

North Korean Small Arms and Light Weapons RECOGNITION GUIDE

Matt Schroeder



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A publication of the Small Arms Survey's Strengthening Implementation and Enforcement of the Arms Embargo on North Korea (SAENK) project, with support from the Netherlands Ministry of Foreign Affairs.



Contents

Pages 5–7

Purpose 6
Structure 7

Weapons identification

Smuggling

Pages 8-45

Pages 46-58

Notes	9
Warning	10
Markings, crates and documentation	11
Markings	12
Crates	16
Documentation	17
Small arms	18
Light weapons	34
Conclusion	44

Modes of transport	47
Concealment methods	49
Smuggling techniques	53
Circuitous routing and false paperwork	54
Front companies	55
Renaming and reflagging of vessels	56
Use of embassies and embassy personnel	57
Other smuggling techniques	58



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Introduction

Introduction

The purpose of this guide is to increase the capacity of UN investigators and government officials to detect and interdict illicit transfers of small arms and light weapons by the Democratic People's Republic of Korea (DPRK) and its affiliates by enabling key stakeholders to:

- recognize the various small arms, light weapons, and ammunition produced in North Korea;
- **differentiate** between North Korean-made small arms and light weapons and other makes and models; and
- **identify** signs of trafficking by the DPRK and its affiliates, including the use of previously documented concealment methods and smuggling techniques.

The guide consists of two sections. The first section provides detailed information about 14 different models of small arms and light weapons, along with their ammunition. The 37 slides in this section include data on—and imagery of—these items, including their designators, calibre, foreign equivalents, feeding devices, key physical characteristics, and markings.

The second section is a detailed overview of the mechanics of North Korean small arms trafficking. The section, which draws on data compiled by UN investigators, describes the modes of transport, concealment methods, and smuggling techniques used by the DPRK and its affiliates.



Not all North Korean weapons are documented in this guide. North Korea is among the least transparent states in the world and therefore imagery and data on most models of arms and ammunition is scarce.

Beware of counterfeit weapons and falsified markings. Some unlicensed arms manufacturers produce high-quality counterfeit firearms that are difficult to distinguish from the real thing. Similarly, arms and ammunition are sometimes re-marked, including by North Korea. Users of this guide should consult with experts regarding suspected North Korean weapons, whenever possible.

! WARNING

This information is for educational purposes only. All weapons and ammunition are potentially dangerous. We strongly encourage all unqualified persons to stay away from any weapon, ammunition, or explosive. However, if you encounter these items, take the following steps:

- 1. **ABANDON** the area;
- 2. **COLLECT** all information from a safe distance;
- 3. MARK the area to warn others;
- 4. **CONTACT** the appropriate authorities.



Markings, crates, and documentation

Small arms

National marks



5-point star (no circles)



5-point star (one circle)



5-point star (two circles)

Selector markings



Model designators



Sources:

Royal Canadian Mounted Police (RCMP): 'National marks', images 1 and 5 from left to right; 'Selector markings'; 'Model designators', top right and bottom images) **Royal Armouries National Firearms** Centre: 'National marks', images 2 and 3 from left to right; 'Model designators', top left image **United Nations Security Council** (UNSC): 'National marks', images 4 and 6 from left to right; 'Model designators', top middle image

Small arms ammunition





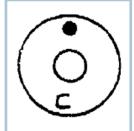
Factory code

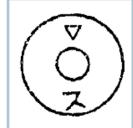
Production year

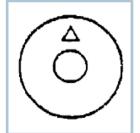
Casings for North Korean 7.62 × 39 mm cartridges found in the Democratic Republic of Congo (DRC)

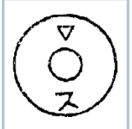














Various older (pre-1980) markings for North Korean cartridges

Source: United States Defense Intelligence Agency



Light weapons





Markings on the data plate of a MANPADS gripstock seized in 2009



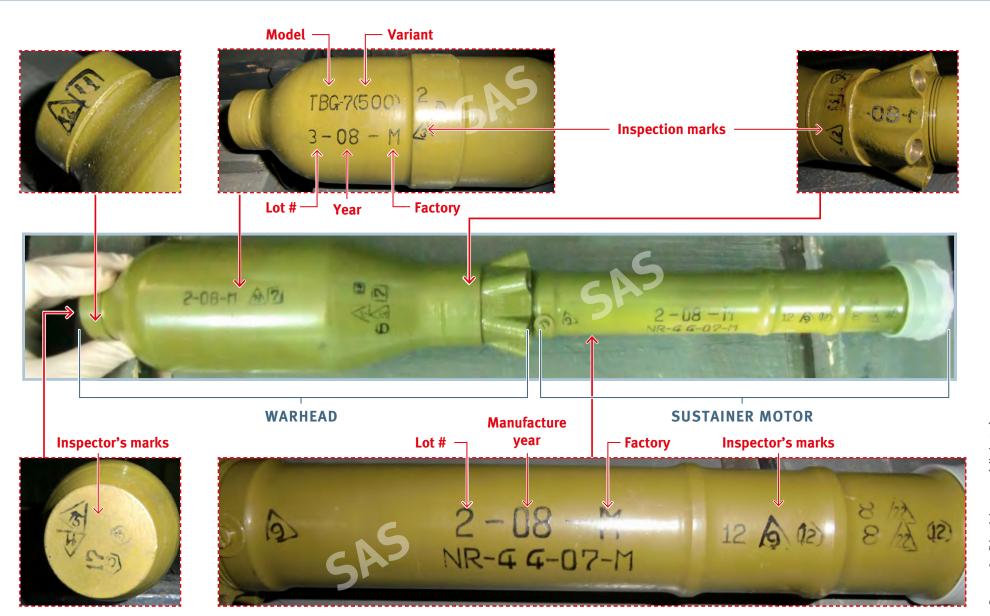
Trigger assembly of RPG-7 launcher acquired by an armed group in DRC



Trigger assembly of RPG-7 launcher seized in Thailand in 2009

Light weapons ammunition





Source: Confidential sources (all photos)









Documentation



			Warhead A	ssembly	Propelling		Propelling Expelling				
	Lot No	Number of rounds	Series-Year -Factory	Quan.	Series-Year -Factory	Quan.	SeriesYear -Factory	Quan.	Result of test	Remarks	
	3	3100	3-08-M	3600	3-08-M	3600	3-08-KI	3600	Passed		

	1	PACK	IIN	NG LIST		
		Box Size	:	66 × 40 × 27 cm		A
		Box №	:	2-667		
		Porduct Name	:	TBG-7		1
		Q'ty of Package	:	6 round		
		Lot No	:	2-08-M		
		Weight of Package	:	30 kg	_	
	Manufactured by Packer Date		Am 2008.10	SN	9	

Certificate
This is to certify that complex loaded in launching tube can fully meet the challenge of design drawing and technical regulation in its due tests and manufacturing.
Civilian QC
Military QC
Date; 200 9. 9.16

Source: Confidential sources (all photos)



Type 68 pistol





Туре	Self-loading pistol
Calibre	7.62 × 25 mm
Feed device	8 round magazine
Foreign equivalent	TT-33 (Type 68 is heavily modified)



Source: Royal Armouries National Firearms Centre (all photos)



Baek Du San



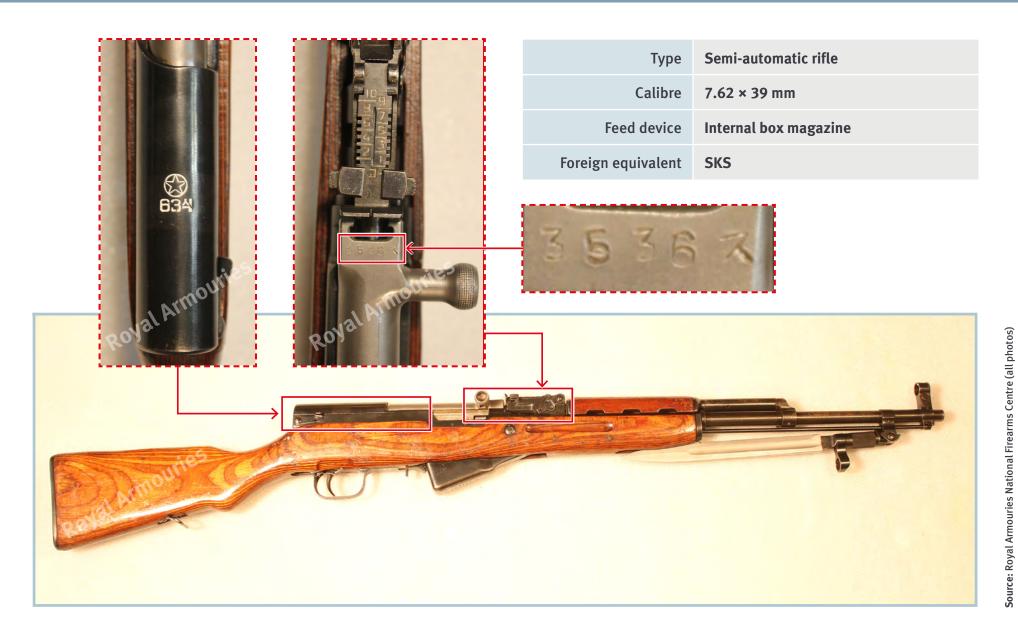
Туре	Self-loading pistol
Calibre	9 × 19 mm
Foreign equivalent	CZ-75





Type 63 rifle





Type 63 rifle (continued)

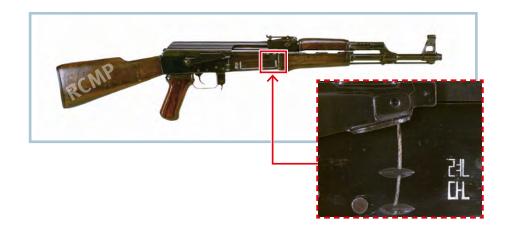






Type 58 rifle





Туре	Self-loading rifle
Calibre	7.62 × 39 mm
Feed device	Double-stack 30-round magazine
Foreign equivalent	AK-47 Type 3



Source: Royal Canadian Mounted Police (RCMP) (all photos)

Weapons identification

Small arms Type 68 rifle

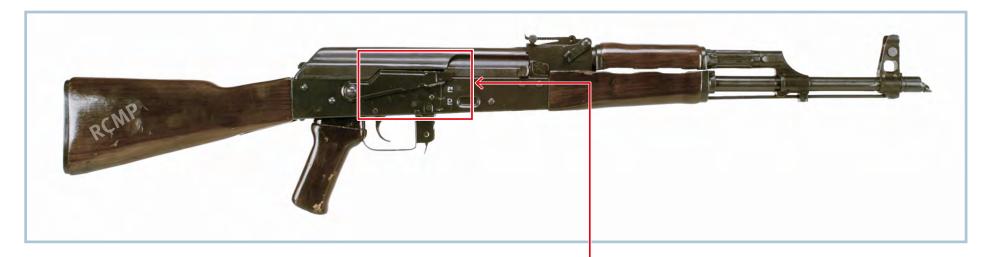


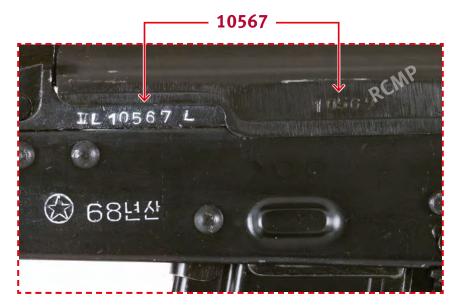
Туре	Self-loading rifle
Calibre	7.62 × 39 mm
Feed device	Double-stack 30-round magazine
Foreign equivalent	AKM
North Korean variants	Type 68-1 (folding stock), export variant



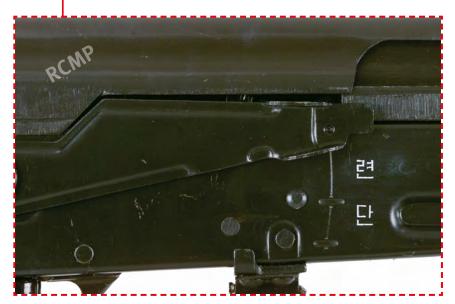
Type 68 rifle (continued)







Receiver markings (left side)



Selector position markings

Type 68 rifle (continued)

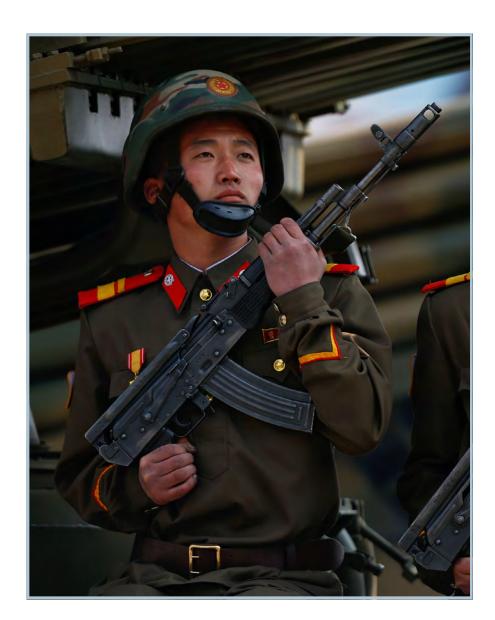




Source: David Lochhead (all photos)

Type 88 rifle





Туре	Self-loading rifle
Calibre	5.45 × 39 mm
Foreign equivalents	AK-74, AK-74M
North Korean variants	Type 88-1 (side-folding stock) Type 88-2 (top-folding stock)



Source: Reuters/Damir Sagolj (all photos)

Type 49 submachine gun



Туре	Submachine gun
Calibre	7.62 × 25 mm Tokarov
Feed device	Detachable drum and box magazine
Foreign equivalent	PPSh-41





Type 49 submachine gun (continued)









Source: Royal Canadian Mounted Police (RCMP) (all photos)

Type 62 machine gun





Туре	Light machine gun
Calibre	7.62 × 39 mm
Feed device	100-round belt fitted in metal drum
Foreign equivalent	Soviet RPD





Type 62 machine gun (continued)

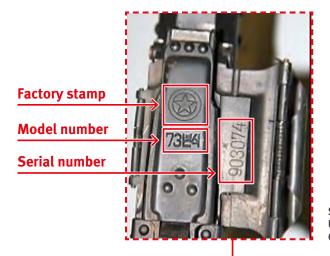




Source: Royal Canadian Mounted Police (RCMP) (all photos)

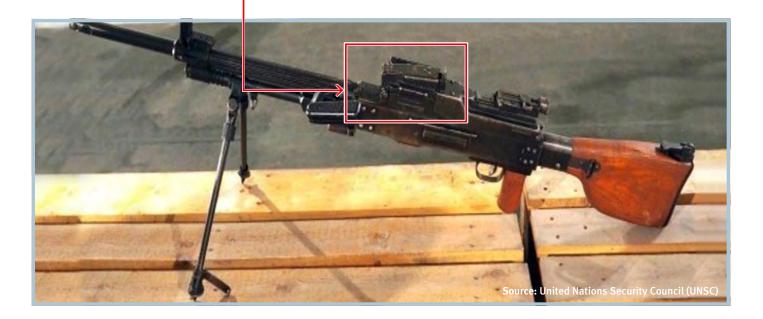


Type 73 machine gun



Туре	General purpose machine gun
Calibre	7.62 × 54R
Feed device	30-round magazine or belt
Foreign equivalent	Soviet PK/M

Source: United Nations Security Council (UNSC)





Magazine

Type 73 machine gun (continued)





Type 73 machine guns found on an unflagged fishing vessel, March 2016



Selector markings



Type 73 displayed by Iraqi militant, 2021



Houthi with a Type 73 in Yemen, circa 2016



Light weapons

Light weapons

RPG-7 pattern launchers





Туре	Anti-tank/anti-personnel grenade launcher
Model	Type 68
Foreign equivalents	Chinese Type 69-1, Russian RPG-7



Source: Confidential sources (all photos)

Light weapons

RPG-7 pattern launchers (continued)

TECHNIC	AL CERTIFICATE	
RPG-7/Launcher No. Sight No8		
Technical Characteristics		
No Itom II-	Standard Measured Value Value Ren	

Documentation found with the launchers



Markings on the trigger assembly



RPG-7 launcher found in a North Korean arms shipment to Iran, 2009

F-7 RPG round





Warhead	HE fragmentation
Calibre	40 mm



Gray F-7 warhead and sustainer motor





Markings on warhead

Stamps on sustainer motor



TBG-7 RPG round





Model	TBG-7 (5000M)	
	Rocket motor	NR-4
	Propellant	NBL-62
Warhead type	Thermobaric	
Calibre	40 mm	
Variants	TBG-7 (1000m)	



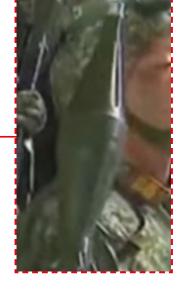
Weapons identification

Other RPG-7 pattern rounds













Bulsae ATGM

Туре	Anti-tank guided missile
Model	Bulsae-2
Foreign equivalent	Soviet 9K111 Fagot/AT-4







Type Anti-tank guided missile

Model Bulsae-2

Foreign equivalent Soviet 9K111 Fagot/AT-4

Sight/Tracker Source: Qypchak via Wikimedia Commons urce: Ashraf Amra/Zuma Press/Alamy Stock Photo

Processing unit

Soviet-designed 9K111 Fagot ATGM

North Korean Bulsae-2 ATGM

Weapons identification

Man-portable air defence systems





Strela-2 pattern



Igla/Igla-1 pattern



Igla-1 pattern



HT-16

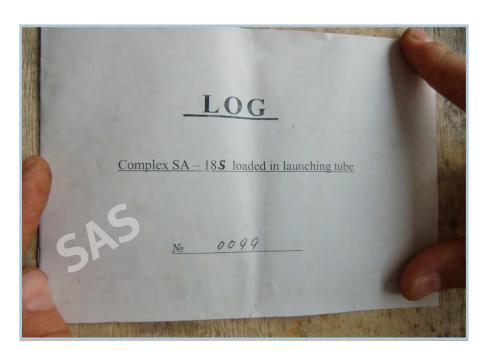
SA-18S





Туре	Man-portable air defence system		
Model	SA-18S		
	Gripstock	HB-16	
Foreign equivalent	Igla-1 (suspected)		

Launch tube markings









Source: Confidential sources (all photos)

Weapons identification



Conclusion

Weapons identification

- Some North Korean weapons are distinctive in appearance.
- Others, including recent models, are very similar to models produced in other countries.
- Markings are often the key distinguishing characteristic:
 - » if repainted and re-marked, it would be difficult to distinguish some of these weapons from their foreign counterparts.
- Key information is often available in shipping and storage documents, packaging, and markings on crates.
- Confirm IDs with subject matter experts.



Smuggling



Modes of transport





General cargo vessels



Cargo aircrafts



Fishing vessels

Passenger flights

Postal services



Concealment methods



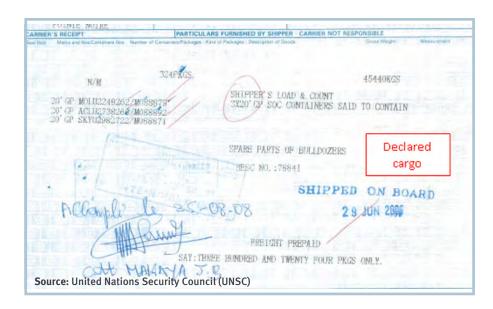
Concealment methods

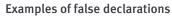
Falsified or obliterated markings



RPG-7 pattern round seized by Egypt, 2016

Concealment methods Mislabelling

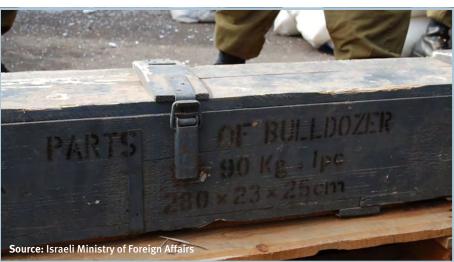




False declaration of the items	Actual items seized	Date of seizure	
Construction material	Ballistic missile-related items	October 2007	
Generator parts	Rocket fuses	March 2008	
Returning oil boring equipment	Rocket fuses, TBG, etc.	July 2009	
Spare parts of bulldozers	Spare parts for tanks	November 2009	
Mechanical parts	Conventional arms and munitions	December 2009	
Lead pipe	Graphite cylinders (ballistic missile-related items)	May 2012	
Generator	Military cargo	July 2013	

Source: UNSC (S/2014/147 of 7 February)







Concealment methods

Shipped with other commodities









Source: Reuters/Carlos Jasso (all photos)



Smuggling techniques





Circuitous routing and false paperwork

AIRCRAFT CHARTER AGREEMENT № 38/167-76

PARTIES

A. Currier: Company "SP TRADING LTD"

B. Charterer: Company "UNION TOP MANAGEMENT LTD"

It is hereby agreed that Carrier named above ("Company") acting in the name of Director Mr. Lu Zhang will charter and the Charterer acting in the name of Mr. Dario Cabreros named above ("Charterer") will take on charter the Aircraft (as defined below) for carry out flight or flights set out in the Schedule below on the terms and conditions contained, or referred to in this Agreement (as defined below).

THE SCHEDULE

1. Aircraft type: IL-76 Reg. 4L-AWA Flight: AWG731/732

2. Route: Pyongyang - Tehran (transit via Gostomel)

3. Payload and/or capacity chartered: 35'000 kg

4. Nature of eargo: oil industry spare parts

5. Flight for which the Aircraft is chartered, on the dates shown below (time UTC):

FLT Nbr	From	ETD	Date	To	ETA	Date
AWG 731	UKKM	07:30	07.12.2009	UBBB	10:40	07.12,2009
AWG 731	UBBB	14:20	08.12.2009	VCBI	23:00	08.12,2009
AWG 731	VCBI	00:30	09.12.2009	VTBS	05:00	09.12.2009
AWG 731	VTBS	17:00	09.12.2009	ZKPY	00:30	10.12,2009
AWG 732	ZKPY	05:30	10.12.2009	VTBS	13:10	10.12.2009
AWG 732	VTBS	01:00	11.12.2009	VCBI	05:30	11.12.2009
AWG 732	VCBI	07:00	11.12.2009	OMFJ	12:45	11.12.2009
AWG 732	OMFJ	01:40	12.12.2009	UKKM	07:30	12.12.2009
AWG 731	UKKM	10:00	12.12.2009	OIII	14:00	12.12.2009
AWO 732	OIII	16:00	12.12.2009	UEAB	17:10	12.12.2009

6. Charter Price:

a. The monies have to be transferred by the "Charterer" in a coordance with the invoice and put on to account of the "Company" before performance of the flight.

b. The "Charterer" has to pay all bank transfer charges regard ng transfer of the monies to the account of the "Company"

ICAO code for Mehrabad International Airport (Iran)

IL-76 Flight plan

Charter agreement

Front companies

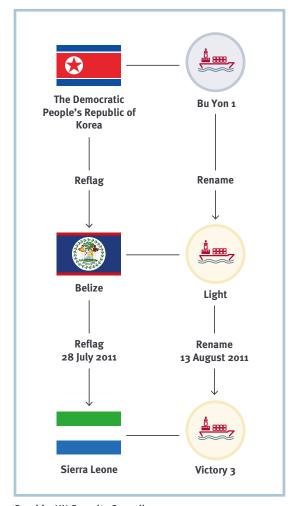


- Frequently used to hide the identities of individuals and commercial entities involved in DPRK arms trafficking.
- Example: IL-76 seized in Thailand in 2009:
 - » owned by East Wing until autumn 2009;
 - » transferred to UAE-based Overseas Cargo FZE;
 - » leased to Georgia-based Air West;
 - » leased to SP Trading;
 - » chartered to Hong Kong-registered Union Top Management (UTM);
 - » UTM created days before flight;
 - » 'Director' was fictional;
 - » No record of payments from UTM to SP Trading.





- Conceal links to DPRK.
- Example: MV Light
 - » hailed by United States Navy, returned to North Korea (link to DPRK exposed) (May 2011);
 - » reflagged from Belize to Sierra Leone (July 2011);
 - » name changed to *Victory 3* (August 2011);
 - » operator changed from Dalian Sea Glory Shipping Co. to Sea Star Shipping Co. (August 2011).



Graphic: UN Security Council

Use of embassies and embassy personnel



- Using embassy buildings as operational centres.
- Tasking embassy personnel with coordinating key activities.
- Concealment of weapons in sealed diplomatic shipments.



Other smuggling techniques

- Falsified shipping documents.
- Separate shipment of authentic documents.
- Scant, false, or altered information on parties to shipments.
- Turning off the smuggling vessel's automatic identification system.



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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 an associated programme 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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