small arms survey
2002

counting the human cost
Foreword

The world is awash with small arms and light weapons, now numbering over 500 million, enough for one in every 12 people on earth. While states bear most of the responsibility for controlling these weapons, no one can deny the global scope of the human tragedy that has arisen from their illicit acquisition and use. These weapons have prolonged or aggravated conflicts, produced massive flows of refugees, undermined the rule of law, and spawned a culture of violence and impunity. In short, the excessive accumulation and illicit trade of small arms is threatening international peace and security, dashing hopes for social and economic development, and jeopardizing prospects for democracy and human rights.

In such a climate, it is not at all surprising that voices both inside and outside of government are demanding new efforts to address this common peril. In July 2001, the world community took its first steps forward in building global norms to assist governments, and regional and international organizations, in rising to this challenge. The occasion was the opening at United Nations Headquarters of the UN Conference on the Illicit Trade in Small Arms and Light Weapons in All Its Aspects—the first global conference to address this issue in a common framework. After intense and difficult negotiations, participating states adopted a comprehensive programme of action to deal with this global scourge.

The challenge ahead is to convert words into deeds, an effort that must involve all levels of society—from the global community to the individual citizen. Progress will depend upon an educated citizenry, co-operation from arms manufacturers, enlightened legislation, disciplined enforcement efforts, extensive international sharing of information, and vigorous national commitments to multilateral action. The common denominator for success in all these areas is the availability of information. Indeed, when it comes to the ‘good governance’ of small arms, there is no substitute for reliable facts.

The first edition of the yearbook, the Small Arms Survey 2001: Profiling the Problem was widely praised by diplomats, government officials and activists as a valuable resource and for the part it played in raising global awareness of the many dimensions of small arms issues. I commend this current edition to the widest possible readership. Only with accurate information and sound analysis will the international community be able to formulate the policies, and carry out the measures, equal to the challenges presented by small arms.

Kofi Annan
Secretary-General of the United Nations
March 2002
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About the Small Arms Survey

The Small Arms Survey is an independent research project located at the Graduate Institute of International Studies in Geneva, Switzerland. Established in 1999 with the generous financial support of the Swiss Federal Department of Foreign Affairs, it currently receives additional funding from Belgium, Canada, Denmark, France, the Netherlands, Norway, Sweden, and the United Kingdom.

The objectives of the Survey are: to be the principal source of public information on all aspects of small arms; to serve as a resource centre for governments, policy-makers, researchers, and activists; to monitor national and international initiatives (governmental and non-governmental) on small arms; and to act as a clearing house for the sharing of information and the dissemination of best practices. The Survey also sponsors field research and information-gathering efforts, especially in affected states and regions.

The project has an international staff with expertise in security studies, political science, law, economics, development studies, and sociology who develop innovative collaboration between a worldwide network of researchers, partner institutions, non-governmental organizations and governments.

Notes to readers

Abbreviations: Topic-specific lists of abbreviations are placed at the end of each chapter.

Chapter cross-referencing: Chapter cross-references appear capitalized in brackets throughout the text. For example, in Chapter 7: 'During armed conflicts, weapons are often widely distributed, not only among those actively participating in the hostilities but also among the civilian population (HUMANITARIAN).'

Exchange rates: All monetary values are expressed in current US dollars (USD). When other currencies are additionally cited, unless otherwise indicated, they are converted to USD as of January 2001.

Small Arms Survey: The plain text—Small Arms Survey—is used to indicate the overall project, while the italicized version—Small Arms Survey—refers to the publication itself. The Survey, appearing italicized, refers generally to past and future editions of the yearbook. The Survey, appearing as plain text, refers to the Small Arms Survey project and its activities.

Web site: For more detailed information and current developments on small arms issues, readers are invited to visit our web site at: http://www.smallarmssurvey.org

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Acknowledgements

This is the second edition of the Small Arms Survey yearbook. It is a collective product of the staff of the Small Arms Survey project, based at the Graduate Institute of International Studies in Geneva, Switzerland. A vast number of researchers in Geneva and elsewhere have contributed to this volume, and it has benefited from the input and advice of a number of officials, activists, experts, and colleagues from around the world.

The principal chapter authors for the Survey 2002 are Peter Batchelor, Maria Haug, Aaron Karp, Katherine Kramer, Keith Krause, Edward Laurance, Glenn McDonald, Robert Muggah, and Camilla Waszink. They were assisted by a large number of in-house and/or external contributors who are all mentioned by name in the relevant chapters. Detailed comments on the chapters were provided by Philip Alpers, Eric Berman, Cate Buchanan, Michael Brzoska, Robin Coupland, Spyros Demetriou, Sami Faltas, Dominic Furlong, David Gorman, Martin Griffiths, Kate Joseph, Edward Laurance, Peter Lock, Lora Lumpe, Patricia Lewis, Nicholas Marsh, Sarah Meek, Greg Puley, Michael Renner, Elisabeth Sköns, Peter Wezeman, and Herbert Wulf.

Peter Batchelor and Keith Krause were responsible for the overall planning and organization of this volume. Aaron Karp provided valuable editorial inputs during the in-house review process. Estelle Jobson was responsible for managing the production of the Survey, co-ordinating with the copy editor, Michael James, and the design team. Layout and design was done by Vick Arnò and Nicoletta Forni of Latitude. The cover was designed by Rob Milliken. Dominic Byatt and Amanda Watkins from Oxford University Press provided significant support and encouragement throughout the production of the Survey.

Administrative and research support was provided by Delphine Zinner, Fridrich Sirba, Véronique Burkhalter, Silvia Cattaneo, Anna Khakoo, and Derek Miller. The project also benefited from the support of personnel of the Graduate Institute of International Studies, in particular Peter Tschopp and Daniel Warner, and staff members Wilfred Gander and Nicole Mouton.

We are very grateful to the Swiss Government for its generous financial and overall support of the Small Arms Survey project, in particular Raimund Kunz, Peter Maurer, Stefano Toscano, Lukas Schifferle, Matthias Halter, Nadia Fischer, and René Haug. Financial support for the project was also provided by the Governments of Belgium, Canada, Denmark, France, the Netherlands, Norway, Sweden, and the United Kingdom. The project also benefits from the assistance and support of a number of other governments and international agencies, including UNIDIR, UNDDA, WHO, UNDP, and the ICRC.

In Geneva, the project has received support and expert advice from: Lucas Assunção, David Atwood, Deborah Berlinck, Cate Buchanan, John Borrie, Christophe Carle, Randall Harbour, Martin Griffiths, Olivier Guerot, Peter Herby, Judit Kiss, Alexander Kmett, Thymen Kouwenaar, Etienne Krug, Bennie Lombard, Patrick McCarthy, David Meddings, Camilo Reyes Rodríguez, Rakesh Sood, and Fred Tanner.

Beyond Geneva, the Project also received support from a number of colleagues. In addition to those mentioned above and in specific chapters, we would like to thank: Pete Abel, Péicles Gasparini Alves, Antonio Rangel Bandeira, Dipankar Banerjee, Ian Biddle, Loretta Bondi, Jakkie Cilliers, Wendy Cukier, Ian Davis, Paul Eavis, Rubem César Fernandes, Virginia Gamba, William Godnick, Owen Greene, Björn Hagelin, João Honwana, Don Hubert, Sally Joss, Jan Kamenju, John Kierulf, Philippa King, Steffen Kongstad, Eugenia Piza-López, Andrew Mack, Lisa Misol, Geraldine O’Callaghan, Yeshua Moser-Puangsuwan, Johan Peelman, Maxim Pyadushkin, Jakkie Potgieter, Robert Scharf, Chris Smith, Gerald Steinberg, David Viveash, Lieke van de Wiel, Michel Wéry, Brian Wood, and Steve Wright. Our sincere thanks to many other individuals (who remain unnamed) for their continuing support of the project. We also express our apologies to anybody whom we have forgotten to mention.

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Introduction

2001: A watershed year for international efforts

The year 2001 marked a watershed in the global effort to understand and address the problems created by the proliferation and use of small arms and light weapons. The United Nations Conference on the Illicit Trade in Small Arms and Light Weapons in All its Aspects represented an unprecedented high-level effort to achieve international agreement on the nature of the problem and the most important measures to deal with its different dimensions. Its Programme of Action,1 adopted by consensus, represented the culmination of several years of effort within and outside of the UN system to raise the profile of the small arms issue on the international agenda. In the months leading up to the Conference itself, almost all governmental and non-governmental activity was directed towards influencing its outcome.

The Small Arms Survey 2001 was also successfully launched at the 2001 UN Small Arms Conference in New York, and was widely cited and used throughout. It continues to be the single most important source of information and research on various aspects of the small arms issue. Such attention testifies to the continuing shortage of reliable and impartial information and analysis on different aspects of the problem of small arms. In this edition of the Survey, we break new ground by focusing on the humanitarian dimensions of small arms availability and use, as well as by providing original research on arms-producing companies. We also examine in depth the emerging field of weapons collection and destruction.

It is of course too early to draw up a definitive balance sheet for the UN Conference. Our analysis of the conference, presented in Chapter 5, focuses on its ambitious and far-reaching goals: to define the nature of the problem; to provide a tool for policy-makers and activists; to mobilize national and multilateral resources; and to promote the development of international and national norms.

Significant progress was made towards these goals. The Programme of Action commits states to implement a wide range of measures at the national, regional, and global levels affecting the trade (legal and illicit), production, and holdings of small arms and light weapons. These measures include strengthening national regulation of the production and transfer of small arms; ensuring that manufacturers mark all weapons (and keep appropriate records) to allow tracing of seized weapons; improving the system of end-user certification to diminish the risk of diversion and illicit trafficking; encouraging the destruction of weapons seized in criminal investigations, collected in post-conflict disarmament programmes, or surplus to national requirements; and increasing the security of small arms stocks. Such measures, if implemented, would go a long way towards improving the situation worldwide.

On the other hand, the Programme of Action’s language provides states with a wide margin to exercise discretion or interpretation, via such clauses as ‘where applicable’, ‘as appropriate’, ‘where needed’, or ‘on a voluntary basis’. Many important issues were also dropped from the Programme of Action, such as commitments to negotiate an international mechanism to trace illicit small arms (only a UN feasibility study was agreed), initiatives to regulate the civilian possession of weapons, increased transparency in the production, stockpiling, and trade in small arms, specific criteria (such as a code of conduct) governing authorized exports,
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and greater regulation of arms brokering. And finally, documents themselves, no matter how well crafted, do not themselves destroy surplus weapons, secure stockpiles, punish illicit traffickers, or increase the security of vulnerable groups.

The success of the Programme of Action will ultimately be measured by its ability to catalyse a wide range of multilateral and national measures. Compared with the multilateral climate on the issue only five years ago, a relatively wide consensus has emerged that the unconstrained availability of small arms and light weapons ought to be addressed multilaterally. Small arms are, in other words, ‘independent variables’ in complex (and often conflictual) situations that are susceptible to concrete policy measures.

The role of the Small Arms Survey

How will the Conference have an impact on the work of the Small Arms Survey? In addition to our ongoing research activities, over the past year the staff and collaborators of the Small Arms Survey were active in different aspects of the Conference process. Field research projects were also conducted throughout 2001 in Georgia, Yemen, the Republic of Congo (Brazzaville), and elsewhere.

The Programme of Action highlights a wide range of possible negative consequences associated with the proliferation and use of small arms and light weapons. These include:

- increasing the intensity of contemporary conflicts;
- diminishing the security of vulnerable groups such as women and children or refugees and internally displaced persons;
- increasing the violence associated with large-scale criminal activity (and the concomitant burden on the criminal justice system);
- eroding development gains and the prospects for socio-economic development;
- threatening humanitarian relief operations and workers; and
- increasing the public health burden associated with firearms violence.

Small arms and light weapons are implicated in complex ways with all these problems. Little work, however, has been done to assess systematically the impact of small arms availability and/or use, or to evaluate the effectiveness of particular policy measures. The Small Arms Survey project has an important role to play here, within its core mission of independent research and analysis of all aspects of the problem of small arms and light weapons. Our work is slowly shifting from collecting existing information to generating new data through longer-term research and information-gathering projects and partnerships.

Our focus on the small arms themselves (production, stockpiles, transfers) is also complemented by research efforts that focus on the impact and effects of small arms and light weapons proliferation, and on the evaluation of measures to deal with the problems they pose. This research is attempting to answer questions such as:

- What are the long-term costs and consequences of small arms availability, proliferation, and misuse?
- What are the costs and benefits associated with different policy measures and strategies?
- What are the costs of inaction (such as growing insecurity, stalled socio-economic development, distortions in economic allocations, and declining provision of basic services)?
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This kind of research requires baseline data collection in affected states and regions, information-gathering systems for surveillance research (e.g. concerning health and policing impacts and costs), long-term research partnerships, and conceptual and practical tools for assessing the impact of small arms proliferation on humanitarian initiatives and socio-economic development. We make a start on this ambitious agenda in Chapter 4, which deals with the humanitarian impacts of small arms. New projects have already been launched in some of these areas, in collaboration with a wide range of institutional partners.

Beyond the 2001 UN Small Arms Conference

The conference process is only one piece of a much larger and more complex tapestry of efforts to tackle the problems posed by the accumulation and use of small arms and light weapons. Internationally, one of the most prominent areas of activity has been weapons collection and destruction programmes, a survey of which can be found in Chapter 7 of this yearbook. Recent initiatives by the United Nations Development Programme in the Republic of Congo (Brazzaville) and Albania have also laid the foundation for expanded collection and destruction programmes, often linked with projects for the Demobilization, Disarmament and Reintegration (DDR) of ex-combatants in post-conflict settings. Another area of activity, centred around the Organization for Security and Co-operation in Europe (OSCE), has focused on stockpile security, formal information exchanges, and the enhancement of national legislative and export control systems through bilateral and multilateral capacity-building efforts. Finally, grassroots initiatives, especially in Latin America, South Asia, and parts of sub-Saharan Africa, are also expanding. These focus on the local and human impacts of weapons proliferation, such as urban crime, communal conflicts, or large-scale insurgencies. All of these efforts involve a wide range of partners and stakeholders, from states to international organizations, armed forces, national police, local government authorities, and non-governmental organizations. They testify to the multi-dimensional nature of the problem and to the need to engage a wide range of actors depending on the particular context. In an attempt to understand better some of these dimensions, Chapter 4, covering the effects of small arms proliferation and use, focuses on one particular set of actors: those affected by the consequences of conflicts and complex humanitarian emergencies.

Highlights from the yearbook

The Small Arms Survey 2002 updates and extends our previous research and tackles some new topics. Chapters on production, stockpiles, transfers, and measures build on the Small Arms Survey 2001, while our assessment of weapons collection and destruction and the 2001 UN Small Arms Conference represents new areas of attention. And, as noted above, the chapter on ‘effects’ narrows its focus in this yearbook to concentrate on the humanitarian impacts of small arms.

Chapter 1 (Products and Producers) focuses on developing baseline data on small arms companies instead of producer states, and attempts to identify the most important arms producing firms worldwide. Our research database now includes information on approximately 1,000 companies that produce (or have the capacity to produce) small arms and ammunition, in nearly 100 states. As a result, our total estimated annual worldwide production of small arms and light weapons and ammunition has increased to approximately USD 7.4 billion, including both commercial and military-style firearms. This increase in our estimate of the value of global production does not necessarily reflect an increase in the volume of production; in fact, many firms remain in a financially questionable state,
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and overall demand for new weapons does not appear to be increasing. In many states production is also dormant or ad hoc, or limited to ammunition. But the Survey now has a clear basis on which to build more in-depth research into specific firms, states, and regions, and this year's chapter makes a start by examining two of the world's most significant licensors of small arms: FN Herstal (Belgium) and Heckler and Koch (Germany/UK), whose weapons are produced under licence in more than 35 countries worldwide.

Chapter 2 (Stockpiles): Our estimate of total global stockpiles of small arms and light weapons has risen this year to at least 638 million, significantly higher than the 2001 estimate of at least 551 million. Why the relatively large change? The main reason is a more refined (and higher) estimate of the total civilian holdings of weapons that now includes many states and regions, including in particular China and South Asia, for which reliable estimates were previously unavailable. Calculations of government (mainly military) and insurgent-force holdings of small arms have remained relatively stable. As the chapter points out, however, it is easy to become obsessed with these figures and to miss their wider significance. The main purpose of estimating military holdings of weapons is to encourage states to practise greater transparency in this area, one of the last bastions of military secrecy. From such transparency can come accountability and dialogue, especially concerning the development of appropriate criteria for determining excessive and destabilizing accumulations of weapons, and for identifying weapons that are surplus to national requirements.

Chapter 3 (Transfers): We have refined our estimate of global transfers of small arms and light weapons to USD 4 billion a year. Small arms transfers have proved to be an extremely difficult area to research. This year, however, we have attempted to analyse more systematically two areas: the overall level of transparency in the trade (and improvements in it), and the variety of ways in which small arms move from the legal to the illicit markets. These vectors include arms supplies to non-state actors, violations of arms embargoes or end-user undertakings, leakage from state arsenals or private owners, battlefield recoveries, and the ‘ant trade’. Given the debate over the scope of the 2001 UN Small Arms Conference, which treated the illicit trade in ‘all its aspects’, it is important to note that virtually all illicit weapons begin their life cycle in legal production and trade, and that greater transparency and oversight of the legal trade is thus a crucial tool for tackling illicit transfers.

Chapter 4 (Humanitarian Impacts) draws on fieldwork conducted in various countries for the Reference Group on Small Arms of the United Nations Inter-Agency Standing Committee. To date, almost all the evidence we have is anecdotal, although it almost all points in the same direction: increased availability of small arms exacerbates humanitarian crises, and increases the difficulty (or cost) associated with humanitarian and relief efforts. The chapter identifies a series of indicators, and draws together evidence from field studies in a variety of countries to demonstrate the direct (death and injury) and indirect (displacement, reduced access to basic services) impact of small arms in humanitarian crises and complex emergencies. It also examines the frameworks of international humanitarian and human rights law within which small arms could potentially be considered, and identifies some of the limits of a humanitarian approach to the problem.

Chapter 5 (UN Conference): Our analysis of the 2001 UN Small Arms Conference provides an accessible overview of the main issues for non-experts, discussing not just the outcome of the Conference but also some of the diplomatic and political complexities of the process that led up to it. It also tries to reflect the very different views that exist concerning the process and outcomes of the Conference, including the role played by NGOs. The main points from the chapter (and the Conference) have been presented above. Ultimately, the success of the Conference and its outcome will be judged not by what it accomplished but by how the international community uses the outcome to develop concrete measures.
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Chapter 6 (Measures) examines a series of regulatory regimes proposed or employed, at the national, regional, and global levels, for the purpose of controlling small arms at various points in their life cycle. While the coverage is selective, the areas the chapter examines—including marking and tracing, end-use certification, stockpile management, and the regulation of civilian possession—are widely recognized as key components of broader efforts to control small arms. These studies are complemented by an examination of a specific instrument (the recently concluded Firearms Protocol), a subregion (eastern Africa), and a type of actor (NGOs). The chapter highlights the contrasting stages of development of the various control regimes, with the regulation of arms brokering lagging far behind, despite growing recognition of the crucial role illicit brokering plays in small arms proliferation. The chapter also points to the limitations imposed by divergent state practices in many of these areas.

Chapter 7 (Weapons Collection and Destruction) directs a spotlight on what is becoming a growing area of international activity. It traces the origins of weapons collection programmes, and analyses some of their early successes and failures. It also highlights the variety of different approaches that have been attempted, and stresses that a number of factors shape the success or failure of any intervention. This analysis is especially important for policymakers and advocates, given the importance that weapons collection (and broader DDR programmes) are going to play over the next few years.

**Conclusion**

The forward-looking process that was established by the 2001 UN Small Arms Conference, which includes an international meeting in 2003 to review implementation of the Programme of Action, ensures that political attention will remain focused on small arms issues for years to come. The expansion of specific national, bilateral, and multilateral projects in different regions also ensures that data collection, evaluation, and analysis will remain a crucial task for the Small Arms Survey project. In addition to pursuing this aim, the Small Arms Survey 2003 will focus more specifically on the developmental dimension of small arms availability and use, and will present in-depth case studies of specific countries and regions, in order to develop insights and knowledge that is useful to all small arms stakeholders.

In all aspects of its work, and especially in the 2002 edition of the Survey, the Small Arms Survey project tries to draw attention to the human dimension of the small arms issue. This is not dramatic license, but rather based on our belief that the costs of small arms proliferation and use are ultimately meaningful only if measured in human terms. This approach poses several challenges. Sometimes the effects or consequences can, if approached with care, be measured, weighed, and compared (the economic burden of health and injury, for example), in order to provide an impetus to political action or innovative policy interventions. That the effects are often intangible and difficult to measure and compare makes them, however, no less important for us to grasp.

**Endnotes**


2 These were the main issues identified by major NGO groups, including the Biting the Bullet project (London), the Small Arms Working Group (Washington), and the International Action Network on Small Arms (IANSA).