3%	5%	4%	6%	4%
Percentage of casualties suffering from fracture	16%	19%	18%	18%	19%	15%
Percentage of casualties having wounds/cuts	52%	52%	54%	53%	57%	60%
Day of accident:						
Percentage of casualties injured during the weekend (from Friday 6 pm to Sunday midnight)	30%	37%	36%	38%	39%	36%
Time of accident:						
Percentage of casualties injured during nighttime (from 6 pm to 5.59 am)	35%	32%	31%	34%	31%	28%
Peak(s) of casualties	2pm-3pm	7pm-8pm	4pm-5pm	7pm-8pm	5pm-6pm	6pm-7pm
Cause of accident						
Percentage of casualties injured in accidents due to human error	97%	97%	97%	98%	98%	98%
High speed	54%	49%	51%	54%	55%	54%
Alcohol abuse	10%	12%	14%	14%	14%	13%
Non respect of rights of way rules	8%	8%	9%	7%	7%	10%
Changing lane without due care	5%	7%	5%	4%	4%	5%
Dangerous overtaking	15%	15%	15%	15%	11%	9%
Driving against flow of traffic	2%	3%	2%	2%	3%	4%
Other	3%	3%	1%	2%	4%	3%
Percentage of casualties injured in accidents due to road conditions	7%	6%	7%	8%	6%	5%
Percentage of casualties injured in accidents due to weather conditions	1%	2%	1%	1%	3%	3%
Percentage of casualties injured in accidents due to vehicle defect	3%	2%	1%	2%	2%	2%



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	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Type of accident:						
Percentage of casualties injured in motorbike-motorbike collisions	45%	41%	40%	45%	49%	47%
Percentage of casualties injured in motorbike-4 wheeler collisions	18%	20%	21%	18%	16%	18%
Percentage of casualties injured in motorbike-pedestrian collisions	7%	9%	7%	7%	8%	7%
Percentage of motorbike casualties who fell alone	7%	7%	8%	7%	7%	8%
Average number of people injured per accident	2.8	2.2	2.4	2.4	2.3	2.6
Hit and Run						
Percentage of casualties injured in accidents where the driver of the vehicle causing the accidents escaped after the accident	19%	24%	20%	27%	25%	20%
Estimation of average vehicle damage cost	170 US\$	189 US\$	201 US\$	170 US\$	173 US\$	145 US\$
Percentage of four-wheeled vehicles with						
Left-hand-drive	74%	83%	79%	71%	73%	74%
Right-hand-drive	26%	17%	21%	29%	27%	26%
Location of accident:						
Percentage of casualties injured in urban areas	41%	40%	43%	41%	47%	44%
Percentage of casualties injured in accidents occurring on national roads	55%	59%	50%	56%	55%	53%
Percentage of casualties injured in accidents occurring on provincial roads	6%	5%	5%	5%	8%	8%
Percentage of casualties injured in accidents occurring on paved roads	75%	80%	79%	81%	83%	82%
Characteristics of location:						
Percentage of casualties injured in accidents occurring on straight roads	80%	83%	79%	77%	76%	80%
Percentage of casualties injured in junctions (X, T, Y-junctions and roundabout)	8%	9%	10%	9%	13%	10%
Percentage of casualties injured in curves	10%	6%	10%	13%	9%	8%
Safety Measures:						
Percentage of car/truck/bus drivers having a driving licence	62%	41%	38%	48%	71%	58%
Percentage of motorbikes' casualties wearing a helmet	5%	5%	6%	10%	9%	8%
Time to be transferred to hospitals:						
Percentage of casualties arriving at hospitals between 10 and 30 minutes after the accident	33%	28%	35%	31%	30%	34%
Percentage of casualties arriving at hospital more than 2 hours after the accident	37%	40%	32%	36%	37%	36%
Way to be transferred to hospitals:						
Percentage of casualties transported by ambulance	35%	31%	33%	36%	31%	32%
Percentage of casualties transported to the hospital by their family or relatives	60%	61%	58%	55%	56%	54%
Percentage of casualties arriving alone at the hospital	5%	8%	9%	9%	13%	14%
Estimation of average cost of treatment	258 US\$	256 US\$	194 US\$	174 US\$	133 US\$	156 US\$
Attendance of police:						
Percentage of cases where police was present on the accident site	75%	66%	65%	66%	59%	68%



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VI. Data by Provinces

	Apr-08		May-08		Jun-08		Jul-08		Aug-08		Sep-08	
Number of casualties reported to RTAVIS all provinces	2,545		1,663		1,777		1,828		1,455		1,970	
Severity of injuries	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death
Banteay Meanchey	29	8	14	5	18	5	12	4	17	4	29	17
Battambang	17	6	15	6	10	2	14	7	16	1	16	8
Kampong Cham	103	33	56	10	69	10	56	13	23	7	48	23
Kampong Chhnang	20	5	15	4	4	0	10	2	9	1	27	5
Kampong Speu	37	5	23	8	19	4	26	3	16	8	17	4
Kampong Thom	9	0	24	6	18	1	18	4	11	1	16	10
Kampot	20	0	14	1	6	4	15	3	3	1	13	3
Kandal	76	31	59	17	70	9	61	22	64	13	74	18
Koh Kong	8	9	11	2	3	4	1	4	15	2	8	3
Kratie	33	5	19	0	2	4	26	4	29	0	9	2
Mondol Kiri	1	0	NYA	NYA	1	0	1	0	NYA	NYA	2	0
Phnom Penh	134	34	114	25	129	33	103	29	67	7	104	18
Preah Vihear	2	2	7	0	4	1	6	0	3	0	2	0
Prey Veng	20	1	16	1	19	4	18	6	11	5	24	3
Pursat	6	4	9	5	12	2	11	3	11	1	8	1
Ratanak Kiri	11	3	6	3	7	3	4	0	3	4	5	1
Siem Reap	89	4	25	7	78	6	105	3	22	3	64	4
Sihanoukville	24	5	8	4	4	1	16	4	8	7	20	1
Stung Treng	2	0	2	0	4	0	6	1	1	0	7	1
Svay Rieng	26	10	7	3	14	1	12	2	3	0	8	2
Takeo	22	6	21	7	4	1	23	5	20	4	20	2
Otdar Meanchey	16	4	11	0	13	3	1	0	NYA	NYA	7	0
Krong Keb	NYA	NYA	2	3	0	0	3	3	0	0	2	2
Krong Pailin	9	1	1	0	4	0	3	2	6	1	7	0
Unidentified province	1	0	0	0	0	0	0	0	0	0	1	1
Total	715	176	479	117	512	98	551	124	358	70	538	129

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

- **For additional analysis/customized reports and information on the road safety situation in Cambodia:**

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