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C.M.A.A

CAMBODIA MINE/ERW VICTIM INFORMATION SYSTEM

**MONTHLY REPORT
FOR
NOVEMBER 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 November 2019

For the period of January 1979 to November 2019, a total of **64852** mine/ERW casualties were recorded by CMVIS data gatherers. All of the 64852 casualties:

- 51096 (79%) were mine casualties and 13756 (21%) were ERW casualties.
- 19780 (31%) people killed, 36024 (55%) people injured and 9048 (14%) people amputated.
- 52546 (81%) casualties were men, 6066 (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 November 2019

From January to November 2019, **51 mine/ERW accidents** were provisionally recorded. This figure for January to November 2019 represents an increase of 42% compared with 36 mine/ERW accidents reported from January to November 2018. Of the 51 mine/ERW accidents, 23 (45%) were mine accidents and 28 (55%) were ERW accidents.

3- Casualty Summary for January to November 2019

From January to November 2019, **74 mine/ERW casualties** were provisionally recorded. This figure from January to November 2019 represents an increase of 37% compared with 54 mine/ERW casualties reported from January to November 2018. All of the 74 casualties:

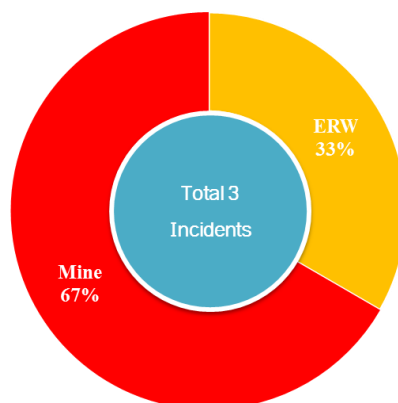
- 53 (72%) were ERW casualties, and 21 (28%) were mine casualties.
- 12 (16%) people killed, 47 (64%) people injured and 15 (20%) people amputated.
- 53 (72%) casualties were men, 15 (20%) casualties were boys (age<18), and 6 (8%) casualties were women.

4- Accident Summary for November 2019

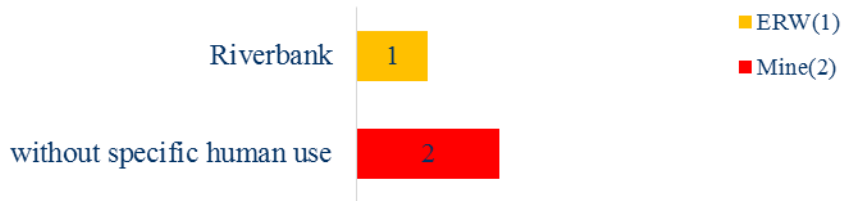
In November 2019, **3 Mine/ERW accidents** were provisionally recorded in Banteay Mean Chey, Otdar Mean Chey and Mondul Kiri province (CMVIS data gatherers collected information about accidents primarily through interviews with local authorities, Mine/ERW action agencies, relatives, families of casualties, or casualties them-selves). This figure for November 2019 is similar with 3 accident reported in November 2018.

- **Type of explosive ordnance**

Number of incidents caused by Mine/ERW



• **Information about accident area for November 2019**



5- Casualty Summary for November 2019

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

- 2 (67%) was mine casualty, and 1 (33%) were ERW casualties.
- 2 (67%) people amputated, and 1 (33%) people killed.
- 3 (100%) casualties were men.

Activity at the time of accident

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

Activity at the time of accident for November 2019

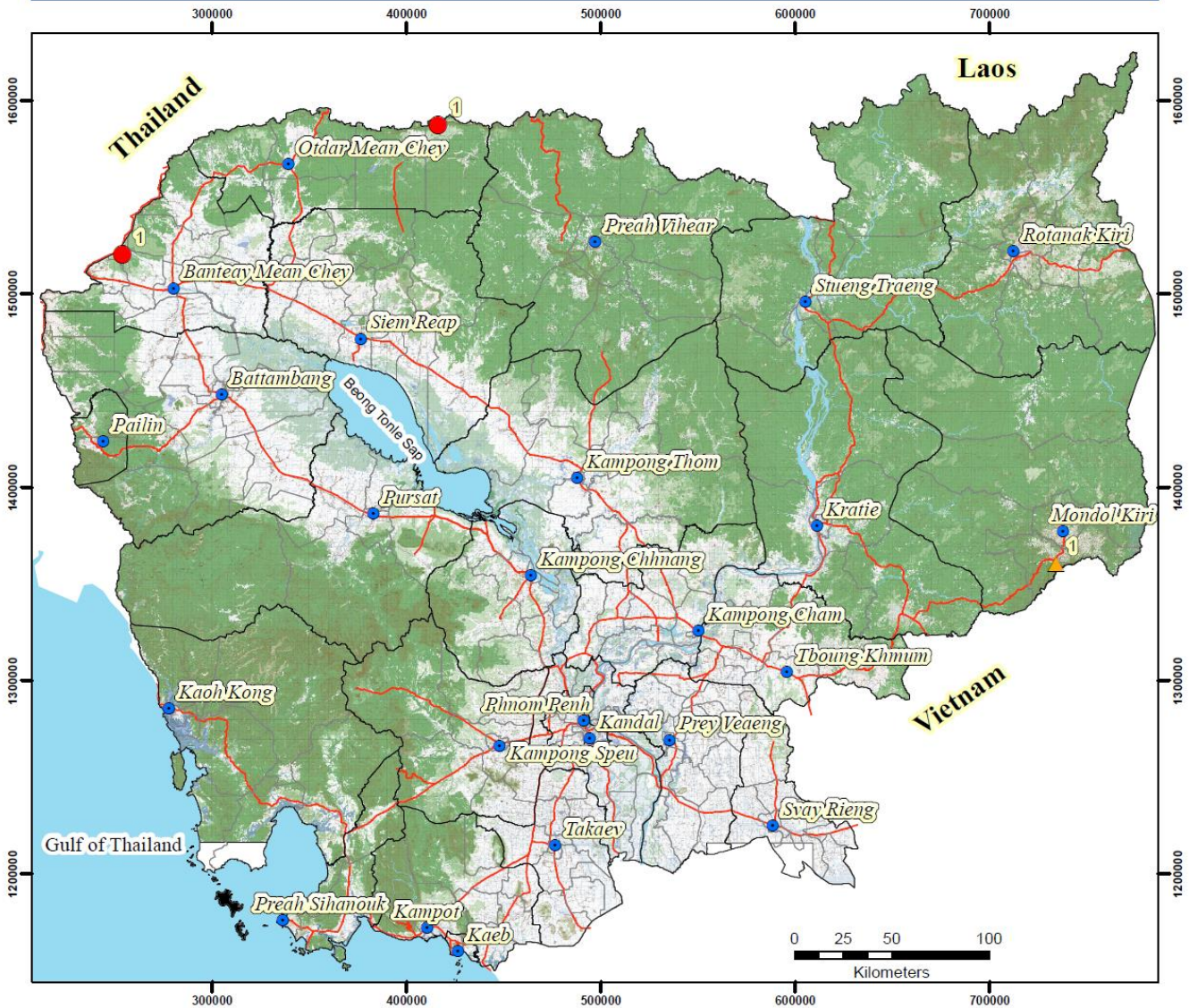


6- Impact of accident area for the period of January 2018 to November 2019 (132 casualties)

- 05 most affected provinces represent for **53%** of total casualties.
- 10 most affected districts represent for **56%** of total casualties.
- 10 most affected communes represent for **37%** of total casualties.

For detailed information, please see on page 7.

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



Legend

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



Produced by CMVIS, Dec 2019

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

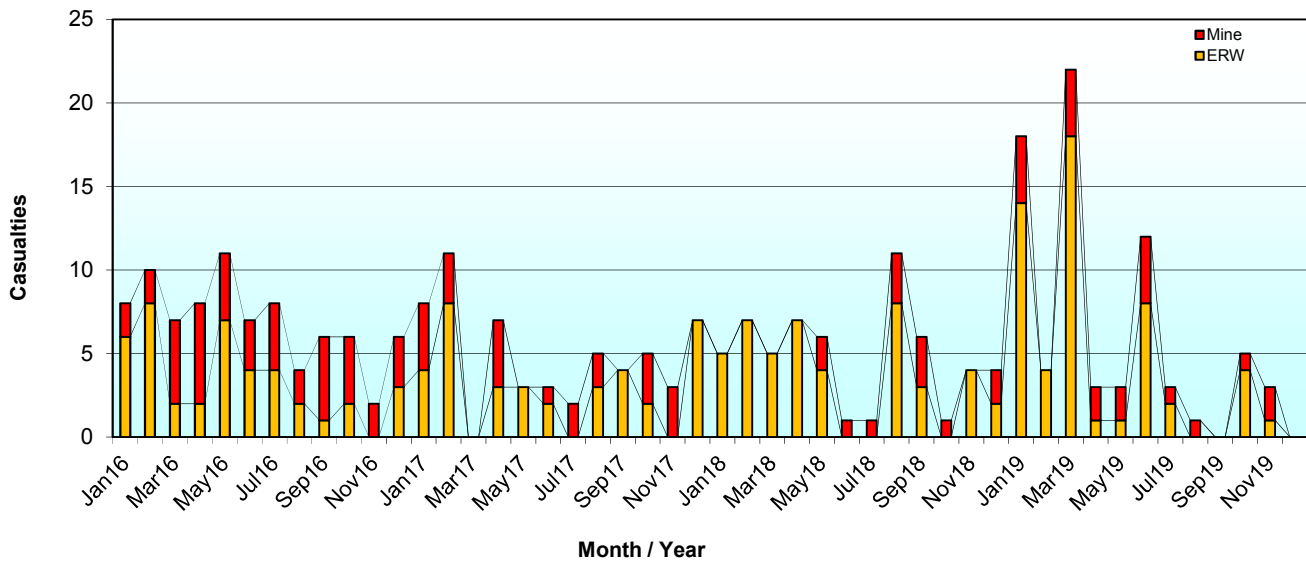
Casualty Trend

Report Mine/ERW Casualties for the Period of: January 2016 - November 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 | | 74 |
| monthly change +/- from 2018 | 13 | -3 | 17 | -4 | -3 | 11 | 2 | -10 | -6 | 4 | -1 | | |
| monthly change % from 2018 | 260 | -43 | 340 | -57 | -50 | 1100 | 200 | -91 | -100 | 400 | -25 | | |
| <i>Running Total 2019</i> | 18 | 22 | 44 | 47 | 50 | 62 | 65 | 66 | 66 | 71 | 74 | | |
| % change 2018 to 2019 | 260 | 83.3 | 158.8 | 95.8 | 66.7 | 100 | 103.1 | 53.5 | 34.7 | 42 | 37 | | |

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 - November 2019

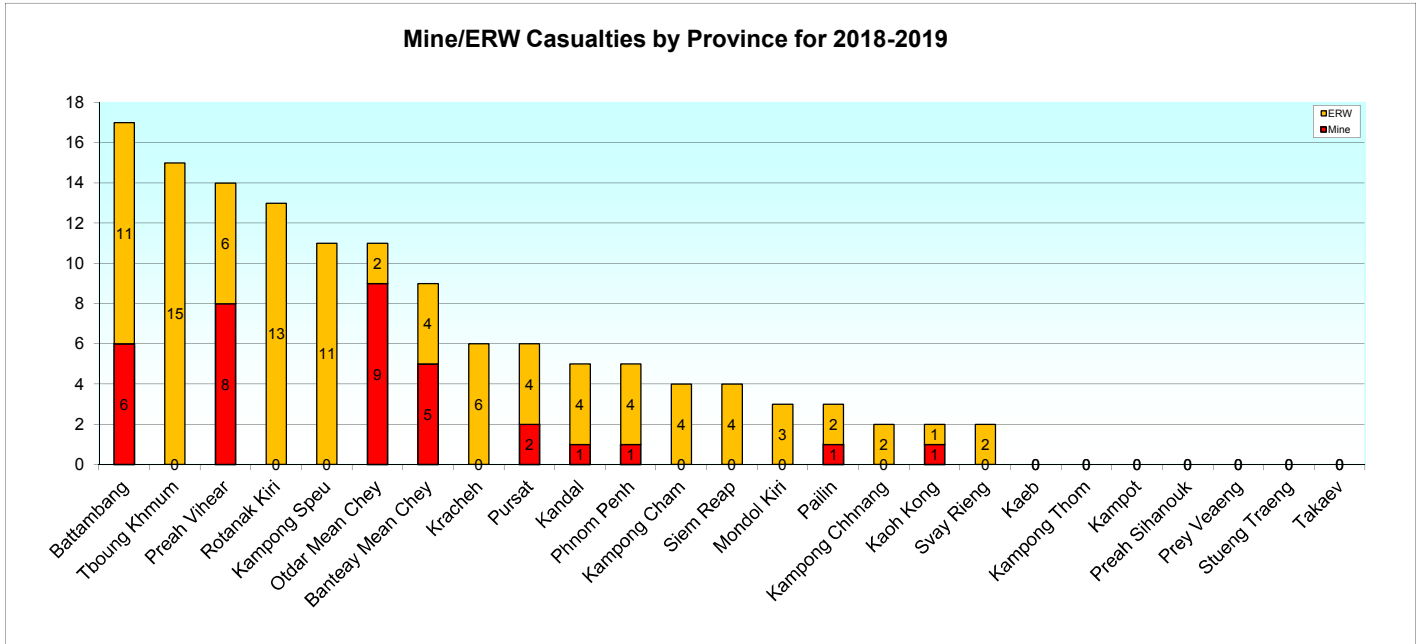


Monthly Mine/ERW Accident Casualties: Jan2018 - Nov2019

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

| Province | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 | Jul-18 | Aug-18 | Sep-18 | Oct-18 | Nov-18 | Dec-18 | Total 2018 | Jan-19 | Feb-19 | Mar-19 | Apr-19 | May-19 | Jun-19 | Jul-19 | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Total 2019 | Total 2018-2019 | Cum. Total | % of Total | Cum. % |
|-------------------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|------------|-----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|------------|-----------------|------------|------------|--------|
| | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | | | |
| Battambang | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 9 | 17 | 17 | 12.9 | 13 | |
| Tboung Khmum | 0 | 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 | 32 | 11.4 | 24 | |
| Preah Vihear | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 4 | 1 | 0 | 0 | 8 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 14 | 46 | 10.6 | 35 | |
| Rotanak Kiri | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 13 | 59 | 9.8 | 45 | |
| Kampong Speu | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 70 | 8.3 | 53 | |
| Otdar Mean Chey | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 2 | 0 | 5 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 6 | 11 | 81 | 8.3 | 61 |
| Banteay Mean Chey | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 9 | 90 | 6.8 | 68 |
| Kracheh | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 6 | 96 | 4.5 | 73 | |
| Pursat | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 6 | 102 | 4.5 | 77 | |
| Kandal | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 107 | 3.8 | 81 | |
| Phnom Penh | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 5 | 112 | 3.8 | 85 | |
| Siem Reap | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 116 | 3 | 88 | |
| Kampong Cham | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 120 | 3 | 91 | |
| Mondol Kiri | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 123 | 2.3 | 93 | |
| Pailin | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 126 | 2.3 | 95 | |
| Svay Rieng | 0 | 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 | 128 | 1.5 | 97 | |
| Kaoh Kong | 0 | 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 | 130 | 1.5 | 98 | |
| Kampong Chhnang | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 132 | 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 | 0 | 132 | 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 | 0 | 132 | 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 | 0 | 132 | 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 | 0 | 132 | 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 | 0 | 132 | 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 | 0 | 132 | 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 | 0 | 132 | 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 | 0 | 74 | 132 | | | |

Mine/ERW Casualties by Province for 2018-2019



5 Most Affected Provinces for Mine / ERW Casualties

Ranked by Total Casualties

Jan2018 - Nov2019

| Rank | Province | Mine Casualties | ERW Casualties | Total Casualties | Cumulative Total |
|------|--------------|-----------------|----------------|------------------|------------------|
| 1 | Battambang | 6 | 11 | 17 | 17 |
| 2 | Tboung Khmum | 0 | 15 | 15 | 32 |
| 3 | Preah Vihear | 8 | 6 | 14 | 46 |
| 4 | Rotanak Kiri | 0 | 13 | 13 | 59 |
| 5 | Kampong Speu | 0 | 11 | 11 | 70 |

10 Most Affected Districts for Mine / ERW Casualties

Ranked by Total Casualties

Jan2018 - Nov2019

| 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 | Ou Ya Dav | Rotanak Kiri | 0 | 8 | 8 | 43 |
| 5 | Samlout | Battambang | 4 | 4 | 8 | 51 |
| 6 | Trapeang Prasat | Otdar Mean Chey | 6 | 0 | 6 | 57 |
| 7 | Snuol | Kracheh | 0 | 5 | 5 | 62 |
| 8 | Ta Veang | Rotanak Kiri | 0 | 5 | 5 | 67 |
| 9 | Ruessei Kaev | Phnom Penh | 0 | 4 | 4 | 71 |
| 10 | Kamrieng | Battambang | 0 | 3 | 3 | 74 |

10 Most Affected Communes for Mine / ERW Casualties

Ranked by Total Casualties

Jan2018 - Nov2019

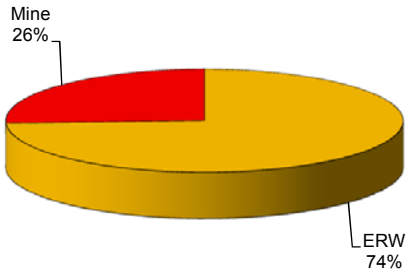
| Rank | Commune | District | Province | Mine Casualties | ERW Casualties | Total Casualties | Cum. Total |
|------|----------------|--------------|-----------------|-----------------|----------------|------------------|------------|
| 1 | Chirou Muoy | Tboung Khmum | Tboung Khmum | 0 | 10 | 10 | 10 |
| 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 | Choam Ksant | Choam Khsant | Preah Vihear | 3 | 1 | 4 | 33 |
| 6 | Chrang Chamreh | Ruessei Kaev | Phnom Penh | 0 | 4 | 4 | 37 |
| 7 | Kampong Lpou | Samlout | Battambang | 0 | 4 | 4 | 41 |
| 8 | Morokot | Choam Khsant | Preah Vihear | 4 | 0 | 4 | 45 |
| 9 | Ou Da | Kamrieng | Battambang | 0 | 3 | 3 | 48 |
| 10 | Koun Kriel | Samraong | Otdar Mean Chey | 3 | 0 | 3 | 51 |

OVERVIEW OF MINE/ERW ACCIDENTS

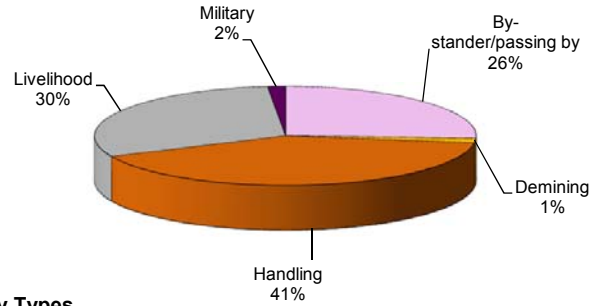
Jan2018 - Nov2019

Total Number of Casualties during Reporting Period: 132

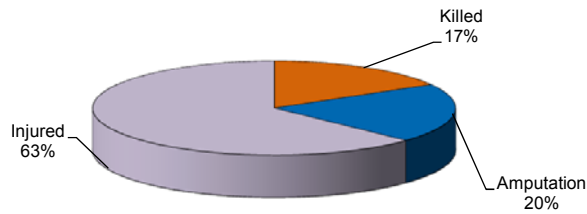
Mine/ERW Distribution



Cause of Casualty

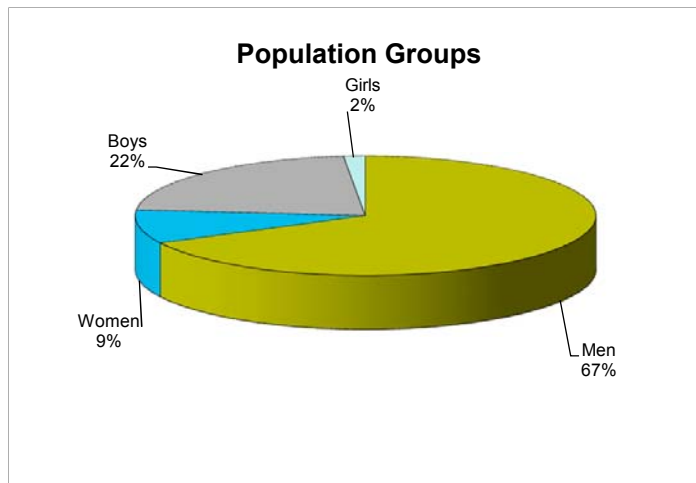


Casualty Types

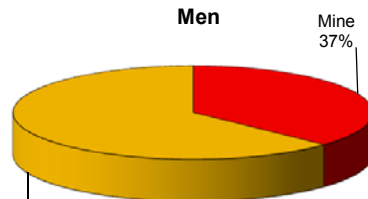


MINE/ERW ACCIDENT OVERVIEW

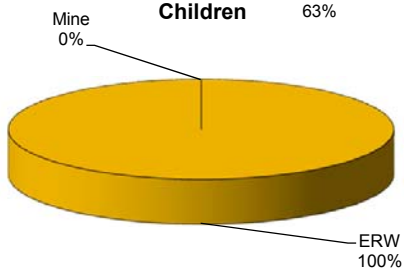
Population Groups



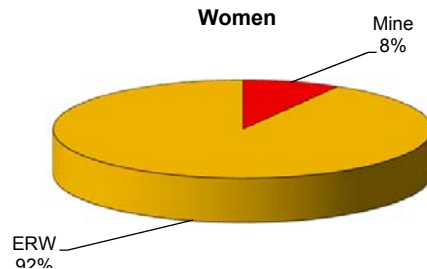
Men



Children



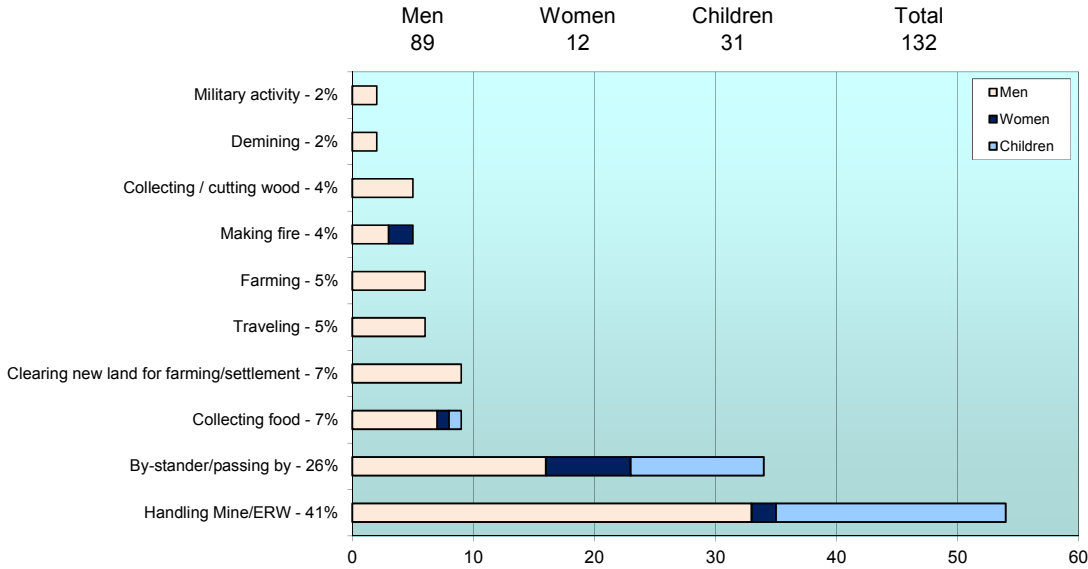
Women



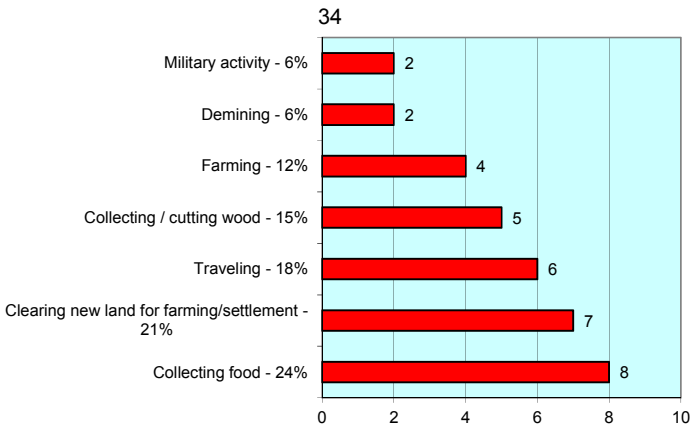
Jan2018 - Nov2019

Number of accidents during Reporting Period: **132**

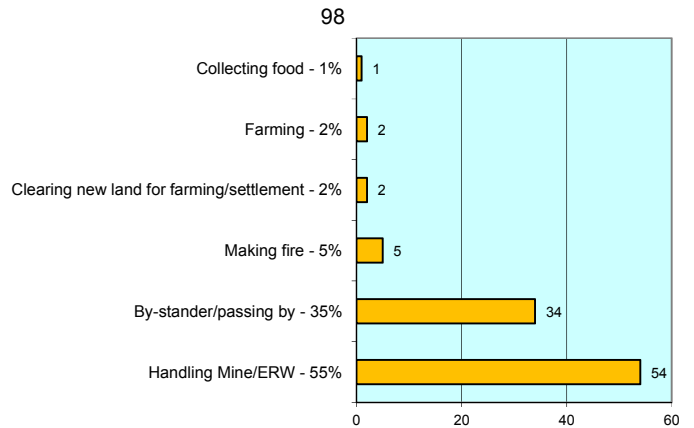
Cause of Accident by Total Population Group



Activities - Mines

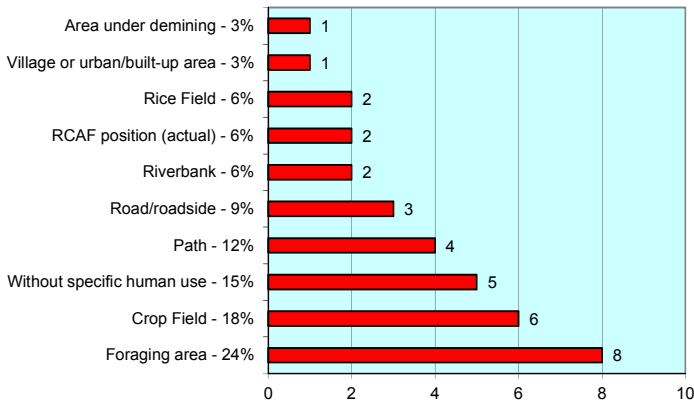


Activities - ERW



Mine/ERW Accidents by Terrain Type

Terrain - Mines



Terrain - ERW

