ESTIMATING GLOBAL CIVILIAN HELD FIREARMS NUMBERS

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About the author

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Overview

Uncertainty about any firearms data requires systematic estimation that relies on a broad spectrum of sources and makes approximation unavoidable. The Small Arms Survey’s estimates of civilian firearms holdings use data gathered from multiple sources. However, with much of civilian ownership concealed or hard to identify, gun ownership numbers can only approximate reality. Using data from several different sources, at the end of 2017 there were approximately 857 million civilian-held firearms in the world’s 230 countries and territories. Civilian firearms registration data was available for 133 countries and territories. Survey results were used to help establish total gun civilian holdings in 56 countries. The new figure is 32 per cent higher than the previous estimate from 2006, when the Small Arms Survey estimated there were approximately 650 million civilian-held firearms. Virtually all countries show higher numbers, although national ownership rates vary widely, reflecting factors such as national legislation, a country’s gun culture, historical and other factors. While some of the increase reflects improved data and research methods, much is due to actual growth of civilian ownership.

Key findings

- There were approximately 857 million civilian-held firearms in the world at the end of 2017.
- Roughly 100 million civilian firearms were reported as registered, accounting for some 12 per cent of the global total.
- National ownership rates vary from about 120.5 firearms for every 100 residents in the United States to less than 1 firearm for every 100 residents in countries like Indonesia, Japan, Malawi, and several Pacific island states.
- There are regional or national surveys concerning civilian holdings for 56 countries and territories.
Box 1 Global breakdown of firearms numbers

At the end of 2017 there were approximately 1,013 million firearms in the 230 countries and autonomous territories of the world, 84.6 per cent of which were held by civilians, 13.1 per cent by state militaries, and 2.2 per cent by law enforcement agencies (see Figure 2).

The 2017 combined global total of 1.013 million firearms is higher than the previously published Small Arms Survey global total of 875 million firearms in 2006, an increase of 15.7 per cent for all identified firearms. Much of this change is due to an increase of 32 per cent in the estimated civilian-held firearms total. Reported global totals for the law enforcement and military categories show net decreases, mostly due to changes in estimating procedures.

While the global total for 2017 is significantly higher than that in 2006, not all changes at the country level are due to a growth of civilian firearms holdings. Some variations since 2006 are also affected by the availability of more complete reporting or more comprehensive estimates.

Every effort has been made to ensure the reliability of Small Arms Survey data, but not all entries are equally complete. In some areas—especially law enforcement and the military—some government agencies and stockpiles may have been missed. The Survey methodology counts all firearms equally, although they can vary greatly in capability, reliability, and durability.

Table 1 Estimated total civilian-held legal and illicit firearms in the 25 top-ranked countries and territories, 2017

<table>
<thead>
<tr>
<th>Country</th>
<th>Total Civilian- held Firearms</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>393,300,000</td>
</tr>
<tr>
<td>India</td>
<td>71,100,000</td>
</tr>
<tr>
<td>China</td>
<td>49,700,000</td>
</tr>
<tr>
<td>Pakistan</td>
<td>43,900,000</td>
</tr>
<tr>
<td>Russian Federation</td>
<td>17,600,000</td>
</tr>
<tr>
<td>Brazil</td>
<td>17,500,000</td>
</tr>
<tr>
<td>Mexico</td>
<td>16,800,000</td>
</tr>
<tr>
<td>Germany</td>
<td>15,800,000</td>
</tr>
<tr>
<td>Yemen</td>
<td>14,900,000</td>
</tr>
<tr>
<td>Turkey</td>
<td>12,700,000</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>5,500,000</td>
</tr>
<tr>
<td>South Africa</td>
<td>5,400,000</td>
</tr>
<tr>
<td>Colombia</td>
<td>5,000,000</td>
</tr>
<tr>
<td>Ukraine</td>
<td>4,400,000</td>
</tr>
<tr>
<td>Afghanistan</td>
<td>4,300,000</td>
</tr>
<tr>
<td>Egypt</td>
<td>3,900,000</td>
</tr>
<tr>
<td>Philippines</td>
<td>3,800,000</td>
</tr>
<tr>
<td>Venezuela</td>
<td>5,900,000</td>
</tr>
<tr>
<td>Iran</td>
<td>5,900,000</td>
</tr>
</tbody>
</table>

Source: Small Arms Survey (2018)

Table 2 Estimated rate of civilian firearms holdings in the 25 top-ranked countries and territories, 2017 (firearms per 100 residents)

<table>
<thead>
<tr>
<th>Country</th>
<th>Rate (per 100 residents)</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>120.5</td>
</tr>
<tr>
<td>Yemen</td>
<td>52.8</td>
</tr>
<tr>
<td>Montenegro</td>
<td>39.1</td>
</tr>
<tr>
<td>Serbia</td>
<td>39.1</td>
</tr>
<tr>
<td>Canada</td>
<td>34.7</td>
</tr>
<tr>
<td>Uruguay</td>
<td>34.7</td>
</tr>
<tr>
<td>Cyprus</td>
<td>34.0</td>
</tr>
<tr>
<td>Finland</td>
<td>32.4</td>
</tr>
<tr>
<td>Lebanon</td>
<td>31.9</td>
</tr>
<tr>
<td>Iceland</td>
<td>31.7</td>
</tr>
<tr>
<td>Bosnia and Herzegovina</td>
<td>31.2</td>
</tr>
<tr>
<td>Austria</td>
<td>30.0</td>
</tr>
<tr>
<td>Macedonia*</td>
<td>29.8</td>
</tr>
<tr>
<td>Norway</td>
<td>28.8</td>
</tr>
<tr>
<td>Malta</td>
<td>28.3</td>
</tr>
<tr>
<td>Switzerland</td>
<td>27.6</td>
</tr>
<tr>
<td>New Zealand</td>
<td>26.3</td>
</tr>
<tr>
<td>Kosovo**</td>
<td>23.8</td>
</tr>
</tbody>
</table>

Notes: This table excludes countries and territories with a population of under 150,000. *Macedonia = the former Yugoslav Republic of Macedonia. ** The designation of Kosovo is without prejudice to positions on status and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo declaration of independence.

Source: Small Arms Survey (2018)

Comparative sources on civilian firearm ownership

While it is generally easy to be certain of the existence of some guns, it is almost impossible to be sure of the total number of all guns. Poor record-keeping and the near absence of reporting requirements in much of the world complicate assessments of global stockpiles. Differences in national ‘gun culture’—each country’s distinctive combination of historic and current sources of supply, laws, and attitudes towards firearms ownership and use—are no less important. In the process of estimating civilian firearm ownership, differences in national ‘gun culture’ often have effects not just on firearms availability, but also on sensitivity to, and the classification and perception of, firearms. And at the empirical level, categories of firearm holders may overlap, such as when individuals use private firearms as security guards, in armed groups, or in gangs. Uncertainty about any firearm data requires systematic estimation to rely on a broad spectrum of sources and makes approximation unavoidable.

The Small Arms Survey’s civilian ownership estimates emphasize data gathered from multiple sources. These are systematically integrated to generate the total estimate for each country (Box 1). The available data sources include published official documents and research studies on countries and regions, official responses to questionnaires from the Small Arms Survey, public opinion surveys, news reports, and private correspondence with experts. When possible, highest and lowest numbers are discarded as outliers.

Six data sources deserving special emphasis are reviewed here. Four are emphasized in the Small Arms Survey’s Civilian Firearms Holdings 2017 database. Two others feature prominently in the literature on civilian holdings, but are not used here.

Firearms registration

Especially where it is mandatory and widely accepted, registration can be the most reliable indicator of overall private gun ownership. With the help of governments, research, and media reporting,
A global total of roughly 100 million registered firearms have been identified in 133 countries and territories (Small Arms Survey, 2018).

But registration systems can be quirky. In the absence of automatic renewal, for example, weapons can disappear from public records and statistics. In some countries, registration totals include other kinds of weapons, such as air guns in Scotland or swords in Japan (BBC, 2016; Karp, 2017). In the United States, only specific categories of weapons require federal registration, and in many countries registration is not systematically respected, resulting in very low registration totals (ATF, 2017b, p. 15; Gould and Lamb, 2004). Even in countries with sophisticated registration systems, registration totals remain incomplete. Older guns and privately or illegally traded weapons regularly escape registration.

Surveys

The findings of surveys on gun ownership can be especially useful. The greatest appeal of polling is comprehensiveness: it should cover all civilian firearms. But the sensitivity of gun ownership can weaken the reliability of responses. Survey results depend on question wording, while sampling issues and social biases can affect responses. The lowest estimates of civilian ownership are often from surveys. If expert estimates can appear to exaggerate figures, surveys are sometimes suspected of underreporting (Wellford, Pepper, and Petrie, 2005, pp. 34–37, 57–58). In the United States, for example, there is a growing trend among gun owners to refuse to answer surveys on firearm possession (Urbatsch, 2018). As a result, survey results, like other measures of ownership, should be combined with data from other sources whenever possible.

Survey results were used to help establish total gun ownership in 56 countries. There are several ways in which surveys can ask about firearms, so adjusting results is necessary to make them fully comparable. Many surveys measure not the number of guns, but the proportion of individuals or households that hold at least one gun. Many studies of crime and violence collect information on the presence of firearms in households. When surveys ask about individual ownership, findings must be corrected for the population surveyed, which is usually just adults. The largest international survey project on individual gun owners examined 28 countries (European Commission, 2013).

Expert estimates

Among the most common figures on gun ownership are personal estimates by knowledgeable observers. Their impressions are useful, but they can also differ dramatically. In some countries, such estimates have diverged by a factor of ten (Small Arms Survey, 2007, pp. 45, 54). Expert estimates can be much higher than other country totals, often double or triple other estimates, sometimes even higher. Expert estimates are important and should be considered seriously, but in our methodology, highly divergent expert estimates are usually discarded as outliers.

Analogous comparison

Another way to estimate civilian ownership is through comparison with similar but better-understood countries. Survey-based estimates of unregistered weapons in one country, for instance, can serve as a useful basis for estimating illicit firearm ownership in a country where surveys are lacking, but which has comparable firearms legislation, and a similar ‘gun culture’ and per capita gross domestic product.
Other indicators

Proxies

The use of substitute indicators or proxies is an established and important technique for firearms estimation. For example, here appears to be a positive—albeit weak—correlation between national wealth, population, and gun ownership (Small Arms Survey, 2007, pp. 57–59). Another proxy for gun ownership is the proportion of suicides committed with firearms (Ajdacic-Gross et al., 2010; Alvazzi del Frate and Pavesi, 2014). Such statistical tools are limited by the cultural and social differences among the countries being compared and statistical problems like the reliability of these countries’ suicide data. The firearm suicide proxy, for instance, has been proved to be reliable in Western societies, but its utility elsewhere is uncertain (Ajdacic-Gross et al., 2006). For these reasons proxies were not used in the Survey’s global estimate for 2017.

Seizure reports

Many countries routinely report the number of firearms seized by customs authorities, the police, and other law enforcement agencies. This makes seizure reports an appealing data source, especially as a window on illicit or unregistered firearms. Unfortunately, seizure data is often not

Box 2 Craft guns complicate the count

Craft guns represent a major source of uncertainty in estimating global civilian firearms possession. The term usually refers to guns made from improvised parts such as pipes and scrap metal in small workshops, typically unregistered and uncounted by the authorities (Berman, 2011). But it covers different things in different places. Craft guns, like other categories of weapons such as readily convertible air, replica, and blank-firing guns, may or may not appear in comprehensive country firearms totals.

In many countries, craft guns are costly, tailor-made hunting and sports shooting weapons. More commonly they are crude, like ‘country-made’ guns in India (Ajitesh and Prathihari, 2014). And they can be technologically advanced, like the Carlo sub-machine guns popular in Palestine (Economist, 2016). In the United States, they include individually produced firearms based on ‘80 Percent’ receivers and other parts acquired from manufacturers for making semi-automatic rifles (Horwitz, 2014).

Whether craft guns are included in country totals used by the Small Arms Survey is often not clear. In many countries and territories, craft guns are definitely included in polling and expert estimates, although there is uncertainty about coverage. In some countries, like Mali, for example, few craft gun producers are legally registered (UNREC, 2016, p. 31). Official US statistics cover only the formal market, not guns made from ‘80 Percent’ receivers (Horwitz, 2014), but public surveys presumably capture them. India has relatively imprecise estimates, but they do cover annual production of roughly 2.5 million craft guns (Karp, 2015, p. 63).
Civilian-held Firearms Numbers consistently reported and tends to vary greatly across countries, making it easy to misinterpret (UNODC, 2015, p. 5). While seizure reports are revealing, they currently cannot be used for estimating total civilian firearms. Research has not revealed a reliable technique to extrapolate from seizure reports to trends in total firearms ownership or even just unregistered ownership (UNODC, 2015, p. 87). For these reasons, seizure reports were also not used in the Survey’s global estimate for 2017.

### Analytical considerations

#### Increasing numbers

Factors that tend to propel levels of civilian firearms ownership include growing supply due to production, and growing demand from population and income growth (Atwood, Glatz, and Muggah, 2006). While there are a few exceptional countries where public gun ownership is declining—Japan is the best understood—in most of the world the total number of civilian firearms appears to be going up. Documented annual inflation growth rates vary greatly from country to country, with rates as high as 3.4 per cent for rifles in England and Wales and 4.16 per cent for all firearms in the United States in recent years (Home Office, 2015; ATF, 2017a; 2017b). The Small Arms Survey assumes that countries have a growth rate of one per cent annually, unless higher rates can be substantiated.

### Box 3 All firearms are not alike

Country totals aim for comprehensiveness, but they usually lack detail. Very different types of firearms are lumped together by macrostatistics such as those in this Briefing Paper. For example, a country total might combine weapons with capabilities that vary significantly, including single-shot craft guns and factory-made semi-automatic rifles.

Registration data and manufacturer reporting can be more nuanced, depending on the law. In Canada, for example, the federal government requires the registration of handguns, but not of long guns (Masters, 2016). But some Canadian provinces, like some states in the United States, have their own registration requirements (RCMP, 2017). In other countries, ownership patterns simplify the problem, particularly when one type of gun is most common. As the Survey previously reported, ‘the vast majority of illicit small arms in Afghanistan, Iraq, and Somalia appear to be Kalashnikov-pattern assault rifles. Other types of small arms are comparatively rare’ (Small Arms Survey, 2012, p. 313).

Where more detailed data is available, it can reveal important trends. In the United States, it points to dramatic shifts in public gun-purchasing patterns in the past decade, as pistols and semi-automatic rifles became increasingly dominant, influenced by the expiry of the Federal Assault Weapons Ban in 2004 and changing consumer preferences (see Figure 2). According to data from the National Shooting Sports Foundation (NSSF)—a manufacturer’s advocacy organization—semi-automatic rifles accounted for a growing share of US rifle sales since then, reaching 13 per cent of all US civilians’ new gun purchases in 2012, the last year for which data is available. No less striking is the rising share of pistols, which, according to data from the US Bureau of Alcohol, Tobacco and Firearms, out-sell revolvers in the US domestic civilian market by four to one or more since 2012 (ATF, 2017b, pp. 1, 3, 5; NSSF, 2015, p. 5).

According to surveys commissioned by the NSSF, as of 2016, 42.3 per cent of US hunters and shooters reported owning at least one AR15 platform (M16-style) rifle. In the following year, 24.8 per cent of surveyed US hunters and shooters who bought a firearm in July–August 2017 reported purchasing at least one modern sporting rifle or semi-automatic assault weapon, such as an AR15- or Kalashnikov-style rifle (NSSF, 2018, pp. 201–2). In 2016, six per cent of US adults surveyed reported that they participated in target shooting with a modern sporting rifle or semi-automatic assault weapon, which is equal to approximately 14 million people nationally (NSSF, 2018, pp. 136, 189).

### Figure 2 Annual acquisition of new firearms in the United States, by type

![Annual acquisition of new firearms in the United States, by type](image)

Note: The ‘miscellaneous’ category includes black-powder firearms, sub-machine guns, pistol-grip firearms (usually a type of pump-action shotgun), starter guns, and other kinds of firearms.

Source: ATF (2017b)
Box 4 Computation methods for civilian firearms holdings

This Briefing Paper presents estimates from the Small Arms Survey’s Civilian Firearms Holdings 2017 database (Small Arms Survey, 2018). The database estimates are calculated on the basis of the following sources (or mix of sources):

(a) national firearms registration statistics;
(b) general population surveys about firearm ownership (available for 56 countries/territories);
(c) experts’ estimates of civilian holdings; and,
(d) where none of these was available, analogous comparisons based on estimates for comparable countries.

The database further relies on the analysis of individual reports on civilian firearms ownership from multiple sources, including published official documents and research studies on countries and regions, official responses to questionnaires sent out by the Small Arms Survey, news reports, and private correspondence with experts.

Computation steps

The goal of this exercise was to produce estimates of civilian firearms ownership for 230 countries and territories. For 181 countries/territories, at least one of the sources indicated as (a), (b), or (c) above was available. Forty-nine figures were estimated using analogous comparison, mostly in the Caribbean, Central Asia, the Middle East, and sub-Saharan Africa. The year 2017 was established as the reporting year.

The process of computation required going through all available sources for each country/territory as follows:

1. Where relevant national statistics were available, they were used to establish the number of registered firearms. If only the number of persons licensed to own a firearm was available, this number served as a minimum estimate for registered firearms, with the assumption that each person with a licence owns at least one firearm.
2. If population surveys were available, a mean estimate of the number of firearms was calculated, using the most recent reliable survey of households and individuals in each country/territory. Each estimate was then adjusted for annual increase to make results comparable and aligned to the reporting year.
3. Expert estimates were analysed and mean estimates of the number of civilian firearms in each country/territory were produced. Each estimate was then adjusted for annual increase to the reporting year, making up for the difference between the year of the original estimate and the reporting year. Highest and lowest expert estimates were discarded if they were too extreme.
4. Survey- and expert-based mean estimates were averaged out for each country/territory, if they were available.
5. Attrition (known actions that would deflate numbers) since the reference year was considered; that is, any known figures were deducted related to civilian disarmament, firearms collection programmes, seizures, destruction, etc. from the mean estimate derived from expert assessments and survey-based estimates.
6. In countries/territories where no information from sources (1), (2), or (3) was available, firearms numbers were estimated using analogous rates from comparable countries and territories where the research team, guided by available research and media reporting, appraised whether analogous comparisons were plausible.

For most locations there were multiple sources generating a wide range of estimates. After discarding clear outliers, the approach described above averaged these estimates into a single estimate.

This estimation system used several important assumptions. The most significant of these were the following:

- We assumed an annual change in total civilian ownership, representing an increase of at least one per cent per year, to be the same in each country/territory of the world. This would represent the average balance of all losses and increases. Exceptions we applied included countries with documented deflation that contradicted this assumption (like Japan) and countries with higher documented inflation (such as the United States since 2006), or countries with plausibly higher growth rates due, for example, to an ongoing conflict where we assumed above-average civilian armament is taking place.
- Secondly, where no information was available about the number of firearms per owner, it was assumed that an average owner possessed 1.5 firearms (this multiplier was used in survey-based estimates, where no national figures for firearms-per-owner rates were available, or could not be estimated from registration data).
A woman listens to instructions about her practice shooting for her concealed carry certification test, Illinois, United States, July 2017.
Source: Jim Young/AFP Photo
Estimation will remain an essential element of civilian firearms data, but all estimates must be used with respect for their limits.”

Growth of total firearms numbers (for example, see Table 1) is not the same as growth rates of ownership per population (for example, see Table 2). If a country’s population grows faster than its gun holdings, its ownership rate can decline even as total holdings increase.

Decreasing numbers
Guns also can be destroyed, corrode beyond repair, or become permanently broken or disabled. The form of attrition or wastage that is easiest to document is formal disarmament and destruction supervised by governments or international organizations. This can be significant for country totals and must be taken into account when estimating civilian ownership (Small Arms Survey, 2009, pp. 158–91). Many other forms of attrition cannot be estimated directly, although attempts have been made using assumed attrition rates. Most problematically, weapons can be temporarily removed from circulation without being destroyed. Firearms seized by the customs authorities or police, for example, may be destroyed, but might also be returned to their owners or sold at auctions. The most reliable method for estimating the loss of firearms appears to be surveying for comprehensive levels of gun ownership, which indirectly includes the effects of increasing and reducing numbers.

Data picking
A common fallacy in firearms estimation is preference for one particular estimate when several are available, typically because it seems right or best. This confirmation bias is often justified as conservative estimation, as a synonym for cautious. In practice it can privilege either low or high estimates, depending entirely on individual preferences. Such data picking, typically confirming an observer’s preferences, is always to be avoided (Karp, 2013, p. 76). The most reliable and verifiable insulation against confirmation bias or data picking is to average as many independent estimates as possible.

The procedures followed to reach the conclusions laid out in this Briefing Paper are described in Box 4.

Conclusion
Much has been learned during the past decade about the global distribution of civilian firearms. It is possible to say with greater authority and accuracy how many guns people have in each country. The relative ranking of countries is known with greater certainty. It is clear that global civilian holdings are growing, with much, but not all, of the increase attributable to rising ownership in the United States.

The greater willingness and capability of governments to share details about civilian gun ownership in their respective territories is a vital force in this rising tide of knowledge. But registration data remains just part of the picture. With roughly 100 million civilian firearms reported as registered out of some 857 million believed to exist, registration data accounts for only some 12 per cent of the global total. This gap reflects the unwillingness or inability of many governments to release registration data, and the lack of information on countries and territories where comprehensive registration is not legally required. Similarly, the most comprehensive surveys of civilian gun ownership also have their caveats, and they can be hardest to find in many of the places where armed violence is worst and they are needed most. These problems make estimation a natural and inevitable part of any effort to determine country or global totals.

While estimations will remain an essential element of civilian firearms data, all global and country estimates must be used with respect for their limitations. Even the most useful estimates must often trade precision for honesty about data and methods, relying on procedures that consider alternatives and acknowledge the truths that lie between the highs and lows (Kent, 1964). With much of civilian ownership concealed or hard to identify, gun ownership numbers can only approximate reality or reveal only part of it. They should therefore always be used with caution.

Notes
1 Each of the three Small Arms Survey firearms data sets covers a different number of states and territories, depending on the unit of analysis and data availability. Civilian data covers 230 states and autonomous territories. Law enforcement data was available for 230 states and autonomous territories. Military firearms are presented for 177 states with formal military forces.
2 In most countries, civilian ownership of small arms and light weapons is limited to firearms, usually meaning “any portable barreled weapon that expels, is designed to expel or may be readily converted to expel a shot, bullet or projectile by the action of an explosive’ (UNGA, 2001, art. 3(a)). This Briefing Paper, however, defines firearms in accordance with the lists of ‘small arms’ contained in the International Tracing Instrument (UNGA, 2005, para. 4(a)). Therefore, certain light weapons fitting the above definition of a firearm, such as heavy machine guns, are not included in country totals for civilian firearms. However, every country, and sometimes different data sources, may use definitions of their own, reflecting domestic laws, specific survey questions, and interpretations by experts, who are free to use definitions of their own. Due to these idiosyncratic national reporting procedures and definitions, firearms that are classified as light weapons under the International Tracing Instrument might be included in some country totals.
3 In the United States, for example, civilian ownership of machine guns is legal under Class 3 licences (Capps, 2014). Legal or widespread civilian ownership of fully automatic rifles is seen in a few other countries, such as Afghanistan, Iraq, Somalia, and Yemen (Root, 2013; Small Arms Survey, 2012, p. 313). In Switzerland, military reservists may keep their assault rifles (Sturmgewehre), but only if they have been converted to semi-automatic fire (Bundesrat, 2018, art. 11.3). Some countries are becoming more restrictive. In March 2018 the Norwegian Parliament agreed to end the legal ownership of semi-automatic rifles in Norway (Ljung, 2018).
4 See, for example, Azrael et al. (2017).
References


RCMP (Royal Canadian Mounted Police). 2017. ‘Coming into Force of Quebec’s Long-gun Registry.’


RCMP (Royal Canadian Mounted Police). 2017. ‘Coming into Force of Quebec’s Long-gun Registry.’


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, policy-makers, 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.

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