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C.M.A.A

CAMBODIA MINE/ERW VICTIM INFORMATION SYSTEM

**MONTHLY REPORT
FOR
DECEMBER 2019**

Background

The Cambodia Mine/ERW Victim Information System (CMVIS) established in 1994 by the Cambodian Red Cross with technical and financial supported by Handicap International Belgium and UNICEF to provide systematic collection, analysis, interpretation and dissemination of information about civilian and military casualties of landmines, unexploded ordnance and other explosive remnants of war in Cambodia.

By the end of 2009, CMVIS was completely handed over from the Cambodian Red Cross to the Cambodian Mine Action and Victim Assistance Authority (CMAA) for full management responsibility.

Accident and Casualty Information

1- Total Casualties reported from January 1979 to December 2019

For the period of January 1979 to December 2019, a total of **64855** mine/ERW casualties were recorded by CMVIS data gatherers. All of the 64855 casualties:

- 51098 (79%) were mine casualties and 13757 (21%) were ERW casualties.
- 19780 (31%) people killed, 36026 (55%) people injured and 9049 (14%) people amputated.
- 52548 (81%) casualties were men, 6067 (9%) casualties were boys (age<18), 4787 (8%) casualties were women, 1390 (2%) casualties were girls (age<18) and 63 (0%) casualties were unknowns.

2- Accident Summary from January to December 2019

From January to December 2019, **55 mine/ERW accidents** were provisionally recorded. This figure for January to December 2019 represents an increase of 41% compared with 39 mine/ERW accidents reported in 2018. Of the 55 mine/ERW accidents, 26 (47%) were mine accidents and 29 (53%) were ERW accidents.

3- Casualty Summary for January to December 2019

From January to December 2019, **77 mine/ERW casualties** were provisionally recorded. This figure represents an increase of 33% compared with 58 mine/ERW casualties reported in 2018. All of the 77 casualties:

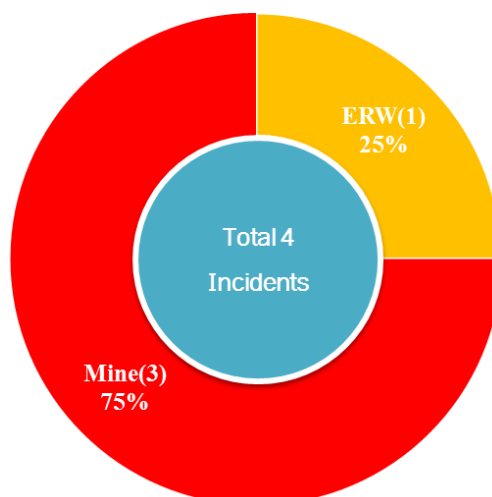
- 54 (70%) were ERW casualties, and 23 (30%) were mine casualties.
- 12 (15%) people killed, 49 (64%) people injured and 16 (21%) people amputated.
- 55 (71%) casualties were men, 16 (21%) casualties were boys (age<18), and 6 (8%) casualties were women.

4- Accident Summary for December 2019

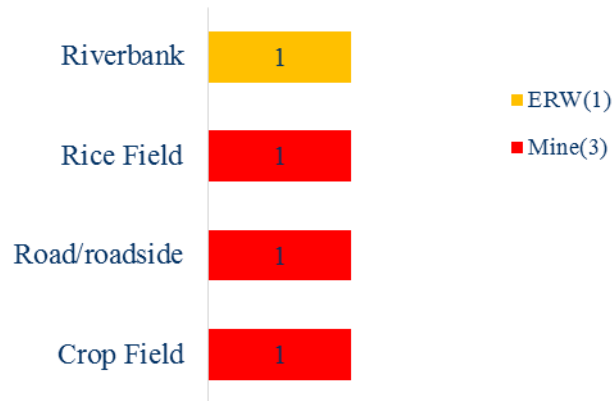
In December 2019, **4 Mine/ERW accidents** were provisionally recorded in Battambang, Ratanak Kiri and Siem Reap provinces (CMVIS data gatherers collected information about accidents primarily through interviews with local authorities, Mine/ERW action agencies, relatives, families of casualties, or casualty's them-selves). This figure for December 2019 is an increased 33% compare with 3 accidents reported in December 2018.

- **Type of explosive ordnance**

Number of incidents caused by Mine/ERW



- **Information about accident area for December 2019**



5- Casualty Summary for December 2019

In December 2019, **3 Mine/ERW casualties** were provisionally recorded. This figure for December 2019 is decreased 25% compare with 4 casualties reported in December 2018. Of the 3 casualties:

- 2 (67%) were mine casualties, and 1 (33%) was ERW casualty.
- 2 (67%) people injured, and 1 (33%) people amputated.
- 2 (67%) casualties were men, and 1 (33%) casualty was a boy (age<18).

Activity at the time of accident

In December 2019, the activity caused people injured by Mine/ERW were Handling Mine/ERW accounted for 1 (33%), Farming accounted for 1 (33%), and Clearing new land accounted for 1 (33%).

Activity at the time of accident for December 2019

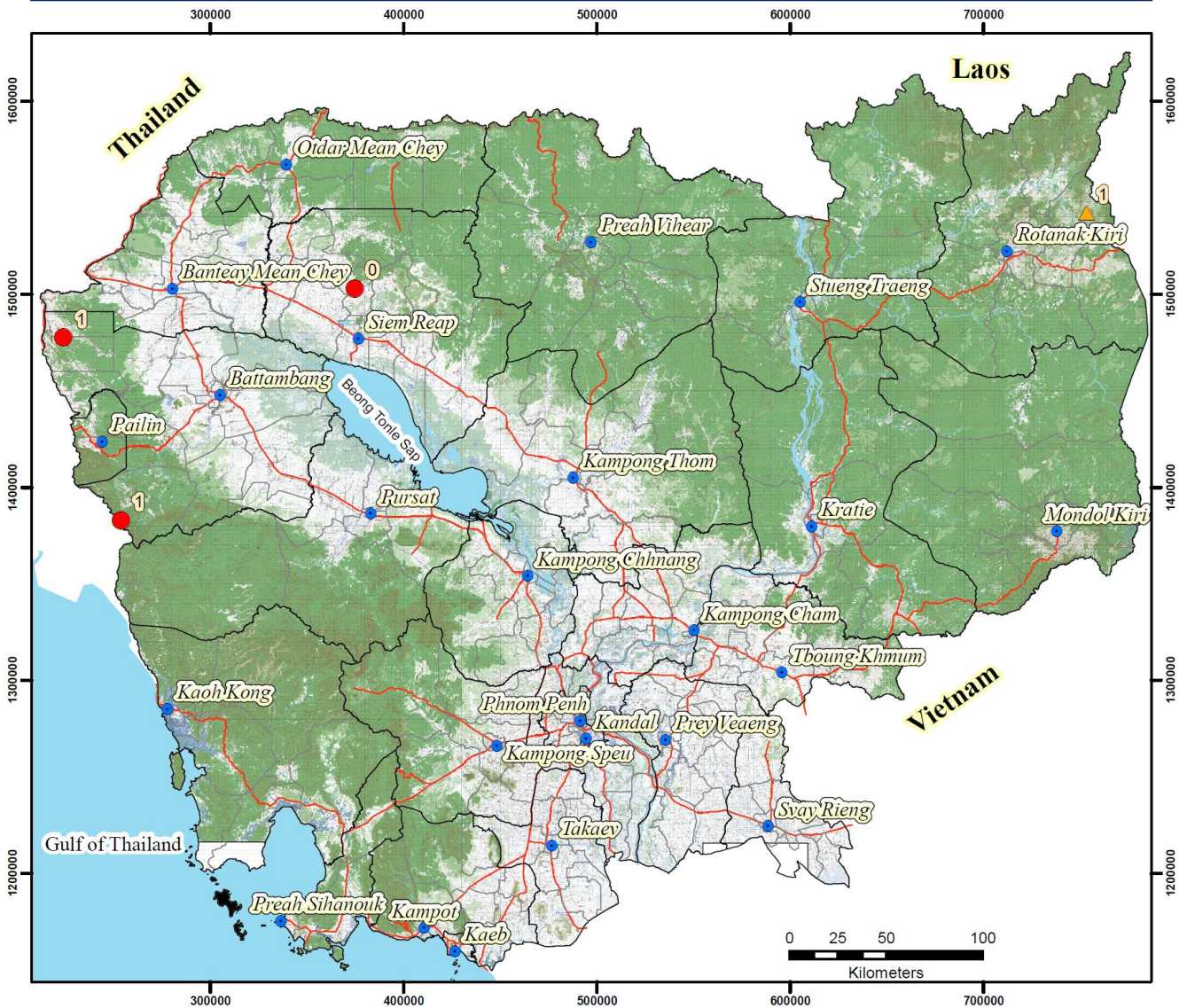


6- Impact of accident area for the period of January 2018 to December 2019 (135 casualties)

- 05 most affected provinces represent for **54%** of total casualties.
- 10 most affected districts represent for **56%** of total casualties.
- 10 most affected communes represent for **39%** of total casualties.

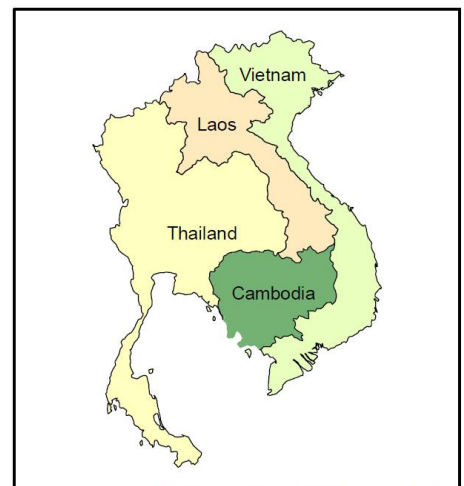
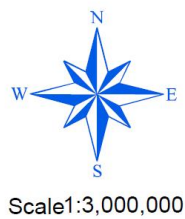
For detailed information, please see on page 7.

CAMBODIA MINE VICTIM INFORMATION SYSTEM
MINE/ERW Accident location in December 2019
Accident: 04, Casualty: 03



Legend

- ▲ ERW accident
- Mine accident
- Province_Centers
- Province Boundary
- District Boundary
- Water surface
- National Road



Produced by CMVIS, Jan 2020

Further analysis and detailed Mine/ERW casualty/accident information are available on request, including the production of risk-maps and the provision of village level data. For customised reports more suited to your organisation's needs, contact CMVIS office: ketya@cmaa.gov.kh

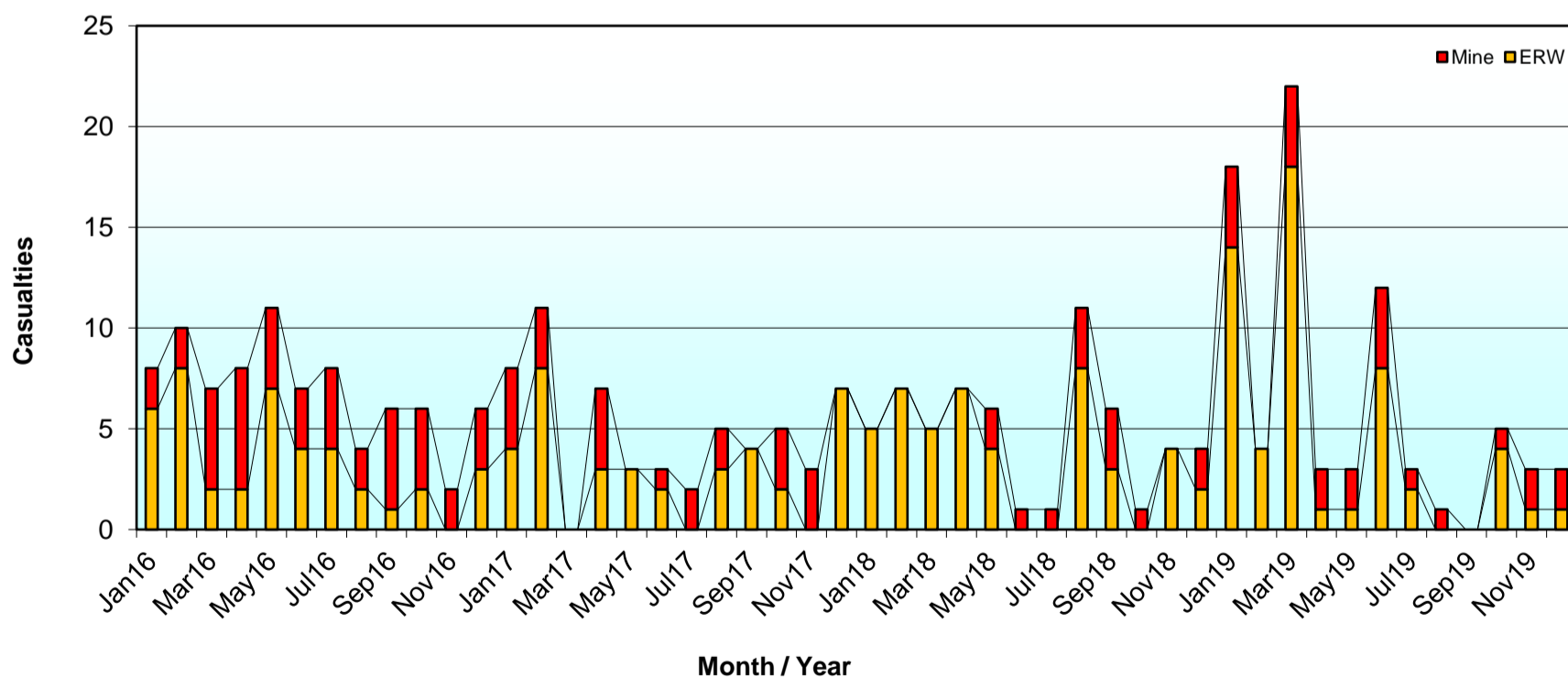
Casualty Trend

Report Mine/ERW Casualties for the Period of: January 2016 - December 2019

Year	Casualties by Month												Total
	Jan	Feb	Mar	April	May	Jun	July	Aug	Sept	Oct	Nov	Dec	
2016	8	10	7	8	11	7	8	4	6	6	2	6	83
<i>Running Total 2016</i>	8	18	25	33	44	51	59	63	69	75	77	83	
2017	8	11	0	7	3	3	2	5	4	5	3	7	58
<i>Running Total 2017</i>	8	19	19	26	29	32	34	39	43	48	51	58	
% change 2016 to 2017	0.0	5.6	-24.0	-21.2	-34.1	-37.3	-42.4	-38.1	-37.7	-36.0	-33.8	-30.1	
2018	5	7	5	7	6	1	1	11	6	1	4	4	58
monthly change +/- from 2017	-3	-4	5	0	3	-2	-1	6	2	-4	1	-3	
monthly change % from 2017	-38	-36	100	0	100	-67	-50	120	50	-80	33	-43	
<i>Running Total 2018</i>	5	12	17	24	30	31	32	43	49	50	54	58	
% change 2017 to 2018	-37.5	-36.8	-10.5	-7.7	3.4	-3.1	-5.9	10.3	14.0	4.2	5.9	0.0	
2019	18	4	22	3	3	12	3	1	0	5	3	3	77
monthly change +/- from 2018	13	-3	17	-4	-3	11	2	-10	-6	4	-1	-1	
monthly change % from 2018	260	-43	340	-57	-50	1100	200	-91	-100	400	-25	-25	
<i>Running Total 2019</i>	18	22	44	47	50	62	65	66	66	71	74	77	
% change 2018 to 2019	260	83.3	158.8	95.8	66.7	100	103.1	53.5	34.7	42	37	32.8	

Note: Casualty figures for prior months are continually updated and verified as a part of the on-going data collection process.

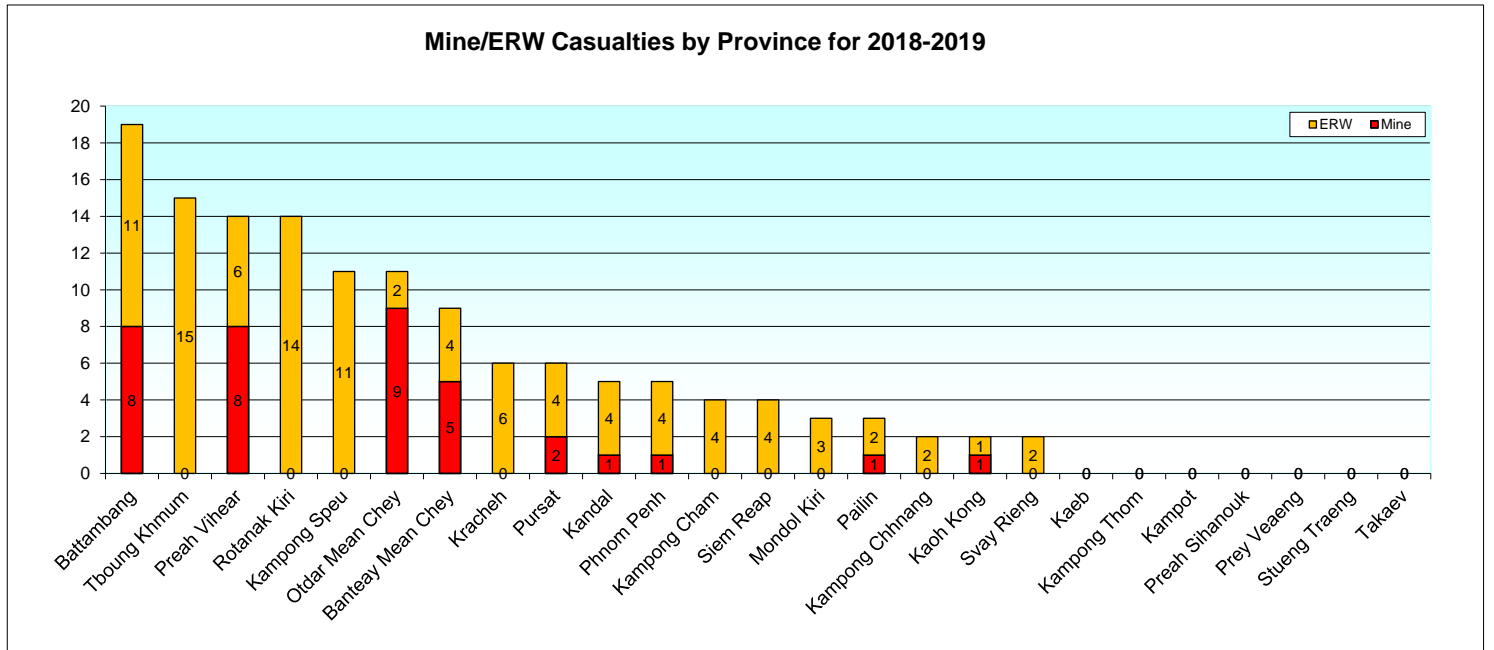
Chart Mine/ERW Casualties for the Period of: January 2016 - December 2019



Monthly Mine/ERW Accident Casualties: Jan2018 - Dec2019

Provinces ranked by Total Mine/ERW Casualties for 2018 - 2019

Province	2018												2019												Total 2018-2019	Cum. Total	% of Total	Cum. %	
	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19					
Battambang	1	0	0	4	0	0	0	0	0	0	3	8	2	2	2	1	0	1	1	0	0	0	2	11	19	19	14.1	14	
Tboung Khmum	0	0	0	0	0	0	0	0	0	1	0	1	10	0	4	0	0	0	0	0	0	0	0	14	15	34	11.1	25	
Preah Vihear	0	0	0	0	1	1	0	1	4	1	0	8	2	0	0	2	0	2	0	0	0	0	0	6	14	48	10.4	36	
Rotanak Kiri	0	2	0	0	0	0	0	0	0	0	0	2	1	2	8	0	0	0	0	0	0	0	1	12	14	62	10.4	46	
Kampong Speu	2	0	5	0	0	0	0	4	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11	73	8.1	54	
Otdar Mean Chey	0	0	0	0	0	0	1	2	0	0	2	5	0	0	3	0	0	1	1	0	0	0	1	6	11	84	8.1	62	
Banteay Mean Chey	0	0	0	0	2	0	0	1	0	0	0	3	2	0	2	0	1	0	0	0	0	0	1	6	9	93	6.7	69	
Kracheh	0	0	0	1	0	0	0	0	2	0	0	3	1	0	1	0	0	0	1	0	0	0	0	3	6	99	4.4	73	
Pursat	1	0	0	0	0	0	0	1	0	0	1	3	0	0	1	0	0	0	0	1	0	1	0	3	6	105	4.4	78	
Kandal	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	3	5	110	3.7	81	
Phnom Penh	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	4	5	115	3.7	85	
Siem Reap	0	1	0	0	2	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	1	4	119	3	88	
Kampong Cham	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	4	123	3	91	
Mondol Kiri	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	1	3	126	2.2	93	
Pailin	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	3	129	2.2	96	
Svay Rieng	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	2	131	1.5	97	
Kaoh Kong	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	1	2	133	1.5	99	
Kampong Chhnang	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	135	1.5	100	
Preah Sihanouk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0	100	
Stueng Traeng	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0	100	
Takaev	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0	100	
Kampot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0	100	
Kampong Thom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0	100	
Kaeb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0	100	
Prey Veaeang	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0	100	
TOTAL	5	7	5	7	6	1	1	11	6	1	4	4	58	18	4	22	3	3	12	3	1	0	5	3	3	77	135		



5 Most Affected Provinces for Mine / ERW Casualties

Ranked by Total Casualties

Jan2018 - Dec2019

Rank	Province	Mine Casualties	ERW Casualties	Total Casualties	Cumulative Total
1	Battambang	8	11	19	19
2	Tboung Khmum	0	15	15	34
3	Preah Vihear	8	6	14	48
4	Rotanak Kiri	0	14	14	62
5	Kampong Speu	0	11	11	73

10 Most Affected Districts for Mine / ERW Casualties

Ranked by Total Casualties

Jan2018 - Dec2019

Rank	District	Province	Mine Casualties	ERW Casualties	Total Casualties	Cumulative Total
1	Tboung Khmum	Tboung Khmum	0	12	12	12
2	Choam Khsant	Preah Vihear	7	5	12	24
3	Phnum Sruoch	Kampong Speu	0	11	11	35
4	Samlout	Battambang	5	4	9	44
5	Ou Ya Dav	Rotanak Kiri	0	8	8	52
6	Trapeang Prasat	Otdar Mean Chey	6	0	6	58
7	Snuol	Kracheh	0	5	5	63
8	Ta Veang	Rotanak Kiri	0	5	5	68
9	Ruessei Kaev	Phnom Penh	0	4	4	72
10	Phnum Proek	Battambang	1	2	3	75

10 Most Affected Communes for Mine / ERW Casualties

Ranked by Total Casualties

Jan2018 - Dec2019

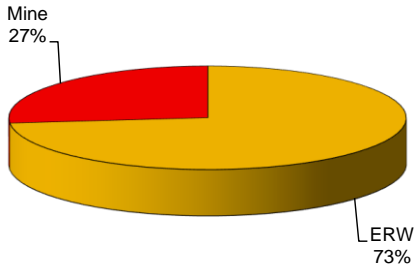
Rank	Commune	District	Province	Mine Casualties	ERW Casualties	Total Casualties	Cum. Total
1	Chirou Muoy	Tboung Khmum	Tboung Khmum	0	10	10	10
2	Moha Sang	Phnum Sruoch	Kampong Speu	0	9	9	19
3	Ya Tung	Ou Ya Dav	Rotanak Kiri	0	5	5	24
4	Ta Veang Kraom	Ta Veang	Rotanak Kiri	0	5	5	29
5	Morokot	Choam Khsant	Preah Vihear	4	0	4	33
6	Ta Taok	Samlout	Battambang	4	0	4	37
7	Choam Ksant	Choam Khsant	Preah Vihear	3	1	4	41
8	Kampong Lpou	Samlout	Battambang	0	4	4	45
9	Chrang Chamreh Pir	Ruessei Kaev	Phnom Penh	0	4	4	49
10	Ou Da	Kamrieng	Battambang	0	3	3	52

OVERVIEW OF MINE/ERW ACCIDENTS

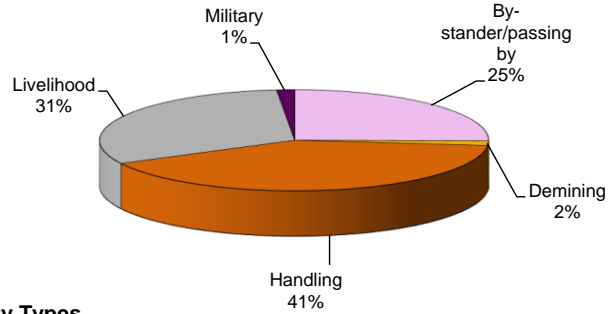
Jan2018 - Dec2019

Total Number of Casualties during Reporting Period: 135

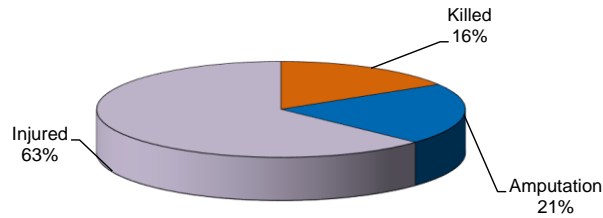
Mine/ERW Distribution



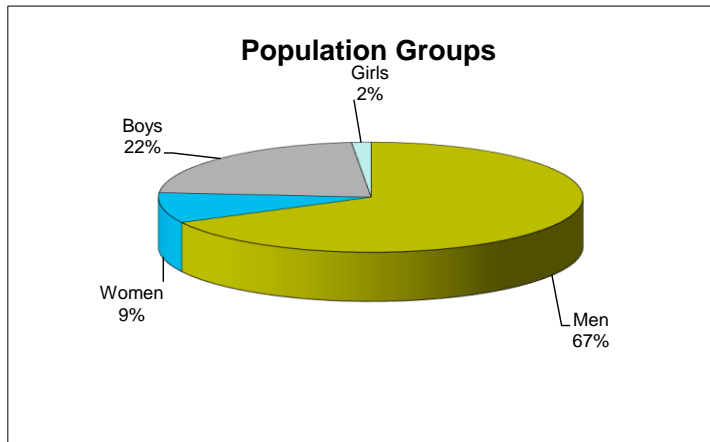
Cause of Casualty



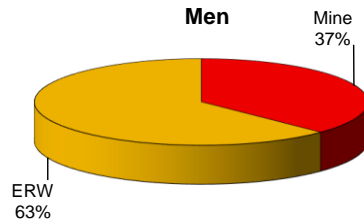
Casualty Types



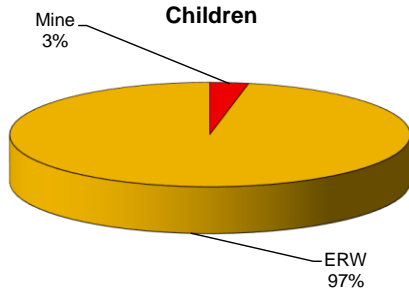
MINE/ERW ACCIDENT OVERVIEW



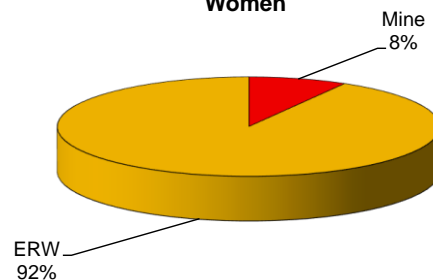
Men



Children



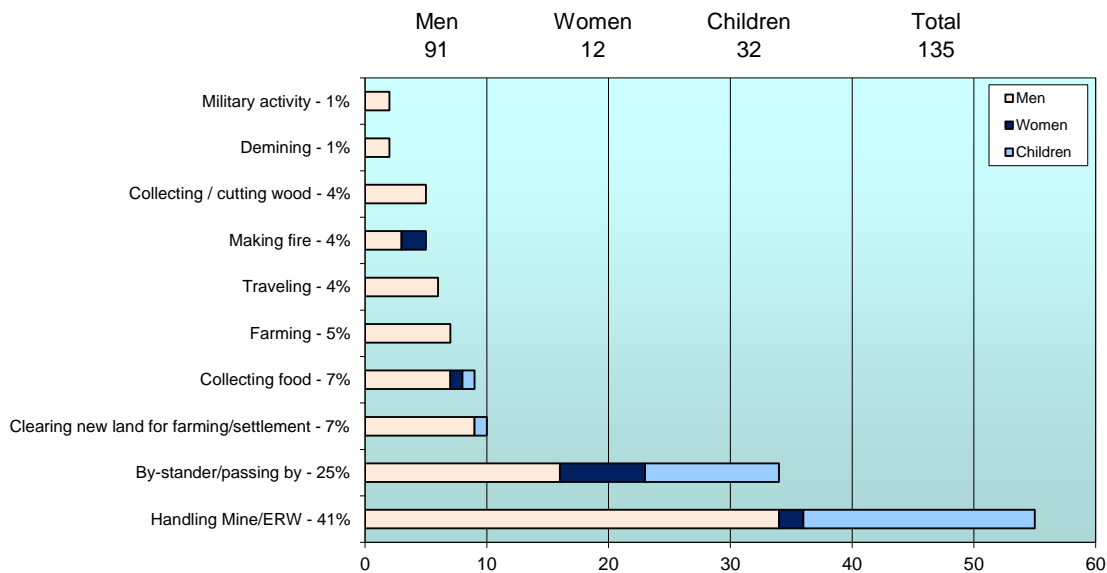
Women



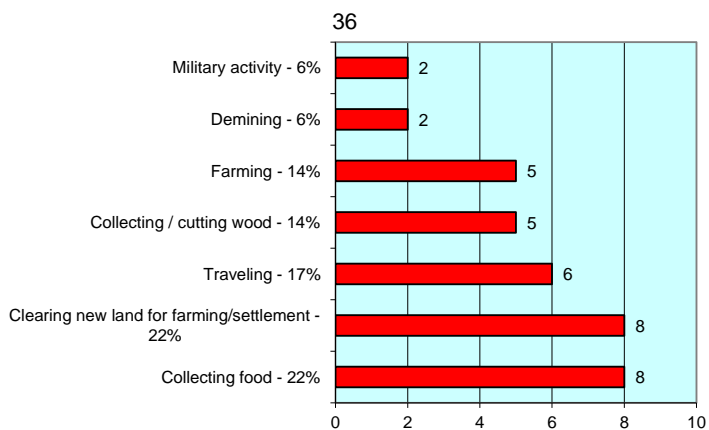
Jan2018 - Dec2019

Number of accidents during Reporting Period: **135**

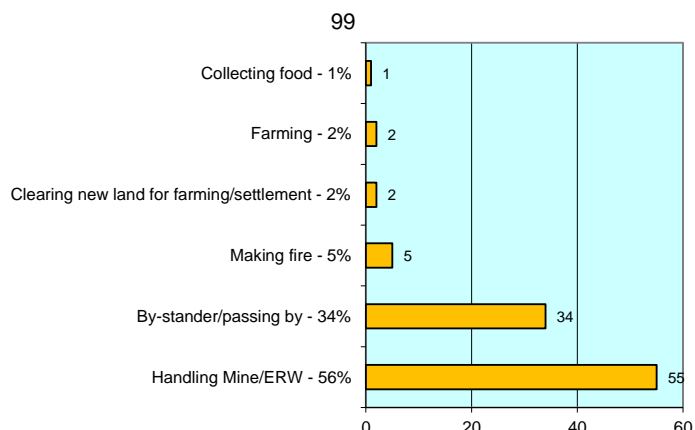
Cause of Accident by Total Population Group



Activities - Mines

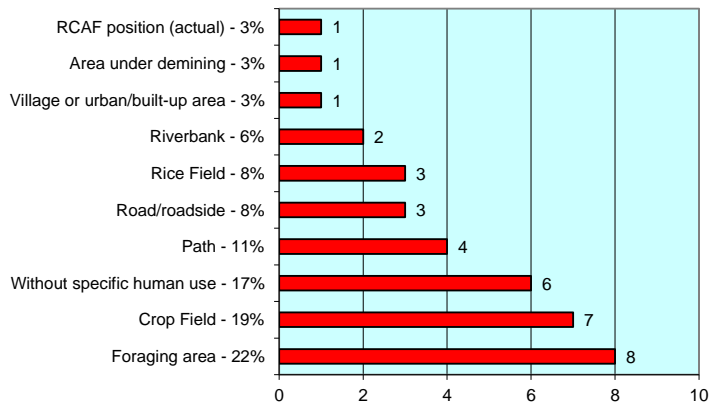


Activities - ERW

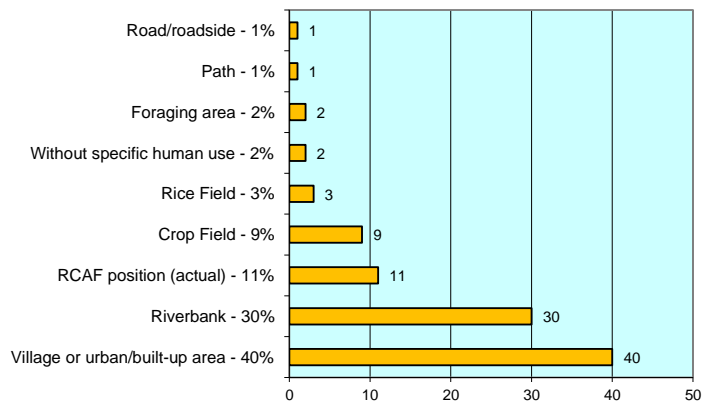


Mine/ERW Accidents by Terrain Type

Terrain - Mines



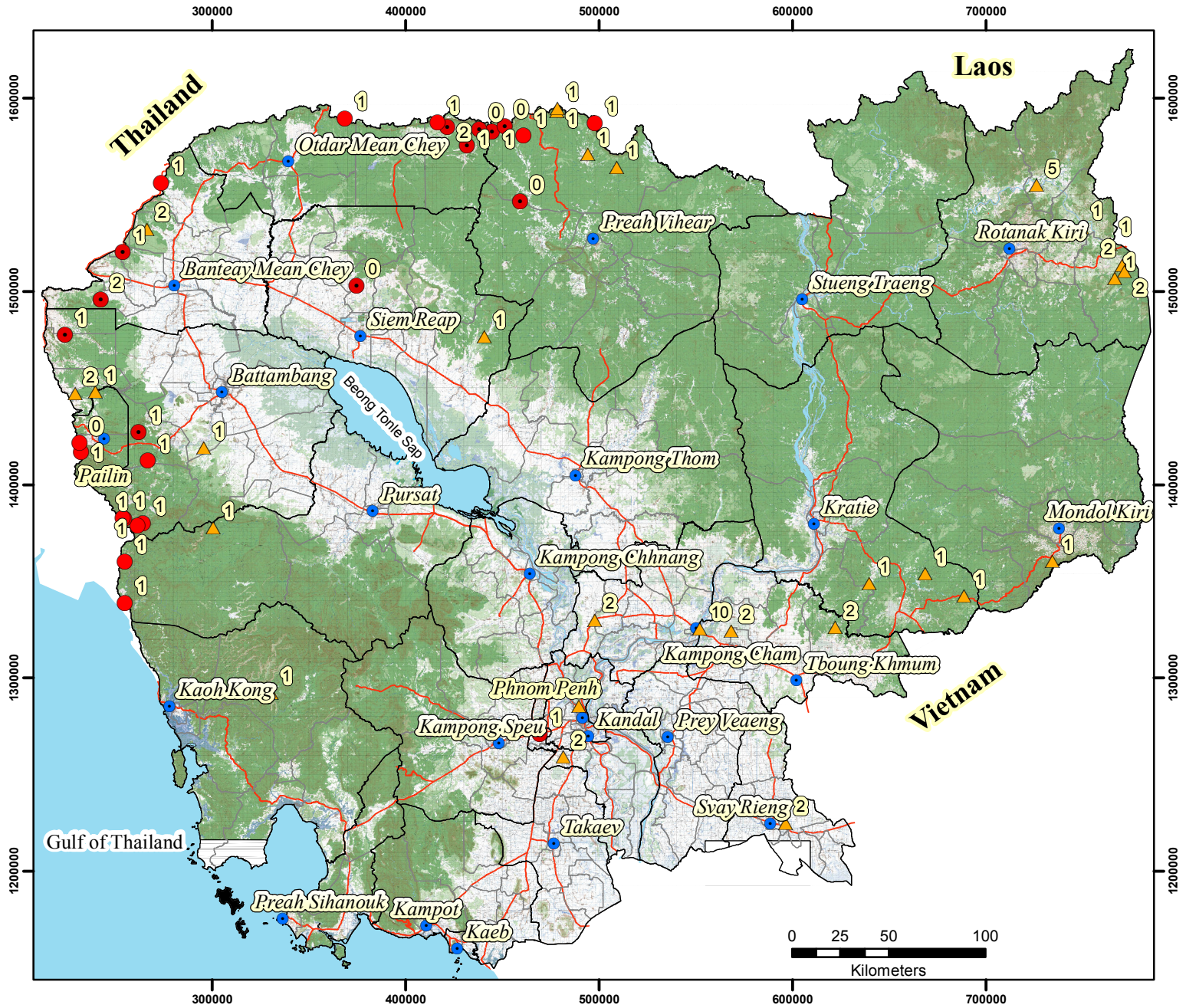
Terrain - ERW



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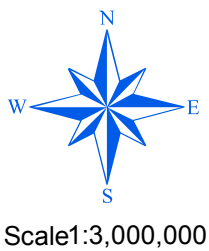
MINE/ERW Accident location in 2019

Accident: 55, Casualty: 77



Legend

- APM accident
- ATM accident
- ▲ ERW accident
- Province_Centers
- Province Boundary
- District Boundary
- Water surface
- National Road



Produced by CMVIS, Jan 2020