

The Explosive Weapons Monitor is a civil society initiative that conducts research and analysis on harms from and practices of explosive weapon use in populated areas for the International Network on Explosive Weapons (INEW).

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The Explosive Weapons Monitor is a civil society initiative that conducts research and analysis on harms from and practices of explosive weapon use and monitors the universalisation and implementation of the *Political Declaration on Strengthening the Protection of Civilians from the Humanitarian Consequences Arising from the Use of Explosive Weapons in Populated Areas*This research aims to:

- Advance the global recognition and understanding of the impact on civilians of the use of explosive weapons;
- Strengthen research and monitoring on civilian harm from the use of explosive weapons;
- Promote endorsement and support implementation of the Political Declaration; and
- Strengthen collaboration and information sharing between all stakeholders to the Political Declaration process of work.

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Cover photo:

Smoke billowing in the background after an Israeli strike in the north of the Gaza City on 29 December 29 2024.

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KEY FINDINGS

- 1. Harm to civilians and civilian infrastructure from the use of explosive weapons occurred in at least 74 countries and territories around the world in 2024.
 - Civilians in at least 74 countries and territories were affected by incidents of explosive weapons use that caused at least one civilian death or injury or damaged or destroyed civilian infrastructure in 2024.
 - Civilians in 11 countries and territories were heavily impacted by the use of explosive weapons

 Democratic Republic of Congo, Ethiopia, Lebanon, Mali, Myanmar, Nigeria, Palestine, Sudan, Syria, Ukraine and Yemen.
 - Twenty-six countries and territories affected by the use of explosive weapons in 2024 have endorsed the Political Declaration. Palestine was the only endorser to be heavily impacted by the use of explosive weapons.
- 2. Civilian deaths caused by the use of explosive weapons remained alarmingly high in Palestine and increased elsewhere across the globe in 2024.
 - Civilian fatalities from explosive weapons in Palestine represented almost two-thirds of all those reported across the globe in 2024, remaining persistently high following a year of unprecedented civilian death and injury in 2023.
 - In the rest of the world, civilian fatalities from explosive weapons rose by more than half compared to the previous year, with notable increases in Lebanon, Myanmar, Syria and Ukraine.
 - Civilian fatalities from explosive weapons in ten additional countries contributed to the high numbers of deaths recorded across the globe – Afghanistan, Democratic Republic of Congo, Ethiopia, Iran, Mali, Nigeria, Pakistan, Russia, Somalia and Yemen.
- 3. The use of explosive weapons in attacks on healthcare increased by 64 percent in 2024.
 - At least 1,857 incidents in which explosive weapons damaged or destroyed health facilities and ambulances or killed health workers were recorded by Insecurity Insight. The number of attacks increased by 64 percent from 2023, in which 1,133 attacks were recorded.
 - Attacks on healthcare with explosive weapons were recorded in 26 countries and territories in 2024. About 90 percent of all incidents were recorded in four countries – Lebanon, Myanmar, Palestine and Ukraine.
- 4. The use of explosive weapons in attacks on education more than doubled in 2024.
 - At least 861 incidents in which explosive weapons damaged or destroyed education facilities or killed teachers or students were recorded by Insecurity Insight in 2024. The number of attacks more than doubled from 2023, in which 415 attacks were recorded.
 - Attacks on education with explosive weapons were recorded in 22 countries and territories in 2024. The highest numbers of incidents were recorded in Ukraine, Palestine and Myanmar.

- 5. The use of explosive weapons in attacks on humanitarian aid occurred nearly five times more frequently in 2024.
 - At least 1,631 incidents of explosive weapons use affecting humanitarian aid operations, aid workers and camps were recorded by Insecurity Insight in 2024. Numbers of incidents affecting aid operations were almost five times higher in 2024 than in 2023, in which 357 incidents were recorded.
 - Attacks on humanitarian aid with explosive weapons were recorded in 16 countries and territories in 2024. About 90 percent of all incidents were recorded in Palestine.
- 6. The use of explosive weapons contributed to food insecurity for civilians in at least nine countries and territories in 2024.
 - Where data was available, Insecurity Insight documented at least 300 incidents in which explosive weapons affected communities' ability to produce and access food in nine countries and territories in 2024.
- 7. The use of explosive weapons by armed forces of 28 states caused harm to civilians and civilian infrastructure in 30 countries and territories in 2024.
 - Armed forces of 28 states reportedly used explosive weapons that caused harm to civilians or civilian infrastructure in 30 countries and territories in 2024.
 - There were four contexts of use in which state armed forces reportedly caused harm to civilians from the use of explosive weapons in more than 1,000 incidents – Israeli armed forces in Palestine, Israeli armed forces in Lebanon, Russian armed forces in Ukraine, and Myanmar armed forces in Myanmar.
 - The use of explosive weapons by armed forces of five states that have endorsed the Political Declaration – Jordan, Somalia, Togo, Türkiye and the United States – reportedly caused harm to civilians in five countries and territories – Burkina Faso, Iran, Iraq, Somalia and Syria.
- 8. Non-state actors used explosive weapons that caused harm to civilians and civilian infrastructure in 65 countries and territories in 2024.
 - Non-state actors reportedly used explosive weapons that caused harm to civilians or civilian infrastructure in 65 countries and territories in 2024.
 - Seven countries were affected by explosive weapons use by non-state armed actors that reportedly caused harm to civilians in more than 100 incidents – Israel, Myanmar, Pakistan, Somalia, Sudan, Syria and Yemen.
- 9. It remains a critical humanitarian priority to bring the 2022 Political Declaration on Strengthening the Protection of Civilians from the Humanitarian Consequences of the Use of Explosive Weapons in Populated Areas into effect to prevent and reduce harm to civilians.
 - States should endorse and implement the Political Declaration to prevent and reduce harm to civilians from the use of explosive weapons. Developing new policies and practices that place limits on the use of explosive weapons in populated areas and facilitate assistance to conflictaffected communities are crucial elements of implementation.

INTRODUCTION

"I did not immediately comprehend what had happened. My head was shaking, and my eyes were only seeing shadows. After a while, I saw them pulling a woman from under the rubble and brought her into our house. It was Fatima, the mother of the two killed children. She was delirious and asking, Where are my children? Where are my children? I can't hear their voices.' She was covered in dust and covered in her own blood. It was heartbreaking." 1

In towns and cities across the world in 2024, civilians experienced devastating levels of harm from the use of explosive weapons. As civilian deaths caused by the use of explosive weapons remained alarmingly high in Palestine, they increased elsewhere across the globe in 2024. More civilians were impacted by impeded access to healthcare, education and humanitarian aid – across contexts such as Democratic Republic of Congo, Ethiopia, Lebanon, Mali, Myanmar, Nigeria, Palestine, Sudan, Syria, Ukraine and Yemen – than in 2023.

IN TOWNS AND CITIES ACROSS THE WORLD IN 2024, CIVILIANS EXPERIENCED DEVASTATING LEVELS OF HARM FROM THE USE OF EXPLOSIVE WEAPONS. AS CIVILIAN DEATHS CAUSED BY THE USE OF EXPLOSIVE WEAPONS REMAINED ALARMINGLY HIGH IN PALESTINE, THEY INCREASED ELSEWHERE ACROSS THE GLOBE IN 2024. MORE CIVILIANS WERE IMPACTED BY IMPEDED ACCESS TO HEALTHCARE, EDUCATION AND HUMANITARIAN AID — ACROSS CONTEXTS SUCH AS DEMOCRATIC REPUBLIC OF CONGO, ETHIOPIA, LEBANON, MALI, MYANMAR, NIGERIA, PALESTINE, SUDAN, SYRIA, UKRAINE AND YEMEN — THAN IN 2023.

On 18 November 2022, 83 states endorsed the Political Declaration on Strengthening the Protection of Civilians from the Humanitarian Consequences of the Use of Explosive Weapons in Populated Areas — the first formal international recognition that the use of explosive weapons in populated areas has severe humanitarian consequences that must be urgently addressed. To date, 87 states have endorsed the Declaration, and in doing so have recognised the harms experienced by civilians from the use of explosive weapons in populated areas and committed to work to prevent and address these harms together with the United Nations (UN), the International Committee of the Red Cross (ICRC), and civil society, both during and after conflict.

This report takes stock of harm to civilians from the use of explosive weapons across the globe in 2024 and identifies state and non-state actors reportedly responsible for this use. With this report, the Explosive Weapons Monitor continues its efforts to report on harm to civilians and civilian infrastructure across a fuller spectrum of harm and drawing on a wider range of data sources.

HARM TO CIVILIANS AND CIVILIAN INFRASTRUCTURE FROM THE USE OF EXPLOSIVE WEAPONS IN 2024

1. Methodology Note

The Explosive Weapons Monitor reports on civilian harm from the use of explosive weapons across four thematic areas using data shared by partner organisations. These include incidents in which civilian casualties were reported, as recorded by Action on Armed Violence (AOAV) and the Armed Conflict Location & Event Data Project (ACLED), as well as incidents that affected civilian access to healthcare, education, and humanitarian aid, as recorded by Insecurity Insight. For a select number of countries and territories for which data is available, the Explosive Weapons Monitor also reports on food insecurity, as recorded by Insecurity Insight.

This report includes global data on civilian fatalities recorded by AOAV and ACLED. In instances involving

the

deathse of health, education, and aid workers, data from Insecurity Insight is also included. Data on and destruction of civilian infrastructure, particularly health, education and camps for internally

displaced

persons and refugees, were also recorded by Insecurity Insight. For full methodologies, please see

The data presented in this report do not capture every casualty or incident of explosive weapons use that occurred in 2024. They also do not capture the many additional ways in which civilians are impacted by the use of explosive weapons, such as displacement, psychosocial trauma and impeded economic development. The impact of explosive weapons use is much greater than is presented here. Instead, this report aims to identify patterns of harm from the use of explosive weapons around the globe and to demonstrate a clear need to mitigate risk to civilians, take steps to prevent the harm to civilians caused

Box 1 – Reporting on explosive weapons use in populated areas

victims and survivors.

The Explosive Weapons Monitor defines populated areas as "any concentration of civilians, be it permanent or temporary, such as in inhabited parts of cities, or inhabited towns or villages, or as in camps or columns of refugees or evacuees, or groups of nomads," synonymous with the term "concentration of civilians" which appears in existing international humanitarian law (IHL). The references to refugees, evacuees and nomads and the use of the term "inhabited" suggest that the presence of civilians and civilian objects — which need not be in great numbers — is a defining characteristic of populated areas.2

While the data presented here do not distinguish between the use of explosive weapons in populated and unpopulated areas, the indicators of harm – civilian casualties, damage and destruction of civilian infrastructure, and impeded access to essential services – suggest that the majority of incidents recorded by each data source above likely occurred in populated areas.

Identifying the numbers of civilian fatalities from explosive weapons presents numerous challenges, including data availability, verification and accuracy. In conflict situations, there is often limited media access and a lack of infrastructure and resources for data collection, hindering the ability to gather comprehensive information. Underreporting of casualties can be due to a combination of factors, such as changing media focus on conflicts and inaccessible areas. Data or reporting can be biased according to specific aims, narratives or outlooks. Distinguishing civilian deaths from available information can also be challenging, especially when reporting sources use unclear terminology and terms to identify civilians. As such, numbers of casualties presented here are almost certainly an underrepresentation of civilian casualties in 2024. Additionally, civilian casualties caused by explosive weapons may have occurred in countries and territories not identified in this report.

² See Article 1(2), Protocol on Prohibitions and Restrictions on the Use of Incendiary Weapons (1980). See also ICRC (2016). "Explosive Weapons in Populated Areas – Factsheet'; Human Rights Watch and Harvard Law School International Human Rights Clinic (2022). "Safeguarding Civilians: A Humanitarian Interpretation of the Political Declaration on the Use of Explosive Weapons in Populated Areas', pp.8-9.

2. Global Overview

Harm to civilians and civilian infrastructure from the use of explosive weapons occurred in at least 74 countries and territories in 2024 (see Figure 1). This harm occurred in incidents that caused civilian death or injury, or affected access to healthcare, education, humanitarian aid or food security, including the damage and destruction of the civilian infrastructure necessary to deliver these essential services.

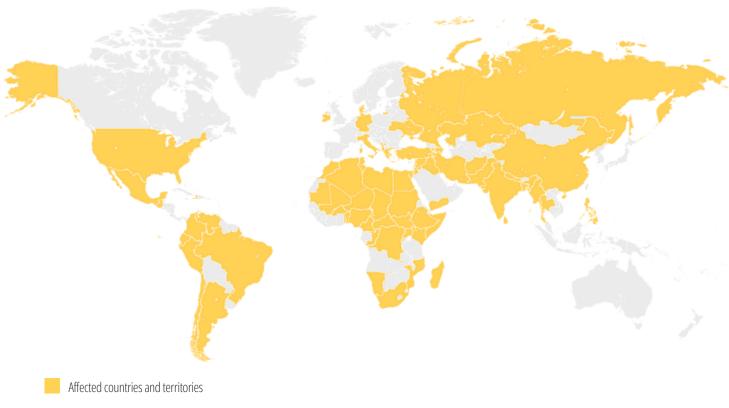
Of these 74 affected countries and territories, 26 have endorsed the Political Declaration:

 Brazil, Central African Republic, Colombia, Côte d'Ivoire, Croatia, Cyprus, Ecuador, Germany, Greece, Guatemala, Italy, Jordan, Kenya, Kosovo, Madagascar, Mexico, Montenegro, Morocco, Palestine, Peru, Philippines, Somalia, Thailand, Togo, Türkiye and United States

Civilians in 11 countries and territories were heavily impacted by the use of explosive weapons, as they experienced harm across all reported areas in which global data was available:3

• Democratic Republic of Congo, Ethiopia, Lebanon, Mali, Myanmar, Nigeria, Palestine, Sudan, Syria, Ukraine and Yemen





³ This includes incidents that caused civilian death or injury, or affected access to healthcare, education, or humanitarian aid. Incidents affecting food security are also an indicator of harm to civilians and civilian infrastructure, though at present this data is not recorded for all countries and territories across the globe by Insecurity Insight.

Figure 2 – Areas of harm in countries and territories in which civilians were affected by the use of explosive weapons in 20244

Countr y	流	\$	•	E	300	Country	流	ş	•	E	300
Afghanistan	流	\$		E		Cyprus Democratic	流	\$			
Albania	流					Republic of Congo	流	ş	•	[=]	500
Algeria	流					— Denmark Ecuador Eg	流		•	'	
Argentina	流					ypt Ethiopia					
Armenia	流					—Germany Greece	À				
Azerbaijan	À (—Guatemala Haiti	À	<u> </u>			
Bangladesh	流			F		IndiaIranIraq	À	\$?		
Benin	流					IrelandIsraelItaly	À (
Brazil	À						À				
Burkina Faso	À	Ė				Kenya	流				
Burundi	À	•					流		?		
Cameroon	*	÷					流	\$		E	
Central African Republic	\ i \	7					流	\$			
Chad							流		?	E	
Chile	À		•				流				
China	À .						流	\$		E	
Colombia	流						流				
	流	\$		E			流				
Congo	流						流				
Côte d'Ivoire	E						流	ş			
Croatia	流						711	•			

Casualties Signal Healthcare Aid access Education

Insecurity Insight monitored incidents of explosive weapons use that affected food security in nine countries and territories in 2024. As a result, the absence of data does not imply that civilians in other countries and territories were not impacted in this way in 2024.

Figure 2 – Areas of harm in countries and territories in which civilians were affected by the use of explosive weapons in 2024 (continued)

Country	流	ţ	•	E	333
Kosovo	流				
Lebanon	流	\$	•	E	333
Libya	流				
Madagascar	流				
Mali	流	ş	•	E	333
Mauritania	流				
Mexico	流	ş		E	
Montenegro	流				
Moro cco	流				
Mozambique	流				
Myanmar	流	ŧ	•	E	
Namibia	流				
Nepal	流				
Niger	流	ŧ		E	3335
Nigeria	流	\$	•	E	
Pakistan	流	\$		E	
Palestine	流	Ė	•	E	333
Peru	流				

Country	流	Ė	•	[=]	333
Philippines	流				
Russia	流	\$		[=]	
Somalia	À (ig.	•	=	***
South Africa	À (
South Sudan	流				
Sri Lanka	À (
Sudan	À (÷	•	=	333
Syria	À (÷	•	=	***
Thailand	流				
Togo	À (
Tunisia	À (
Turkey	流				
Uganda	流				
Ukraine	流	÷	•	[=]	
United States	流				
Venezuela	流				
Yemen	流	Ė	•	=	5000









3. Fatalities: Civilian Deaths from the Use of Explosive Weapons

Civilian deaths from the use of explosive weapons remained alarmingly high in Palestine in 2024, following a year with unprecedented civilian death and injury in 2023. This was due primarily to the use of explosive weapons by Israeli armed forces during military operations in Gaza that began in October 2023 and continued throughout 2024.

Global civilian deaths in all affected countries and territories - excluding Palestine - increased by more than half in 2024 compared to 2023, most notably in Lebanon, Myanmar, Syria and Ukraine.5 The use of explosive weapons by Israeli armed forces in Lebanon was a key driver of this increase, as well as the continued use of explosive weapons by Russian armed forces in Ukraine and both state and non-state armed actors in Myanmar and Sudan (see Figure 3).

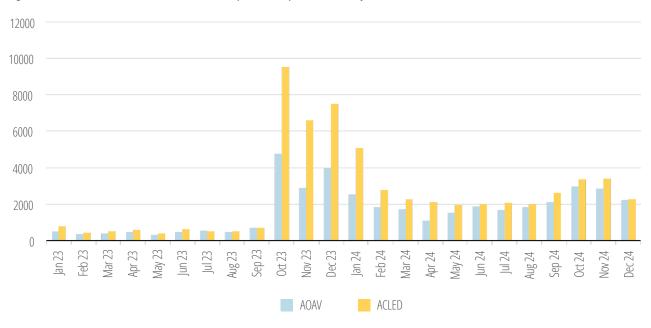


Figure 3 – Global civilian fatalities from the use of explosive weapons recorded by AOAV and ACLED in 2023 and 2024

3.1. Civilian fatalities in Palestine

Identifying numbers of civilian casualties, either from the use of explosive weapons or in conflict more broadly, presents numerous challenges, especially in areas affected by high levels of conflict (for more information, see the methodology note in section 1). While these challenges almost certainly result in under-reporting of civilian fatalities across the globe, they have been especially compounded by the pace and intensity of conflict in Gaza.

Excluding Palestine, in all other countries and territories across the world in 2024, ACLED recorded a 58 percent increase in civilian fatalities compared to 2023, and AOAV recorded a 63 percent increase in the same time period.

3.1.1. Background on data sources

The intensity of the conflict in Gaza since October 2023, and the challenges faced by journalists and humanitarian operators seeking to report on civilian harm from within Gaza, have made it difficult for data collection organisations relying on incident- or event-based reporting on civilian casualties to keep up with the pace of the conflict in real time. Instead, real-time figures used by international organisations such as the United Nations, media sources, and non-governmental organisations often rely on the casualty figures reported regularly by the Palestinian Ministry of Health (MoH) in Gaza. As with many health organisations, these numbers do not distinguish between civilians and armed actors or specify if the cause of death is due to the use of explosive weapons.6

A number of organisations have been working on in-depth, incident-based recording of civilian casualties in Gaza, including local organisation Al Mezan and civilian casualty recording organisation Airwars. These organisations undergo a process of investigating, documenting and verifying information from civilian casualty incidents. The data sources used here, ACLED and AOAV, collect reported information on incidents or events. AOAV relies on English-language media sources and data therefore reflects the aggregate casualty estimate provided by English-language reporting for a given incident. ACLED uses a combination of traditional media sources in numerous languages, reports from international and non-governmental organisations, local partner data, and targeted and verified 'new media' (or social media) sources.

3.1.2. Aggregated casualty data

ACLED compared MoH fatality figures with its own data collected for Gaza in October 2023 and, as a result, estimated that only half of all reported fatalities had been recorded by ACLED in relevant events. Though ACLED noted that sources other than the MoH reporting fatality figures in Gaza became gradually more comprehensive throughout 2024, it was not until May 2024 that it found its own fatality counts, based on its standard methodology, began to align with or exceed data released by the MoH.7

AOAV data on civilian fatalities from the use of explosive weapons in Gaza from October 2023 – May 2024 reflects the same challenges noted by ACLED (see Figure 4).8 In October 2023, AOAV estimated that English-language media sources were only capturing around a third of civilian deaths in Gaza, noting also that the situation on the ground in both Gaza and the West Bank resulted in media reports that did not include specific casualty tolls or locations, both requirements for AOAV's methodology for recording casualty data.9

⁶ Debre, I. (2023). 'What is Gaza's Ministry of Health and how does it calculate the war's death toll?'. AP News. 6 November 2023. https://apnews.com/article/israel-hamas-war-gaza-health-ministry-health-death-toll-59470820308b31f1faf73c703400b033; see also the https://www.thelancet.com/action/showPdf?pii=S0140-6736%2824%2902678-3.

ACLED (2024). 'Coding of fatalities in Gaza since 7 October 2023'. Last updated 30 September 2024. https://acleddata.com/knowledge-base/coding-of-fatalities-in-gaza-since-7-october-2023/. For information on sourcing, see also ACLED (2024). 'Sourcing: Reliability, quality control, and accounting for bias'. 20 September 2024. https://acleddata.com/knowledge-base/faqs-acled-sourcing-methodology/.

Monthly civilian fatality numbers reported by the MoH were collected from the Occupied Palestinian Territories Country Dashboard updated by the Global Health Cluster of the World Health Organization. It can be accessed at: https://healthcluster.who.int/countries-and-regions/occupied-palestinian-territory/

AOAV (2023). 'Media coverage of individual Gaza strikes only capturing one third of all deaths, AOAV finds'. 31 October 2023. https://aoav.org.uk/2023/only-a-third-of-casualties-following-specific-reported-incidents-of-explosive-violence-in-gaza-are-being-captured-by-english-language-media-aoav-finds/#:-:text=An%20analysis%20of%20English%20language,tolls%20claimed%20by/%20official%20sources.



Figure 4 – Fatalities reported by AOAV, ACLED and the MoH from October 2023 through December 2024¹⁰

To avoid this significant undercount of fatalities in Gaza since October 2023, ACLED adopted a methodology through which it incorporates MoH-reported fatalities into its dataset, along with reports from the Israeli Defense Forces (IDF) to account for armed-actor fatalities. As above, contributions from both these sources have become less significant over time.11

AOAV's methodology remained consistent throughout 2023 and 2024, indicating that civilian fatality numbers in English-language media sources also continued to underrepresent the scope of civilian deaths from the use of explosive weapons until media reporting became increasingly comprehensive in mid-2024.

While figures here from AOAV and ACLED represent civilian fatalities from the use of explosive weapons, data reported by the MoH does not distinguish between civilians and armed actors and includes all deaths and 10 injuries of Palestinians recorded by hospitals throughout Gaza, not only those casualties caused by explosive weapons.

For more detailed information on this methodology, and for noted limitations and biases associated with ACLED's fatality figures in Gaza, see ACLED (2024). 'Coding of fatalities in Gaza since 7 October 2023'. Last updated 30 September 2024. https://acleddata.com/knowledge-base/coding-of-fatalities-in-gaza-since-7-october-2023/.

Box 2 – Estimating direct and indirect fatalities in Gaza

An analysis by epidemiologists at the London School of Hygiene and Tropical Medicine, published in the Lancet, found that direct deaths and injuries during the first nine months of conflict in Gaza may have been underreported by the Gaza MoH by at least 40 percent. As is the case in areas of prolonged conflict throughout the world where casualty tracking faces additional challenges, the MoH likely turned to less structured data collection efforts when hospitals were under siege or without telecommunications capacities during escalating attacks. Researchers used a capture-recapture method — analysing overlaps between independent data sources to estimate mortality where no single source is complete — to estimate total direct deaths in the Gaza Strip using official hospital lists, an MoH survey, and social media obituaries. The study found that deaths from traumatic injury, or direct deaths, between 7 October and 30 June 2024 were estimated to be more than 64,000, about 40 percent higher than the over 41,900 deaths reported by the MoH at that time.12

Indirect deaths, which include deaths that result from a loss of access to essential goods and services in conflict, are even more challenging to record and estimate, as civilian harm continues beyond direct attacks, resulting in death and injury months and years later.13 Another analysis published in the Lancet, which estimates that in recent conflicts such indirect deaths range from three to 15 times the number of direct deaths, applied this estimate to conflict in Gaza through June 2024. Researchers estimated that up to 186,000 or more additional indirect deaths could be attributable to the conflict in Gaza, applying an estimate of four indirect deaths per one direct death to the 37,396 deaths reported by the MoH at the time, representing nearly 8 percent of the total population of the Gaza Strip.14

ACLED data on civilian fatalities included in this report incorporates only data that is relevant to explosive weapons, including air/drone strikes, suicide bombs, shelling/artillery/missile attacks, remote explosives/landmines/IEDs, and grenades. Conflict in Gaza has been marked by frequent use of air- and ground-launched explosive weapons by Israeli armed forces and Palestinian armed groups, and it is therefore likely that most but not all casualties reported by the MoH occurred as a result of the use of explosive weapons.

Differences in reporting between ACLED and AOAV further highlight the challenges in producing real-time casualty estimates. As such, figures in this report should be taken as indications of patterns of harm to civilians rather than final or comprehensive casualty estimates.

3.1.3. Analysis

In 2024, civilian fatalities in Palestine from the use of explosive weapons (including those reportedly occurring in both Gaza and the West Bank) represented over 60 percent of all civilian deaths from explosive weapons recorded across the globe by ACLED. Similarly, in 2023, civilian fatalities in Palestine represented over 70 percent of all civilian deaths recorded in all countries and territories across the world (see Figure 5).

¹² Jamaluddine, Z., Abukmail, H., et. al. (2025). Traumatic injury mortality in the Gaza Strip from Oct 7, 2023, to June 30, 2024: a capture-recapture analysis'. Lancet 2025; 405: 469-77. https://www.thelancet.com/action/showPd?pii=S0140-6736%2824%2902678-3.

¹³ See Morais, B. and Young, K. (2024). 'Understanding Civilian Harm from the Indirect or Reverberating Effects of the Use of Explosive Weapons in Populated Areas: Strengthening Data Collection to Implement the Political Declaration'. UNIDIR and Explosive Weapons Monitor. https://explosiveweaponsmonitor.org/reports/4/understanding-civilian-harm-from-the-indirect-or-reverberating-effects-of-the-use-of-explosive-weapons-in-populated-areas-strengthening-data-collection-to-implement-the-political-declaration/.

¹⁴ Khatib, R., McKee, M., et. al. (2024). 'Counting the dead in Gaza: difficult but essential.' Lancet 2024: 404: 237-238. https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(24)01169-3/fulltext.

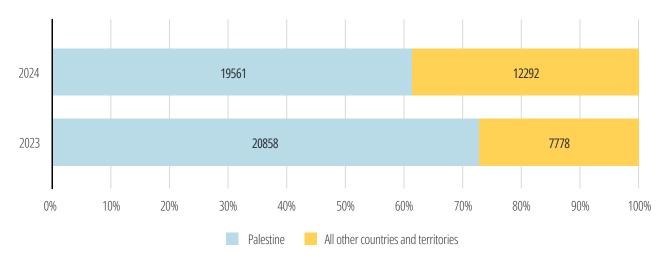


Figure 5 – Civilian fatalities from the use of explosive weapons recorded by ACLED in Palestine and outside of Palestine in 2023 and 2024

Civilian deaths in Palestine from the use of explosive weapons in 2024 remained alarmingly high following an unprecedented year of civilian death and injury in 2023. While the MoH reported an increase in fatalities in Palestine in 2024 (about 8 percent), numbers of civilian fatalities from explosive weapons recorded by ACLED in 2024 decreased slightly (about 6 percent). (Due to the period of underreporting, AOAV shows a 45 percent increase in civilian casualties from explosive weapons in Palestine from 2023 to 2024.)

It took 12 months in 2024 for the number of civilian fatalities from explosive weapons to reach a similar level as the last three months of 2023, highlighting the intensity of the first three months of conflict in Gaza from October – December 2023, as well as the unprecedented civilian harm caused by the use of explosive weapons by Israeli armed forces in Gaza during those three months.

Civilian harm in Palestine nonetheless increased in 2024, as the indirect or reverberating effects on civilians from prolonged conflict use of explosive weapons in conflict damaged and destroyed civilian infrastructure and impeded access to essential services. This is further explored below.

3.2. Civilian fatalities from the use of explosive weapons across the globe

Global civilian deaths in all affected countries and territories other than Palestine increased by more than half in 2024 compared to 2023 (see Figure 6). ACLED recorded a 58 percent increase in civilian fatalities compared to 2023, and AOAV recorded a 63 percent increase in the same time period.

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Figure 6 – Civilian fatalities from the use of explosive weapons in affected countries other than Palestine in 2023 and 2024

Figure 7 – Annual increases in civilian fatalities reported by both ACLED and AOAV in 2023 and 2024

ACLED FATALITIES				
Country	2023	2024	Increase	
Lebanon	30	2910	2880 ↑	
Myanmar	1109	2372	1263 ↑	
Sudan	1211	2160	949 🛧	
Syria	609	727	¹¹⁸ ↑	
Ukraine	1639	1742	103 ↑	

AOAV FATALITIES				
Country	2023	2024	Increase	
Lebanon	44	2168	2124 🛧	
Myanmar	745	1494	749 792	
Sudan	1226	2018	258 249	
Syria	523	781	↑	
Ukraine	1778	2027	↑	

Figure 8 – Additional countries and territories that experienced high numbers of civilian fatalities reported by ACLED and AOAV in 2024

ACLED FATALITIES			
Country	Fatalities		
Afghanistan	53		
Democratic Republic of Congo	165		
Ethiopia	303		
Iran	124		
Mali	287		
Nigeria	179		
Pakistan	187		
Russia	325		
Somalia	155		
Yemen	158		

AOAV FATALITIES			
Fatalities			
128			
44			
44			
114			
21			
200			
210			
192			
137			
96			

Civilian fatalities most notably increased in:15

• Lebanon, Myanmar, Sudan, Syria and Ukraine

The use of explosive weapons by Israeli armed forces in Lebanon was a key driver of this increase, as well as continued use of explosive weapons by Russian armed forces in Ukraine and both state and non-state armed actors in Myanmar and Sudan (see Figure 7).

Other countries and territories experienced high levels of civilian fatalities, with at least 100 civilian fatalities reported by either ACLED, AOAV, or both in (see also Figure 8):

• Afghanistan, Democratic Republic of Congo, Ethiopia, Iran, Mali, Nigeria, Pakistan, Russia, Somalia, and Yemen

3.3. Civilian fatalities by weapons categories

In data recorded by both ACLED and AOAV, the majority of civilian deaths in 2024 were the result of the use of air-launched explosive weapons (78 percent and 65 percent, respectively). This includes any weapon fired or dropped from a rotary of fixed-wing aircraft, while also including unmanned aerial vehicles or drones. These include air-dropped bombs (bombs reported as being delivered by air), airstrikes (attacks from a helicopter, drone, or plane), and missiles or rockets launched from an aircraft, while also including attacks by drones that themselves contain an explosive charge, as in the case of loitering munitions.

About 16 percent (ACLED) and 18 percent (AOAV) of civilian fatalities in 2024 were the result of ground-launched explosive weapons. This includes munitions launched from any surface-level platform, including weapons thrown by a person, or fired from warships or vehicles. These include artillery shells (projectiles fired from a gun, cannon, howitzer, or recoilless rifle), tank shells, ground-launched missiles, mortars, rockets (typically missiles which do not contain guidance systems), non-specific shelling, rocket-propelled grenades, and hand grenades.

About 6 percent (ACLED) and 4 percent (AOAV of civilian fatalities in 2024 were the result of directlyemplaced explosive weapons, which encompass weapons that are physically placed in the location at which they detonate. These include anti-personnel mines, anti-vehicle mines, landmines, non-specific IEDs (including so-called 'suicide vests'), car bombs and roadside bombs.

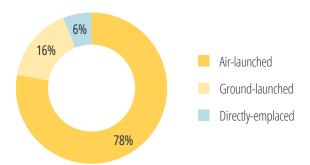


Figure 10 – Civilian fatalities recorded by ACLED by weapons categories in 2024

Since 7 October 2023, the use of air- and ground-launched explosive weapons by Israeli armed forces in densely populated areas in Lebanon, in response to rocket fire from Hezbollah and other armed groups, has caused civilian death and injury, damaged critical civilian infrastructure, forced waves of displacement and impeded access to essential services.

Extensive airstrikes carried out by Israeli armed forces since conflict escalated on 23 September 2024 have been particularly devastating for civilians in Lebanon. As a result of these airstrikes, 558 people were killed in one day, a death toll that took 18 days to reach in Gaza when conflict began on 7 October 2023,16 marking the deadliest day for civilians from the use of explosive weapons in 2024. Of those who were killed, 50 were children and 94 were women, according to the Lebanese Ministry of Public Health. These strikes also damaged hospitals, medical centers and ambulances, and ultimately displaced tens of thousands of people, according to the United Nations High Commissioner for Refugees (UNHCR).17

While the majority of Israeli airstrikes occurred in southern Lebanon, where about a million people lived before conflict escalated in October 2023, some strikes hit close to central Beirut and in the city's suburbs, heavily populated areas with hundreds of thousands of civilians.18 In northern Lebanon, where villages accommodated those displaced from southern Lebanon and elsewhere, Israeli armed forces also conducted airstrikes. In the village of Aitou, for example, a strike in October 2024 on a house rented to people fleeing conflict in southern Lebanon killed 23 civilians, including a five-month-old infant.19

Between 22 and 25 September, Hezbollah reportedly launched more than 200 rockets, cruise missiles and drones into towns in northern Israel, injuring six people. In one incident on 22 September, a Hezbollah rocket struck a residential neighbourhood near Haifa while targeting an Israeli military base and weapons manufacturing location.20 In the weeks that followed the escalation of Israeli airstrikes at the end of September 2024, more than one million people were displaced in the largest wave of displacement in Lebanon in decades. According to the United Nations Office for the Coordination of Humanitarian Affairs (UNOCHA), entire communities were uprooted, civilian infrastructure was heavily damaged or destroyed, and the displacement situation escalated so rapidly that accurate reporting became challenging.21



¹⁷ L'Orient Today (2024). Tens of thousands of people fled southern Lebanon and Bekaa since Monday: UN'. 24 September 2024. https://today.lorientlejour.com/article/1428346/tens-of-thousands-of-people-fled-southern-lebanon-and-bekaa-since-monday-un.html.

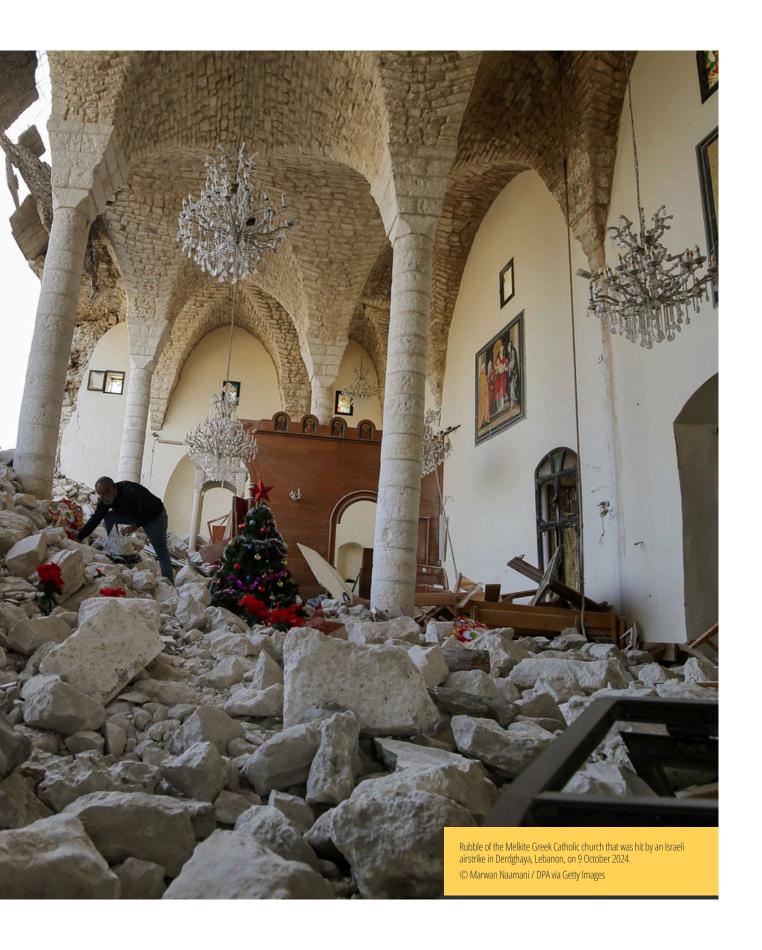


BBC News (2024). 'Israel-Hezbollah conflict in maps: Ceasefire in effect in Lebanon'. 27 November 2024 https://www.bbc.com/news/articles/c9vp7dg3ml10.

Amnesty International (2024). 'Lebanon: "The Sky Rained Missiles": Israeli airstrikes in Lebanon must be investigated as war crimes'. 12 December 2024. https://www.amnesty.org/en/documents/mde18/8835/2024/en/.

Varghese, S. and Browne, M. (2024). Videos Show Hezbollah Missile Hit Residential Area in Northern Israel'. New York Times. 23 September 2024. https://www.nytimes.com/2024/09/22/world/middleeast/hezbollah-kiryat-bialik-israel-videos.html, and Human Rights Watch (2024). Lebanon: Israeli Strikes Kill Hundreds as Hostilities Escalate'. 25 September 2024. https://www.hrw.org/news/2024/09/25/lebanon-israeli-strikes-kill-hundreds-hostilities-escalate.

UNOCHA (2024). 'Lebanon: Flash Update #31 - Escalation of hostilities in Lebanon, as of 1 October 2024'. 1 October 2024. https://reliefweb.int/report/lebanon/lebanon-flash-update-31-escalation-hostilities-lebanon-1-october-2024-1000-pm.



4. Healthcare: Incidents of Explosive Weapons Use Affecting Civilian Access to Healthcare

Insecurity Insight recorded at least 1,857 incidents of attacks in which explosive weapons damaged or destroyed health facilities or killed health workers in 25 countries and territories in 2024. The number of attacks increased by 64 percent from 2023, in which 1,133 incidents of attacks occurred.

Figure 10 – Incidents of explosive weapons use affecting healthcare reported by Insecurity Insight in 2024

Country or territory	Number of healthcare incidents in 2024
Afghanistan	1
Burkina Faso	2
Cameroon	1
Colombia	2
Cyprus	1
Democratic Republic of Congo	4
Ethiopia	7 3
India	1
Iran	11
Israel	1
Kenya	47
Lebanon	7

Country or territory	Number of healthcare incidents in 2024
Mali	2
Mexico	1
Myanmar	130
Niger	1
Nigeria	1
Palestine	566
Pakistan	8
Russia	5
Somalia	1
Sudan	84
Syria	40
Ukraine	506
Yemen	1

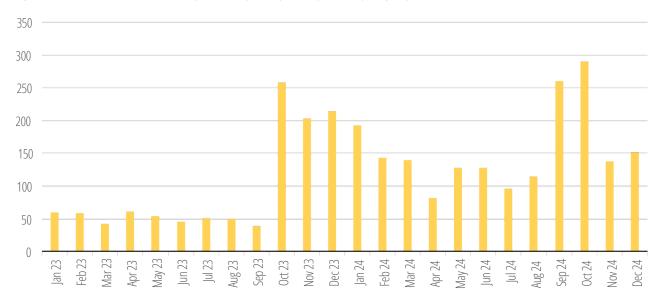


Figure 11 – Attacks on healthcare with explosive weapons reported by Insecurity Insight by month in 2023 and 2024

In 2024, incidents of explosive weapons use affecting healthcare continued to increase, with 90 percent of incidents reported in just four countries:

• Lebanon, Myanmar, Palestine and Ukraine

In Ukraine, incidents involving explosive weapons which affected healthcare almost doubled in 2024 compared to the previous year. About 95 percent of these incidents resulted from attacks reportedly carried out by Russian forces who used air- and drone-dropped, as well as groundlaunched explosive weapons, that damaged and destroyed health facilities and ambulances. In Syria, there was an increase in reported incidents affecting healthcare in 2024, primarily due to an escalation in conflict in December 2024 following a surprise military offensive by Hayat Tahrir Al-Sham (HTS), which led to increased air-launched explosives by Syrian and Russian forces in Aleppo and Idlib governorates.

4.1. Attacks on health facilities

In 2024, attacks on health facilities with explosive weapons increased by 88 percent compared to the previous year. Health centres, hospitals, children's hospitals, pharmacies and mobile health units were all affected by explosive weapons that directly hit the facilities, damaging or destroying its infrastructure and killing and injuring health workers and patients. In some instances, explosive weapons used in the vicinity of the facilities also caused damage and destruction.

4.2. Attacks on ambulances

Attacks on ambulances with explosive weapons also continued to increase in 2024 compared to the previous year. More than half, about 57 percent, of these incidents were reported in Lebanon mainly between September and October 2024 where, on average, 12 ambulances were hit every week. Incidents were also reported in Israel, Kenya, Myanmar, Palestine, Pakistan, Russia, Sudan, Syria and Ukraine.

4.3. Health workers killed

In 2024, the number of health workers killed by explosive weapons almost doubled. Incidents were reported in:

• Ethiopia, India, Iran, Lebanon, Mali, Myanmar, Palestine, Russia, Sudan, Syria and Ukraine

In these countries and territories, health workers were killed inside health facilities, while travelling in ambulances and whilst assisting wounded individuals. Health workers were also killed inside their homes, sometimes alongside their families.

About 84 percent of health worker deaths were linked to explosive weapons used by Israeli armed forces in Lebanon and Palestine where, on average, 46 health workers were killed every month from the use of explosive weapons. Additionally, the number of health workers killed by explosives weapons in Myanmar increased from four in 2023 to 10 in 2024. These incidents were linked to explosive weapons use by the Myanmar Armed Forces as well as to the People's Defence Forces and various ethnic armed groups.



Box 4 - Attacks on healthcare in Ukraine and their reverberating effects

Since Russia launched its full-scale invasion of Ukraine on 24 February 2022, the use of explosive weapons has featured prominently throughout the conflict, with use by Russian armed forces largely responsible for the devastating impacts the conflict has had on Ukrainian civilians. This includes the deployment of airstrikes, MLRS Grad rockets, missiles and mortars, including in major cities and other populated areas.22

More than three years of conflict have had devastating impacts on Ukraine's healthcare system. As of April 2025, there have been at least 1,887 attacks on Ukraine's health system documented since the beginning of the full-scale invasion.23 This includes 996 attacks that have damaged or destroyed hospitals and clinics, and more attacks that have killed at least 267 health workers.

Of these, 506 attacks occurred in 2024, killing at least 51 health workers, two of whom worked within the aid sector, and at least one aid worker, as recorded by Insecurity Insight. Ninety-five of these incidents were reportedly attributed to Russian armed forces who used both air- and ground-launched explosive weapons, impacting the health system.

The use of armed drones in attacks on healthcare in Ukraine increased in 2024 and were deployed by both Russian and Ukrainian forces. Although Russian drones contributed to the vast majority of incidents recorded by Insecurity Insight, Ukrainian armed forces were linked to at least eight incidents. In these, Ukrainian forces used drones to attack Russian forces who were stationed inside hospitals, whilst in one incident an ambulance was struck by a Ukrainian drone.

Damage and destruction of civilian infrastructure in Ukraine, particularly those impacting Ukraine's power grid, have had dire impacts on the provision of healthcare. Physicians for Human Rights identifies this as a clear pattern — widespread attacks on Ukraine's energy grid by Russian armed forces have harmed healthcare workers and patients, while the reverberating impacts of these attacks has impeded civilian access to healthcare and endangered health workers and patients in Ukraine.24

Many health facilities have faced multiple attacks since the start of the full-scale invasion. The Okhmatdyt National Specialized Children's Hospital, for example, had its windows shattered by airstrikes in March 2022, forcing patients underground for treatment despite the risks posed to those most vulnerable.25 In October 2022, when Russia intensified attacks on Ukrainian energy infrastructure, frequent power outages began. According to Physicians for Human Rights, these energy cuts "jeopardized patient health by interrupting or delaying surgeries, forcing surgeons to operate in darkness illuminated only by headlamps, discontinuing flow of water to the hospital, creating unhygienic conditions, and rendering diagnostic and treatment equipment unusable."26

In a survey of health workers across Ukraine, medical personnel consistently reported delays in elective surgeries, malfunctions in diagnostic equipment such as X-ray machines, disrupted communications systems, medication storage issues, and increased stress and burnout.27 As conflict continues, Ukraine's healthcare system will be further strained. The UN Human Rights Monitoring Mission in Ukraine reported that civilian casualties rose by 30 percent in 2024 compared to 2023, attributing this to increased use of aerial bombs, short-range drones, long-range missiles and loitering munitions by Russian armed forces. Additionally, landmines and explosive remnants of war contaminate an estimated 139,000 square kilometres throughout Ukraine.

²² INEW (2023). 'Ukraine – A year of civilian suffering from bombing and shelling in towns and cities'. 24 February 2023. https://www.inew.org/ukraine-a-year-of-civilian-suffering-from-bombing-and-shelling-in-towns-and-cities/.

²³ Insecurity Insight, et. al. (2025). 'Attacks on Healthcare in Ukraine'. Accessed on 1 May 2025. https://www.attacksonhealthukraine.org/.

²⁴ Physicians for Human Rights and Truth Hound (2024). 'Health Care in the Dark: The Impacts of Russian Attacks on Energy in Ukraine'. 4 December 2024. https://phr.org/our-work/resources/health-care-in-the-dark-attacks-on-energy-in-ukraine/.

²⁵ Ibid.

²⁶ Ibid.

²⁷ Ibid.



5. Education: Incidents of Explosive Weapons Use Affecting Civilian Access to Education

At least 861 incidents of attacks in which explosive weapons damaged or destroyed education facilities or killed teachers or students were recorded in 22 countries and territories by Insecurity Insight in 2024. The number of attacks involving explosive weapons more than doubled from 2023, in which 415 incidents of attacks were recorded.

Figure 13 – Incidents of explosive weapons use affecting education reported by Insecurity Insight in 2024

Country or territory	Number of education incidents in 2024
Afghanistan	2
Bangladesh	2
Burkina Faso	1
Côte d'Ivoire	1
Colombia	1
Democratic Republic of Congo	1
Ethiopia	29
India	4
Iraq	1
Israel	9
Lebanon	10

Country or territory	Number of education incidents in 2024
Mali	1
Mexico	1
Myanmar	167
Nigeria	1
Palestine	247
Pakistan	12
Russia	16
Sudan	25
Syria	27
Ukraine	297
Yemen	6

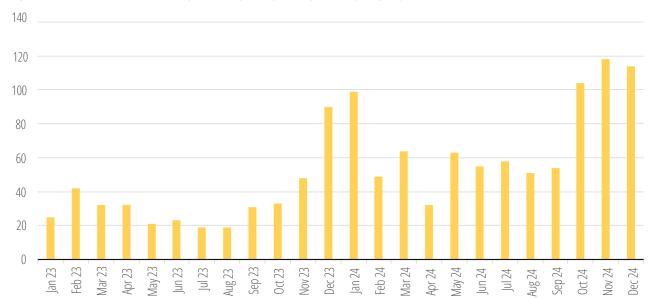


Figure 14 – Attacks on education with explosive weapons reported by Insecurity Insight by month in 2023 and 2024

In 2024, Insecurity Insight recorded the highest numbers of incidents affecting education in:

• Ukraine, Palestine and Myanmar

The use of explosive weapons by Russian armed forces in Ukraine, Israeli armed forces in Palestine and Lebanon, and Myanmar armed forces in Myanmar, all accounted for over 70 percent of incidents in which the use of explosive weapons affected education services in 2024.

To a lesser extent, non-state actors in Myanmar and Sudan, as well as Ethiopian, Syrian, Sudanese and Ukrainian armed forces, also used explosive weapons that affected education.28

In Palestine, recorded incidents in which explosive weapons affected educational facilities increased from 75 incidents in 2023 to 247 in 2024. About 98 percent of these incidents were reported in Gaza where, on average, 20 schools were struck by explosive weapons used by Israeli armed forces every month. At the time of these attacks, all schools were being used as temporary shelters by displaced families, and therefore these incidents not only resulted in the damage and destruction of the schools but also injured and killed hundreds of Palestinians, often women and children.

Incidents in which explosive weapons affected education also increased in Ethiopia, where schools were damaged or destroyed by air- and drone-launched explosive weapons. All but one of these incidents were attributed to the Ethiopian Armed Forces.

5.1. Attacks on education facilities

In 2024, at least 89 kindergartens, 34 primary schools, 41 secondary schools and 34 universities were reported as damaged or destroyed by explosive weapons. Like the previous year, air-launched explosive weapons were reportedly used in most of these incidents. The specific use of drones to launch explosive weapons that affected education increased from 30 incidents in 2023 to 163 in 2024.

Figure 15 – Attacks on education with explosive weapons in 2024



Incidents affecting schools





Incidents affecting teachers





Box 5 – Attacks on education in Myanmar and their reverberating effects

Since the Myanmar military staged a coup and seized control of the country on 1 February 2021, Myanmar armed forces have used explosive weapons causing death and injury to civilians and damage to civilian infrastructure. Armed forces have attacked villages with both ground- and air-launched explosive weapons, damaging homes, schools, hospitals, and religious buildings.29 Non-state armed groups have also conducted attacks using explosive weapons in response to violence from the military.

More than four years later, conflict in Myanmar continues to pose challenges to civilian protection. Internal displacement is estimated to have reached a record high of more than 3.5 million, and multiple crises have compounded the impacts on civilians of disease, food insecurity, and impeded access to essential services.30

As a result, education services have been severely disrupted. In 2024, Insecurity Insight recorded at least 167 attacks on education in which explosive weapons were used in Myanmar. In these incidents, at least 166 education facilities, including kindergartens, primary and secondary schools and universities, were struck by artillery, airstrikes, drones strikes, missiles and shelling. In at least six incidents, mines were planted inside schools which had been previously occupied by conflict actors. In at least one of these incidents, in Tanintharyi region, a student stepped on a mine planted inside a primary school which killed three children and injured 25 others. Additionally, at least seven teachers and 15 students were killed by explosive weapons in 2024, almost all of whom were killed on school premises.

In recent years, Myanmar has been one of the countries in the world most heavily affected by attacks on education, according to the Global Coalition to Protect Education from Attack (GCPEA). The majority of incidents affecting education have involved the use of explosive weapons. GCPEA has reported that the "widespread targeted attacks on, and military use of, schools, universities and education infrastructure in Myanmar have created a hostile educational context for students, parents and educators, who have found it increasingly challenging to make safe choices with regard to their learning, their children and their jobs."31 This has caused learning interruptions from pre-primary to higher education and will have immediate long-term impacts not only on civilians' access to education but on job prospects, livelihoods, mental health and beyond.

A kindergarten teacher in Daw Si Ei village who witnessed an airstrike on her school in February 2024 told Al Jazeera about the deafening explosion that shook the building and ultimately killed four students and injured 40 more. She recalled the sound of the fighter jet before the explosion and the images of children bleeding and unconscious after the attack.32

She and other teachers shared that they had been "incapacitated by fear" after the strike, which has resulted in her inability to return to the school. Children in the village become startled at the sound of a car engine, and only a few have returned to school. A Loyola University expert on trauma told Al Jazeera, "The more prolonged the conflict, the more that social relations and institutions that we depend on for healing and connection erode[.] Especially for children, trauma experienced during key developmental phases can alter the very structures of our neurological systems that are quite literally how we connect to the world."33

²⁹ Amnesty International (2022). 'Bullets Rained from the Sky: War Crimes and Displacement in Eastern Myanmar'. https://www.amnesty.org/en/documents/asa16/5629/2022/en/?utm_source=annual_report&utm_medium=epub&utm_campaign=2021.

³⁰ UNOCHA (2025), 'Myanmar Humanitarian Update No. 44 | 19 February 2025'. 19 February 2025, https://www.unocha.org/publications/report/myanmar/myanmar-humanitarian-update-no-44-19-february-2025.

GCPEA (2024). "Country Profiles 2024: Myanmar'. https://protectingeducation.org/wp-content/uploads/eua_2024_myanmar.pdf.; GCPEA (2022). The Impacts of Attacks on Education and Military Use in Myanmar'. September 2022. https://protectingeducation.org/wp-content/uploads/ImpactofAttacksMyanmar2022.pdf.

³² Fishbein, E. (2024). 'Scarred by war, Myanmar children 'cannot have the life they used to have'. Al Jazeera. 27 May 2024. https://www.aljazeera.com/features/2024/5/27/scarred-by-war-children-in-myanmar-cannot-have-the-life-they-used-to-have.

6. Humanitarian Aid: Incidents of Explosive Weapons Use Affecting Civilian Access to Aid

Insecurity Insight recorded at least 1,631 incidents of attacks in which explosive weapons affected humanitarian aid operations in 16 countries and territories in 2024.34 The number of reported incidents where the use of explosive weapons affected aid operations was almost five times higher in 2024 than in 2023, in which 357 incidents of attacks were recorded.

Figure 16 – Incidents of explosive weapons use affecting aid access reported by Insecurity Insight in 2024

Country or territory	Number of aid access incidents in 2024
Chad	1
Democratic Republic of Congo	6
Ethiopia	2
Haiti	1
Iraq	2
Lebanon	21
Mali	3

Country or territory	Number of aid access incidents in 2024
Myanmar	911
Niger	146
Nigeria	0 4
Palestine	64
Somalia	14
Sudan	40 2
Syria	
Ukraine	
Yemen	

400 300 250 200 150 100 50 Sep 23 Jun 23 Dec 23 Feb 24 Mar 24

Figure 17 – Attacks on humanitarian aid with explosive weapons reported by Insecurity Insight by month in 2023 and 2024

6.1. Attacks on aid infrastructure

In 2024, aid offices, vehicles and accommodations were damaged or destroyed by air- and ground-launched explosive weapons in:

• Lebanon, Niger, Nigeria, Palestine, Somalia, Sudan, Syria and Ukraine

In addition, aid supplies were also damaged or destroyed by airstrikes in Lebanon, Palestine and Ukraine, and by ground-launched explosive weapons in Ukraine and Sudan.

6.2. Aid workers killed

In 2024, the number of aid workers killed by explosive weapons increased from 36 in 2023 to 115. Sixty-three aid workers were killed in Gaza by air- and ground-launched explosive weapons used by Israeli armed forces. Aid workers were killed whilst travelling in aid convoys, inside warehouses and in displacement camps, as well as whilst distributing aid. Aid workers were also killed by explosive weapons in:

• Democratic Republic of Congo, Iraq, Lebanon, Niger, Somalia, South Sudan, Sudan, Syria and Ukraine

These incidents have compounding effects on the population and may affect an aid agency's ability to distribute relief to communities. For example, in 2024, at least 18 incidents were recorded by Insecurity Insight which affected aid distribution sites in Lebanon, Palestine, Sudan, Syria, Ukraine and Yemen.

Camps for internally displaced persons (IDPs) were reportedly damaged, and programmes related to IDPs were suspended, due to the use of explosive weapons in:

• Chad, Democratic Republic of Congo, Ethiopia, Iraq, Lebanon, Mali, Myanmar, Palestine, Sudan, Syria, Ukraine and Yemen

Duty of care responsibilities increasingly force aid agencies not to send international staff into areas affected by explosive weapons. Risk transfer from international aid agencies to local partner agencies is particularly common in areas where explosive weapons use affects aid operations.

Figure 18 – Attacks on humanitarian aid with explosive weapons in 2024

115

Aid workers killed by explosive weapons



62

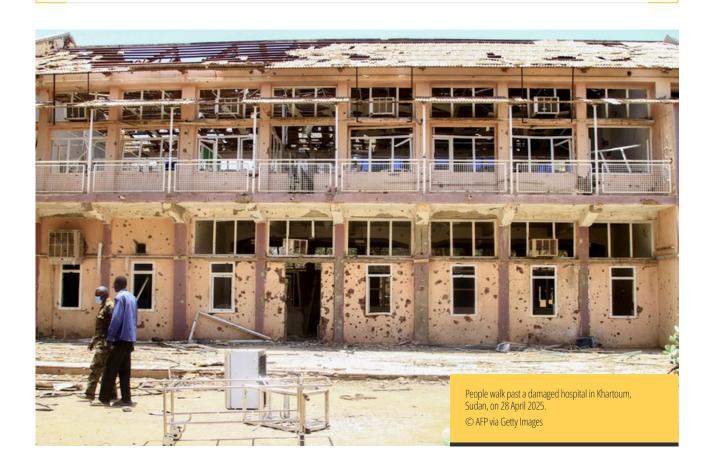
Incidents affecting aid infrastructure



1479

Incidents affecting IDP/Refugee camps





Box 6 – Attacks on humanitarian aid in Sudan

Fighting erupted in Sudan in April 2023 between its military, the Sudan Armed Forces (SAF) and a paramilitary group known as the Rapid Support Forces (RSF). The fighting, led by rival military leaders who had jointly overthrown Sudan's transitional government at the end of 2021, spread quickly from Khartoum, the capital, to other parts of the country, including the Darfur region and the Kordofan states.35

The resulting conflict has taken place largely in Sudan's towns and cities and has had severe impacts on the provision of essential services and access to much-needed humanitarian aid. The United Nations Secretary-General described the situation as a catastrophe of "staggering scale and brutality," as about 30.4 million people, or over two-thirds of the total population, are in need of assistance. As acute hunger grows, and more than half the population faces high levels of food insecurity and famine conditions, humanitarian efforts have been severely hampered by the conflict, putting severe constraints on humanitarian access and the movement of supplies, as well as endangering aid workers.36

In 2024, Insecurity Insight recorded at least 64 incidents in which explosive weapons affected humanitarian aid operations. Artillery, shelling and airstrikes damaged or destroyed warehouses and distribution centres, as well as housing for aid staff. IDP and refugee camps were hit by artillery, shelling or airstrikes at least 56 times, affecting the ability of the aid sector to protect and provide for displaced people. Food aid was affected by the use of explosive weapons when World Food Program (WFP) compounds, field offices and convoys were hit and when local volunteers and users of food kitchens were killed and their supplies destroyed. Access to healthcare was also impeded by the use of explosive weapons after programmes run or supported by international non-governmental organisations were directly affected at least 21 times in 2024.

This follows a year that was particularly devastating for humanitarian aid in Sudan. In 2023, more than 6.1 million people left their homes and fled to other parts of Sudan or to neighbouring countries, including the Central African Republic, Chad, Egypt and South Sudan. More than 4.85 million people were displaced within Sudan, the majority of whom were originally from Khartoum, while more than 1.3 million people crossed into neighbouring countries.37 By the end of 2023, Sudan faced the largest internal displacement crisis in the world as well as the most significant child displacement crisis, with 3 million children displaced.38

As the number of people in Sudan in need of humanitarian assistance increased to nearly 25 million at the end of 2023,39 the ability of agencies to deliver this much-needed aid decreased. As a result of increased insecurity and risk of harm, aid agencies in Sudan scaled down programmes and evacuated staff into safer parts of the country.40 Risks of explosive weapons use are a known impediment to aid access, as they cause aid agencies to act to protect their staff and therefore limit the provision of food aid, healthcare and other vital services to vulnerable populations.

³⁵ Annesty International (2023). 'Death came to our home: war crimes and civilian suffering in Sudan'. https://www.amnesty.org/en/documents/afr54/7037/2023/en/.

³⁶ Lennon, C. (2025). 'Sudan, 'the most devastating humanitarian and displacement crisis in the world". 14 February 2025. https://news.un.org/en/story/2025/02/1160161.

³⁷ International Organization for Migration (IOM) (2023). (Regional Sudan Response Situation Update'. 12 September 2023. https://www.iom.int/crisis-sudan.

³⁸ Ibid.

³⁹ UN OCHA (2023), 'Sudan Humanitarian Needs and Response Plan 2024'. 21 December 2023. https://reliefweb.int/report/sudan/sudan-humanitarian-needs-and-response-plan-2024-december-2023.

⁴⁰ Kleinfeld, P., and Francis, O. (2023). 'Aid agencies in Sudan face massive reboot as war takes hold'. New Humanitarian. 26 April 2023. https://www.thenewhumanitarian.org/analysis/2023/04/26/aid-agencies-sudan-war.

7. Food Security: Incidents of Explosive Weapons Use Affecting Civilian Access to Food

Insecurity Insight recorded at least 562 incidents in which explosive weapons affected food security in nine countries and territories in 2024 for which Insecurity Insight monitored incidents.

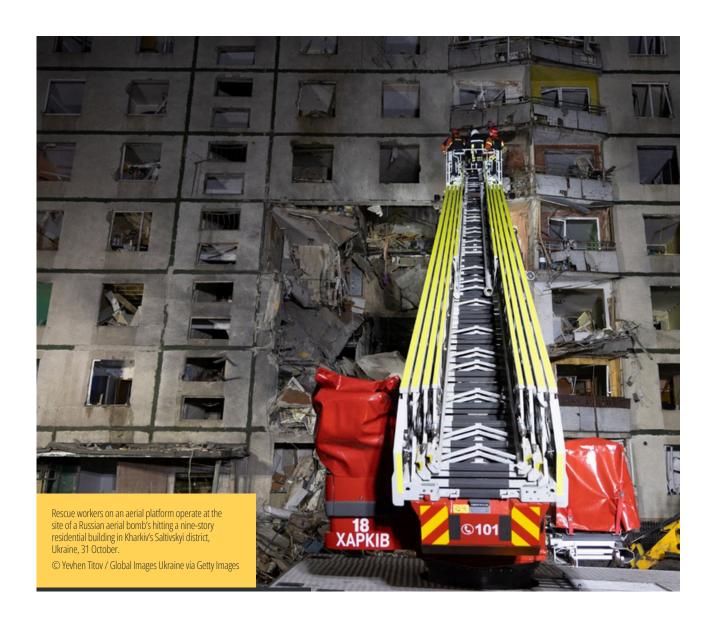
At present, Insecurity Insight only monitors incidents affecting food security in these nine countries and territories. As a result, the absence of data does not imply that civilians in other countries and territories were not impacted in this way in 2024.

Figure 19 – Incidents of explosive weapons use affecting food insecurity reported by Insecurity Insight in 2024

Country	Number of food insecurity incidents in 2024
Democratic Republic of Congo	5 5
Lebanon	13
Mali	3
Niger	205
Palestine	26
Somalia	109
Sudan	152
Syria	44
Yemen	

These incidents included damage and destruction to the food system in affected countries, such as food production sites and markets, as well as buildings, warehouses, convoys and distribution points aid agencies used to try to alleviate food insecurity in conflict-affected areas where the food system was severely disrupted.

Insecurity Insight documented at least 300 incidents which affected communities' ability to produce and access food. These incidents involved the use of explosive weapons which damaged or destroyed markets, supermarkets, food production sites (including bakeries), agricultural land and water infrastructure.



Box 7 – Explosive remnants of war and food insecurity in Syria

The fall of the Assad regime at the close of 2024 presents significant opportunities and challenges for the rebuilding of Syria. The potential of many of these opportunities, such as the return of refugees and IDPs to their homes, the restoration of food security and livelihoods, and economic recovery, is severely stunted by the widespread contamination of the country by landmines and explosive remnants of war.

Since 2011, tens of thousands of tons of munitions were used to bomb cities and towns, including cluster munitions, as well as heavy contamination with landmines. Explosive hazard contamination is present across all of Syria, particularly in the north of Syria along former frontlines, in Hama, Aleppo, Idlib, Latakia and Deir Ezzor. Nearly half of Syria's population lives in these affected regions, and they have the highest levels of displacement in the country. The Mine Action Area of Responsibility of the UN's Global Protection Cluster estimates that 15.4 million Syrians are at immediate risk of death and injury from explosive remnants of war. This contamination also undermines community resilience and threatens food security, as many farmers are unable to use their war-polluted lands. The full level of contamination across Syria is unknown due to insufficient funding and lack of coordination for a nationwide survey.

The International NGO Safety Organisation (INSO) reported 85 incidents involving detonations of explosive remnants of war in 2024 in northwest Syria alone. The White Helmets reported that 24 people were killed by incidents involving explosive remnants of war and landmines in northwest Syria throughout 2024, and 54 were injured. According to White Helmets' data, nearly fifty percent of those injured during this period were children.

The end of 2023 and through 2024 saw a rise in attacks on populations in northwest Syria by the Syrian regime and Russian armed forces that had not been seen since 2020. This left large amounts of unexploded munitions in agricultural areas, including in previously cleared regions. The military escalation posed a serious threat to the lives of farmers, affecting their ability to feed their families and work the land.

Youssef Reda Khamees, a farmer from rural Idlib, faces constant fear when working on his land due to unexploded ordnance left by intense bombing at the end of 2023. His family relies on farming as their main income source, but Youssef was forced to abandon parts of his land, leaving his olive crop unharvested.

'The land and olive trees are our only livelihood. After the heavy shelling, this land has become a source of fear. Last winter and spring, we couldn't water or tend to the trees. Our economic situation is getting worse. Last year, I couldn't afford my children's school supplies because securing food became our priority."

Youssel's experience is one of thousands of farmers trying to secure their livelihoods. Alarmingly, the frequency of incidents related to unexploded ordnance has risen steeply after the fall of the Assad regime on 8 December 2024. At the end of 2024, military bases were left unguarded and open, with stockpiles of missiles, chemical agents and other remnants of war within the reach of the general public. Previous frontlines also became newly accessible, riddled with mines and other remnants of war.

The White Helmets responded to 20 landmine explosions in December 2024 which led to the deaths of 18 civilians. This represents 75 percent of all fatalities reported by the civil defence organisation for 2024. This upward trend is confirmed by reports from INSO, which reported 93 incidents between 8 December 2024 and 30 January 2025, resulting in 77 deaths and 112 injuries.

The sudden rise in incidents was in part due to attempts by civilian farmers to return to agricultural lands that were previously inaccessible due to the existence of military positions or ongoing hostilities. Indeed, INSO reported that 71 percent of incidents after the fall of the regime happened in farmlands near previous frontlines.

Another reason for the increased numbers of incidents is the flux of return of IDPs from camps in northwest Syria to their villages and towns across Syria. These unprepared returns have increased the incidents of death and injuries from explosive remnants of war exponentially.

Despite the severe risks posed by explosive remnants of war, current clearance and destruction efforts are underfunded, uncoordinated and under-resourced. As of yet, there is no national coordination body tasked with dealing with these deadly legacies of war, and precise data on contamination levels is limited.

In addition to the immediate risk to lives and livelihoods and safe return, explosive remnants of war also present long-term risks to the environment and human health. Unexploded bombs contain toxic substances such as arsenic, octogen and chromium, which can leak and persist in the soil and water depending on the conditions and the environment. More research is needed in Syria to determine the health and environmental issues related to exposure to toxics as a result of military activities.

These hazards are likely to persist for years. Continued support for ordnance disposal efforts in Syria is essential to ensure residents can live in peace and safety, free from these dangers.



USE OF. **EXPLOSIVE** WEAPONS BY STATE ARMED FORCES AND **NON-STATE ARMED ACTORS**

1. Methodology Note

The Explosive Weapons Monitor reports on harm to civilians from incidents in which the use of explosive weapons caused civilian deaths and injuries, as reported by Action on Armed Violence (AOAV) and the Armed Conflict Location & Event Data Project (ACLED), as well as damage and destruction of civilian infrastructure in incidents that affected civilian access to healthcare, education, humanitarian aid and food security, as reported by Insecurity Insight. For full methodologies, see Annex 1.

Identification of responsible state armed forces and non-state armed actors, and all additional information provided in this chapter, is from these three organisations unless otherwise indicated. The Explosive Weapons Monitor cannot determine with certainty which actors are responsible for the use of explosive weapons in specific incidents, as much of the recorded data are unverified. Each organisation has similar but varied methodologies for the attribution of incidents to particular state and non-state actors.42 In all cases, non-state armed actors, referenced below, include all non-state actors that reportedly perpetrated explosive violence and are not limited to non-state armed groups. This includes criminal organisations and individually perpetrated use of explosive weapons.

Numbers of incidents are meant to be indicative of contexts and patterns of use, as the complexity of the information environment does not allow for the determination of a precise number of incidents that can be attributed to use by each actor. To identify these contexts and patterns, the Explosive Weapons Monitor developed ranges of numbers of incidents, as below:

Numbers of incidents in which explosive weapons use reportedly caused harm to civilians	1-9	
	10 - 99	
	100 - 199	
	200 - 499	
	500 - 999	
	1,000 +	

For full methodologies on attribution of responsibility to state and non-state actors by each organization, see AOAV (2021). "Methodology". Available at: https://aoav.org.uk/explosiveviolence/methodology/; ACLED (2024). 'ACLED Codebook'. Available at: https://acleddata.com/knowledge-base/codebook/; and Insecurity Insight (2022). 'Definitions and Methodologies'. Available at: https://insecurityinsight.org/methodologyand-definitions.

2. Use of Explosive Weapons by State Armed Forces that Reportedly Caused Harm to Civilians in 2024

The table below identifies the use of explosive weapons by the armed forces of 28 states that reportedly caused harm to civilians in 30 countries and territories in 2024.

The use of explosive weapons by armed forces of five states that have endorsed the Political Declaration reportedly caused harm to civilians in 2024:

• Jordan, Somalia, Togo, Türkiye and the United States

Armed forces of these five states reportedly caused harm to civilians in five countries and territories:

• Burkina Faso, Iran, Iraq, Somalia and Syria

There were four contexts of use in which state armed forces reportedly caused harm to civilians from the use of explosive weapons in more than 1,000 incidents. This includes explosive weapons use by:

- Israeli armed forces in Palestine
- Israeli armed forces in Lebanon
- Russian armed forces in Ukraine
- Myanmar armed forces in Myanmar

Additionally, the armed forces of six states were reportedly responsible for harm to civilians in more than 100 incidents in 2024:

• Israel, Myanmar, Russia, Sudan, Syria and Ukraine

Armed forces from 11 states were reportedly responsible for civilian harm from the use of explosive weapons in multiple countries and territories:

• Democratic Republic of Congo, Iran, Israel, Myanmar, Pakistan, Russia, Sudan, Syria, Türkiye, Ukraine and the United States

Figure 21 – Use of explosive weapons that caused harm to civilians by state armed forces in 2024
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State armed forces	Countries in which explosive weapons were reportedly used	Incident range	Weapons categories	Source(s)
Armenia	Azerbaijan	1 - 9 1	Ground-launched Air-launched Air-	ACLED, AOAV ACLED ACLED
Burkina Faso	Burkina Faso	- 9 1 -	launched Ground-launched Air-	ACLED Insecurity Insight ACLED,
Cameroon	Cameroon	91-9	launched, ground-launched Air-	AOAV, Insecurity Insight ACLED,
Democratic Republic of Congo	Congo	1 - 9	launched, ground-launched	AOAV
	Democratic Republic of Congo	10 - 99	Ground-launched, directly-	
Ethiopia	Ethiopia	1-9	emplaced	_
India	India			

State armed forces	Countries in which explosive weapons were reportedly used	Incident range	Weapons categories	Source(s)
Iran	Iran Iraq Israel Jordan Pakistan	1-91-	Directly-emplaced Air-launched	AOAV ACLED, AOAV ACLED AOAV
	Palestine Syria Iraq Egypt Iran	91-91	Ground-launched Air-launched	AOAV ACLED, AOAV ACLED,
	Lebanon	- 91-9	Air-launched Air-launched,	Insecurity Insight AOAV ACLED
		1-91-	ground-launched Ground-	ACLED ACLED, AOAV, Insecurity
		91-91	launched Directly-emplaced Air-	Insight
		- 91-9	launched Directly-emplaced Air-	
		1,000 +	launched, ground-launched, directly-emplaced	
Iraq			Air-launched, ground-launched	
Israel			Air-launched, ground-launched	
			Air-launched	
			Air-launched, ground-launched	
	Palestine	1,000 +	Air-launched, ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
	Syria	10 - 99	Air-launched	ACLED, AOAV, Insecurity Insight
	Yemen	10 - 99	Ground-launched	ACLED, AOAV ACLED, AOAV
Jordan	Syria	1 - 9 10	Ground-launched	ACLED, AOAV, Insecurity Insight
Mali	Mali	- 99	Air-launched, ground-launched, directly-emplaced	
Mozambique	Mozambique	1-91-	Air-launched	ACLED ACLED ACLED,
Myanmar	Bangladesh	91-9	Air-launched	AOAV, Insecurity Insight
	China	1,000 +	Air-launched, ground-launched	
	Myanmar		Air-launched	
			Air-launched, ground-launched	
Niger	Niger	1 - 9 1		ACLED, Insecurity Insight
Nigeria	Nigeria	- 9 1 -		ACLED, AOAV ACLED,
Pakistan	Afghanistan	91-9		AOAV ACLED, AOAV
	Iran	10 - 99		ACLED, AOAV
	Pakistan			

3. Countries and Territories Where the Use of Explosive Weapons by Non-State Armed Forces Reportedly Caused Harm to Civilians in 2024

The table below identifies the 65 countries and territories in which non-state armed actors. reportedly used explosive weapons that caused harm to civilians in 2024.

Seven countries were affected by explosive weapons use by non-state armed actors that reportedly caused harm to civilians in more than 100 incidents:

• Sudan, Syria, Irael, Myanmar, Pakistan, Somalia and Yemen

Though the numbers of countries and territories reportedly affected by explosive weapons use by non-state armed actors is greater than those affected by use by state actors, the numbers of incidents are fewer and the intensity of use lower.

Figure 22 – Use of explosive weapons that caused harm to civilians by state armed forces in 2024

Countries in which explosive weapons were reportedly used by non-state armed actors	Incident range	Weapons categories	Source(s)
Sudan	200 - 499	Air-launched, ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
Syria	200 - 499	Air-launched, ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
Israel	100 - 199	Air-launched, ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
Myanmar	100 - 199	Air-launched, ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
Pakistan	100 - 199	Air-launched, ground-launched, directly-emplaced Air-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
Somalia	100 - 199	Air-launched, ground-launched,	ACLED, AOAV, Insecurity Insight
Yemen	100 - 199	directly-emplaced Ground-launched, directly-emplaced	ACLED, Insecurity Insight
Afghanistan	10 - 99	Ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
Burkina Faso	10 - 99	Directly-emplaced, ground-launched	ACLED, Insecurity Insight ACLED,
Cameroon	10 - 99	Air-launched, ground-launched	AOAV, Insecurity Insight ACLED,
Colombia	10 - 99	directly-emplaced Air-launched, ground-launched,	AOAV, Insecurity Insight
Democratic Republic of Congo	10 - 99	directly-emplaced Ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
Ethiopia	10 - 99		ACLED, AOAV, Insecurity Insight

Countries in which explosive weapons were reportedly used by non-state armed actors	Incident range	Weapons categories	Source(s)
India	10 - 99	Air-launched, ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
lraq	10 - 99	Air-launched, ground-launched, directly-emplaced	ACLED
Mali	10 - 99	Ground-launched, directly-emplaced	ACLED, Insecurity Insight
Mexico	10 - 99	Air-launched, ground-launched, directly-emplaced	ACLED, AOAV
Niger	10 - 99	Air-launched, directly-emplaced	ACLED, Insecurity Insight
Nigeria	10 - 99	Air-launched, ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
Palestine	10 - 99	Air-launched, ground-launched, directly-emplaced	ACLED, AOAV, Insecurity Insight
Turkey	10 - 99	Ground-launched, directly-emplaced	ACLED, AOAV ACLED, AOAV,
Ukraine	10 - 99	Ground-launched, directly-emplaced	Insecurity Insight ACLED ACLED,
Albania	1 - 9 1	Directly-emplaced	AOAV ACLED, AOAV, Insecurity
Argentina	- 9 1 -	Directly-emplaced	Insight ACLED ACLED ACLED
Bangladesh	91-9	Directly-emplaced	ACLED, AOAV ACLED ACLED
Benin	1 - 9 1	Directly-emplaced	ACLED ACLED ACLED
Bosnia and Herzegovina	- 9 1 -	Ground-launched	ACLED ACLED ACLED,
Brazil	91-9	Directly-emplaced	Insecurity Insight ACLED
Burundi	1 - 9 1	Ground-launched, directly-emplaced	
Central African Republic	- 9 1 -	Ground-launched, directly-emplaced	
Chad	91-9	Ground-launched	
Cyprus	1 - 9 1	Directly-emplaced	
Denmark	- 9 1 -	Directly-emplaced	
Ecuador	91-9	Directly-emplaced	
Germany	1 - 9 1	Directly-emplaced	
Ghana	- 9	Ground-launched Ground-launched	
Greece		Ground-launched, directly-emplaced	
Guatemala		Ground-launched	
Haiti		Air-launched, directly-emplaced	
Indonesia		Ground-launched	

Countries in which explosive weapons were reportedly used by non-state armed actors	Incident range	Weapons categories	Source(s)
Iran	1 - 9	Directly-emplaced	ACLED, AOAV, Insecurity Insight
Ireland	1 - 9	Directly-emplaced	AOAV ACLED, AOAV ACLED, AOAV
Italy	1 - 9	Directly-emplaced	ACLED, AOAV ACLED, AOAV
Kenya	1 - 9	Ground-launched, directly-emplaced	ACLED ACLED ACLED AOAV
Kosovo	1 - 9	Ground-launched, directly-emplaced	ACLED ACLED ACLED,
Lebanon	1 - 9	Ground-launched	AOAV ACLED ACLED, AOAV
Libya	1 - 9	Ground-launched, directly-emplaced	ACLED, AOAV
Madagascar	1 - 9	Ground-launched	
Mauritania	1 - 9	Ground-launched, directly-emplaced	
Montenegro	1 - 9	Directly-emplaced	
Moro cco	1 - 9	Ground-launched	
Mozambique	1 - 9	Directly-emplaced	
Namibia	1 - 9	Ground-launched	
Nepal	1-9	Directly-emplaced	
Peru	1-9	Ground-launched	
Philippines	1-9		
Russia	' '	Ground-launched, directly-emplaced	
	1-9	Air-launched, ground-launched, directly-emplaced Directly-emplaced	
South Africa	1 - 9	Directly-emplaced	AOAV ACLED
Sri Lanka	1 - 9	Ground-launched, directly-emplaced	ACLED, AOAV
Thailand	1 - 9	Ground-launched, directly-emplaced	ACLED ACLED
Togo	1 - 9	Directly-emplaced	ACLED AOAV
Uganda	1 - 9	Directly-emplaced	ACLED
United Kingdom	1 - 9	Directly-emplaced	
United States	1 - 9		
Venezuela	1 - 9	Ground-launched	

CONCLUSION

In 2024, civilians experienced staggering levels of harm from the use of explosive weapons. As civilian deaths caused by the use of explosive weapons remained alarmingly high in Palestine, they increased elsewhere across the globe in 2024. More civilians were impacted by impeded access to healthcare, education and humanitarian aid across contexts such as the Democratic Republic of Congo, Ethiopia, Lebanon, Mali, Myanmar, Nigeria, Palestine, Sudan, Syria, Ukraine and Yemen than in 2023.

Each year, the use of explosive weapons in populated areas kills and injures tens of thousands of civilians. It destroys civilian infrastructure, such as hospitals, schools and power and water systems, which impacts the provision of essential services and leads to long-term civilian suffering far beyond direct attacks. When the bombing stops, communities are tasked with rebuilding homes, hospitals, schools and other infrastructure, often while facing long-lasting injuries, psychosocial trauma, food insecurity, and impeded economic development.

EACH YEAR, THE USE OF EXPLOSIVE WEAPONS IN POPULATED AREAS KILLS AND INJURES TENS OF THOUSANDS OF CIVILIANS. IT DESTROYS CIVILIAN INFRASTRUCTURE, SUCH AS HOSPITALS, SCHOOLS AND POWER AND WATER SYSTEMS, WHICH IMPACTS THE PROVISION OF ESSENTIAL SERVICES AND LEADS TO LONG-TERM CIVILIAN SUFFERING FAR BEYOND DIRECT ATTACKS. WHEN THE BOMBING STOPS, COMMUNITIES ARE TASKED WITH REBUILDING HOMES, HOSPITALS, SCHOOLS AND OTHER INFRASTRUCTURE, OFTEN WHILE FACING LONG-LASTING INJURIES, PSYCHOSOCIAL TRAUMA, FOOD INSECURITY, AND IMPEDED ECONOMIC DEVELOPMENT.

The 2022 Political Declaration on Strengthening the Protection of Civilians from the Humanitarian Consequences Arising from the Use of Explosive Weapons in Populated Areas 43 is an international political commitment developed to address these humanitarian consequences and to strengthen the protection of civilians in armed conflict. It is the first formal international recognition that the use of explosive weapons in populated areas has severe humanitarian consequences that must be addressed by states, and it serves as a framework for action through its commitments.

It remains a critical humanitarian priority to bring the Political Declaration into greater effect to prevent and reduce harm to civilians by placing limits on the use of explosive weapons in populated areas and by facilitating assistance to conflict-affected communities. The Declaration is a practical tool that, to reach its potential and be effective in its goal to reduce harm and strengthen the protection of civilians, relies upon effective national-level implementation of the commitments by endorser states.

Policy review, development and adoption across all areas of the Declaration – including, most critically, military policies aimed at changing current practice – is crucial. Universalisation of the Declaration is also necessary to promote the norms and standards under the Declaration in order to promote adherence by the highest possible number of states.

RECOMMEND-ATIONS

To address and mitigate harm to civilians from the use of explosive weapons in populated areas and to promote universalisation and implementation of the Political Declaration, the Explosive Weapons Monitor recommends that states:

- Publicly acknowledge and call for action to address the harm to civilians and
 communities resulting from the use of explosive weapons in populated areas. This use
 remains widespread and has severe and devastating consequences on civilians and across the
 world to an alarming degree. All stakeholders should commit to promoting the principles
 and norms of the Political Declaration and call for states to avoid the use of explosive
 weapons in populated areas, particularly those with wide area effects.
- Endorse the Declaration and encourage endorsement by other states in order to ensure its adoption and implementation by the greatest number of states. Various opportunities exist and should be taken by states to promote and call for endorsement and implementation of the Declaration by other states, including in the context of statements made at key diplomatic meetings throughout the year, regional and bilateral meetings with non-endorser states, partnerships with civil society, and military cooperation, partnerships and security assistance programmes involving the armed forces of non-endorser states.
- Review, revise or develop new national policy and practice. States and their armed forces should not assume that their existing policies and practices are sufficient to implement the Declaration and should review, revise, or develop new policy and practice which establishes clear limits on the use of explosive weapons in populated areas in order to avoid civilian harm. Such policies should include a process for determining when it is appropriate to either restrict or refrain from such use.
- Promote, support and utilise the diversity of stakeholders engaged in work around
 the Declaration. Working in a partnership of states, armed forces, civil society and other
 international organisations engages a diversity of approaches that is beneficial to improving
 understandings and developing responses that will reduce harm to civilians whether in
 the military or the humanitarian space. This approach can also help to foster a culture of
 collaboration and mutual support, including sharing of good policies and practices, reviewing
 and continuously working to strengthen the protection of civilians.

The Explosive Weapons Monitor aims to continue efforts to document harm to civilians from the use of explosive weapons through data collection, research and analysis. In doing so, it looks forward to working with all stakeholders to strengthen the protection of civilians and support universalisation and implementation of the Declaration's commitments.

ANNEXES -**METHODOLOGY**

ANNEX 1 – Harm to Civilians from the Use of Explosive Weapons

The Explosive Weapons Monitor is a civil society initiative that conducts research and analysis on harms from and practices of explosive weapons use in populated areas for the International Network on Explosive Weapons (INEW). It works with partner organisations to collect and publish data on incidents of explosive weapons use around the world as reported in open sources, including data from Action on Armed Violence (incidents of explosive weapons use and casualties, including deaths and injuries), Insecurity Insight (incidents of explosive weapons use affecting aid access, education, healthcare and food security), and the Armed Conflict Location & Event Data Project on incidents of explosive weapons use and casualties, including deaths and injuries.

Action on Armed Violence

Action on Armed Violence (AOAV) has been recording data on incidents of explosive weapons use that cause casualties since October 2010. Data on casualties caused by the use of explosive weapons is gathered by AOAV from English-language media reports and a specific selection of organisations that report on incidents of explosive weapons use in key conflict areas. Additional sources are included in an effort to identify incident-specific data of explosive weapons use in conflicts that are underreported in English-language media. These include incident reports from the Iraq Security and Humanitarian Monitor (ISHM) for Iraq, and the Syrian Observatory of Human Rights (SOHR) for Syria. Additionally, AOAV supplements its data with incident reports on airstrikes from Airwars.

AOAV codes for launch method, which includes explosive weapons that are air- and groundlaunched, as well as types of landmines and IEDs that, collectively, are categorised by the Explosive Weapons Monitor as directly-emplaced weapons. AOAV also identifies the specific types of explosive weapons used in recorded incidents, including airstrikes, air-dropped bombs, antipersonnel mines, anti-vehicle mines, artillery shells, car bombs, grenades, landmines, missiles, mortars, non-specific IEDs, roadside bombs, rockets, rocket-propelled grenades, tank shells, and combinations of explosive weapons. AOAV also codes for the status of casualties (civilian or armed actor) as well as their circumstances (killed or injured), the status of the perpetrators (state or non-state), and the age and gender of civilians harmed, where reported. AOAV codes for events reported to have occurred in populated versus unpopulated areas, as well as location types, for example 'urban residential areas', 'schools', 'humanitarian infrastructure', etc.

AOAV does not attempt to comprehensively capture all incidents of explosive weapons use around the world but to serve as an indicator of the scale and pattern of deaths and injuries. As such, no claims are made that this data captures every incident or casualty of explosive weapons use. This methodology is subject to a number of limitations and biases, many relating to the nature of the source material on which it is dependent and the lack of a mechanism to follow up reports with in-depth investigation. It is recognised that there are different levels of reporting across regions and countries, and under-reporting is likely in some contexts. In addition, only English-language media reports are used, which does not provide a comprehensive picture of explosive weapons use around the world.

For more information about AOAV's methodologies, please see https://aoav.org.uk/.

Insecurity Insight

Insecurity Insight has been documenting a wide range of violence affecting the aid sector since 2008. Datasets on violence against healthcare and education go back to 2016 and 2017, respectively. For the Explosive Weapons Monitor, Insecurity Insight contributes information on global incidents of explosive weapons use affecting aid access, education or healthcare services. Information is compiled from Arabic, Burmese, English, French and Spanish media reports. The following elements are recorded: the date and location of the reported incident, weapon type, reported user and target, detonation method and whether the incident affected aid, education or health by specifying whether health facilities, schools or project sites were damaged or destroyed and/or whether medical, teaching or aid staff were injured or killed.

Data also includes some incidents where the explosive weapon device did not detonate and when there were no civilian casualties, but when the presence of explosive weapons affected access to health, education or food aid, usually because areas are cordoned off and access to services is interrupted. This includes incidents where historical items such as unexploded ordnance were found, and which affected the provision of these services.

Reported incidents are neither complete nor a representative list of all incidents and are subject to the limitations inherent in the data sources. In some countries, the media frequently reports a wide range of incidents, while in others, hardly any incidents are reported by media outlets. In some countries, there are active networks of organisations that report information, while in others, no such networks exist. In some areas, important and trusted interest groups have an active social media presence, while in other contexts, social media is deliberately used to promote false information. The content of other data collection processes that are made available via databases is also influenced by the nature of public discourse and the networks the data collector maintains. In some cases, incidents can overlap and impact more than one sector (for example, both 'aid access' and 'education'). This occurs when the health or education service is delivered by a humanitarian or development aid agency. Most incidents have not been independently verified and have not undergone verification by Insecurity Insight.

For more information about Insecurity Insight's methodologies, please see https://insecurityinsight.org/.

Armed Conflict Location & Event Data Project

ACLED collects reported information on the type, agents, location, date, and other characteristics of political violence events, demonstration events, and other select non-violent, politically relevant developments in every country and territory in the world. ACLED focuses on tracking a range of violent and non-violent actions by or affecting political agents, including governments, rebels, militias, identity groups, political parties, external forces, rioters, protesters, and civilians.

All data was downloaded from ACLED and incorporated into the analysis presented in this report from 16 March 2024 for calendar 2023 (as used in the Explosive Weapons Monitor 2023) and 4 April 2025 for calendar year 2024. For this report, the Explosive Weapons Monitor accessed all ACLED data relevant to Explosions/Remote violence events recorded for calendar years 2022 and 2023. This included only subevents in which the incidents were coded to the following: air/drone strike, suicide bomb, shelling/artillery/missile attack, remote explosive/landmine/IED, and grenades. All subevents, in the case of analysis involving the use of weapon types, were categorised in line with the Explosive Weapons Monitor definitions of air-launched, ground-launched and directly-emplaced explosive weapons (these definitions are provided below). Incidents involving unexploded ordnance identified (UXO) were removed when analysing the use of explosive weapons by state and non-state actors.

The Explosive Weapons Monitor identified incidents in which fatalities and injuries involving civilians were recorded were primarily determined through filters and analysis of the field 'actor2,' filtering of events in which civilians were the main or only target of an event in the field 'civilian_targeting', and analysis of 'notes'. Incidents indicating the use of explosive weapons by states were primarily determined through filters and analysis of the field 'actor1,' and analysis of 'notes'.

For more information about ACLED's methodologies, please see https://acleddata.com/knowledge-base/codebook/ and https://acleddata.com/knowledge-base/fags-acled-sourcing-methodology/.

ANNEX 2 — Use of Explosive Weapons by State and Non-State Actors

The Explosive Weapons Monitor reports on harm to civilians from incidents in which the use of explosive weapons caused civilian deaths and injuries, as reported by Action on Armed Violence (AOAV) and the Armed Conflict Location & Event Data Project (ACLED), as well as incidents that affected civilian access to healthcare, education, and humanitarian aid, as reported by Insecurity Insight. This section continues efforts by the Explosive Weapons Monitor to combine and synthesise multiple data sources to show a more nuanced picture of the frequency and severity of the use of explosive weapons around the globe.

Identification of responsible state armed forces and non-state armed actors and all additional information provided in this section is as recorded by these three organisations with the following exceptions:

- Country and territory names may have been adapted by the Explosive Weapons Monitor according to names designated by the UN Statistics Division.
- The Explosive Weapons Monitor excluded events recorded by ACLED that involved unexploded ordnance (UXO) associated with both state armed forces and non-state armed actors.
- When use of explosive weapons was attributed to coalition forces by AOAV or ACLED, the Explosive Weapons Monitor did not use these incidents to identify reported use of explosive weapons by individual state armed forces.
- ACLED records the use of explosive weapons by Houthi forces in Yemen as those of the armed forces of Yemen. For this report, the Explosive Weapons Monitor has instead designated the use of explosive weapons by Houthi forces to be that of non-state armed actors, in line with AOAV methodology and its ongoing reporting on civilian harm.

The Explosive Weapons Monitor cannot determine with total certainty which actors are responsible for the use of explosive weapons in specific incidents, as much of the recorded data are unverified. Each organisation has similar but varied methodologies for attribution of incidents to state and non-state actors.44 In all cases, non-state armed actors referenced below include all non-state actors that reportedly perpetrated explosive violence and are not limited to non-state armed groups.

For full methodologies on attribution of responsibility to state and non-state actors by each organization, see AOAV (2021). 'Methodology'. Available at: https://aoav.org.uk/explosiveviolence/methodology/; ACLED (2024). 'ACLED Codebook'. Available at: https://aoav.org.uk/explosiveviolence/methodology-and-definitions.

As above, the Explosive Weapons Monitor defines populated areas as "any concentration of civilians, be it permanent or temporary, such as in inhabited parts of cities, or inhabited towns or villages, or as in camps or columns of refugees or evacuees, or groups of nomads," synonymous with the term "concentration of civilians" which appears in existing international humanitarian law (IHL). The references to refugees, evacuees and nomads and the use of the term "inhabited" suggest that the presence of civilians and civilian objects – which need not be in great numbers – is a defining characteristic of populated areas.45 While the data presented here does not distinguish between the use of explosive weapons in populated and unpopulated areas, the indicators of harm – civilian casualties and civilian infrastructure and services – suggest that the majority of incidents recorded by each data source above likely occurred in populated areas.

Identifying ranges of incidents

Numbers of incidents are meant to be indicative of contexts and patterns of use as the complexity of the information environment does not allow for the determination of a precise number of incidents that can be attributed to use by each actor. To identify these contexts and patterns, the Explosive Weapons Monitor developed ranges of numbers of incidents, as below:

Ranges of numbers of incidents in which explosive weapons use reportedly caused harm to	1 - 9 10 - 99
civilian casualties	100 - 199
	200 - 499
	500 - 999
	1,000 +

To determine which range is relevant for each actor and/ or country in which explosive weapons use was reported, the Explosive Weapons Monitor first determined the numbers of incidents in which civilian deaths or injuries were recorded by AOAV and ACLED. When incidents recorded by both AOAV and ACLED were less than ten, the Explosive Weapons Monitor cross-checked the data sources to remove duplicate incidents and determined the total number of incidents of ported use ere greater than ten, the Explosive Weapons Monitor used the highest number of incidents recorded by either data source.

The Explosive Weapons Monitor then determined the numbers of incidents in which civilian access to healthcare, education and humanitarian aid were recorded by Insecurity Insight. To ensure incidents recorded by Insecurity Insight were not duplicates of incidents recorded by ACLED or AOAV, the Explosive Weapons Monitor disregarded incidents in which health, medical or aid workers were killed or injured and determined only the numbers of incidents in which health, education and aid infrastructure were damaged or destroyed. These numbers were then added to the relevant numbers of incidents in which casualties occurred in order to develop the figure used to determine the correct ranges, as above.

Identifying categories of explosive weapons

AOAV, ACLED and Insecurity Insight record the use of explosive weapons across a range of weapons categories that correspond with weapons categories used in the Explosive Weapons Monitor's analysis. These definitions include:

Ground-launched explosive weapons – Ground-launched explosive weapons are launched from any surface-level platform, including weapons thrown by a person or fired from warships or vehicles. These include artillery shells (projectiles fired from a gun, cannon, howitzer, or recoilless rifle), tank shells, ground-launched missiles, mortars, rockets (typically missiles which do not contain guidance systems), non-specific shelling, rocket-propelled grenades, and hand grenades.

Air-launched explosive weapons – Air-launched explosive weapons include any weapon fired or dropped from a rotary of fixed-wing aircraft, while also including unmanned aerial vehicles or drones. These include air-dropped bombs (bombs reported as being delivered by air), airstrikes (attacks from a helicopter, drone, or plane), and missiles or rockets launched from an aircraft, while also including attacks by drones that themselves contain an explosive charge, as in the case of loitering munitions.

Directly-emplaced explosive weapons – Directly-emplaced explosive weapons encompass weapons that are physically placed in the location at which they detonate. These include anti-personnel mines, anti-vehicle mines, landmines, non-specific IEDs (including so-called 'suicide vests'), car bombs and roadside hombs



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