Unplanned explosions at munitions sites (UEMS) remain a global and multi-faceted problem. UEMS are accidental explosions of abandoned, damaged, improperly or properly stored stockpiles of ammunition and explosives at munitions sites (Berman and Reina, 2014, p. 3).

For this update of the UEMS database, the Survey explored the gendered impacts of UEMS incidents, as part of the Gender Lens for Arms Control Support and Sustainability (GLASS) project.1 The gendered consequences of UEMS incidents are not the focus of public reporting on these episodes, nor are there explicit guidelines for gender-sensitive policies on preventing or responding to UEMS (see Box 1). Yet, implicitly, existing good practice and guidelines already contain measures that can help to decrease the impacts of UEMS incidents on people of all genders.

### The October 2019 update of the UEMS database

From January 1979 until August 2019, almost 30,000 people across 101 countries worldwide, both military and civilians, lost their lives or were injured as a result of UEMS.2 The 606 incidents around the world have not only caused massive fatalities and heavily impacted states’ stockpiles and infrastructure, but have also resulted in long-lasting socio-economic consequences for the communities affected by the incidents.

Almost three quarters of recorded UEMS (644—73 per cent) took place in state-owned stockpiles. Overall, 113 incidents have occurred under the control of non-state actors (19 per cent), of which 67 involved armed groups, 40 happened at commercial premises, and six took place in private holdings. The remaining 49 cases (8 per cent) took place at unknown holdings. Annual incident numbers had been decreasing since the spike in 2011 (with a record 38 UEMS incidents), but have started to decrease since the course of a general overhaul of LCMA in BiH.3

### Figure 1 Annual UEMS incidents, January 1979—August 2019

![Graph showing annual UEMS incidents, January 1979—August 2019](Source: Small Arms Survey (n.d.a))
increase again since 2017 (Figure 3). The Survey has identified 14 incidents for 2019, as of August 2019.

During the most recent update, 15 incidents were removed from the database, two because newly uncovered information on their causes meant they no longer qualified as UEMS, and 13 because of inconclusive sources.¹ On the other hand, 11 incidents were added, while 10 existing incidents were refined according to the most recently available information.

Causes and consequences of UEMS incidents cannot be assessed solely with quantitative data. Often, there are different factors that lead to an unplanned explosion: underlying structural conditions, which the Survey calls root causes, and triggering factors that directly lead to the incident, known as primary causes (Berman and Reina, 2014, p. 52). Similarly, the consequences can go beyond easily quantifiable damage again calling for qualitative assessment. Alongside its continuous review of the UEMS database, the Survey has therefore introduced (whenever possible) a qualitative summary of the context of each incident. This also enables the recording and analysis of gendered impacts of UEMS incidents. The examples in Box 2 are mostly UEMS incidents that occurred in urban or heavily populated areas. The link between UEMS and their locations is another area of research that might provide helpful insights for mitigating the deadly consequences of unplanned explosions.

### Notes

1. For further information on the Survey’s work on gender, see Small Arms Survey (n.d.c).
2. This update of the Survey’s UEMS database includes UEMS incidents up to 31 August 2019. For all statistics, see Small Arms Survey (n.d.b).
3. For more information on LCMA in BiH, see Carapic and Holtom (2018).
4. A summary list of the deleted cases is available on our website.

### References


### About the Small Arms Survey

The Small Arms Survey is a global centre of excellence whose mandate is to generate impartial, evidence-based, and policy-relevant knowledge on all aspects of small arms and armed violence. It is the principal international source of expertise, information, and analysis on small arms and armed violence issues, and acts as a resource for governments, policymakers, researchers, and civil society. It is located in Geneva, Switzerland, and is a project of the Graduate Institute of International and Development Studies.

The Survey has an international staff with expertise in security studies, political science, law, economics, development studies, sociology, and criminology, and collaborates with a network of researchers, partner institutions, non-governmental organizations, and governments in more than 50 countries.

For more information, please visit: www.smallarmssurvey.org.

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### Credits

Authors: Remo Gassmann and Marco Baccini

Contributors: Paul Holtom, Mia Schöb, Emilia Dungel, Olivia Denonville, and Lionel Kosimik

Copy-editing: Fiona O’Brien

Design and layout: Rick Jones (rick@studioexile.com)

### Contact details

Small Arms Survey
Maison de la Paix
Chemin Eugène-Rigot 2E
1202 Geneva
Switzerland

+41 22 908 5777
+41 22 732 2738
info@smallarmssurvey.org

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