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C.M.A.A

**CAMBODIA MINE/ERW VICTIM INFORMATION SYSTEM**

**MONTHLY REPORT  
FOR  
SEPTEMBER 2021**

## Background

The Cambodia Mine/ERW Victim Information System (CMVIS) established in 1994 by the Cambodian Red Cross with technical and financial support 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 for full management responsibility.

### Explosive Ordnance (EO) Accident and Casualty Information

#### 1- Total Casualties reported from January 1979 to September 2021

For the period of January 1979 to September 2021, a total of **64954** EO casualties were recorded by CMVIS data gatherers.

All of the 64954 EO casualties:

- 51145 (79%) were Mine casualties, and 13809 (21%) were ERW casualties.
- 36080 (56%) people injured, 19807 (30%) people killed, and 9067 (14%) people amputated.
- 52619 (81%) casualties were men, 6087 (9%) casualties were boys (age<18), 4792 (8%) casualties were women, 1393 (2%) casualties were girls (age<18), and 63 (0%) casualties were unknowns.

#### 2- Accident Summary from January to September 2021

From January to September 2021, 28 EO accidents were provisionally recorded. This figure represents a decrease of 32% compared with 42 EO accidents reported in the same periods in 2020. Of the 28 EO accidents, 16 were mine accidents and 12 were ERW accidents.

#### 3- Casualty Summary for January to September 2021

From January to September 2021, 34 EO casualties were provisionally recorded. This figure represents a decrease of 38% compared with 55 EO casualties reported from January to September 2020.

All of the 34 EO casualties:

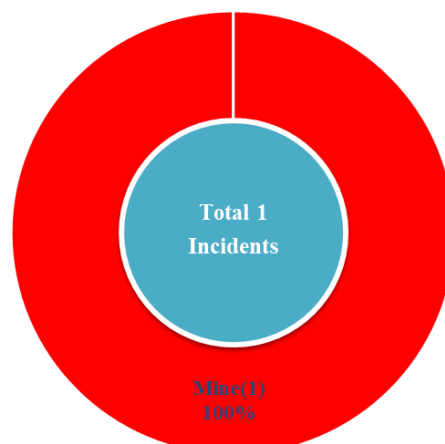
- 19 people were mine casualties, and 15 people were ERW casualties.
- 10 people killed, 18 people injured, and 6 people amputated.
- 29 casualties were men, 4 casualties were boys (age<18), and 1 casualty was a woman.

#### 4- Accident Summary for September 2021

In September 2021, 1 EO accident was provisionally recorded in Battambang province (CMVIS data gatherers collected information about accidents primarily through interviews with local authorities, Mine action agencies, relatives, families of casualties, or casualty's them-selves). The figure for September 2021 is decreased by 50% compared with 2 EO accidents reported in September 2020. Of the 1 EO accident was mine accident.

- **Type of explosive ordnance**

Number of incidents caused by EO



- **Information about EO accident area for September 2021:** Mine accident occurred on Crop field

#### **5- Casualty Summary for September 2021**

In September 2021, **1 EO casualty** was provisionally recorded. This figure for September 2021 is decreased by 67% compared with 3 casualties in September 2020.

Of the 1 EO casualty:

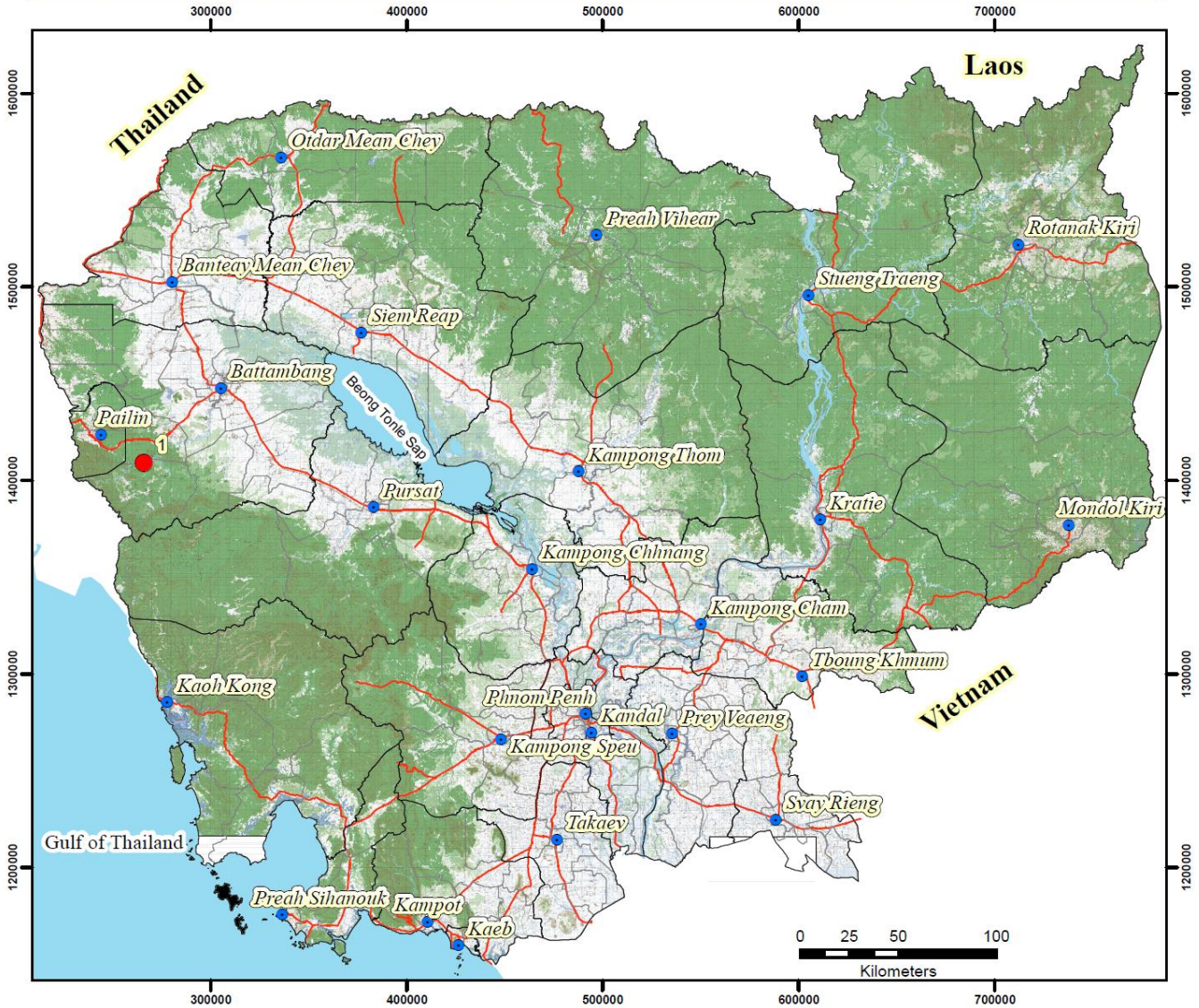
- 1 people was mine casualty.
- 1 people injured.
- 1 casualty was a men.
- The activity at the time of accident of a casualty was Clearing land activity accounted for 1 casualty.

#### **6- Impact of accident area for the period of January 2020 to September 2021 (99 casualties)**

- 05 most affected provinces represent **79%** of total casualties.
- 10 most affected districts represent **73%** of total casualties.
- 10 most affected communes represent **51%** of total casualties.

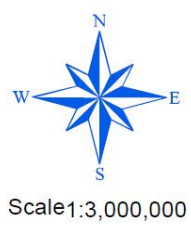
For detailed information, please see on page 7.

**Explosive Ordnance Accident location in September 2021**  
**Accident: 1 case, Casualty: 1 people**



**Legend**

- Mine accident
- Province Centers
- Province Boundary
- District Boundary
- Water surface
- National Road



Produced by CMVIS, Oct 2021

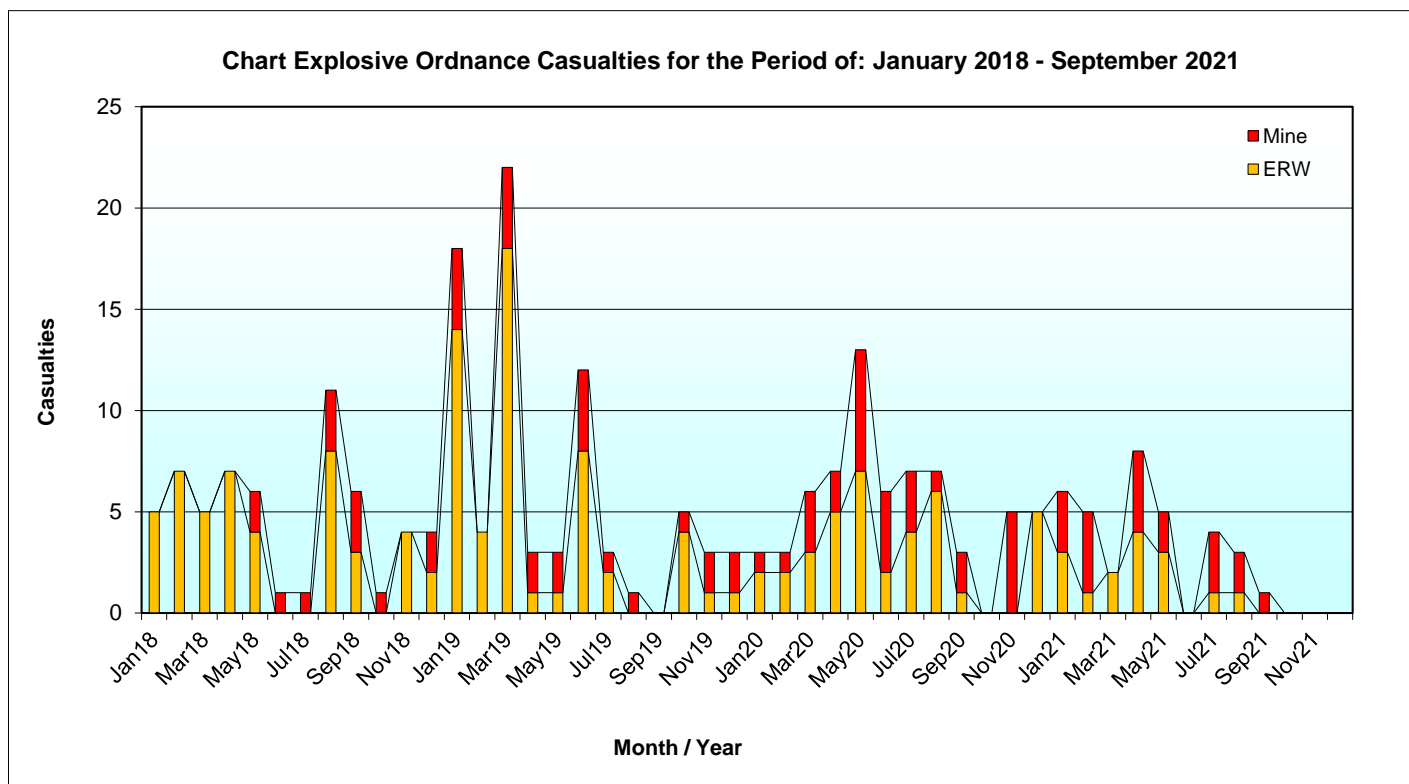
**Further analysis** and detailed EO casualty/accident information are available on request, including the production of risk maps and the provision of village-level data. For customised reports more suited to your organisation's needs, contact CMVIS office: [ketya@cmaa.gov.kh](mailto:ketya@cmaa.gov.kh)

## Casualty Trend

### Report Explosive Ordnance Casualties for the Period of: January 2018 - September 2021

Year	Casualties by Month												Total
	Jan	Feb	Mar	April	May	Jun	July	Aug	Sept	Oct	Nov	Dec	
<b>2018</b>	<b>5</b>	<b>7</b>	<b>5</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>11</b>	<b>6</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>58</b>
<i>Running Total 2018</i>	5	12	17	24	30	31	32	43	49	50	54	58	
<b>2019</b>	<b>18</b>	<b>4</b>	<b>22</b>	<b>3</b>	<b>3</b>	<b>12</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>77</b>
<i>Running Total 2019</i>	18	22	44	47	50	62	65	66	66	71	74	77	
% change 2018 to 2019	260	83	159	96	67	100	103	54	35	42	37	33	
<b>2020</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>7</b>	<b>13</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>3</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>65</b>
monthly change +/- from 2019	-15	-1	-16	4	10	-6	4	6	3	-5	2	2	
monthly change % from 2019	-83	-25	-73	133	333	-50	133	600	#DIV/0!	-100	67	67	
<i>Running Total 2020</i>	<b>3</b>	<b>6</b>	<b>12</b>	<b>19</b>	<b>32</b>	<b>38</b>	<b>45</b>	<b>52</b>	<b>55</b>	<b>55</b>	<b>60</b>	<b>65</b>	
% change 2019 to 2020	-83	-73	-73	-60	-36	-39	-31	-21	-17	-23	-19	-16	
<b>2021</b>	<b>6</b>	<b>5</b>	<b>2</b>	<b>8</b>	<b>5</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>1</b>				<b>34</b>
monthly change +/- from 2020	3	2	-4	1	-8	-6	-3	-4	-2				
monthly change % from 2020	100	67	-67	14	-62	-100	-43	-57	-67				
<i>Running Total 2021</i>	<b>6</b>	<b>11</b>	<b>13</b>	<b>21</b>	<b>26</b>	<b>26</b>	<b>30</b>	<b>33</b>	<b>34</b>				
% change 2020 to 2021	100	83	8	11	-19	-32	-33	-37	-38				

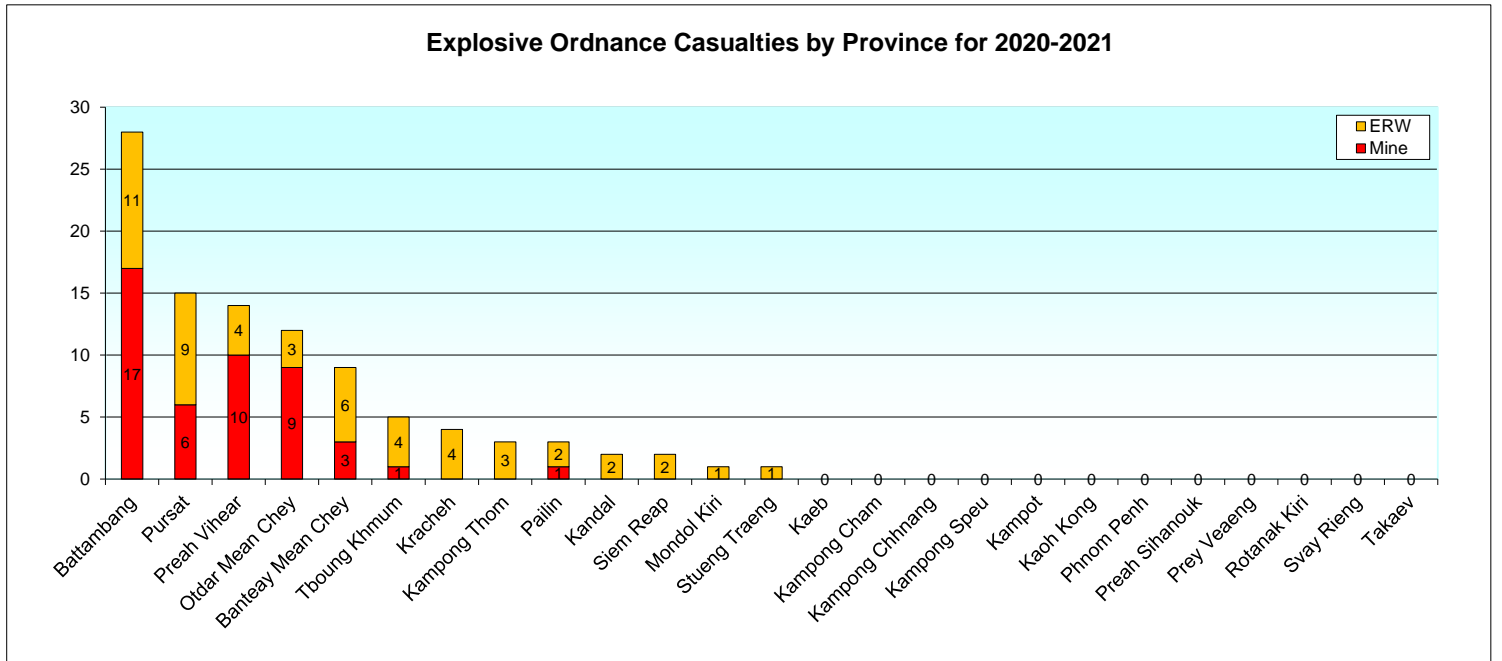
Note: Casualty figures for prior months are continually updated and verified as a part of the on-going data collection process.



### Monthly Explosive Ordnance Accident Casualties: Jan2020 - Sep2021

Provinces ranked by Total Explosive Ordnance Casualties for 2020 - 2021

Province	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total 2020	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Total 2021	Total 2020-2021	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.					
Battambang	2	0	2	2	6	3	1	0	0	0	0	3	19	2	0	1	1	2	0	0	2	1	0	0	0	9	28	28	28.3	28
Pursat	0	0	1	0	2	0	1	6	0	0	0	0	10	2	0	0	0	2	0	1	0	0	0	0	0	5	15	43	15.2	43
Preah Vihear	0	1	0	0	1	0	4	0	2	0	4	0	12	0	0	0	0	0	2	0	0	0	0	0	0	2	14	57	14.1	58
Otdar Mean Chey	0	0	0	0	1	0	0	1	0	0	1	0	3	1	3	1	3	0	0	1	0	0	0	0	0	9	12	69	12.1	70
Banteay Mean Chey	0	0	0	4	0	1	1	0	1	0	0	0	7	0	1	0	0	0	0	1	0	0	0	0	0	2	9	78	9.1	79
Tboung Khmum	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	3	5	83	5.1	84
Kracheh	0	0	1	0	0	1	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	87	4	88
Kampong Thom	0	1	2	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	90	3	91
Pailin	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	1	3	93	3	94
Kandal	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	2	95	2	96
Siem Reap	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	2	97	2	98
Stueng Traeng	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	98	1	99
Mondol Kiri	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	99	1	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	0	99	0	100
Kampong Chhnang	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	0	99	0	100
Kampong Cham	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	0	99	0	100
Kampong Speu	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	0	99	0	100
Kaoh Kong	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	0	99	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	0	99	0	100
Rotanak Kiri	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	0	99	0	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	0	99	0	100
Svay Rieng	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	0	99	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	0	99	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	0	99	0	100
Phnom Penh	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	0	99	0	100
<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>7</b>	<b>13</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>3</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>65</b>	<b>6</b>	<b>5</b>	<b>2</b>	<b>8</b>	<b>5</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>99</b>			



## 5 Most Affected Provinces for Explosive Ordnance Casualties

### Ranked by Total Casualties

Jan2020 - Sep2021

Rank	Province	Mine Casualties	ERW Casualties	Total Casualties	Cumulative Total
1	Battambang	17	11	28	28
2	Pursat	6	9	15	43
3	Preah Vihear	10	4	14	57
4	Otdar Mean Chey	9	3	12	69
5	Banteay Mean Chey	3	6	9	78

## 10 Most Affected Districts for Explosive Ordnance Casualties

### Ranked by Total Casualties

Jan2020 - Sep2021

Rank	District	Province	Mine Casualties	ERW Casualties	Total Casualties	Cumulative Total
1	Samlout	Battambang	8	8	16	16
2	Veal Veang	Pursat	6	8	14	30
3	Choam Khsant	Preah Vihear	10	4	14	44
4	Anlong Veang	Otdar Mean Chey	7	1	8	52
5	Ou Chrov	Banteay Mean Chey	1	4	5	57
6	Dambae	Tboung Khmum	1	3	4	61
7	Koas Krala	Battambang	3	1	4	65
8	Samraong	Otdar Mean Chey	2	1	3	68
9	Santuk	Kampong Thom	0	2	2	70
10	Kamrieng	Battambang	0	2	2	72

## 10 Most Affected Communes for Explosive Ordnance Casualties

### Ranked by Total Casualties

Jan2020 - Sep2021

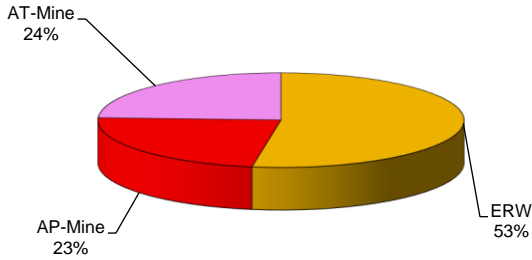
Rank	Commune	District	Province	Mine Casualties	ERW Casualties	Total Casualties	Cum. Total
1	Thma Da	Veal Veang	Pursat	6	4	10	10
2	Sror Aem	Choam Khsant	Preah Vihear	9	0	9	19
3	Ta Taok	Samlout	Battambang	2	5	7	26
4	Samlout	Samlout	Battambang	3	3	6	32
5	Soengh	Ou Chrov	Banteay Mean Chey	0	4	4	36
6	Kantuot	Choam Khsant	Preah Vihear	0	4	4	40
7	Trapeang Pring	Dambae	Tboung Khmum	0	3	3	43
8	Chhnal Moan	Koas Krala	Battambang	2	1	3	46
9	Kakaoh	Santuk	Kampong Thom	0	2	2	48
10	Kamrieng	Kamrieng	Battambang	0	2	2	50

## OVERVIEW OF EXPLOSIVE ORDNANCE ACCIDENTS

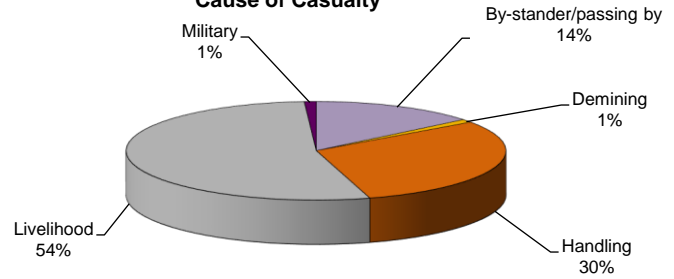
Jan2020 - Sep2021

Total Number of Casualties during Reporting Period: 99

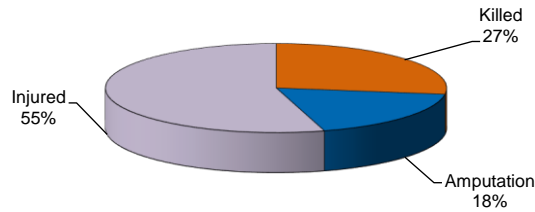
**Explosive Ordnance Distribution**



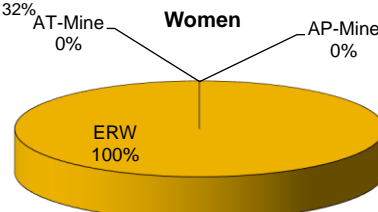
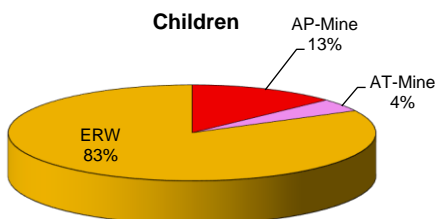
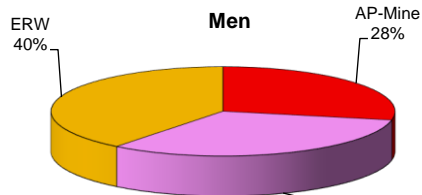
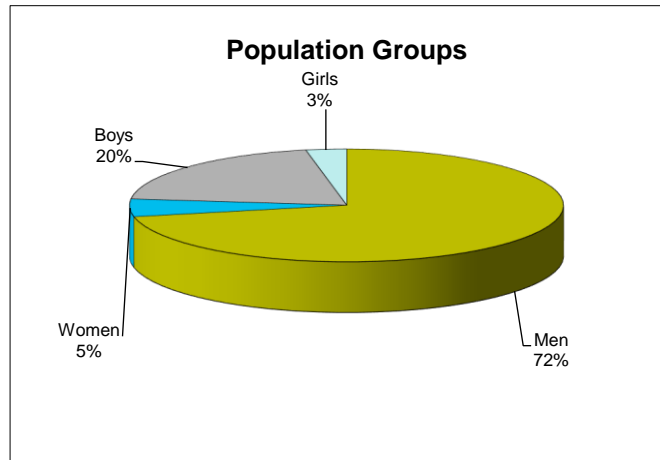
**Cause of Casualty**



**Casualty Types**



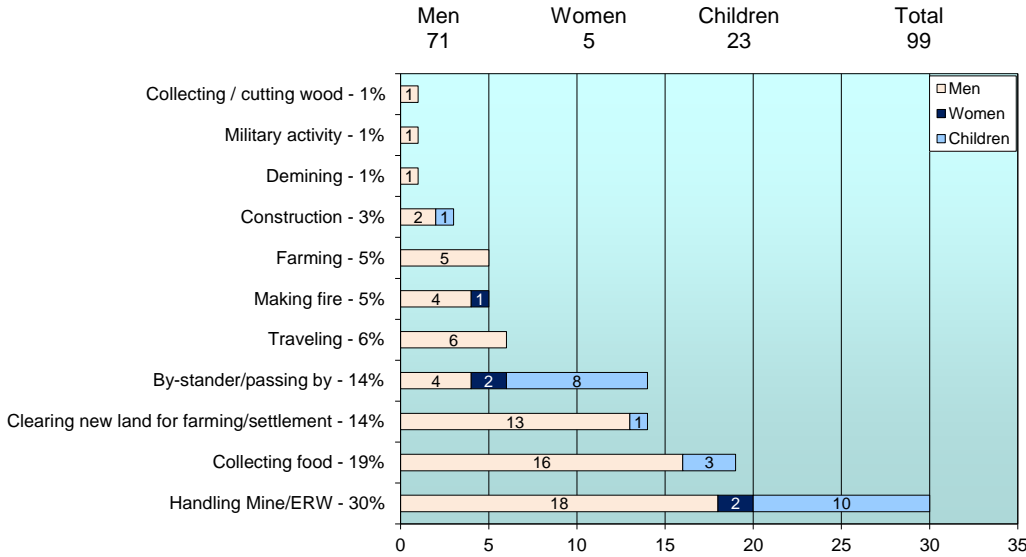
### EXPLOSIVE ORDNANCE ACCIDENT OVERVIEW



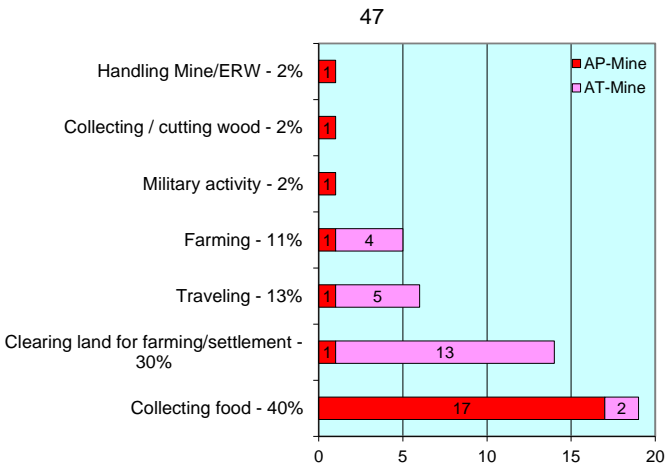
Jan2020 - Sep2021

Number of accidents during Reporting Period: **99**

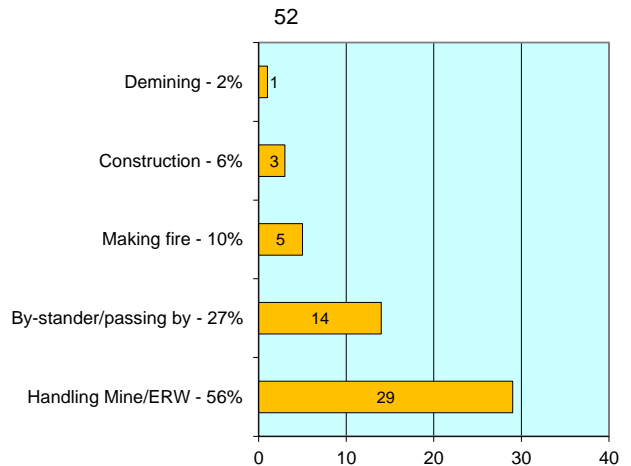
**Cause of Accident by Total Population Group**



**Activities - Mines**

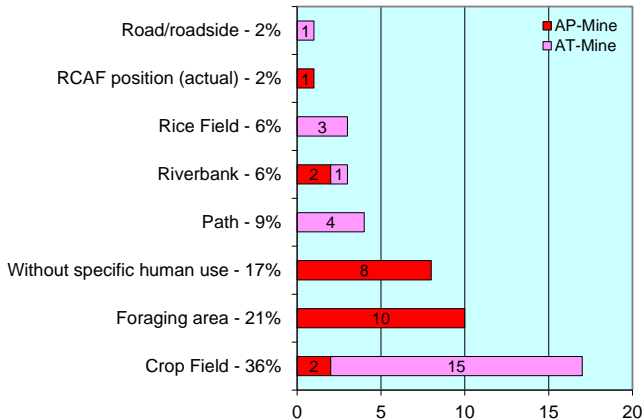


**Activities - ERW**



**Explosive Ordnance Accidents by Terrain Type**

**Terrain - Mines**



**Terrain - ERW**

