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# Cambodia

## Road Traffic Accident and Victim Information System



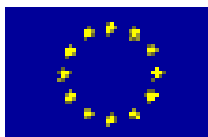
### Monthly Report October 2007



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European Union



Belgian Cooperation



World Health Organization



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# Cambodia Road Traffic Accident and Victim Information System Monthly Report – October 2007

## 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**.

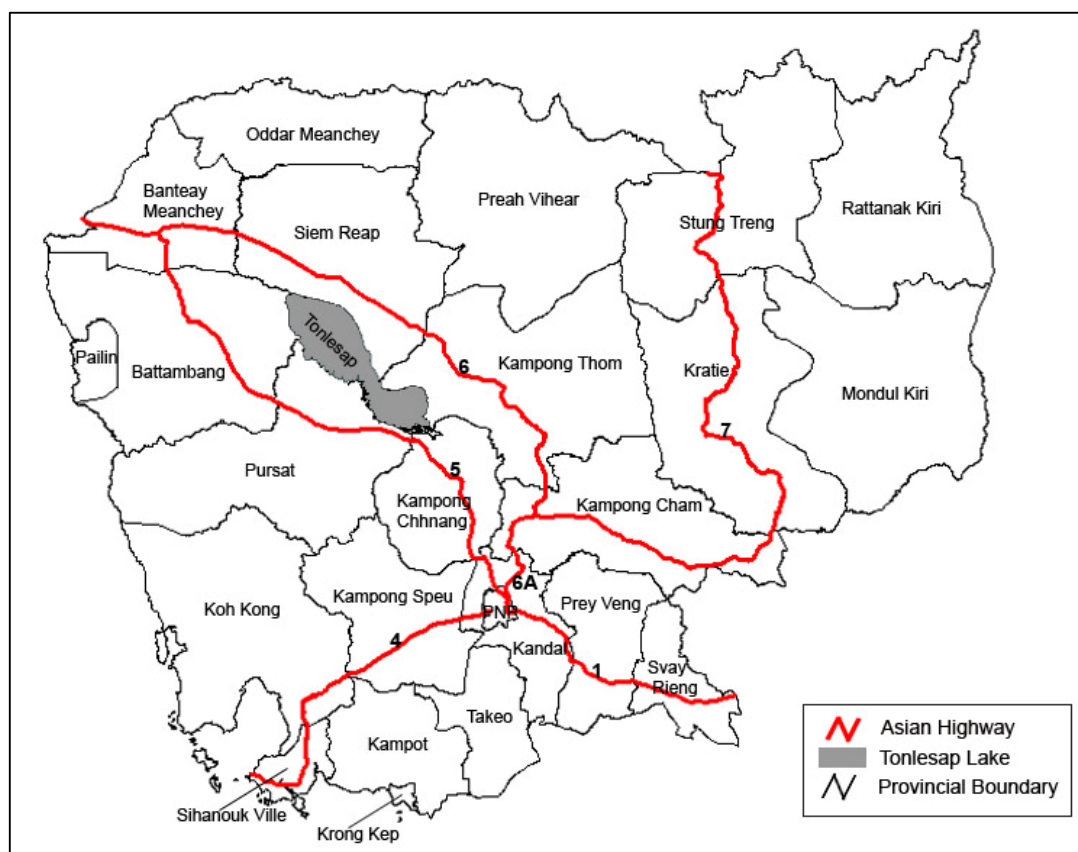
RTAVIS reports are **distributed monthly**. RTAVIS reports can also be found on the following websites: [www.roadsafetycambodia.info](http://www.roadsafetycambodia.info) and [www.cnctp.info](http://www.cnctp.info)

### **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 2006 has been released in June 2007.

## 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.

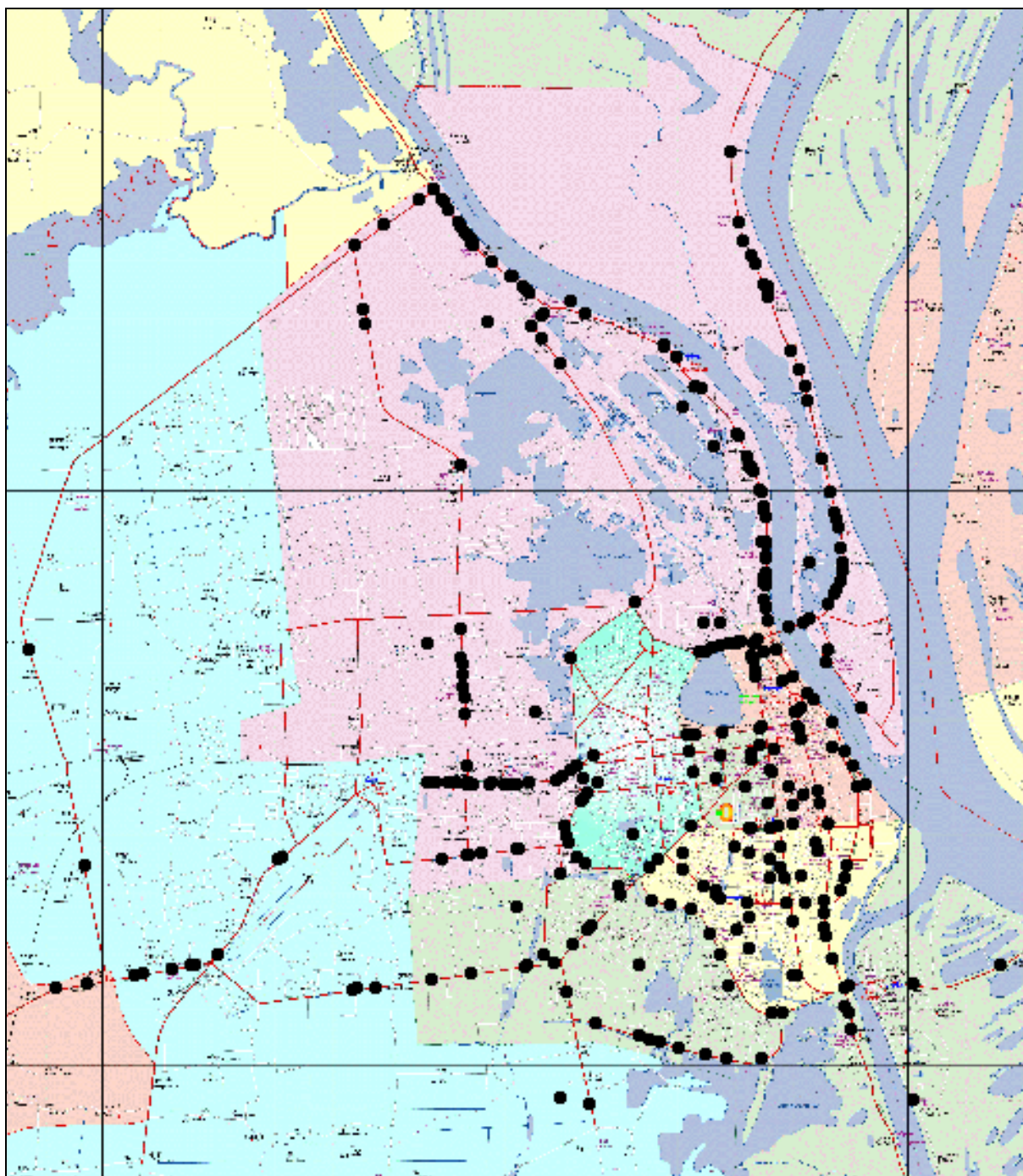




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The chart shows the locations of road traffic accidents in Phnom Penh from July 2006 to October 2007



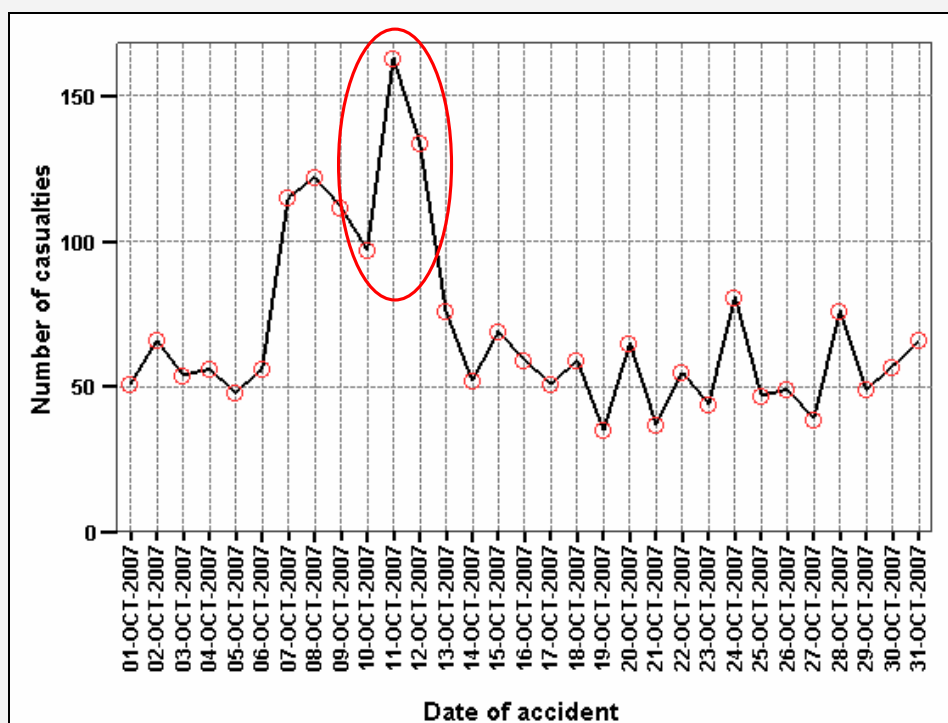


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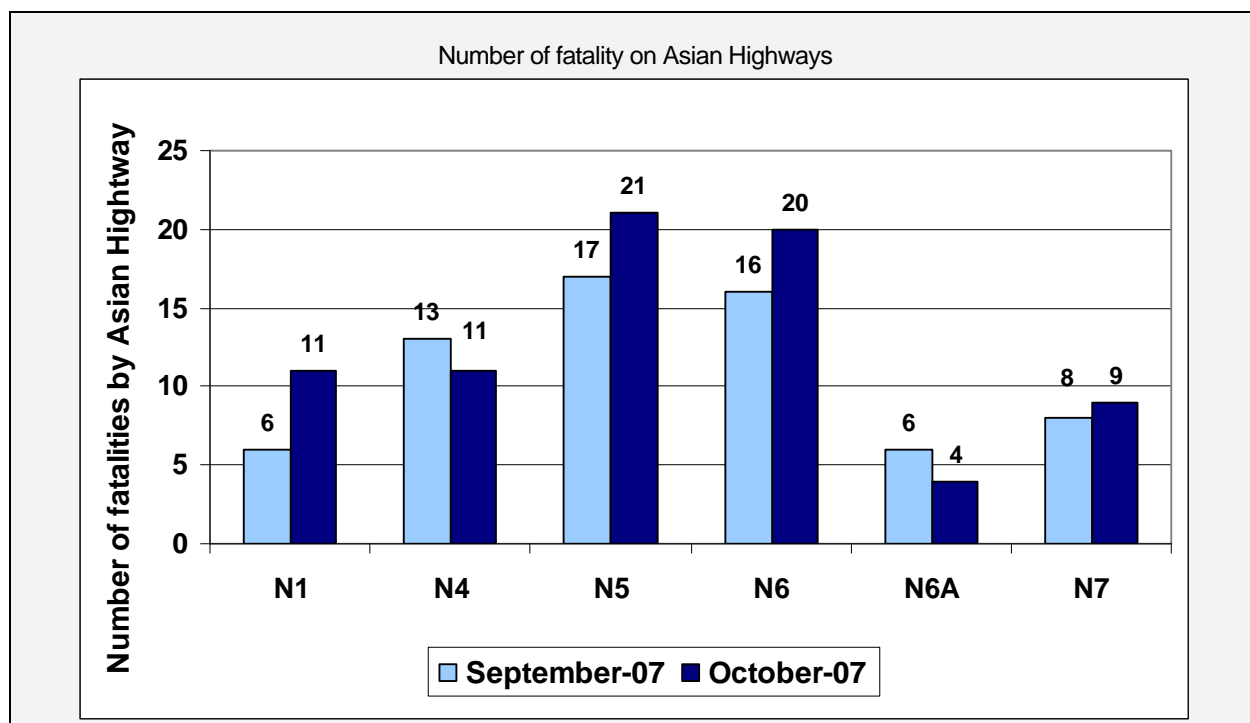
### IV. Executive Summary

Key findings for the month of **October 2007** are the following:

- A provisional number of **2,140 casualties** were reported by the participating hospitals, health centres, private clinics and traffic police departments in the 24 reporting provinces. Among them, **616 were severely injured and 136 died**.
- **In Phnom Penh, 463** casualties were reported, corresponding to a **7% increase compared to October 2006** and a **4% decrease** compared to the previous month.
- **44% of casualties** suffered from head injuries.
- **29% of casualties** were severely injured (requiring surgical intervention of ICU).
- **3% of motorbikes' casualties** were wearing a helmet.
- **Highest daily numbers of casualties were reported during the Pchum Ben period** (10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> of October), with a peak of 163 on the 11<sup>th</sup> of October, 2 times more than the daily average of casualties in the month. **In total, 370 people were injured and 24 died during this 3-day holiday.**



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### V. Evolution of Main Indicators

	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07
<b>Number of casualties reported to RTAVIS</b>	1,768	1,531	1,538	1,504	1,818	2,140
<b>Gender</b>						
Percentage of males casualties	74%	75%	75%	72%	72%	73%
<b>Age</b>						
Percentage of casualties aged between 15 and 24 years old	34%	31%	35%	28%	30%	31%
<b>Type of road user</b>						
Percentage of motorbike riders	74%	75%	77%	74%	77%	76%
Percentage of pedestrians	7%	6%	9%	9%	9%	7%
Percentage of car riders (private and taxis)	6%	4%	4%	7%	2%	6%
Percentage of bicycle riders	4%	5%	6%	3%	4%	5%
<b>Occupation</b>						
Percentage of students	21%	24%	24%	23%	25%	22%
Percentage of farmers	28%	20%	21%	17%	23%	28%
Percentage of workers	19%	25%	23%	21%	20%	18%
Percentage of house keepers	6%	5%	5%	7%	6%	7%
Percentage of vendors/small businesses owners	7%	6%	5%	5%	7%	5%
Percentage of motorbike taxis	4%	4%	5%	6%	5%	3%
<b>Residence of casualty</b>						
Percentage of casualties residing in another province than the province of accident	14%	17%	20%	18%	15%	16%
<b>Severity of injuries:</b>						
Percentage of severely injured casualties (requiring surgical intervention of ICU)	23% (407 cases)	27% (416 cases)	30% (460 cases)	32% (488 cases)	30% (537 cases)	29% (616 cases)
Percentage of deaths	5% (96 cases)	7% (103 cases)	6% (92 cases)	6% (99 cases)	6% (121 cases)	6% (136 cases)
<b>Nature of injuries:</b>						
Percentage of casualties suffering from cranial trauma	36%	41%	44%	45%	46%	44%
Percentage of them being considered as severe (coma)	15%	8%	8%	10%	13%	10%
Percentage of casualties suffering from fracture	14%	15%	16%	23%	19%	16%
Percentage of casualties having wounds/cuts	58%	50%	54%	47%	50%	51%
<b>Day of accident:</b>						
Percentage of casualties injured during the weekend (from Friday 6 pm to Sunday midnight)	32%	39%	34%	32%	39%	27%
<b>Time of accident:</b>						
Percentage of casualties injured during nighttime (from 6 pm to 5.59 am)	30%	31%	33%	32%	30%	26%
Peak(s) of casualties	7pm-8pm	4pm-5pm and 7pm-8pm	5pm-6pm	7pm-8pm	4pm-5pm	3pm-4pm
<b>Cause of accident</b>						
Percentage of casualties injured in accidents due to human error	95%	94%	91%	94%	95%	96%
High speed	45%	46%	50%	45%	48%	45%
Alcohol abuse	17%	14%	16%	15%	15%	14%
Non respect of rights of way rules	8%	10%	10%	11%	11%	11%
Changing lane without due care	5%	5%	5%	6%	6%	6%
Dangerous overtaking	15%	13%	5%	10%	9%	13%
Driving against flow of traffic	3%	5%	3%	4%	3%	3%
Other	2%	1%	2%	3%	3%	4%
Percentage of casualties injured in accidents due to road conditions	11%	10%	10%	9%	9%	9%
Percentage of casualties injured in accidents due to weather conditions	4%	5%	6%	6%	4%	3%
Percentage of casualties injured in accidents due to vehicle defect	6%	3%	5%	3%	4%	3%

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	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07
<b>Type of accident:</b>						
Percentage of casualties injured in motorbike-motorbike collisions	37%	37%	41%	39%	40%	45%
Percentage of casualties injured in motorbike-4 wheeler collisions	18%	18%	18%	18%	19%	16%
Percentage of casualties injured in motorbike-pedestrian collisions	7%	7%	8%	8%	9%	7%
Percentage of motorbike casualties who fell alone	11%	10%	9%	9%	7%	6%
<b>Average number of people injured per accident</b>	2.7	2.8	2	2.5	3	3
<b>Hit and Run</b>						
Percentage of casualties injured in accidents where the driver of the vehicle causing the accidents escaped after the accident	21%	23%	23%	18%	26%	23%
<b>Estimation of average vehicle damage cost</b>	156 US\$	178 US\$	156 US\$	204 US\$	177 US\$	160 US\$
<b>Percentage of four-wheeled vehicles with</b>						
Left-hand-drive	71%	72%	69%	61%	75%	74%
Right-hand-drive	29%	28%	31%	39%	25%	26%
<b>Location of accident:</b>						
Percentage of casualties injured in urban areas	42%	46%	53%	53%	47%	41%
Percentage of casualties injured in accidents occurring on national roads	57%	56%	51%	48%	53%	58%
Percentage of casualties injured in accidents occurring on provincial roads	6%	10%	7%	8%	8%	6%
Percentage of casualties injured in accidents occurring on paved roads	77%	79%	82%	80%	81%	79%
<b>Characteristics of location:</b>						
Percentage of casualties injured in accidents occurring on straight roads	78%	75%	81%	76%	78%	78%
Percentage of casualties injured in junctions (X, T, Y-junctions and roundabout)	10%	12%	8%	13%	14%	12%
Percentage of casualties injured in curves	8%	13%	10%	11%	8%	10%
<b>Safety Measures:</b>						
Percentage of car/truck/bus drivers having a driving licence	51%	50%	48%	52%	52%	50%
Percentage of motorbikes' casualties wearing a helmet	4%	2%	3%	3%	4%	3%
<b>Time to be transferred to hospitals:</b>						
Percentage of casualties arriving at hospitals between 10 and 30 minutes after the accident	31%	37%	38%	32%	32%	39%
Percentage of casualties arriving at hospital more than 2 hours after the accident	36%	35%	30%	38%	39%	33%
<b>Way to be transferred to hospitals:</b>						
Percentage of casualties transported by ambulance	21%	27%	34%	36%	33%	34%
Percentage of casualties transported to the hospital by their family or relatives	64%	63%	55%	57%	59%	59%
Percentage of casualties arriving alone at the hospital	15%	10%	11%	7%	8%	7%
<b>Estimation of average cost of treatment</b>	143 US\$	119 US\$	131 US\$	182 US\$	161 US\$	146 US\$
<b>Attendance of police:</b>						
Percentage of cases where police was present on the accident site	56%	65%	67%	68%	69%	73%



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### VI. Data by Provinces

	May-07		Jun-07		Jul-07		Aug-07		Sep-07		Oct-07	
Number of casualties reported to RTAVIS all provinces	1,768		1,531		1,538		1,504		1,818		2,140	
Severity of injuries	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death
Banteay Meanchey	9	8	11	4	21	7	13	3	20	3	6	3
Battambang	11	2	5	8	16	15	43	6	43	9	17	7
Kampong Cham	70	18	45	18	36	9	34	13	30	15	47	17
Kampong Chhnang	14	3	24	5	16	4	20	5	32	6	16	7
Kampong Speu	35	2	10	3	6	0	17	2	25	6	18	3
Kampong Thom	12	5	13	9	31	7	10	1	30	8	29	13
Kampot	7	2	2	1	9	4	9	1	6	1	25	2
Kandal	43	9	39	12	52	12	48	12	61	12	65	14
Koh Kong	6	1	8	0	3	4	7	2	6	0	9	3
Kratie	9	2	9	1	6	1	11	0	6	2	35	2
Mondol Kiri	10	1	1	0	3	1	2	1	3	0	6	1
Phnom Penh	114	22	95	20	107	16	120	18	114	25	91	17
Preah Vihear	1	0	2	0	0	0	0	0	0	0	0	0
Prey Veng	7	0	15	4	21	2	7	3	22	3	52	2
Pursat	5	5	4	2	7	1	6	3	8	2	29	8
Rotanak Kiri	1	0	7	1	2	0	2	1	3	0	8	0
Siem Reap	5	3	67	5	69	2	67	6	67	10	86	10
Sihanoukville	7	2	28	3	17	2	14	11	11	8	21	2
Stung Treng	2	2	10	2	0	0	6	0	3	1	6	0
Svay Rieng	11	5	4	3	17	0	16	2	12	2	11	9
Takeo	20	4	11	1	13	4	27	6	23	5	27	12
Otdar Meanchey	4	0	0	1	1	0	0	2	3	2	3	2
Krong Keb	NYA	NYA	NYA	NYA	1	1	1	1	0	1	1	1
Krong Pailin	4	0	4	0	3	0	7	0	8	0	8	1
unidentified province	0	0	2	0	3	0	1	0	1	0	0	0
Total	407	96	416	103	460	92	488	99	537	121	616	136

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

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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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