

Data documentation for the COW Arms Technology Data Set 1816-2023, v. 1.1.

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This document contains basic data documentation for the COW Arms Technology Data Set 1816-2023, v1.1. Please cite the data as:

Hariri, Jacob G. and Asger M. Wingender (forthcoming): Introducing the COW Arms Technology Data, 1816–2023: Structure and Applications. Journal of Conflict Resolution. Available at <https://doi.org/10.1177/00220027261440>.

We refer readers to the paper above for a more extensive discussion of the COW Arms Technology Data Set, as well as examples of how to use it.

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2 About the data set

The COW Arms Technology Data Set contains information on the adoption of 31 important arms technologies across all states in the international system, as defined by the Correlates of War Project State System Membership (v2016), except states with less than half a million inhabitants as of 2016.¹ Table 1 provide a list of technologies in the data set. A more detailed description of them can be found in Section 4 below.

¹Andorra, Antigua and Barbuda, Bahamas, Brunei, Dominica, Federated States of Micronesia, Grenada, Iceland, Kiribati, Liechtenstein, Marshall Islands, Monaco, Nauru, Palau, Samoa, San Marino, Sao Tome and Principe, Seychelles, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Tuvalu, Vanuatu.

As shown in Table 1, the technologies fall within seven categories of arms: Small arms, machine guns, artillery, tanks, fighter aircraft, combat helicopters, and armed unmanned aerial vehicles (UAVs). The individual technologies within these groups are sorted from least to most advanced. See Hariri and Wingender (2025) for a discussion of how these technologies are selected.

Table 1: Arms technologies in the data set

[s] Small arms	[m] Machine guns	[a] Artillery	[t] Tanks
[1] Flintlock musket	[1] Hand-cranked	[1] Field guns	[1] Early tank
[2] Percussion lock musket	[2] Automatic	[2] Rifled artillery	[2] WWII tank
[3] Minié bullet rifle		[3] Steel tubes	[3] 1 st gen. battle tank
[4] Breechloading rifle		[4] Practical breechloading	[4] 2 nd gen. battle tank
[5] Tubular magazine rifle		[5] Recoil mechanism	[5] 3 rd gen. battle tank
[6] Box magazine rifle			
[7] Assault rifle			
[f] Fighter aircraft	[h] Combat helicopters	[u] Armed UAVs	[b] Ballistic missiles
[1] Early aircraft	[1] 1 st gen. helicopter	[1] Armed UAV	[1] Short range
[2] WWII era fighter	[2] 2 st gen. helicopter		[2] Intercontinental
[3] 1 st gen. jet fighters			
[4] 2 st gen. jet fighters			
[5] 3 st gen. jet fighters			
[6] 4 st gen. jet fighters			
[7] 5 st gen. jet fighters			

Notes: This table shows the technologies in the COW Arms Technology Data Set sorted from least to most advanced within each type of arm (in bold). The letters in square brackets indicate the technology type identifiers we use in the data set, and the numbers in square brackets the technology identifier within each type of technology.

2.1 History of the data set

Version 1.1: Updated to include ballistic missiles and intercontinental ballistic missiles. Some errors from v1.0 were corrected (the country codes for Indonesia and East Timor were switched, adoption of early aircraft were coded as 1817 rather than 1917 in the Netherlands, and tankettes were mistakenly coded as tanks in Albania). New data sources allowed us to reduce the number of missing observations to 0.4 percent.

Version 1.0: The COW Arms Technology Data Set, v1.0, build on data used in Hariri and Wingender (2023, 2024). Compared to the data used in these papers, The COW Arms Technology Data Set, v1.0, was extended to cover all historical states in the international system and updated

with data from 2011-2023. Fifth generation jet fighters and armed UAVs were also added the sample of technologies. Finally, we collected additional data, such that the number of missing observations were reduced from four percent to less than one percent.

2.2 Acknowledgments

We thank Ole L. Frantzen, Kjeld Galster, Karsten Skjold Petersen, Simon Papousek, and Brian Krøjgaard for helping us identify the relevant military technologies. We also thank Kerry Guerin and Debbie Smith of the Lithgow Small Arms Factory Museum (Australia) for compiling data on the diffusion of assault rifles for us. Xenia Sofie Heiberg Heurlin, Lukas Krag, Jonathan Isak Marin, Emma Lodberg Larsen, and Martin Jepsen Mejlgaard have provided excellent research assistance. We thank Scott Wolford and Jeff Carter, co-directors of the Correlates of War project, for helping us making our data compatible with the other data sets in the Correlates of War family. Hariri gratefully acknowledges financial support from the Sapere Aude Program under the Danish Council for Independent Research (grant no. 6109-00285A).

3 Codebook

The COW Arms Technology Data Set is a wide-format two-dimensional panel with annual observations of variables containing information of technology use in each state in the international system. Technology in this context refers to the individual technologies in our data set, except in one case in which technology is the total number of these technologies that a country has adopted. Observations for a given state are only included in years when the state existed as a part of the international system.

For convenience, we also provide a long-format version of the data set, a three-dimensional panel in which the unit of observation is a technology-state-year triad. As a rule of thumb, the wide format is useful if one wishes to study the effects of arms technology on other outcomes, whereas the long format is useful if one wishes to study the determinants of arms technology diffusion with individual technologies (rather than some aggregate technology level) as the unit of observation. Below, we describe the main wide-format data set. The long format data set is coded in the same way, except that the technology identifiers are contained in a separate variable. We describe these

differences at the end.

Both the wide format and the long format data set are available as Stata files (.dta) and as comma-separated files (.csv) with variable names in the first row.

3.1 Main data set (wide format)

ccode: Numerical country code as defined by the Correlates of War State System Membership v. 2016 ([Correlates of War Project 2017](#)).

statename: State name as defined by the Correlates of War State System Membership v. 2016 ([Correlates of War Project 2017](#)).

statabb: State name (abbreviated) as defined by the Correlates of War State System Membership v. 2016 ([Correlates of War Project 2017](#)).

year: Year of observation.

prefix_use: Categorical variable coding information about use of the technology indicated by the prefix. The prefix consist of a letter identifying the type of technology (e.g., *s* for small arms) and a number indicating the vintage (e.g., 4 for breech loading rifles). The technologies behind each prefix can be identified from Table 1, or from the variable labels in the data set,

We only record technology use by branches of the government (e.g., the military or the police), and not by rebels and other non-government actors. We have a minimum threshold for considering a technology to be adopted: it should be adopted by units that could be called upon to fight. So early prototypes used on an experimental basis do not count, neither do test specimens supplied to governments by producers. See [Hariri and Wingender \(2025\)](#) for further details.

The variable *prefix_use*: is coded as follows:

- 0: Not used in the given year, or in any year in the past, and not superseded by a superior technology (see below).
- 1: Used in the current year, or in any year prior to the current year, and not superseded by a superior technology (see below).
- 9: A superior technology within the same category is adopted (e.g. we code 9 for first generation main battle tanks if the second generation is adopted). See Table 1 for the list of technologies by category, sorted from least to most advanced. The ranking of technologies

can also be inferred from the prefix. When use of a technology is coded as 9, the technology may still be in use, or may be obsolete and no longer used. Cases when states leap-frog a technology can be identified in the data by checking if use jumps from 0 to 9 without ever being coded as 1.

- \therefore : Missing observations.

total_use: Number of technologies from the sample that are either currently in use, or superseded by a technology currently in use (i.e. the number of technologies coded as either 1 or 9 by the variable *prefix_use*). This number can be interpreted as a simple, ordinal measure of the arms technology level in a country. See the discussion in [Hariri and Wingender \(2025\)](#): A new data set on arms technology adoption 1816-2023 (unpublished manuscript). The variable *number* is missing if *use* is missing for at least one of the 31 technologies in the data set.

version: Version the COW Arms Technology Data Set (year of publication in parenthesis).

3.2 Long format version of the data set

Apart from the format, the long-format version of the data set only differs from the wide-format version in that the information contained in the prefixes (and labels) for the *prefix_use* variable now is encoded in separate variables. These are:

techname: Technology name. Identifies the individual technologies in our sample. Set to missing in rows with information on total technology use.

techtype: The category of arms that the technology belongs to. Set to missing in rows with information on total technology use.

4 Description of technologies

Flintlock musket. Invented in the first quarter of the 17th century, possibly in Normandy.

Percussion lock. Improved firing mechanism compared to the flintlock. Dramatically reduced misfire. Patented by Reverend Alexander Forsyth in 1807 (Scotland, Britain). The separate percussion cap was invented *c.* 1814. The percussion lock was not adopted by European armies until the 1830s.

Minié rifle. The key innovation was the conical bullet with expanding base, which made rifling of firearms practical. Loading of rifles was made easier by greased grooves around the bullets' base. The base of the bullet was hollow, so upon firing, the skirts of the bullet expanded to fit the rifling. Before the Minié rifle and its revolutionary bullet, loading of rifles was too slow and cumbersome to be practical for regular soldiers. The accuracy and range of rifles were superior to smoothbore muskets, rifles quickly replaced muskets after the invention of the conical bullet. The Minié rifle was patented by Capt. Claude Etienne Minié of the French army in 1849, and rapidly diffused to other European powers.

Breech-loading rifle. The first practical breech-loading rifle was the Dreyse needle gun, invented in Prussia in the late 1830s. It was nominally accepted in service in Prussia in 1841, but not issued to soldiers until 1848. The breech-loading rifle did not diffuse widely until its superiority was demonstrated in Prussia's military victories against Denmark and Austria in the 1860s. Breech-loading substantially increased the rate of fire, and breech-loading rifles could be loaded in prone position.

Tubular magazine rifle. The first repeating rifles, which could fire multiple shots before reloading. Several models were developed independently in the United States. The first successful versions include the Spencer and the Henry rifles, which both appeared in 1860.

Box magazine rifle. A more practical repeating rifle. The attachable box magazine facilitated a faster rate of fire. James Paris Lee patented the first box magazine in 1879 in the United States. Similar magazines were developed in the 1880s in Austria (Mannlicher), Norway (Krag-Jorgenson), and Germany (Mauser).

Assault rifle. Selective firing rifle, giving a single soldier the fire power of a machine gun. The most notorious example is the AK-47, invented in the Soviet Union. The AK-47, however, builds on the Sturmgewehr 44, developed in Nazi Germany towards the end of World War II, which we regard as the first assault rifle.

Hand-cranked machine gun. The first machine gun. The firing mechanism is operated by manually turning a handle. The first hand-cranked machine guns were developed independently in Belgium (Montigny mitrailleuse) and in the United States (The Gatling gun and the Agar "coffee mill" machine gun) in the early 1860s.

Automatic machine gun. The automatic firing mechanism increased the rate of fire 3-4 times

compared to the hand-cranked versions. The first automatic machine gun was invented by Hiram Maxim in 1884, but did not appear in European armies until around 1890. Includes heavy machine guns, typically mounted on vehicles.

Smoothbore field gun. The first piece of artillery small enough to move around on the battlefield. Charles VIII of France put the first mobile field artillery into action during his 1494 invasion of Italy. Diffused rapidly in Europe and Asia afterwards, but were practically unknown in most of sub-Saharan Africa until the continent was colonized in the late 19th century.

Rifled artillery. Rifling improved range and accuracy, and made it possible to use shells that exploded on impact. The first notable appearance were the guns used in the British bombardment of Sebastopol in the Crimean war. Rifled field guns appeared in the late 1850s in Britain, France and Prussia, and became widespread in the rest of Europe in the 1860s.

Steel tubes (artillery). Steel tubes greatly improved the durability of artillery, making larger loads possible. Alfred Krupp began to produce steel cannon in the 1840s, but found no costumers until 1856, when Egypt placed the first order. (In the same year, Krupp designed a breech-loading cannon which eventually would be adopted by the Prussian army as 6-Pfünder-Feldkanone C/61. Despite some improvements in the 1960s, the breech lock made the cannon less reliable than traditional muzzle-loaders, and the pros and cons of breech-loading was a subject of debate until the sliding breech solved the problem in 1873, see below).

Breech-loading artillery. Breech-loading made loading faster and more practical. Breech-loading cannon have been around for centuries, but were generally not very effective due to two problems. An opening in the breech made artillery less durable and reduced the loads that could be fired. Moreover, openings in the breech could not be sealed properly, which reduced muzzle velocity for a given load. Two separate technologies solved these problems. One was the Krupp sliding breech gun presented at the 1873 World's Fair, and sold to numerous countries afterwards. The other was the interrupted screw, invented by the Frenchman Charles Ragon de Bange in 1877.

Recoil mechanism for artillery. Hydraulic mechanism for absorbing recoil. Allowed for a substantially faster rate of fire because the artillery no longer had to be re-aimed before each shot. There were some early attempts to add recoil absorption to artillery in the 1880s and 1890s, but the first practical artillery piece with effective recoil absorption was the French Canone Modele 75 from 1897.

Early tank. Developed during World War I. The first tank to appear on battlefields was the British Mark I in 1916, followed by the French FT 17 in 1917, and the German A7V in 1918.

WWII era tank. Tanks did evolve somewhat in the interwar period, but the Soviet T-34 medium tank marked a new era of tank warfare. The T-34, introduced in 1940, featured heavy sloped armor, a high-velocity gun and a powerful engine. It outclassed the German tanks at the East front, and prompted both Germany and the major powers on the allied side to develop comparable tanks. We code postwar light tanks in this category as well, as they have similar effectiveness as measured by the SIPRI TIV.

First generation main battle tank. Had larger guns, heavier armor and wider tracks than their WWII predecessors. The first of this class of tank was the Soviet T-54/55, which appeared in 1948.

Second generation main battle tank. Had more powerful engines, improved armor, guns, transmission mechanisms, and sophisticated aiming and detection systems. The first tank of the second generation was the American M-60, which appeared in 1960.

Third generation main battle tank. Improved armor based on composite materials rather than steel, and advanced fire control systems. The first third generation main battle tank was the West German Leopard 2, which appeared in 1980.

Early attack aircraft. The first air attacks were conducted by pilots in small civilian planes lobbing grenades or firing pistols at enemies. Purpose-built attack aircraft arrived shortly after, during World War I. We code early attack aircraft as adopted if a country has either aircraft with onboard machine guns, or heavy bombers.

WWII era attack aircraft. A new generation of attack aircraft appeared in the 1930s. Contrary to their predecessors, they were monoplanes, had metal frames, retracting landing gear, and V-12 liquid-cooled engines. These innovations improved speed and range dramatically, and allowed them to carry heavy weaponry. The first aircraft to fulfill these requirements were the Soviet Polikarpov I-16, introduced in 1934. Other notable models include the Messerschmitt Bf109 (Germany, 1937) and the Spitfire (U.K., 1938).

First generation jet fighters. First attack aircraft to have jet engines. The first jet fighters to be introduced were the German Messerschmitt Me 262 and the British Gloster Meteor, both introduced in 1944. Note that Zarzecki (2002) does not include these early models in his classification scheme.

Second generation jet fighter. Able to maintain supersonic speeds. Improved ground attack

capabilities, and air-to-air missiles. The American F-100 was the first to be introduced, in 1954.

Third generation jet fighter. Better engines, radars, and navigation systems. The first fighters to feature variable geometry airfoils. The Soviet MiG-21, introduced in 1960, was the first of its generation.

Fourth generation jet fighter. Increased maneuverability, improved radars, precision-guided munitions, and improved navigation. The American F-14, introduced in 1972, was the first of its generation.

Fifth generation jet fighter. Small radar cross-sections (stealth), improved sensors, and super-cruise capabilities, among other things. The Lockheed Martin F-22 Raptor, introduced in 2005, was the first of its generation

First generation attack helicopter. The first dedicated attack helicopters. The first was the American AH-1, introduced in 1967.

Second generation attack helicopter. More powerful engines and weapon systems. Night/all-weather fighting capabilities. The first was the American AH-64, introduced in 1986.

Armed unmanned aerial vehicles (UAVs). Drones with attack capabilities. The first was the General Atomics MQ-1 Predator, introduced in 1995.

Ballistic missiles. A missile that follows a ballistic trajectory after launch, relying on gravity to reach its target. The earliest example is the German V-2, in service from 1944, which laid the ground work for subsequent developments in the Soviet Union and the United States.

Intercontinental ballistic missiles (ICBMs). Ballistic missiles with a range of more than 5,500 km. Developed simultaneously by the Soviet Union and the United States in the late 1950s.

5 Data sources

Below is a list of all the sources we have used to construct the data set, sorted by state and technology. The list includes all state-technology pairs in the data set, except cases when 1) the state left the international system before the technology was invented, 2) a superior technology within the same category was adopted when the state first became a member of the international system, 3) the technology had long been either obsolete or universally adopted when a became a member of the international system. In this context, we consider all 19th century technologies

either obsolete or fully adopted by 1945. We consider early tanks and early aircraft obsolete by 1950, and WWII era tanks and aircraft obsolete by 1970. Assault rifles were universally adopted by 1990. These assumptions *only* serve to reduce the number of redundant entries in the list below, and they are *not* used to code technology use in the data set.

5.1 Afghanistan

Box magazine rifle: [Scott-Keltie, ed \(1900\)](#), [Hungariae \(n.d.\)](#)

Assault rifle: [Gilbert and Joshua \(1969\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Hand-cranked machine gun: [Gelvin and Green \(2013\)](#), [Yarshater \(n.d.\)](#)

Automatic machine gun: [Adamec \(2010\)](#), [Roberts \(2003\)](#)

Recoil mechanism for artillery: [Hogg \(1974\)](#), [Scott-Keltie, ed \(1907\)](#), [Adamec \(2012\)](#), [Adamec \(2010\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Steinberg, ed \(1950\)](#)

First generation main battle tank: [Pretty and Archer, eds \(1974\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Adamec \(2012\)](#)

WWII era attack aircraft: [Bridgman, ed \(1950\)](#), [SIPRI \(n.d.\)](#)

First generation jet fighters: [Bridgman, ed \(1950\)](#), [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.2 Albania

Assault rifle: [Chivers \(2010\)](#)

Automatic machine gun: [Pearson \(2005\)](#), [Prishtina \(1921\)](#)

Recoil mechanism for artillery: [Hogg \(1974\)](#), [Prishtina \(1921\)](#)

Early tank: [League of Nations \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Pearson \(2005\)](#)

WWII era attack aircraft: [Steinberg, ed \(1950\)](#), [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.3 Algeria

Assault rifle: [Chivers \(2010\)](#), [Windrow \(2013\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Pretty and Archer, eds \(1974\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.4 Angola

Assault rifle: [Gann \(1975\)](#), [Abbott \(1988\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.5 Argentina

Flintlock musket: [Blaufarb \(2016\)](#)

Percussion lock: [Militariarg.com](#) (n.d.), [Esposito and Rava](#) (2015)

Minié rifle: [Esposito and Rava](#) (2015), [Rauch](#) (1999), [Militariarg.com](#) (n.d.)

Breech-loading rifle: [Walter](#) (1998), [Rauch](#) (1999)

Tubular magazine rifle: [Rauch](#) (1999)

Box magazine rifle: [Ball](#) (2011), [Miller](#) (2005), [Myatt](#) (1989)

Assault rifle: [English](#) (1984)

Hand-cranked machine gun: [Chivers](#) (2010), [Rauch](#) (1999), [Scientific American](#) (1876-08-19), [Kimball](#) (1881)

Automatic machine gun: [Peterson](#) (2011)

Smoothbore field gun: [Blaufarb](#) (2016)

Rifled artillery: [Wawro](#) (2002), [Rauch](#) (1999)

Steel tubes (artillery): [Villanueva](#) (2016), [Rauch](#) (1999)

Breech-loading artillery: [English](#) (1984), [Herwig](#) (1986)

Recoil mechanism for artillery: [Menne and Smith](#) (1938), [English](#) (1984), [Grant](#) (2008)

Early tank: [League of Nations](#) (n.d.), [Chamberlain and Ellis](#) (1973)

WWII era tank: [English](#) (1984), [SIPRI](#) (n.d.)

First generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Early attack aircraft: [League of Nations](#) (n.d.), [Andrade](#) (1982)

WWII era attack aircraft: [SIPRI](#) (n.d.), [Andrade](#) (1982)

First generation jet fighters: [Bridgman, ed](#) (1950); [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation jet fighter: [Zarzecki](#) (2002), [SIPRI](#) (n.d.)

Fourth generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fifth generation jet fighter: [SIPRI](#) (n.d.)

First generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Armed unmanned aerial vehicles (UAVs): [SIPRI](#) (n.d.)

Ballistic missiles: [Mettler and Reiter](#) (2013), [SIPRI](#) (n.d.)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.6 Armenia

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.7 Australia

Box magazine rifle: [Walter \(1998\)](#)

Assault rifle: [Cashner and Noon \(2013\)](#), [Lithgow Small Arms Factory Museum \(n.d.\)](#)

Automatic machine gun: [The Australia Boer War Memorial \(n.d.\)](#)

Recoil mechanism for artillery: [Hogg \(1974\)](#), [Palazzo \(2001\)](#)

Early tank: [League of Nations \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#)

WWII era tank: [Stettinius \(1944\)](#), [Foreign Trade Division, Bureau of the Census \(various years\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Epstein and Scott-Keltie, eds \(1921\)](#), [Grey \(1999\)](#)

WWII era attack aircraft: [Stettinius \(1944\)](#), [SIPRI \(n.d.\)](#)

First generation jet fighters: [Bridgman, ed \(1950\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.8 Austria

Box magazine rifle: See Austria-Hungary
Assault rifle: [Walter \(1998\)](#), [Margiotta and Keegan \(1994\)](#)
Automatic machine gun: See Austria-Hungary
Recoil mechanism for artillery: See Austria-Hungary
Early tank: [League of Nations \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#), [Mehrl and Thurner \(2025\)](#)
WWII era tank: [Steinberg, ed \(1950\)](#), [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [League of Nations \(n.d.\)](#)
WWII era attack aircraft: [Steinberg, ed \(1950\)](#), [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.9 Austria-Hungary

Flintlock musket: [Mordecai \(1860\)](#), [Morillo et al. \(2009\)](#)

Percussion lock: [Black \(1998\)](#), *Colburn's United Service Magazine and Naval and Military Journal* (1853)

Minié rifle: [Busk \(1861\)](#) p.133, [Mordecai \(1860\)](#) p. 219, [United States. Military Commission to Europe \(1862\)](#)

Breech-loading rifle: [Walter \(1998\)](#), [Hungariae \(n.d.\)](#)

Tubular magazine rifle: [Myatt \(1989\)](#), [Walter \(1998\)](#)

Box magazine rifle: [Walter \(2006\)](#), [Hungariae \(n.d.\)](#)

Hand-cranked machine gun: [Owen \(1874\)](#), [Hungariae \(n.d.\)](#), [Kimball \(1881\)](#)

Automatic machine gun: [United States Adjutant-General's Office. \(1902\)](#), [Chinn \(1951\)](#), [McCollum \(2016\)](#)

Smoothbore field gun: [Comin et al. \(2010\)](#), [Ripley and Anderson Dana \(1872\)](#)

Rifled artillery: [Nielsen et al. \(2001\)](#), [Taylor \(1862\)](#), [Ripley and Anderson Dana \(1872\)](#)

Steel tubes (artillery): [Ortner \(2007\)](#), [Abteilung \(1872\)](#)

Breech-loading artillery: [Ortner \(2007\)](#), [The New York Times \(1877\)](#)

Recoil mechanism for artillery: [Stevenson \(2002\)](#)

Early tank: [Williamson and Millett \(1996\)](#)

Early attack aircraft: [Morrow \(2009\)](#)

5.10 Azerbaijan

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.11 Baden

Flintlock musket: [Götz \(1978\)](#)

Percussion lock: [Götz \(1978\)](#)

Minié rifle: [Busk \(1861\)](#) p. 147, [Götz \(1978\)](#)

Breech-loading rifle: [Walter \(1998\)](#), [Götz \(1978\)](#)

Tubular magazine rifle: [Götz \(1978\)](#)

Hand-cranked machine gun: [Owen \(1874\)](#)

Smoothbore field gun: [Gill \(2018\)](#)

Rifled artillery: [Abteilung \(1872\)](#)

Steel tubes (artillery): [Abteilung \(1872\)](#), [Menne and Smith \(1938\)](#)

5.12 Bahrain

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#), [Walter \(1998\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [SIPRI \(n.d.\)](#), [Zarzecki \(2002\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Zarzecki \(2002\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.13 Bangladesh

Assault rifle: [Archer, ed \(1976\)](#), [Walter \(1998\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [SIPRI \(n.d.\)](#); [Zarzecki \(2002\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.14 Barbados

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.15 Bavaria

Flintlock musket: [Götz \(1978\)](#)
Percussion lock: [Busk \(1861\)](#) p. 147, [Götz \(1978\)](#)
Minié rifle: [Busk \(1861\)](#) p. 147, [Walter \(1998\)](#)
Breech-loading rifle: [Walter \(1998\)](#), [Götz \(1978\)](#)
Tubular magazine rifle: [Götz \(1978\)](#)
Hand-cranked machine gun: [Owen \(1874\)](#)
Smoothbore field gun: [Nafziger \(1993\)](#)
Rifled artillery: [Abteilung \(1872\)](#)
Steel tubes (artillery): [Abteilung \(1872\)](#)
Breech-loading artillery: [Stone \(2018\)](#)

5.16 Belarus

Assault rifle: [Margiotta and Keegan \(1994\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.17 Belgium

Percussion lock: [Bentley \(1833\)](#) p. 93, [Busk \(1861\)](#) p. 142

Minié rifle: [Walter \(1998\)](#), [Engels \(1959\)](#) p. 53

Breech-loading rifle: [Walter \(1998\)](#), [Great Britain. War Office. Intelligence Branch \(1882a\)](#)

Tubular magazine rifle: [Great Britain. War Office. Intelligence Branch \(1882a\)](#)

Box magazine rifle: [Walter \(1998\)](#), [Merritt et al. \(1892\)](#), [Myatt \(1978, 1989\)](#)

Assault rifle: [Walter \(1998\)](#)

Hand-cranked machine gun: [Owen \(1874\)](#), [Chinn \(1951\)](#), [Tackles \(1868\)](#)

Automatic machine gun: [United States Adjutant-General's Office. \(1902\)](#)

Smoothbore field gun: [General Research Division, The New York Public Library \(n.d.\)](#)

Rifled artillery: [Wawro \(2002\)](#), [Krigsmuseet \(n.d.\)](#)

Steel tubes (artillery): [Oakes \(2002\)](#), [Krigsmuseet \(n.d.\)](#)

Breech-loading artillery: [Great Britain. War Office. Intelligence Branch \(1882a\)](#), [Grant \(2008\)](#), [Monthaye \(1888\)](#)

Recoil mechanism for artillery: [Scott-Keltie, ed \(1908\)](#), [Hogg \(1974\)](#), [Lothaire \(2011\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#), [League of Nations \(n.d.\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Esteve \(2020\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Pieters \(1998\)](#)

WWII era attack aircraft: [Derry and Robinson \(2014\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.18 Belize

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#), [Walter \(1998\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.19 Benin

Assault rifle: [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)
Early tank: [Fourie \(1968\)](#)
WWII era tank: [Fourie \(1968\)](#), [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [Fourie \(1968\)](#)
WWII era attack aircraft: [Fourie \(1968\)](#)
First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.20 Bhutan

Assault rifle: [Dupuy and Blanchard \(1970\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.21 Bolivia

Flintlock musket: [Blaufarb \(2016\)](#)

Percussion lock:

Minié rifle: [Esposito \(2019\)](#)

Breech-loading rifle: [Esposito and Rava \(2016\)](#) p. 39, [Sater \(2007\)](#)

Tubular magazine rifle: [Walter \(1998\)](#)

Box magazine rifle: [Walter \(1998\)](#), [Ball \(2011\)](#) p. 57

Assault rifle: [Walter \(1998\)](#), [English \(1984\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#), [Sater \(2007\)](#)

Automatic machine gun: [De La Pedraja \(2006\)](#), [English \(1984\)](#)

Smoothbore field gun: [Blaufarb \(2016\)](#)

Rifled artillery: [Wawro \(2002\)](#), [Esposito and Rava \(2016\)](#)

Steel tubes (artillery): [Esposito and Rava \(2016\)](#), [Sater \(2007\)](#)

Breech-loading artillery: [Sater \(2007\)](#), [Farcau \(2000\)](#) p. 139

Recoil mechanism for artillery: [English \(1984\)](#), [Hogg \(1974\)](#), [Scott-Keltie, ed \(1912\)](#)

Early tank: [League of Nations \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#), [Zaloga and Morshead \(2015\)](#),
[Mehrl and Thurner \(2025\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Steinberg, ed \(1950\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Andrade \(1982\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era attack aircraft: [Steinberg, ed \(1950\)](#), [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.22 Bosnia and Herzegovina

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.23 Botswana

Assault rifle: [Dupuy and Blanchard \(1970\)](#), [Lithgow Small Arms Factory Museum \(n.d.\)](#), [Stevens \(1980\)](#), [Stevens and Van Rutten \(1981\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.24 Brazil

Flintlock musket: [Blaufarb \(2016\)](#)

Percussion lock: [Esposito and Rava \(2015\)](#) p. 37, [Scheina \(2003\)](#)

Minié rifle: [Esposito and Rava \(2015\)](#) p. 37, [Scheina \(2003\)](#)

Breech-loading rifle: [Esposito and Rava \(2015\)](#) p. 37, [Sater \(2007\)](#)

Tubular magazine rifle: [Esposito and Rava \(2015\)](#) p. 37, [Scheina \(2003\)](#)

Box magazine rifle: [Walter \(1998\)](#), [Myatt \(1989\)](#)

Assault rifle: [Walter \(1998\)](#), [Dreyfus et al. \(2010\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#), [Chivers \(2010\)](#)

Automatic machine gun: [McCann \(2003\)](#) p. 199-200, [United States Adjutant-General's Office. \(1902\)](#), [Bulgarian Artillery \(n.d.\)](#), [Bisher \(2016\)](#)

Smoothbore field gun: [Blaufarb \(2016\)](#)

Rifled artillery: [Wawro \(2002\)](#), [Esposito and Rava \(2015\)](#) p. 37, [Rauch \(1999\)](#)

Steel tubes (artillery): [James \(2012\)](#), [Herwig \(1986\)](#), [Grant \(2008\)](#) p. 228

Breech-loading artillery: [Herwig \(1986\)](#)

Recoil mechanism for artillery: [Menne and Smith \(1938\)](#), [Grant \(2008\)](#) p. 230

Early tank: [Chamberlain and Ellis \(1973\)](#), [League of Nations \(n.d.\)](#)

WWII era tank: [Foreign Trade Division, Bureau of the Census \(various years\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Andrade \(1982\)](#)

WWII era attack aircraft: [Andrade \(1982\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.25 Bulgaria

Box magazine rifle: [Merritt et al. \(1892\)](#), [Vuchkov \(2010\)](#) p. 54

Assault rifle: [Walter \(1998\)](#), [Margiotta and Keegan \(1994\)](#), [Kahaner \(2010\)](#)

Automatic machine gun: [Chinn \(1951\)](#), [Corbin \(1901\)](#) p. 133

Recoil mechanism for artillery: [Stocker and Grant \(2003\)](#), [United States War Department \(1905\)](#)

Early tank: [League of Nations \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#), [Kliment and Francev \(1997\)](#)

WWII era tank: [Zaloga \(2013c\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Sutton and Wood \(2017\)](#), [Tucker \(2019\)](#)

WWII era attack aircraft: [League of Nations \(n.d.\)](#), [Donald \(2004\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.26 Burkina Faso

Assault rifle: [Stevens \(1980\)](#), [Stevens and Van Rutten \(1981\)](#)
WWII era tank: [Fourie \(1968\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [Fourie \(1968\)](#), [SIPRI \(n.d.\)](#)
First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.27 Burundi

Assault rifle: [Stevens \(1980\)](#), [Stevens and Van Rutten \(1981\)](#), [Dupuy and Blanchard \(1970\)](#)
WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [Fourie \(1968\)](#)
First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.28 Cambodia

Assault rifle: [Walter \(1998\)](#)
WWII era tank: [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.29 Cameroon

Assault rifle: [Dupuy and Blanchard \(1970\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Early tank: [Fourie \(1968\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.30 Canada

Box magazine rifle: [Government of Canada \(2017\)](#)

Assault rifle: [Canadiansoldiers.com \(n.d.\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Automatic machine gun: [Government of Canada \(2017\)](#)

Recoil mechanism for artillery: [Government of Canada \(2017\)](#), [Hogg \(1974\)](#)

Early tank: [League of Nations \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#), [Foreign Trade Division, Bureau of the Census \(various years\)](#)

WWII era tank: [Haskew \(2016\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [League of Nations \(n.d.\)](#), [Bercuson \(2024\)](#)
WWII era attack aircraft: [Government of Canada \(n.d.\)](#), [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.31 Cape Verde

Assault rifle: [Abbott \(2011\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.32 Central African Republic

Assault rifle:

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.33 Chad

Assault rifle: [Dupuy and Blanchard \(1970\)](#), [Clayton \(1999\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#), [SIPRI \(n.d.\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
 Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
 Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
 First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
 Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
 Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
 Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
 Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.34 Chile

Flintlock musket: [Blaufarb \(2016\)](#)
 Percussion lock:
 Minié rifle: [Scheina \(2003\)](#) p. 377, [Stoker \(2007\)](#)
 Breech-loading rifle: [Thombs and Barrett \(2012\)](#), [Walter \(1998\)](#), [Farcau \(2000\)](#) p. 43
 Tubular magazine rifle: [Farcau \(2000\)](#) p. 43, [Grant \(2008\)](#) p. 123
 Box magazine rifle: [Grant \(2008\)](#) p. 123, [Walter \(1998\)](#)
 Assault rifle: [Walter \(1998\)](#), [English \(1984\)](#)
 Hand-cranked machine gun: [Farcau \(2000\)](#) p. 43, [Scientific American \(1876-08-19\)](#)
 Automatic machine gun: [English \(1984\)](#), [Albert and Henderson \(1988\)](#)
 Smoothbore field gun: [Blaufarb \(2016\)](#)
 Rifled artillery: [Esposito and Rava \(2016\)](#), [Roberts \(2012\)](#)
 Steel tubes (artillery): [Herwig \(1986\)](#), [Krause \(1992\)](#)
 Breech-loading artillery: [Farcau \(2000\)](#) p. 43, [Sater \(2007\)](#)
 Recoil mechanism for artillery: [Grant \(2008\)](#) p. 228, [Scott-Keltie, ed \(1908\)](#), [English \(1984\)](#)
 Early tank: [League of Nations \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#), [English \(1984\)](#)
 WWII era tank: [English \(1984\)](#), [SIPRI \(n.d.\)](#)
 First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
 Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
 Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
 Early attack aircraft: [English \(1984\)](#), [English \(1984\)](#), [Andrade \(1982\)](#)

WWII era attack aircraft: [Andrade \(1982\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.35 China

Flintlock musket: [Graff and Higham \(2012\)](#)

Percussion lock: [Graff and Higham \(2012\)](#)

Minié rifle: [Graff and Higham \(2012\)](#) p. 156-157, [Wilson \(1868\)](#)

Breech-loading rifle: [Walter \(1998\)](#), [Grant \(2008\)](#) p. 29, [Wilson \(1868\)](#)

Tubular magazine rifle: [US government \(1880\)](#) p. 312, [Walter \(2006\)](#)

Box magazine rifle: [US government \(1880\)](#) p. 312, [Walter \(2006\)](#), [Miller \(2005\)](#)

Assault rifle: [Walter \(1998\)](#), [Miller \(2005\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#), [Chivers \(2010\)](#), [Kimball \(1881\)](#)

Automatic machine gun: [Gander \(1993b\)](#) p. 26, [Maximgun.de \(n.d.\)](#),

Smoothbore field gun: [Cipolla \(1965\)](#), [Black \(1998\)](#) p. 52

Rifled artillery: [Roberts \(2012\)](#), [US Government \(1878\)](#)

Steel tubes (artillery): [Krause \(1992\)](#), [Menne and Smith \(1938\)](#), [Michaelis \(1872\)](#)

Breech-loading artillery: [Grant \(2008\)](#) p. 30, [Scott-Keltie, ed \(1886\)](#)

Recoil mechanism for artillery: [Grant \(2008\)](#), [Hogg \(1974\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#), [Zaloga and Morshead \(2015\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era tank: [Foreign Trade Division, Bureau of the Census \(various years\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Andersson \(2008\)](#) p. 10-14, [Mehrl and Thurner \(2025\)](#)

WWII era attack aircraft: [Andersson \(2008\)](#) p. 134, [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [International Institute for Strategic Studies \(2017\)](#), [International Institute for Strategic Studies \(2018\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [Rawnsley, Adam \(2016\)](#), [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2005\)](#), [International Institute for Strategic Studies \(2011\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.36 Colombia

Flintlock musket: [Blaufarb \(2016\)](#)

Percussion lock:

Minié rifle: [Esposito \(2019\)](#)

Breech-loading rifle: [Thombs \(2012\)](#), [McCracken Research Library \(n.d.\)](#)

Tubular magazine rifle:

Box magazine rifle: [De La Pedraja \(2006\)](#) p. 49, [Herwig \(1986\)](#)

Assault rifle: [English \(1984\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Hand-cranked machine gun: [Museo Militar de Colombia \(n.d.\)](#)

Automatic machine gun: [Museo Militar de Colombia \(n.d.\)](#), [De La Pedraja \(2006\)](#) p. 8

Smoothbore field gun: [Blaufarb \(2016\)](#)

Rifled artillery: [Wawro \(2002\)](#)

Steel tubes (artillery):

Breech-loading artillery: [Monthly](#) (1904)

Recoil mechanism for artillery: [English](#) (1984), [Hogg](#) (1974)

Early tank: [English](#) (1984), Foreign Trade Division, Bureau of the Census (various years)

WWII era tank: [English](#) (1984), [SIPRI](#) (n.d.), [Pretty and Archer](#), eds (1974)

First generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Early attack aircraft: [English](#) (1984), [Andrade](#) (1982)

WWII era attack aircraft: [SIPRI](#) (n.d.); [Bridgman](#), ed (1950), [Andrade](#) (1982)

First generation jet fighters: [Zarzecki](#) (2002); [SIPRI](#) (n.d.); [Bridgman](#), ed (1950)

Second generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fourth generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fifth generation jet fighter: [SIPRI](#) (n.d.)

First generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Armed unmanned aerial vehicles (UAVs): [SIPRI](#) (n.d.)

Ballistic missiles: [Mettler and Reiter](#) (2013), [SIPRI](#) (n.d.)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter](#) (2013), [SIPRI](#) (n.d.)

5.37 Comoros

Assault rifle:

First generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

First generation jet fighters: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fourth generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.38 Congo

Assault rifle: [Gilbert and Joshua \(1969\)](#), [Chivers \(2010\)](#)

WWII era tank: [Fourie \(1968\)](#), [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.39 Costa Rica

Box magazine rifle: [Ball \(2011\)](#) p. 109, [Walter \(1998\)](#)

Assault rifle: [English \(1984\)](#), [Edelman and Hutchcroft \(1984\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Automatic machine gun: [English \(1984\)](#), [James D. Julia Antique Auction house \(2014b\)](#)

Breech-loading artillery: [Schoonover and Schoonover \(2000\)](#)

Recoil mechanism for artillery: [Hogg \(1974\)](#)

Early tank: [League of Nations \(n.d.\)](#)

WWII era tank: [English \(1984\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [English \(1984\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [English \(1984\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [English \(1984\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [English \(1984\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Andrade \(1982\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [English \(1984\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [English \(1984\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [English \(1984\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [English \(1984\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.40 Croatia

Second generation main battle tank: [Foss, ed \(1999\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.41 Cuba

Box magazine rifle: [Tone \(1998\)](#)
Assault rifle: [English \(1984\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)
Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#)
Automatic machine gun: [English \(1984\)](#)
Breech-loading artillery: [Tone \(1998\)](#)
Recoil mechanism for artillery: [English \(1984\)](#), [Hogg \(1974\)](#)
Early tank: [League of Nations \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#)
WWII era tank: [Spoelstra \(n.d.\)](#), [English \(1984\)](#), [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [Andrade \(1982\)](#)
WWII era attack aircraft: [Andrade \(1982\)](#), [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.42 Cyprus

Assault rifle: [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.43 Czech Republic

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.44 Czechoslovakia

Box magazine rifle: [Miller \(2005\)](#), [Ball \(2011\)](#) p. 120, [Margiotta and Keegan \(1994\)](#)

Assault rifle: [Walter \(1998\)](#), [Bishop \(2002\)](#) p. 128.

Automatic machine gun: [Epstein and Scott-Keltie, eds \(1923\)](#)

Recoil mechanism for artillery: [Epstein and Scott-Keltie, eds \(1923\)](#)

Early tank: [Kliment and Francev \(1997\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Zaloga and Rodríguez \(2022\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Titz and Ward \(1971\)](#) p. 1, [Taylor \(1969\)](#)

WWII era attack aircraft: [Titz and Ward \(1971\)](#), [Taylor \(1969\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#), [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.45 Democratic Republic of the Congo

Assault rifle: [Abbott \(2014\)](#), [Stapleton \(2013\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.46 Denmark

Flintlock musket: [Møller \(1963\)](#) p. 14, [Walbom-Pramvig \(1986\)](#) p. 15

Percussion lock: [Løvschall et al. \(1977\)](#) p. 152, [Satia \(2018\)](#), [Hansen \(1946\)](#), [Nielsen \(2014\)](#)

Minié rifle: [Møller \(1963\)](#) p. 22, [Løvschall et al. \(1977\)](#) p. 160

Breech-loading rifle: [Walter \(1998\)](#), [Great Britain. War Office. Intelligence Division \(1874a\)](#), [Myatt \(1989\)](#)

Tubular magazine rifle: [Løvschall et al. \(1977\)](#), [Walter \(2006\)](#) p. 128

Box magazine rifle: [US government \(1880\)](#) p. 312, [Løvschall et al. \(1977\)](#), [Walter \(1998\)](#), [Ford \(1998\)](#) p. 72

Assault rifle: [Walter \(1998\)](#), [Margiotta and Keegan \(1994\)](#)

Hand-cranked machine gun: [Great Britain. War Office. Intelligence Division \(1874a\)](#), [Scientific American \(1876-08-19\)](#), [Chivers \(2010\)](#), [US government \(1880\)](#)

Automatic machine gun: [Chinn \(1951\)](#), [Nielsen \(2008\)](#)

Smoothbore field gun: [Comin et al. \(2010\)](#)

Rifled artillery: [Frantzen et al. \(1997\)](#), [Walbom-Pramvig \(1986\)](#) p. 39, [Roberts \(2012\)](#), [Bjerg and Frantzen \(2008\)](#)

Steel tubes (artillery): [Frantzen et al. \(1997\)](#), [Nielsen et al. \(2001\)](#) p. 99

Breech-loading artillery: [Menne and Smith \(1938\)](#), [Frantzen et al. \(1997\)](#), [Nielsen et al. \(2001\)](#) p. 92

Recoil mechanism for artillery: [Nielsen et al. \(2001\)](#), [Stevenson \(2002\)](#)

Early tank: [League of Nations](#) (n.d.), [Chamberlain and Ellis](#) (1973), [Forsvar](#) (2008)

WWII era tank: [Forsvar](#) (2008), [SIPRI](#) (n.d.)

First generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation main battle tank: [Zarzecki](#) (2002), [SIPRI](#) (n.d.)

Third generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Early attack aircraft: [Kongstad](#) (2008) p. 26, [Kofoed](#) (1962) p. 26

WWII era attack aircraft: [Schröder](#) (2004) p. 161, [Danmarks Flymuseum](#) (n.d.) [Bridgman](#), ed (1950)

First generation jet fighters: [Zarzecki](#) (2002); [SIPRI](#) (n.d.), [Bridgman](#), ed (1950)

Second generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fourth generation jet fighter: [Zarzecki](#) (2002), [SIPRI](#) (n.d.)

Fifth generation jet fighter: [SIPRI](#) (n.d.)

First generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Armed unmanned aerial vehicles (UAVs): [SIPRI](#) (n.d.)

Ballistic missiles: [Mettler and Reiter](#) (2013), [SIPRI](#) (n.d.)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter](#) (2013), [SIPRI](#) (n.d.)

5.47 Djibouti

Assault rifle: [Dupuy and Blanchard](#) (1970), [Hobart](#), ed (1974); [Archer](#), ed (1976, 1977, 1978)

First generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

First generation jet fighters: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fourth generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fifth generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

First generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.48 Dominican Republic

Breech-loading rifle: [Thombs and Barrett \(2012\)](#); [McCracken Research Library \(n.d.\)](#)

Tubular magazine rifle: [GlobalSecurity \(n.d.\)](#)

Box magazine rifle: [GlobalSecurity \(n.d.\)](#); [English \(1984\)](#); [Walter \(1998\)](#)

Assault rifle: [English \(1984\)](#); [Walter \(1998\)](#)

Hand-cranked machine gun: [McCracken Research Library \(n.d.\)](#), [Scientific American \(1876-08-19\)](#)

Automatic machine gun: [English \(1984\)](#)

Smoothbore field gun: [Blaufarb \(2016\)](#)

Rifled artillery: [Wawro \(2002\)](#)

Steel tubes (artillery): [GlobalSecurity \(n.d.\)](#)

Breech-loading artillery: [GlobalSecurity \(n.d.\)](#); [English \(1984\)](#)

Recoil mechanism for artillery: [English \(1984\)](#)

Early tank: [Steinberg, ed \(1950\)](#); [English \(1984\)](#)

WWII era tank: [Steinberg, ed \(1950\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#); [English \(1984\)](#), [Andrade \(1982\)](#)

WWII era attack aircraft: [English \(1984\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.49 East Timor

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.50 Ecuador

Flintlock musket: [Blaufarb \(2016\)](#)
Percussion lock:
Minié rifle: [Esposito \(2019\)](#)
Breech-loading rifle: [McCracken Research Library \(n.d.\)](#)
Tubular magazine rifle:
Box magazine rifle: [English \(1984\)](#), [Ball \(2011\)](#) p. 217
Assault rifle: [English \(1984\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)
Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#)

Automatic machine gun: [English \(1984\)](#); [United States Adjutant-General's Office. \(1902\)](#)

Smoothbore field gun: [Blaufarb \(2016\)](#)

Rifled artillery: [Wawro \(2002\)](#)

Steel tubes (artillery): [Centro de Estudios Históricos del Ejército \(n.d.\)](#)

Breech-loading artillery: [Centro de Estudios Históricos del Ejército \(n.d.\)](#)

Recoil mechanism for artillery: [Herwig \(1986\)](#); [English \(1984\)](#), [Hogg \(1974\)](#)

Early tank: [League of Nations \(n.d.\)](#); [Chamberlain and Ellis \(1973\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Andrade \(1982\)](#)

WWII era attack aircraft: [Andrade \(1982\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.51 Egypt

Percussion lock: [Dunn \(1997\)](#)

Minié rifle: [Stocker and Grant \(2003\)](#); [Dunn \(1997\)](#)

Breech-loading rifle: [Dunn \(1997\)](#); [Walter \(1998\)](#)

Tubular magazine rifle: [Walter \(1998\)](#)

Box magazine rifle: [Elgood \(2018\)](#)

Assault rifle: [Walter \(1998\)](#); [Margiotta and Keegan \(1994\)](#), [Chivers \(2010\)](#)
Hand-cranked machine gun: [Dunn \(1997\)](#), [Chivers \(2010\)](#), [Dunn \(2004\)](#)
Automatic machine gun: [Elgood \(2018\)](#)
Steel tubes (artillery): [Krause \(1992\)](#) p. 59
Breech-loading artillery: [Dunn \(1997\)](#)
Recoil mechanism for artillery: [Elgood \(2018\)](#)
Early tank: [Chamberlain and Ellis \(1973\)](#); [Zaloga and Katz \(1996\)](#)
WWII era tank: [Zaloga and Katz \(1996\)](#); [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [League of Nations \(n.d.\)](#), [Morewood \(1996\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Derry and Robinson \(2014\)](#), [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.52 El Salvador

Breech-loading rifle: [McCracken Research Library \(n.d.\)](#); [Ball \(2011\)](#)
Tubular magazine rifle: [Walter \(1998\)](#)
Box magazine rifle: [Ball \(2011\)](#) p. 129, [Walter \(1998\)](#)
Assault rifle: [Gillespie \(2011\)](#); [English \(1984\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#), [Kohn \(1999\)](#)

Automatic machine gun: [Kohn \(1999\)](#); [Bisher \(2016\)](#), [James D. Julia Antique Auction house \(2014a\)](#)

Smoothbore field gun: [Blaufarb \(2016\)](#)

Rifled artillery: [Wawro \(2002\)](#)

Steel tubes (artillery):

Breech-loading artillery: [Schoonover \(2012\)](#) p. 83

Recoil mechanism for artillery: [English \(1984\)](#), [Hogg \(1974\)](#)

Early tank: [League of Nations \(n.d.\)](#); [English \(1984\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Holden \(2004\)](#) p. 66, [League of Nations \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Gillespie \(2011\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.53 Equatorial Guinea

Assault rifle: [Dupuy and Blanchard \(1970\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.54 Eritrea

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Connell and Killion \(2011\)](#), [Foss, ed \(1999\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Connell and Killion \(2011\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Connell and Killion \(2011\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Connell and Killion \(2011\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Connell and Killion \(2011\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.55 Estonia

Box magazine rifle: [Ball \(2011\)](#) p. 131, [Thomas and Boltowsky \(2019\)](#), [Kilinskas \(2024\)](#)

Automatic machine gun: [Thomas and Boltowsky \(2019\)](#), [Republic of Estonia Defence Forces \(n.d.a\)](#), [Kilinskas \(2024\)](#)

Recoil mechanism for artillery: [Republic of Estonia Defence Forces \(n.d.a\)](#), [Kilinskas \(2024\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#); [League of Nations \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Republic of Estonia Defence Forces \(n.d.b\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.56 Ethiopia

Box magazine rifle: [Featherstone \(1992\)](#) p. 24

Assault rifle: [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Automatic machine gun: [Pankhurst \(1965\)](#), [Vandervort \(1998\)](#) p. 160

Breech-loading artillery: [Vandervort \(1998\)](#) p. 23 , [Pankhurst \(1965\)](#)

Recoil mechanism for artillery: [Marcus \(1983\)](#), [Zewde \(2002\)](#), [Stapleton \(2018\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#); [Kliment and Francev \(1997\)](#), [Stapleton \(2018\)](#)

WWII era tank: [Kliment and Francev \(1997\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [Omissi \(1990\)](#), [Zewde \(2002\)](#), [Stapleton \(2018\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.57 Fiji

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.58 Finland

Box magazine rifle: [Walter \(1998\)](#); [Miller \(2005\)](#)

Assault rifle: [Walter \(1998\)](#); [Miller \(2005\)](#), [Chivers \(2010\)](#)

Automatic machine gun: [Walter \(1998\)](#), [Epstein and Scott-Keltie, eds \(1923\)](#)

Breech-loading artillery: [Jaeger Platoon \(n.d.\)](#)

Recoil mechanism for artillery: [Jaeger Platoon \(n.d.\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#), [Epstein and Scott-Keltie, eds \(1923\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era tank: [Jaeger Platoon \(n.d.\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Taylor \(1969\)](#)

WWII era attack aircraft: [Bridgman, ed \(1950\)](#), [Nenye et al. \(2016\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#),

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.59 France

Flintlock musket: [Peterson \(1964\)](#) p.131, [Morillo et al. \(2009\)](#) [Margiotta and Keegan \(1994\)](#), [Reid \(1973\)](#),

Percussion lock: [Lindsay \(1968\)](#), [Bentley \(1833\)](#), [Shann et al. \(1991\)](#) p. 34, [Walter \(1998\)](#)

Minié rifle: [Myatt \(1989\)](#)

Breech-loading rifle: [Shann et al. \(1991\)](#); [Walter \(1998\)](#)

Tubular magazine rifle: [Myatt \(1989\)](#)

Box magazine rifle: [US government \(1880\)](#) p. 311, [Vandervort \(1998\)](#) p. 48, [Myatt \(1989\)](#)

Assault rifle: [Walter \(1998\)](#); [Margiotta and Keegan \(1994\)](#)

Hand-cranked machine gun: [Owen \(1874\)](#), [Myatt \(1978\)](#) p. 10, [Scientific American \(1876-08-19\)](#)

Automatic machine gun: [Pegler \(2013\)](#), [Pauly and Pauly \(2004\)](#) p. 132

Smoothbore field gun: [Black \(2002\)](#) p. 37, [Hill \(1992\)](#)

Rifled artillery: [Hogg \(1974\)](#), [Shann et al. \(1991\)](#) p. 20, [Brodie B. and Brodie \(1973\)](#) p. 140

Steel tubes (artillery): [Brodie B. and Brodie \(1973\)](#) p. 141, [Berend and Berend \(2013\)](#) p. 224, [Smith \(2006\)](#) p. 351

Breech-loading artillery: [Great Britain War Office. Intelligence Division \(1877\)](#), [Hogg \(1998\)](#), [Monthaye \(1888\)](#)

Recoil mechanism for artillery: [Hogg \(1974\)](#)

Early tank: [Williamson and Millett \(1996\)](#), [Chamberlain and Ellis \(1973\)](#)

WWII era tank: [Seignon and Robinson \(2022\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Loftin \(1985\)](#), [Nowarra \(1959\)](#) p. 76

WWII era attack aircraft: [Kirkland \(1993\)](#), [Jackson \(2002\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2023a\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.60 Gabon

Assault rifle: [Dupuy and Blanchard \(1970\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter:[Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.61 Gambia

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#), [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.62 Georgia

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.63 German Democratic Republic

Assault rifle: [Chivers \(2010\)](#), [Walter \(1998\)](#)

Automatic machine gun: See Germany

Recoil mechanism for artillery: See Germany

WWII era tank: See Germany

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: See Germany

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.64 German Federal Republic

Assault rifle: [Miller \(2005\)](#), [Myatt \(1989\)](#), [Cashner and Noon \(2013\)](#)

Automatic machine gun: See Germany

Recoil mechanism for artillery: See Germany

WWII era tank: See Germany

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: See Germany

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.65 Germany

Flintlock musket: [Lenk et al. \(1965\)](#) p. 53

Percussion lock: [Pericoli and Glover \(1973\)](#) p. 74, [Zabecki \(2014\)](#) p. 647, [Mordecai \(1860\)](#) p. 159

Minié rifle: [Zabecki \(2014\)](#), [Ford \(1998\)](#) p. 23, [Walter \(1998\)](#), [Busk \(1861\)](#) p. 136

Breech-loading rifle: [Zabecki \(2014\)](#), [Ford \(1998\)](#) p. 23, [Walter \(1998\)](#), [Busk \(1861\)](#) p. 136

Tubular magazine rifle: [Walter \(1998\)](#), [Zabecki \(2014\)](#) p. 643, [Myatt \(1989\)](#)

Box magazine rifle: [Zabecki \(2014\)](#), [US government \(1880\)](#) p. 312, [Myatt \(1989\)](#), [Ball \(2011\)](#)

Assault rifle: [Miller \(2005\)](#), [Myatt \(1989\)](#)

Hand-cranked machine gun: [Owen \(1874\)](#); [Scientific American \(1876-08-19\)](#); [Longstaff and Atteridge \(1917\)](#), [US government \(1880\)](#)

Automatic machine gun: [Gander \(1993b\)](#), [Maximgun.de \(n.d.\)](#)

Smoothbore field gun: [Fay \(1917\)](#)

Rifled artillery: [Carman \(1955\)](#) p.52, [Margiotta and Keegan \(1994\)](#) p. 97

Steel tubes (artillery): [Betz \(2003\)](#) p. 76, [Martin, ed \(1876\)](#), [Krause \(1992\)](#), [Nielsen et al. \(2001\)](#) 89

Breech-loading artillery: [Monthaye \(1888\)](#); [Great Britain. War Office. Intelligence Division \(1874b\)](#)

Recoil mechanism for artillery: [Stevenson \(2002\)](#), [Jager \(2001\)](#) p. 18

Early tank: [Williamson and Millett \(1996\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Philpott \(1981\)](#) p. 12, [Loftin \(1985\)](#)

WWII era attack aircraft: [Donald \(2004\)](#), [Philpott \(1981\)](#), [Jackson \(2002\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.66 Ghana

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#); [Gilbert and Joshua \(1969\)](#); [Dupuy and Blanchard \(1970\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Fourie \(1968\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Fourie \(1968\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Fourie \(1968\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.67 Greece

Percussion lock: [Polyzois et al. \(1999\)](#)

Minié rifle: [Polyzois et al. \(1999\)](#)

Breech-loading rifle: [Polyzois et al. \(1999\)](#); [Cooke \(1876\)](#), [Smith and Smith \(1960\)](#)

Tubular magazine rifle: [Polyzois et al. \(1999\)](#), [Walter \(1998\)](#)

Box magazine rifle: [Walter \(1998\)](#); [United States War Department \(1905\)](#), [Davis \(1897\)](#)

Assault rifle: [Walter \(1998\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#), [Owen \(1874\)](#), [HOOTON \(2017\)](#)

Automatic machine gun: [United States War Department \(1905\)](#); [Chinn \(1951\)](#); [Polyzois et al. \(1999\)](#), [HOOTON \(2017\)](#)

Rifled artillery: [Polyzois et al. \(1999\)](#)

Steel tubes (artillery): [Polyzois et al. \(1999\)](#)

Breech-loading artillery: [Menne and Smith \(1938\)](#); [Monthaye \(1888\)](#)

Recoil mechanism for artillery: [Stocker and Grant \(2003\)](#); [Scott-Keltie, ed \(1908\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#)

WWII era tank: [Ware and Delf \(2014\)](#); [SIPRI \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Hellenic Air Force \(n.d.\)](#)

WWII era attack aircraft: [Bridgman, ed \(1950\)](#), [Hellenic Air Force \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.68 Guatemala

Flintlock musket: [Blaufarb \(2016\)](#)
Percussion lock: [Holden \(2004\)](#) p. 52
Minié rifle: [Holden \(2004\)](#) p. 52
Breech-loading rifle: [Holden \(2004\)](#) p. 52
Tubular magazine rifle: [Holden \(2004\)](#) p. 52
Box magazine rifle: [Ball \(2011\)](#) p. 237, [English \(1984\)](#)
Assault rifle: [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)
Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#)
Automatic machine gun: [Kohn \(1999\)](#)
Smoothbore field gun: [Blaufarb \(2016\)](#)
Rifled artillery: [Wawro \(2002\)](#)
Steel tubes (artillery):
Breech-loading artillery: [Schoonover \(2012\)](#) p. 83
Recoil mechanism for artillery: [Schoonover \(2012\)](#) p. 83, [Hogg \(1974\)](#)
Early tank: [League of Nations \(n.d.\)](#); [Chamberlain and Ellis \(1973\)](#), Foreign Trade Division, Bureau of the Census (various years)
WWII era tank: [Steinberg, ed \(1950\)](#); [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [League of Nations \(n.d.\)](#); [English \(1984\)](#), [Andrade \(1982\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.69 Guinea

Assault rifle: [Gilbert and Joshua \(1969\)](#)
WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [Fourie \(1968\)](#)
First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.70 Guinea-Bissau

Assault rifle: [Muehlenbeck \(2016\)](#); [Clayton \(1999\)](#)
WWII era tank: [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.71 Guyana

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#); [Stevens \(1980\)](#); [Stevens and Van Ruten \(1981\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.72 Haiti

Flintlock musket: [Blaufarb \(2016\)](#)

Percussion lock:

Minié rifle:

Breech-loading rifle:

Tubular magazine rifle: [Heinl and Heinl \(2023\)](#)

Box magazine rifle: [Walter \(1998\)](#), [Ball \(2011\)](#) p. 240

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#), [Heinl and Heinl \(2023\)](#)

Automatic machine gun: [La Rédaction de l'Almanach de Gotha, ed \(1902\)](#); [English \(1984\)](#)

Smoothbore field gun: [Blaufarb \(2016\)](#)

Rifled artillery: [Wawro \(2002\)](#)

Steel tubes (artillery):

Breech-loading artillery: [Scott-Keltie, ed \(1902\)](#)

Recoil mechanism for artillery: [Hogg \(1974\)](#)

Early tank: [League of Nations \(n.d.\)](#); [English \(1984\)](#), Foreign Trade Division, Bureau of the Census (various years)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Andrade \(1982\)](#), [Bridgman, ed \(1950\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#), [Andrade \(1982\)](#)

First generation jet fighters: [Bridgman, ed \(1950\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.73 Hanover

Flintlock musket: [Götz \(1978\)](#)

Percussion lock: [US Military \(1830\)](#) p. 600, [Götz \(1978\)](#)

Minié rifle: [Götz \(1978\)](#)

Breech-loading rifle: [Götz \(1978\)](#)

Tubular magazine rifle: [Götz \(1978\)](#)

Hand-cranked machine gun: [Owen \(1874\)](#)

Smoothbore field gun: [Hofschröer \(1989\)](#)

Rifled artillery: [\(n.d.\)](#)

Steel tubes (artillery): [\(n.d.\)](#)

5.74 Hesse Electoral

Flintlock musket: [Götz \(1978\)](#)

Percussion lock: [Götz \(1978\)](#)

Minié rifle: [Götz \(1978\)](#)

Breech-loading rifle: [Götz \(1978\)](#)

Tubular magazine rifle: [Götz \(1978\)](#)

Hand-cranked machine gun: [Owen \(1874\)](#)

Smoothbore field gun: [Witzel \(2007\)](#)

Rifled artillery: [Wawro \(2002\)](#); [für Kriegsgeschichte 1868 \(2016\)](#)

Steel tubes (artillery): [für Kriegsgeschichte 1868 \(2016\)](#)

5.75 Hesse Grand Ducal

Flintlock musket: [Götz \(1978\)](#)

Percussion lock: [Götz \(1978\)](#)
Minié rifle: [Götz \(1978\)](#), [Busk \(1861\)](#) p. 149
Breech-loading rifle: [Götz \(1978\)](#)
Tubular magazine rifle: [Götz \(1978\)](#)
Hand-cranked machine gun: [Owen \(1874\)](#)
Smoothbore field gun: [Gill \(2018\)](#)
Rifled artillery: [Abteilung \(1872\)](#)
Steel tubes (artillery): [Abteilung \(1872\)](#)

5.76 Honduras

Breech-loading rifle: [McCracken Research Library \(n.d.\)](#); [Knauerhase \(1975\)](#)
Tubular magazine rifle:
Box magazine rifle: [Walter \(1998\)](#), [Ball \(2011\)](#) p. 241
Assault rifle: [English \(1984\)](#), [Gillespie \(2011\)](#), [Walter \(1998\)](#), [Stevens \(1980\)](#), [Stevens and Van Rutten \(1981\)](#)
Hand-cranked machine gun: [Langley and Schoonover \(2014\)](#), [Scientific American \(1876-08-19\)](#)
Automatic machine gun: [Kohn \(1999\)](#); [English \(1984\)](#)
Smoothbore field gun: [Blaufarb \(2016\)](#)
Rifled artillery: [Wawro \(2002\)](#)
Steel tubes (artillery):
Breech-loading artillery: [Langley and Schoonover \(2014\)](#), [Jowett and Walsh \(2018\)](#)
Recoil mechanism for artillery:
Early tank: [League of Nations \(n.d.\)](#); [SIPRI \(n.d.\)](#)
WWII era tank: [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(1973\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [English \(1984\)](#), [Andrade \(1982\)](#)
WWII era attack aircraft: [Andrade \(1982\)](#), [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Gillespie \(2011\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.77 Hungary

Box magazine rifle: See Austria-Hungary
Assault rifle: [Walter \(1998\)](#), [Hungariae \(n.d.\)](#), [Chivers \(2010\)](#)
Automatic machine gun: See Austria-Hungary
Recoil mechanism for artillery: See Austria-Hungary
Early tank: [League of Nations \(n.d.\)](#); [Chamberlain and Ellis \(1973\)](#)
WWII era tank: [Chamberlain and Ellis \(1973\)](#), [Seignon and Robinson \(2022\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [League of Nations \(n.d.\)](#), [Sarhidai and Punka \(1996\)](#) p. 3, [Mehrl and Thurner \(2025\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.78 India

Assault rifle: [Chivers \(2010\)](#)

WWII era tank: [Zaloga \(2008\)](#), [Roy \(2012\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Singh \(1974\)](#)

WWII era attack aircraft: [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#), [Kristensen and Korda \(2022\)](#); [Kristensen et al. \(2024a\)](#), [International Institute for Strategic Studies \(2023b\)](#),

5.79 Indonesia

Assault rifle: [Walter \(1998\)](#); [Margiotta and Keegan \(1994\)](#), [Chivers \(2010\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.80 Iran

Percussion lock: [Elgood and Blackmore \(1995\)](#), [US Government \(1878\)](#), [Encoclopædia Iranica \(n.d.\)](#)

Minié rifle: [Encoclopædia Iranica \(n.d.\)](#), [US Government \(1878\)](#), [Wheeler \(1871\)](#)

Breech-loading rifle: [US Government \(1878\)](#), [Parry et al. \(1975\)](#), [Elgood and Blackmore \(1995\)](#), [Encoclopædia Iranica \(n.d.\)](#)

Tubular magazine rifle: [La Rédaction de l'Almanach de Gotha, ed \(1902\)](#)

Box magazine rifle: [La Rédaction de l'Almanach de Gotha, ed \(1902\)](#), [Ball \(2011\)](#)

Assault rifle: [Walter \(1998\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Hand-cranked machine gun: [Farrokh \(2011\)](#), [Tousi \(1988\)](#), [Kedleston \(1892\)](#)

Automatic machine gun: [Maxim \(1915\)](#), [Tousi \(1988\)](#)

Smoothbore field gun: [Grant \(1999\)](#), [Elgood and Blackmore \(1995\)](#)

Rifled artillery: [Wawro \(2002\)](#)

Steel tubes (artillery): [Encoclopædia Iranica \(n.d.\)](#), [Tousi \(1988\)](#)

Breech-loading artillery: [Encoclopædia Iranica](#) (n.d.), [La Rédaction de l'Almanach de Gotha](#), ed (1895)

Recoil mechanism for artillery: [Farrokh](#) (2011)

Early tank: [Chamberlain and Ellis](#) (1973); [Kliment and Francev](#) (1997), [Mehrl and Thurner](#) (2025)

WWII era tank: [Steinberg, ed](#) (1950); [SIPRI](#) (n.d.)

First generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.); [Foss, ed](#) (1999)

Second generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Early attack aircraft: [Cronin](#) (2003)

WWII era attack aircraft: [Bridgman, ed](#) (1950), [Imperial Iranian Air Force](#) (n.d.)

First generation jet fighters: [Zarzecki](#) (2002); [SIPRI](#) (n.d.), [Bridgman, ed](#) (1950)

Second generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fourth generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fifth generation jet fighter: [SIPRI](#) (n.d.)

First generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Armed unmanned aerial vehicles (UAVs): [SIPRI](#) (n.d.); [RUSI](#) (n.d.)

Ballistic missiles: [Mettler and Reiter](#) (2013), [SIPRI](#) (n.d.)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter](#) (2013), [SIPRI](#) (n.d.)

5.81 Iraq

Assault rifle: [Dupuy and Blanchard](#) (1970), [Chivers](#) (2010)

Automatic machine gun: [Malovany](#) (2017)

Recoil mechanism for artillery: [Malovany](#) (2017)

Early tank: [Malovany](#) (2017)

WWII era tank: [Steinberg, ed](#) (1950); [SIPRI](#) (n.d.)

First generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.); [Pretty and Archer, eds](#) (1974)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Malovany \(2017\)](#)

WWII era attack aircraft: [Pollack and Michael \(2002\)](#); [SIPRI \(n.d.\)](#), [Cooper and Sipos \(2020\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.82 Ireland

Box magazine rifle: [The Irish Story \(2015\)](#)

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

Automatic machine gun: [The Irish Story \(2015\)](#)

Recoil mechanism for artillery: [The Irish Story \(2015\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [English \(2005\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [MacCarron \(1996\)](#) p.13-15, [The Military Archives \(n.d.\)](#)

WWII era attack aircraft: [The Military Archives \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Bridgman, ed \(1950\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.83 Israel

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

WWII era tank: [Zaloga and Katz \(1996\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Zaloga and Katz \(1996\)](#) p. 17, [Pollack and Michael \(2002\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [Franke \(2014\)](#), [Tovy \(2024\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#), [Missile Defense Project \(2024\)](#)

5.84 Italy

Flintlock musket: [Lenk et al. \(1965\)](#) p. 53

Percussion lock: [Walter \(2006\)](#) p. 441, [Esposito \(2017\)](#), [Graf \(2008\)](#)

Minié rifle: [Esposito \(2017\)](#); [Grant \(2008\)](#)

Breech-loading rifle: [Miller \(2005\)](#), [Myatt \(1989\)](#)

Tubular magazine rifle: [Miller \(2005\)](#)

Box magazine rifle: [US government \(1880\)](#) p.312, [Myatt \(1989\)](#)

Assault rifle: [Walter \(1998\)](#)

Hand-cranked machine gun: [Colt \(n.d.\)](#); [Scientific American \(1876-08-19\)](#)

Automatic machine gun: [McCollum \(2016\)](#)

Smoothbore field gun: [Comin et al. \(2010\)](#)

Rifled artillery: [Schneid \(2012\)](#); [Roberts \(2012\)](#); [Bastable \(1992\)](#); [Esposito \(2017\)](#); [Taylor \(1862\)](#)

Steel tubes (artillery): [Esposito \(2017\)](#)

Breech-loading artillery: [Menne and Smith \(1938\)](#), [McLachlan et al. \(2012\)](#) p. 42f

Recoil mechanism for artillery: [Stevenson \(2002\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#); [League of Nations \(n.d.\)](#)

WWII era tank: [Zaloga and Sarson \(1994\)](#); [Chamberlain and Ellis \(1973\)](#), [Esercito Italiano \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#)

Early attack aircraft: [McMeiken \(1984\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Taylor \(1969\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.85 Ivory Coast

Assault rifle: [Dupuy and Blanchard \(1970\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.86 Jamaica

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#); [Stevens \(1980\)](#); [Stevens and Van Ruten \(1981\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(1973\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(1973\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.87 Japan

Percussion lock: [Archer \(2002\)](#) p. 212, [Lidin \(2002\)](#) p. 178

Minié rifle: [Brown \(1991\)](#)

Breech-loading rifle: [Walter \(1998\)](#); [Zwoll and de Hass \(2003\)](#); [Miller \(2005\)](#)

Tubular magazine rifle: [Zwoll and de Hass \(2003\)](#); [Walter \(1998\)](#)

Box magazine rifle: [Miller \(2005\)](#); [Zwoll and de Hass \(2003\)](#)

Assault rifle: [Margiotta and Keegan \(1994\)](#); [Walter \(1998\)](#)

Hand-cranked machine gun: [Longstaff and Atteridge \(1917\)](#); [Scientific American \(1876-08-19\)](#), [Chivers \(2010\)](#), [Kimball \(1881\)](#)

Automatic machine gun: [United States Adjutant-General's Office. \(1902\)](#), [Lone \(1994\)](#)

Smoothbore field gun: [Perrin \(1979\)](#), [Black \(1996\)](#) p. 21, [Perrin \(1979\)](#)

Rifled artillery: [Brown \(1994\)](#)

Steel tubes (artillery): [Martin, ed \(1880\)](#), [Manchester \(1968\)](#), [Michaelis \(1872\)](#)

Breech-loading artillery: [Olender \(2014\)](#), [Grant \(2008\)](#) p. 138

Recoil mechanism for artillery: [Kinard \(2007\)](#) p. 251, [La Rédaction de l'Almanach de Gotha, ed \(1905\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#); [League of Nations \(n.d.\)](#)

WWII era tank: [Zaloga and Bull \(2011\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Nowarra \(1959\)](#) p.133, [Mikesh and Abe \(1990\)](#)

WWII era attack aircraft: [Mikesh and Abe \(1990\)](#), [Smith \(2014\)](#), [Jackson \(2002\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.88 Jordan

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Walter \(1998\)](#)

Recoil mechanism for artillery: [Pollack and Michael \(2002\)](#)

Early tank: [Pollack and Michael \(2002\)](#), [United States Department of State \(1950\)](#) p. 739

WWII era tank: [Pollack and Michael \(2002\)](#); [SIPRI \(n.d.\)](#), [United States Department of State \(1950\)](#) p. 739

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Pollack and Michael \(2002\)](#)

WWII era attack aircraft: [Pollack and Michael \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.89 Kazakhstan

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.90 Kenya

Assault rifle: [Dupuy and Blanchard \(1970\)](#); [Lithgow Small Arms Factory Museum \(n.d.\)](#); [Stevens \(1980\)](#); [Stevens and Van Rутten \(1981\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.91 Korea

Breech-loading rifle: [Heath \(2011\)](#); [Bishop \(1983\)](#)

Tubular magazine rifle: [Duvernay \(2020\)](#)

Box magazine rifle: [Scott-Keltie, ed \(1903\)](#), [National History Compilation Committee \(2002\)](#)

Hand-cranked machine gun: [Heath \(2011\)](#); [Bishop \(1983\)](#)

Automatic machine gun: [Scott-Keltie, ed \(1895a\)](#); [Heath \(2011\)](#)

Rifled artillery: [Heath \(2011\)](#)

Steel tubes (artillery): [Heath \(2011\)](#)

Breech-loading artillery: [Heath \(2011\)](#); [Scott-Keltie, ed \(1895a\)](#)

Recoil mechanism for artillery: [Hogg \(1974\)](#), [Black \(2023\)](#)

5.92 Kosovo

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.93 Kuwait

Assault rifle: [Walter \(1998\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.94 Kyrgyzstan

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.95 Laos

Box magazine rifle: [Heath \(2003\)](#)

Assault rifle: [Dupuy and Blanchard \(1970\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#), [Kuzmarov \(2017\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.96 Latvia

Box magazine rifle: [Jēkabsons \(2014\)](#); [Thomas and Boltowsky \(2019\)](#), [Kilinskas \(2024\)](#)

Automatic machine gun: [Kilinskas \(2024\)](#)

Recoil mechanism for artillery: [Thomas and Boltowsky \(2019\)](#), [Kilinskas \(2024\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#); [Kliment and Francev \(1997\)](#), [Mehrl and Thurner \(2025\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Ciganov \(2024\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.97 Lebanon

Assault rifle: [Walter \(1998\)](#); [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)
Early tank: [Steinberg, ed \(1950\)](#)
WWII era tank: [Steinberg, ed \(1950\)](#); [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Foss, ed \(1999\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [Steinberg, ed \(1950\)](#); [Bridgman, ed \(1950\)](#)
WWII era attack aircraft: [Steinberg, ed \(1950\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.98 Lesotho

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.99 Liberia

Box magazine rifle: [Haliburton \(1970\)](#); [wwiaafterwwii \(2022\)](#)

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#), [Villard \(1963\)](#)

Automatic machine gun: [Villard \(1963\)](#); [CIA \(1973\)](#), [Roberts \(1964\)](#)

Breech-loading artillery: [Villard \(1963\)](#)

Recoil mechanism for artillery: [Villard \(1963\)](#); [CIA \(1973\)](#)

Early tank: [Fourie \(1968\)](#); [Steinberg, ed \(1950\)](#)

WWII era tank: [Fourie \(1968\)](#); [Steinberg, ed \(1950\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Fourie \(1968\)](#); [Steinberg, ed \(1950\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#); [Steinberg, ed \(1950\)](#)

First generation jet fighters: [Fourie \(1968\)](#); [Steinberg, ed \(1950\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.100 Libya

Assault rifle: [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#), [Spleeters \(2013\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Pollack and Michael \(2002\)](#)

First generation jet fighters: [Pollack and Michael \(2002\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Pollack and Michael \(2002\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.101 Lithuania

Box magazine rifle: [Lesčius \(2004\)](#); [Balkelis \(2018\)](#), [Kilinskas \(2024\)](#)

Automatic machine gun: [Lesčius \(2004\)](#); [Balkelis \(2018\)](#), [Kilinskas \(2024\)](#)

Recoil mechanism for artillery: [Lesčius \(2004\)](#); [Balkelis \(2018\)](#), [Lithuanian Armed Forces \(n.d.\)](#), [Kilinskas \(2024\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#); [League of Nations \(n.d.\)](#), [Mehrl and Thurner \(2025\)](#), [Liekis \(2002\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Gamziukas et al. \(1999\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.102 Luxembourg

Box magazine rifle: [Walter \(1998\)](#), [Ball \(2011\)](#) p. 250

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

Hand-cranked machine gun: [Arboit \(2019\)](#)

Automatic machine gun: [Arboit \(2019\)](#)

Smoothbore field gun: [Arboit \(2019\)](#)

Rifled artillery: [Arboit \(2019\)](#)

Steel tubes (artillery): [Arboit \(2019\)](#)

Breech-loading artillery: [Arboit \(2019\)](#)

Recoil mechanism for artillery: [Arboit \(2019\)](#)

Early tank: [League of Nations \(n.d.\)](#), [Thomas and Shumate \(2014\)](#)

WWII era tank: [Thomas and Shumate \(2014\)](#), [SIPRI \(n.d.\)](#), [Edwards \(2013\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Arboit \(2019\)](#), [Thomas and Shumate \(2014\)](#)

WWII era attack aircraft: [Thomas and Shumate \(2014\)](#), [SIPRI \(n.d.\)](#), [Edwards \(2013\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.103 Macedonia

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.104 Madagascar

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Dupuy and Blanchard \(1970\)](#)
WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [Fourie \(1968\)](#)
First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.105 Malawi

Assault rifle: [Walter \(1998\)](#); [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Hobart, ed \(1974\)](#);
[Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.106 Malaysia

Assault rifle: [Cashner and Noon \(2013\)](#); [Lithgow Small Arms Factory Museum \(n.d.\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.107 Maldives

Assault rifle:

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.108 Mali

Assault rifle: [Muehlenbeck \(2016\)](#); [Dupuy and Blanchard \(1970\)](#)

Early tank: [Fourie \(1968\)](#)

WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Fourie \(1968\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.109 Mauritania

Assault rifle: [Dupuy and Blanchard \(1970\)](#); [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)
WWII era tank: [Fourie \(1968\)](#), [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.110 Mauritius

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Automatic machine gun: [Mauritius Police Force \(n.d.\)](#); [SALW Guide \(n.d.\)](#)

WWII era tank:

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft:

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.111 Mecklenburg Schwerin

Flintlock musket: [Götz \(1978\)](#)

Percussion lock: [Busk \(1861\)](#) p. 149, [Götz \(1978\)](#)

Minié rifle: [Busk \(1861\)](#) p. 149, [Götz \(1978\)](#)

Breech-loading rifle: [Götz \(1978\)](#)

Tubular magazine rifle:

Hand-cranked machine gun: [Owen \(1874\)](#)

Smoothbore field gun: [Dawson \(2011\)](#)

Rifled artillery: [Abteilung \(1872\)](#)

Steel tubes (artillery): [Abteilung \(1872\)](#)

5.112 Mexico

Flintlock musket: [Meed \(2002\)](#), [Blaufarb \(2016\)](#)

Percussion lock: [Meed \(2002\)](#), [Katcher and Embleton \(1976\)](#)

Minié rifle: [Katcher and Embleton \(1976\)](#); [Jastrzembski, Frank \(2022\)](#); [Hart \(2002\)](#)

Breech-loading rifle: [Walter \(2006\)](#), [Holden \(2004\)](#) p. 52

Tubular magazine rifle: [Holden \(2004\)](#) p. 52, [Scott-Keltie, ed \(1907\)](#)

Box magazine rifle: [Ball \(2011\)](#) p. 255, [Vandervort \(2006\)](#), [Walter \(1998\)](#)

Assault rifle: [Walter \(1998\)](#); [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#)

Automatic machine gun: [English \(1984\)](#); [United States Adjutant-General's Office. \(1902\)](#)

Smoothbore field gun: [Robinson \(2004\)](#) p. 24, [Blaufarb \(2016\)](#)

Rifled artillery: [Chartrand and Hook \(1994\)](#), p. 33

Steel tubes (artillery): [Williamson, Mitch \(2020\)](#)

Breech-loading artillery: [La Rédaction de l'Almanach de Gotha, ed \(1902\)](#), [Jowett and de Quesada \(2013\)](#), [Fergusson \(1891\)](#)

Recoil mechanism for artillery: [Scott-Keltie, ed \(1907\)](#); [Bisher \(2016\)](#), [Hogg \(1974\)](#), [La Rédaction de l'Almanach de Gotha, ed \(1910\)](#)

Early tank: [League of Nations \(n.d.\)](#); [Chamberlain and Ellis \(1973\)](#); [English \(1984\)](#)

WWII era tank: [Spoelstra \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Flores and Garza \(2024\)](#)

WWII era attack aircraft: [Bridgman, ed \(1950\)](#), [Andrade \(1982\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.113 Modena

Flintlock musket: [Esposito \(2018\)](#)

Percussion lock: [Esposito \(2018\)](#)

Minié rifle: [Esposito \(2018\)](#)

Breech-loading rifle: [Esposito \(2018\)](#)

Smoothbore field gun: [Esposito \(2018\)](#)

Rifled artillery: [Esposito \(2018\)](#); [Wawro \(2002\)](#)

5.114 Moldova

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Foss, ed \(1999\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.115 Mongolia

Box magazine rifle: [Jowett \(2013\)](#)

Assault rifle: [Dupuy and Blanchard \(1970\)](#)

Automatic machine gun: [Jowett \(2013\)](#)

Recoil mechanism for artillery: [Jowett \(2013\)](#)

Early tank: [Ludeke \(2017\)](#), [Mehrl and Thurner \(2025\)](#), [Glantz \(2003\)](#)

WWII era tank: [Kaplonski \(2021\)](#), [Akademi \(1990\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Sanders \(2003\)](#)

WWII era attack aircraft: [Russia Beyond \(2021\)](#), [Sanders \(2003\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.116 Montenegro

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.117 Morocco

Flintlock musket: [Elgood and Blackmore \(1995\)](#)
Percussion lock: [Rollman \(1983\)](#); [Pennell and Brown \(2000\)](#)
Minié rifle: [Rollman \(1983\)](#); [Pennell and Brown \(2000\)](#)
Breech-loading rifle: [Rollman \(1983\)](#)
Tubular magazine rifle: [Pennell and Brown \(2000\)](#)
Box magazine rifle: [Pennell and Brown \(2000\)](#)
Assault rifle: [Walter \(1998\)](#); [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Hobart, ed \(1974\)](#);
[Archer, ed \(1976, 1977, 1978\)](#)
Hand-cranked machine gun: [Longstaff and Atteridge \(1917\)](#); [Pennell and Brown \(2000\)](#), [Scientific American \(1876-08-19\)](#)
Automatic machine gun: [Longstaff and Atteridge \(1917\)](#)
Smoothbore field gun: [Meredith \(2014\)](#) p.154, [Elgood and Blackmore \(1995\)](#)
Rifled artillery: [Roberts \(2012\)](#); [Rollman \(1983\)](#); [Taylor \(1862\)](#)
Steel tubes (artillery): [Pennell and Brown \(2000\)](#); [Rollman \(1983\)](#)
Breech-loading artillery: [Pennell and Brown \(2000\)](#); [Rollman \(1983\)](#)
Recoil mechanism for artillery: [Hogg \(1974\)](#)
WWII era tank: [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.118 Mozambique

Assault rifle: [Abbott \(1988\)](#); [Gann \(1975\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.119 Myanmar

Assault rifle: [Hobart, ed \(1974\)](#), [Thompson et al. \(2019\)](#)

WWII era tank: [Steinberg, ed \(1950\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Dupuy and Blanchard \(1970\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.120 Namibia

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.121 Nepal

Box magazine rifle: [Scott-Keltie, ed \(1907\)](#); [Nepali Army \(n.d.\)](#)
Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)
Automatic machine gun: [Husain \(2023\)](#), [Northey \(1998\)](#)
Breech-loading artillery: [Wright and Singh \(1877\)](#); [Scott-Keltie, ed \(1895a\)](#)
Recoil mechanism for artillery: [La Rédaction de l'Almanach de Gotha, ed \(1923\)](#), [Hogg \(1974\)](#)
Early tank: [Steinberg, ed \(1950\)](#), [League of Nations \(n.d.\)](#)
WWII era tank: [Steinberg, ed \(1950\)](#); [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [Steinberg, ed \(1950\)](#), [League of Nations \(n.d.\)](#)
WWII era attack aircraft: [Steinberg, ed \(1950\)](#), [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.122 Netherlands

Flintlock musket: [Given \(1994\)](#), [Lenk et al. \(1965\)](#) p.53

Percussion lock: [Pericoli and Glover \(1973\)](#) p. 74, [Rijksmuseum \(n.d.\)](#)

Minié rifle: [Busk \(1861\)](#) p. 151, [Military guns of Europe \(n.d.\)](#)

Breech-loading rifle: [Walter \(1998\)](#), [Military guns of Europe \(n.d.\)](#)

Tubular magazine rifle: [Walter \(1998\)](#), [Myatt \(1989\)](#)

Box magazine rifle: [Walter \(1998\)](#); [Merritt et al. \(1892\)](#), [Myatt \(1989\)](#)

Assault rifle: [Walter \(1998\)](#)

Hand-cranked machine gun: [Longstaff and Atteridge \(1917\)](#); [Scientific American \(1876-08-19\)](#), [US government \(1880\)](#)

Automatic machine gun: [Visser and Bailey \(1997\)](#)

Smoothbore field gun: [Comin et al. \(2010\)](#)

Rifled artillery: [Wawro \(2002\)](#), [Taylor \(1862\)](#)

Steel tubes (artillery): [Krause \(1992\)](#), [Kaufmann and Kaufmann \(2014\)](#) p. 26, [Militair Weekblad \(1881\)](#), [Menne and Smith \(1938\)](#)

Breech-loading artillery: [Menne and Smith \(1938\)](#); [Monthaye \(1888\)](#), [Militair Weekblad \(1881\)](#)

Recoil mechanism for artillery: [Menne and Smith \(1938\)](#); [Scott-Keltie, ed \(1908\)](#), [Hogg \(1974\)](#)

Early tank: [League of Nations \(n.d.\)](#); [Amersfoort and Kamphuis \(2010\)](#); [Chamberlain and Ellis \(1973\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Murphy \(2005\)](#), [Klinkert et al. \(2010\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.123 New Zealand

Box magazine rifle: [Walter \(1998\)](#)
Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#)
Automatic machine gun: [New Zealand History \(n.d.\)](#)
Recoil mechanism for artillery: [Government of New Zealand \(n.d.\)](#), [Hogg \(1974\)](#)
Early tank: [League of Nations \(n.d.\)](#); [Chamberlain and Ellis \(1973\)](#), [Mehrl and Thurner \(2025\)](#)
WWII era tank: [Stettinius \(1944\)](#), [Foreign Trade Division, Bureau of the Census \(various years\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [League of Nations \(n.d.\)](#), [Ross \(1955\)](#)
WWII era attack aircraft: [Bridgman, ed \(1950\)](#), [Ross \(1955\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.124 Nicaragua

Breech-loading rifle: [Cruz \(2016\)](#); [McCracken Research Library \(n.d.\)](#)
Tubular magazine rifle:

Box magazine rifle: [Ball \(2011\)](#) p.267, [Kuzmarov \(2012\)](#)

Assault rifle: [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#),

Hand-cranked machine gun: [Cruz \(2016\)](#); [Scientific American \(1876-08-19\)](#)

Automatic machine gun: [Kohn \(1999\)](#); [Langley and Schoonover \(2014\)](#)

Breech-loading artillery: [Langley and Schoonover \(2014\)](#), Chicago Tribune, April 27, 1895

Recoil mechanism for artillery: [Hogg \(1974\)](#)

Early tank: [League of Nations \(n.d.\)](#), Foreign Trade Division, Bureau of the Census (various years)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#), Foreign Trade Division, Bureau of the Census (various years)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [English \(1984\)](#), [Andrade \(1982\)](#)

WWII era attack aircraft: [English \(1984\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Bridgman, ed \(1950\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.125 Niger

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [Fourie \(1968\)](#)
First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.126 Nigeria

Assault rifle: [Walter \(1998\)](#); [Muehlenbeck \(2016\)](#)
WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)
First generation main battle tank: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.127 North Korea

Assault rifle: [Walter \(1998\)](#), [Chivers \(2010\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Sandler \(2014\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Sandler \(2014\)](#), [Edwards \(2006\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#), [Postol et al. \(2017\)](#), [Kristensen et al. \(2024b\)](#), [International Institute for Strategic Studies \(2023b\)](#)

5.128 Norway

Box magazine rifle: [Walter \(1998\)](#), [Forsvarsmuseet, ed \(2014\)](#), [Ford \(1998\)](#) p. 72

Assault rifle: [Walter \(1998\)](#); [Margiotta and Keegan \(1994\)](#)

Automatic machine gun: [United States Adjutant-General's Office. \(1902\)](#); [United States War Department \(1905\)](#)

Recoil mechanism for artillery: [Zeiner-Gundersen \(1986\)](#)

Early tank: [League of Nations \(n.d.\)](#); [Jaermuseet \(n.d.\)](#)

WWII era tank: [Jaermuseet \(n.d.\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [League of Nations \(n.d.\)](#); [Lillevik \(1984\)](#)
WWII era attack aircraft: [Bridgman, ed \(1950\)](#), [Norsk Luftfartsmuseum \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.129 Oman

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.130 Pakistan

Assault rifle: [Walter \(1998\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Bloomfield and Leiss \(1967\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.131 Panama

Box magazine rifle:

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

Automatic machine gun: [Brooks \(2003\)](#)

Breech-loading artillery:

Recoil mechanism for artillery:

Early tank: [League of Nations \(n.d.\)](#), [Brooks \(2003\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [Bridgman, ed \(1950\)](#), [Brooks \(2003\)](#)
WWII era attack aircraft: [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.132 Papal States

Flintlock musket: [Alvarez \(2011\)](#)
Percussion lock: [Esposito \(2018\)](#)
Minié rifle: [Esposito \(2018\)](#)
Breech-loading rifle: [Esposito \(2018\)](#)
Smoothbore field gun: [Alvarez \(2011\)](#)
Rifled artillery: [Esposito \(2018\)](#); [Schneid \(2012\)](#)
Steel tubes (artillery): [Esposito \(2018\)](#)

5.133 Papua New Guinea

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.134 Paraguay

Flintlock musket: [Blaufarb \(2016\)](#)
Percussion lock: [Militariarg.com \(n.d.\)](#), [Nickson \(2015\)](#)
Minié rifle: [Militariarg.com \(n.d.\)](#); [English \(1984\)](#)
Breech-loading rifle: [English \(1984\)](#), [Ball \(2011\)](#) p. 273, [Nickson \(2015\)](#)
Tubular magazine rifle: [Walter \(1998\)](#)
Box magazine rifle: [Ball \(2011\)](#); [Walter \(1998\)](#)
Assault rifle: [Walter \(1998\)](#); [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Hobart, ed \(1974\)](#);
[Archer, ed \(1976, 1977, 1978\)](#)
Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#)
Automatic machine gun: [English \(1984\)](#)
Smoothbore field gun: [Blaufarb \(2016\)](#)
Rifled artillery: [Wawro \(2002\)](#); [Nickson \(2015\)](#); [English \(1984\)](#)
Steel tubes (artillery): [Martin, ed \(1870\)](#), [Schiff \(1972\)](#) p. 437
Breech-loading artillery: [English \(1984\)](#)
Recoil mechanism for artillery: [English \(1984\)](#); [Menne and Smith \(1938\)](#)
Early tank: [League of Nations \(n.d.\)](#); [English \(1984\)](#); [Zaloga and Johnson \(2013\)](#)
WWII era tank: [English \(1984\)](#); [Zaloga and Johnson \(2013\)](#); [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [Nickson \(2015\)](#); [English \(1984\)](#)
WWII era attack aircraft: [Bridgman, ed \(1950\)](#), [Andrade \(1982\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.135 Parma

Percussion lock: [Esposito \(2018\)](#)
Minié rifle: [Esposito \(2018\)](#)
Breech-loading rifle: [Myatt \(1989\)](#)
Smoothbore field gun: [Esposito \(2018\)](#)
Rifled artillery: [Wawro \(2002\)](#)

5.136 Peru

Flintlock musket: [Blaufarb \(2016\)](#)
Percussion lock: [Satia \(2018\)](#); [Basadre \(1930\)](#)
Minié rifle: [Basadre \(1930\)](#)
Breech-loading rifle: [Esposito and Rava \(2016\)](#) p. 36), [Basadre \(1930\)](#)
Tubular magazine rifle: [Walter \(1998\)](#)
Box magazine rifle: [Walter \(1998\)](#); [La Rédaction de l'Almanach de Gotha, ed \(1902\)](#)
Assault rifle: [English \(1984\)](#); [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

Hand-cranked machine gun: [Sater \(2007\)](#); [Scientific American \(1876-08-19\)](#); [Longstaff and Atteridge \(1917\)](#)

Automatic machine gun: [La Rédaction de l'Almanach de Gotha, ed \(1902\)](#), Chicago Tribune, June 12, 1894

Smoothbore field gun: [Blaufarb \(2016\)](#)

Rifled artillery: [Wawro \(2002\)](#); [Roberts \(2012\)](#); [Basadre \(1930\)](#)

Steel tubes (artillery): [Basadre \(1930\)](#), [Farcau \(2000\)](#) p. 80, [Sater \(2007\)](#), [Krause \(1992\)](#)

Breech-loading artillery: [Farcau \(2000\)](#) p. 80, [Sater \(2007\)](#), [La Rédaction de l'Almanach de Gotha, ed \(1895\)](#)

Recoil mechanism for artillery: [English \(1984\)](#); [Bisher \(2016\)](#), [Hogg \(1974\)](#)

Early tank: [English \(1984\)](#); [Chamberlain and Ellis \(1973\)](#)

WWII era tank: [English \(1984\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [English \(1984\)](#), [Andrade \(1982\)](#) p.228

WWII era attack aircraft: [Andrade \(1982\)](#) p.288, [Mehrl and Thurner \(2025\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.137 Philippines

Assault rifle: [Walter \(1998\)](#)

WWII era tank: [Steinberg, ed \(1950\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Bridgman, ed \(1950\)](#), [Condono \(2005\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.138 Poland

Box magazine rifle: [Miller \(2005\)](#); [Walter \(1998\)](#)

Assault rifle: [Walter \(1998\)](#), [Chivers \(2010\)](#)

Automatic machine gun: [Davies \(2012\)](#)

Breech-loading artillery: [Davies \(2012\)](#)

Recoil mechanism for artillery: [Davies \(2012\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#); [League of Nations \(n.d.\)](#)

WWII era tank: [Zaloga \(2013a\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Cynk \(1971\)](#) p. 106

WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.139 Portugal

Flintlock musket: [Museu Militar \(n.d.\)](#)

Percussion lock: [Museu Militar \(n.d.\)](#); [Teixeira \(2019\)](#), [Garrett \(2010\)](#)

Minié rifle: [Teixeira \(2019\)](#)

Breech-loading rifle: [Walter \(1998\)](#), [Myatt \(1989\)](#)

Tubular magazine rifle: [Ball \(2011\)](#); [Walter \(1998\)](#)

Box magazine rifle: [Ball \(2011\)](#); [Merritt et al. \(1892\)](#); [Walter \(1998\)](#)

Assault rifle: [Walter \(1998\)](#); [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

Hand-cranked machine gun: [Longstaff and Atteridge \(1917\)](#); [Museu Militar \(n.d.\)](#), [US government \(1880\)](#)

Automatic machine gun: [Museu Militar \(n.d.\)](#)

Smoothbore field gun: [Comin et al. \(2010\)](#)

Rifled artillery: [Wawro \(2002\)](#); [Museu Militar \(n.d.\)](#); [Taylor \(1862\)](#)

Steel tubes (artillery): [Museu de Marinha \(n.d.\)](#), [Museu Militar \(n.d.\)](#)

Breech-loading artillery: [Great Britain. War Office. Intelligence Division \(1874b\)](#); [Menne and Smith \(1938\)](#); [Monthaye \(1888\)](#), [Schubert \(1890\)](#)

Recoil mechanism for artillery: [1914-1918-Online](#) (n.d.); [United States War Department](#) (1905)

Early tank: [League of Nations](#) (n.d.); [Chamberlain and Ellis](#) (1973), [Mehrl and Thurner](#) (2025)

WWII era tank: [Spoelstra](#) (n.d.); [SIPRI](#) (n.d.), [Pretty and Archer](#), eds (1974)

First generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Early attack aircraft: [Andrade](#) (1977), [Bruce](#) (1968)

WWII era attack aircraft: [Bridgman](#), ed (1950), [Andrade](#) (1977)

First generation jet fighters: [Zarzecki](#) (2002); [SIPRI](#) (n.d.); [Bridgman](#), ed (1950)

Second generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fourth generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fifth generation jet fighter: [SIPRI](#) (n.d.)

First generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Armed unmanned aerial vehicles (UAVs): [SIPRI](#) (n.d.)

Ballistic missiles: [Mettler and Reiter](#) (2013), [SIPRI](#) (n.d.)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter](#) (2013), [SIPRI](#) (n.d.)

5.140 Qatar

Assault rifle: [Stevens](#) (1980); [Stevens and Van Rutten](#) (1981); [Hobart](#), ed (1974); [Archer](#), ed (1976, 1977, 1978)

First generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation main battle tank: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Third generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fourth generation jet fighter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Fifth generation jet fighter: [SIPRI](#) (n.d.)

First generation attack helicopter: [Zarzecki](#) (2002); [SIPRI](#) (n.d.)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.141 Republic of Vietnam

Assault rifle: [Cosmas \(2009\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.142 Romania

Breech-loading rifle: [Cooke \(1876\)](#); [Walter \(1998\)](#), [Myatt \(1989\)](#)

Tubular magazine rifle: [Merritt et al. \(1892\)](#)

Box magazine rifle: [Merritt et al. \(1892\)](#), [Scott-Keltie, ed \(1895a\)](#), [Westwood \(2005\)](#) p. 381, [Walter \(1998\)](#), [Jessup \(1978\)](#)

Assault rifle: [Miller \(2005\)](#); [Walter \(1998\)](#)

Hand-cranked machine gun: [Longstaff and Atteridge \(1917\)](#), [Jessup \(1978\)](#)

Automatic machine gun: [Chinn \(1951\)](#), [Scott-Keltie, ed \(1895a\)](#)

Breech-loading artillery: [Bulgarian Artillery \(n.d.\)](#)

Recoil mechanism for artillery: [United States War Department \(1905\)](#), [Grant \(2008\)](#) p. 216, [Menne and Smith \(1938\)](#), [Hogg \(1974\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#); [League of Nations \(n.d.\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Zaloga \(2013c\)](#), [Seignon and Robinson \(2022\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Gudju et al. \(1974\)](#) p.22, [Avram and Armă \(2018\)](#)

WWII era attack aircraft: [Gudju et al. \(1974\)](#) p.208, [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.143 Russia

Flintlock musket: [Tarassuk \(1967\)](#), [Shpakovsky et al. \(2006\)](#) p. 24

Percussion lock: [Andersen \(1991\)](#) p. 121, [Beskrovnyi \(1996\)](#)

Minié rifle: [Agnew et al. \(1861\)](#); [Wawro \(2002\)](#); [Walter \(1998\)](#)

Breech-loading rifle: [Walter \(1998\)](#), [Grant \(2008\)](#) p. 24

Tubular magazine rifle: [Great Britain. War Office. Intelligence Branch \(1882b\)](#), [Walter \(1998\)](#)

Box magazine rifle: [Merritt et al. \(1892\)](#) p. 415-416, [Miller \(2005\)](#), [Dorling Kindersley \(2014\)](#) p. 147, [Myatt \(1989\)](#)

Assault rifle: [Miller \(2005\)](#)

Hand-cranked machine gun: [Longstaff and Atteridge \(1917\)](#), [Chivers \(2010\)](#)

Automatic machine gun: [Chinn \(1951\)](#), [Gander \(1993a\)](#) p. 22, [Maxingun.de \(n.d.\)](#), [McCollum \(2016\)](#)

Smoothbore field gun: [Comin et al. \(2010\)](#)

Rifled artillery: [Drury \(1994\)](#) p. 23, [Mehl \(2002\)](#) p. 54

Steel tubes (artillery): [Oakes \(2002\)](#), [Kirchner \(1982\)](#), [Manchester \(1968\)](#)

Breech-loading artillery: [Bulgarian Artillery \(n.d.\)](#), [Kirchner \(1982\)](#), [Manchester \(1968\)](#)

Recoil mechanism for artillery: [Herrmann \(1996\)](#), [Hogg \(1974\)](#)

Early tank: [Smele \(2015\)](#)

WWII era tank: [Zaloga \(2013b\)](#), [Zaloga \(1993\)](#), [Samsonov \(2019\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Loftin \(1985\)](#)

WWII era attack aircraft: [Maslov \(2013\)](#), [Moore \(2021\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2022, 2023a\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2022, 2023a\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.144 Rwanda

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Dupuy and Blanchard \(1970\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Foss, ed \(1999\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.145 Samoa

Assault rifle:

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.146 Saudi Arabia

Box magazine rifle: [Vassiliev \(2013\)](#); [Cronin \(2013\)](#)

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Walter \(1998\)](#)

Automatic machine gun: [Cronin \(2013\)](#)

Recoil mechanism for artillery: [Cronin \(2013\)](#); [Knauerhase \(1975\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era tank: [Haskew \(2016\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Bullard and Hodgkin \(1993\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.147 Saxony

Flintlock musket: [Götz \(1978\)](#)

Percussion lock: [Götz \(1978\)](#), [Busk \(1861\)](#) p. 141

Minié rifle: [Götz \(1978\)](#)

Breech-loading rifle: [Götz \(1978\)](#); [Walter \(1998\)](#)

Tubular magazine rifle: [Götz \(1978\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#)

Smoothbore field gun: [Summerfield \(2009\)](#)

Rifled artillery: [Abteilung \(1872\)](#); [für Kriegsgeschichte 1868 \(2016\)](#)

Steel tubes (artillery): [Abteilung \(1872\)](#); [für Kriegsgeschichte 1868 \(2016\)](#)

5.148 Senegal

Assault rifle: [Dupuy and Blanchard \(1970\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.149 Sierra Leone

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

WWII era tank: [Fourie \(1968\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Fourie \(1968\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.150 Singapore

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Lithgow Small Arms Factory Museum \(n.d.\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.151 Slovakia

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.152 Slovenia

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.153 Solomon Islands

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.154 Somalia

Assault rifle: [Dupuy and Blanchard \(1970\)](#)
WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.155 South Africa

Box magazine rifle: [Walter \(1998\)](#)

Assault rifle: [Walter \(1998\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Automatic machine gun: [Stapleton \(2013\)](#)

Breech-loading artillery: [Thompson \(2011\)](#), [Dorning \(1987\)](#)

Recoil mechanism for artillery: [Dorning \(1987\)](#), [Stapleton \(2013\)](#)

Early tank: [League of Nations \(n.d.\)](#); [The South African Armour Museum \(n.d.\)](#), [Foreign Trade Division, Bureau of the Census \(various years\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era tank: [The South African Armour Museum \(n.d.\)](#), [Foreign Trade Division, Bureau of the Census \(various years\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [Key Military \(n.d.\)](#); [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.156 South Korea

Assault rifle: [Walter \(1998\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Malkasian \(2001\)](#), [Sandler \(2014\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Foss, ed \(1999\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Sandler \(2014\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.157 South Sudan

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.158 Spain

Flintlock musket: [Willbanks \(2004\)](#) p. 8

Percussion lock: [Kelly \(1862\)](#) p.347, [Satia \(2018\)](#), [College Hill Arsenal \(n.d.\)](#)

Minié rifle: [Mordecai \(1860\)](#), [Engels \(1959\)](#) p. 53, [College Hill Arsenal \(n.d.\)](#)

Breech-loading rifle: [Walter \(1998\)](#); [Miller \(2005\)](#)

Tubular magazine rifle: [Walter \(1998\)](#); [Great Britain. War Office. Intelligence Branch \(1883\)](#)

Box magazine rifle: [Merritt et al. \(1892\)](#), [Field \(1998\)](#) p. 102, [Myatt \(1989\)](#)

Assault rifle: [Walter \(1998\)](#); [Hobart, ed \(1974\)](#)

Hand-cranked machine gun: [Ellis and Ezell \(1975\)](#) p. 29, [Owen \(1874\)](#)

Automatic machine gun: [Pegler \(2013\)](#), [Chivers \(2010\)](#)

Smoothbore field gun: [Brodie B. and Brodie \(1973\)](#) p.52, [Black \(2002\)](#)

Rifled artillery: [Wawro \(2002\)](#); [Roberts \(2012\)](#); [Taylor \(1862\)](#)

Steel tubes (artillery):[Krause \(1992\)](#), [Monthaye \(1888\)](#), [Michaelis \(1872\)](#)

Breech-loading artillery: [Menne and Smith \(1938\)](#); [Great Britain. War Office. Intelligence Branch \(1883\)](#)

Recoil mechanism for artillery: [Scott-Keltie, ed \(1908\)](#), [Hogg \(1974\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Andrade \(1977\)](#); [League of Nations \(n.d.\)](#)

WWII era attack aircraft: [Andrade \(1977\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.159 Sri Lanka

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(1973\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(1973\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.160 Sudan

Assault rifle: [Dupuy and Blanchard \(1970\)](#), [Pikula \(2017\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(1973\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.161 Suriname

Assault rifle:

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.162 Swaziland

Assault rifle: [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.163 Sweden

Flintlock musket: [Morillo et al. \(2009\)](#); [Satia \(2018\)](#)

Percussion lock: [Lindsay \(1968\)](#) p. 110, [Mordecai \(1860\)](#) p. 165

Minié rifle: [Littell and Littell \(1857\)](#) p. 664, [Mordecai \(1860\)](#) p. 197

Breech-loading rifle: [Walter \(1998\)](#)

Tubular magazine rifle: [Fallan \(2015\)](#), [Holmquist et al. \(1980\)](#)

Box magazine rifle: [US government \(1880\)](#) p. 312, [Holmquist et al. \(1980\)](#) p. 66, [Myatt \(1989\)](#)

Assault rifle: [Walter \(1998\)](#); [Miller \(2005\)](#)

Hand-cranked machine gun: [Owen \(1874\)](#); [Armémuseum \(n.d.\)](#); [Bateman \(1987\)](#)

Automatic machine gun: [United States Adjutant-General's Office. \(1902\)](#); [United States War Department \(1905\)](#)

Smoothbore field gun: [Mortensen \(1999\)](#) p. 61, [Comin et al. \(2010\)](#)

Rifled artillery: [Wawro \(2002\)](#); [Hogg \(1974\)](#); [Carman \(1955\)](#); [Scheutz \(1993\)](#); [Taylor \(1862\)](#)

Steel tubes (artillery): [Scheutz \(1993\)](#)

Breech-loading artillery: [Menne and Smith \(1938\)](#), [Holmquist et al. \(1980\)](#) p. 64

Recoil mechanism for artillery: [Hogg \(1974\)](#), [United States Adjutant-General's Office. \(1902\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Widfeldt and Hall \(2005\)](#) p. 38

WWII era attack aircraft: [Widfeldt and Hall \(2005\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Bridgman, ed \(1950\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.164 Switzerland

Flintlock musket: [Lenk et al. \(1965\)](#) p. 52, [Hostettler \(1987\)](#)

Percussion lock: [Ford \(1998\)](#) p. 14, [Wyss \(2012\)](#), [Hostettler \(1987\)](#)

Minié rifle: [Engels \(1959\)](#) p. 53, [Hostettler \(1987\)](#)

Breech-loading rifle: [Walter \(1998\)](#), [Myatt \(1989\)](#)

Tubular magazine rifle: [Walter \(1998\)](#); [Great Britain War Office. Intelligence Division \(1880\)](#)

Box magazine rifle: [Miller \(2005\)](#); [Walter \(1998\)](#)

Assault rifle: [Margiotta and Keegan \(1994\)](#); [Walter \(1998\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#), [Chivers \(2010\)](#)

Automatic machine gun: [Longstaff and Atteridge \(1917\)](#); [United States Adjutant-General's Office. \(1902\)](#); [Maximgun.de \(n.d.\)](#)

Smoothbore field gun: [McCormack \(1993\)](#)

Rifled artillery: [Wawro \(2002\)](#); [Taylor \(1862\)](#)

Steel tubes (artillery): [Ripley and Anderson Dana \(1872\)](#)

Breech-loading artillery: [Kaufmann and Kaufmann \(2014\)](#); [Great Britain War Office. Intelligence Division \(1880\)](#)

Recoil mechanism for artillery: [Menne and Smith \(1938\)](#); [United States War Department \(1905\)](#), [Hogg \(1974\)](#)

Early tank: [League of Nations \(n.d.\)](#); [Chamberlain and Ellis \(1973\)](#); [Kliment and Francev \(1997\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Wyss \(2012\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [League of Nations \(n.d.\)](#), [Abplanalp \(2022\)](#)

WWII era attack aircraft: [Taylor \(1862\)](#) p. 304, [Bridgman, ed \(1950\)](#), [Hoch \(2008\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.165 Syria

Assault rifle: [Jenzen-Jones and Spleeters \(2015\)](#); [Walter \(1998\)](#)

Early tank: [Zaloga and Katz \(1996\)](#); [Laffin \(1982\)](#)

WWII era tank: [Pollack and Michael \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation main battle tank: [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [Pollack and Michael \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.166 Taiwan

Assault rifle: [Walter \(1998\)](#)
WWII era tank: [SIPRI \(n.d.\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.167 Tajikistan

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Foss, ed \(1999\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.168 Tanzania

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#); [Stevens \(1980\)](#); [Stevens and Van Ruten \(1981\)](#)

WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Foss, ed \(1999\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.169 Thailand

Tubular magazine rifle: [Heath \(2003\)](#)
Box magazine rifle: [Walter \(1998\)](#)
Assault rifle: [Walter \(1998\)](#)
Hand-cranked machine gun: [Heath \(2003\)](#), [Ramsay \(1979\)](#), [Scientific American \(1876-08-19\)](#), [Kimball \(1881\)](#)
Automatic machine gun: [Scott-Keltie, ed \(1897\)](#)
Steel tubes (artillery): [Manchester \(1968\)](#), p. 160.
Breech-loading artillery: [Manchester \(1968\)](#), [Scott-Keltie, ed \(1897\)](#), [Heath \(2003\)](#)
Recoil mechanism for artillery: [Hogg \(1974\)](#), [James D. Julia Antique Auction house \(2015\)](#)
Early tank: [Zaloga and Morshead \(2015\)](#), [Chamberlain and Ellis \(1973\)](#), [Mehrl and Thurner \(2025\)](#)
WWII era tank: [SIPRI \(n.d.\)](#), [Chamberlain and Ellis \(1973\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Early attack aircraft: [Leary \(1982\)](#)
WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.170 Togo

Assault rifle: [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Foss, ed \(1999\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.171 Tonga

Assault rifle: [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.172 Trinidad and Tobago

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)
First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.173 Tunisia

Flintlock musket: [Brown \(1975\)](#)

Percussion lock: [Brown \(1975\)](#), [McGregor \(2006\)](#)

Minié rifle:

Breech-loading rifle:

Tubular magazine rifle:

Box magazine rifle:

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#)

Hand-cranked machine gun: [Longstaff and Atteridge \(1917\)](#); [Colt \(n.d.\)](#), [Chivers \(2010\)](#)

Automatic machine gun:

Smoothbore field gun: [Elgood and Blackmore \(1995\)](#); [Brown \(1975\)](#)

Rifled artillery: [Wawro \(2002\)](#); [Taylor \(1862\)](#)

Steel tubes (artillery):

Breech-loading artillery:

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.174 Turkey

Flintlock musket: [Elgood and Blackmore \(1995\)](#), [Grant \(1999\)](#)

Percussion lock: [Reid \(2000\)](#)

Minié rifle: [Elgood and Blackmore \(1995\)](#), [Satia \(2018\)](#)

Breech-loading rifle: [Ball \(2011\)](#), [Satia \(2018\)](#), [Parry et al. \(1975\)](#), [Walter \(1998\)](#)

Tubular magazine rifle: [Cooke \(1876\)](#); [Ball \(2011\)](#), [Myatt \(1989\)](#), [Grant \(2002\)](#)

Box magazine rifle: [Walter \(1998\)](#); [Ball \(2011\)](#), [US government \(1880\)](#)

Assault rifle: [Margiotta and Keegan \(1994\)](#), [Walter \(1998\)](#), [Cashner and Noon \(2013\)](#)

Hand-cranked machine gun: [Ellis and Ezell \(1975\)](#); [Owen \(1874\)](#), [Reid \(2000\)](#), [Scientific American \(1876-08-19\)](#), [Kimball \(1881\)](#)

Automatic machine gun: [Grant \(2002, 2008\)](#), [Maxim \(1915\)](#)

Smoothbore field gun: [Grant \(1999\)](#), [Comin et al. \(2010\)](#)

Rifled artillery: [Wawro \(2002\)](#); [Cooke \(1876\)](#); [Taylor \(1862\)](#),

Steel tubes (artillery): [Cooke \(1876\)](#), [Yorulmaz \(2014\)](#)

Breech-loading artillery: [Bulgarian Artillery \(n.d.\)](#); [Menne and Smith \(1938\)](#), [Reid \(2000\)](#)

Recoil mechanism for artillery: [Bulgarian Artillery \(n.d.\)](#); [United States War Department \(1903\)](#), [Grant \(2008\)](#)

Early tank: [League of Nations \(n.d.\)](#); [Chamberlain and Ellis \(1973\)](#)

WWII era tank: [Spoelstra \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Nowarra \(1959\)](#), [Nordeen and Nicolle \(1996\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [RUSI \(n.d.\)](#); [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.175 Turkmenistan

Second generation main battle tank: [Foss, ed \(1999\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.176 Tuscany

Flintlock musket: [Esposito \(2018\)](#)

Percussion lock: [Esposito \(2018\)](#)

Minié rifle: [Esposito \(2018\)](#)

Breech-loading rifle:

Smoothbore field gun: [Esposito \(2018\)](#)

Rifled artillery: [Esposito \(2018\)](#); [Wawro \(2002\)](#)

Steel tubes (artillery): [Esposito \(2018\)](#)

5.177 Two Sicilies

Flintlock musket: [Royal House of Bourbon Two Sicilies \(n.d.\)](#)

Percussion lock: [Royal House of Bourbon Two Sicilies \(n.d.\)](#); [Esposito \(2017\)](#)

Minié rifle: [Royal House of Bourbon Two Sicilies \(n.d.\)](#); [Fiorenza \(2024\)](#)

Breech-loading rifle: [Royal House of Bourbon Two Sicilies \(n.d.\)](#); [Esposito \(2017\)](#)

Smoothbore field gun: [Fiorenza \(2024\)](#)

Rifled artillery: [Esposito \(2017\)](#)

Steel tubes (artillery): [Royal House of Bourbon Two Sicilies \(n.d.\)](#); [Esposito \(2017\)](#)

5.178 Uganda

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#); [Gilbert and Joshua \(1969\)](#)

WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.179 Ukraine

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Foss, ed \(1999\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.180 United Arab Emirates

Assault rifle: [Margiotta and Keegan \(1994\)](#); [Walter \(1998\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.181 United Kingdom

Flintlock musket: [Asquith and Warner \(1981\)](#), [Rogers \(1960\)](#), [Pericoli and Glover \(1973\)](#)

Percussion lock: [Pericoli and Glover \(1973\)](#) p.74, [Bury \(1960\)](#) p.303, [Lindsay \(1968\)](#) p.110

Minié rifle: [Mordecai \(1860\)](#), [Vandervort \(2006\)](#)

Breech-loading rifle: [Walter \(1998\)](#), [Vandervort \(1998\)](#)

Tubular magazine rifle: [Walter \(1998\)](#), [Myatt \(1989\)](#)

Box magazine rifle: [US government \(1880\)](#) p. 312, [Ford \(1998\)](#) p. 68, [Myatt \(1989\)](#)

Assault rifle: [Miller \(2005\)](#); [Walter \(1998\)](#)

Hand-cranked machine gun: [Headrick \(1979\)](#); [Longstaff and Atteridge \(1917\)](#); [Owen \(1874\)](#)

Automatic machine gun: [Chinn \(1951\)](#), [Gander \(1993b\)](#) p.16, [Charney \(2018\)](#) p. 267

Smoothbore field gun: [Comin et al. \(2010\)](#), [Brodie B. and Brodie \(1973\)](#)

Rifled artillery: [Sarty and Service \(1988\)](#) p. 20, [Gabriel and Metz \(1992\)](#)

Steel tubes (artillery): [Sarty and Service \(1988\)](#) p. 18

Breech-loading artillery: [Monthaye \(1888\)](#), [Hall \(1972\)](#)

Recoil mechanism for artillery: [Herrmann \(1996\)](#)

Early tank: [Williamson and Millett \(1996\)](#)

WWII era tank: [Stettinius \(1944\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Loftin \(1985\)](#), [Harper \(1939\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#), [Glancey \(2014\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [Burroughes \(1969\)](#), [Nijboer \(2012\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.182 United States of America

Flintlock musket: [Ferling \(2007\)](#)

Percussion lock: [US Military \(1835\)](#); [Katcher and Embleton \(1976\)](#); [Ezell \(1984\)](#)

Minié rifle: [Vandervort \(2006\)](#) p. 99

Breech-loading rifle: [Walter \(1998\)](#)

Tubular magazine rifle: [Walter \(1998\)](#), [Myatt \(1989\)](#)

Box magazine rifle: [Vandervort \(2006\)](#) p. 98, [Walter \(1998\)](#), [Myatt \(1989\)](#)

Assault rifle: [Miller \(2002\)](#), [Rottman \(2011\)](#), [Walter \(1998\)](#)

Hand-cranked machine gun: [Owen \(1874\)](#), [Ellis and Ezell \(1975\)](#) p. 25, [Chivers \(2010\)](#)

Automatic machine gun: [Chinn \(1951\)](#), [Chivers \(2010\)](#)

Smoothbore field gun: [McKenney and of Military History \(U S Army\)](#)

Rifled artillery: [Wawro \(2002\)](#); [Hogg \(1974\)](#), [Green \(2021\)](#)

Steel tubes (artillery): [New York Times \(1861-05-23\)](#), [McKenney and of Military History \(U S Army\)](#), [Green \(2021\)](#)

Breech-loading artillery: [Kinard \(2007\)](#) p. 249, [McKenney and of Military History \(U S Army\)](#), [Green \(2021\)](#)

Recoil mechanism for artillery: [Kinard \(2007\)](#) p. 249, [Hogg \(1974\)](#)

Early tank: [Chamberlain and Ellis \(1973\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Goldberg and Force \(1957\)](#) p. 6-10

WWII era attack aircraft: [Goldberg and Force \(1957\)](#) p. 42, [SIPRI \(n.d.\)](#)

First generation jet fighters: [Bridgman, ed \(1950\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2004, 2005\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#), [Boyne \(2009\)](#), [Boys \(2023\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.183 Uruguay

Tubular magazine rifle: [Walter \(1998\)](#); [English \(1984\)](#)

Box magazine rifle: [English \(1984\)](#); [Ball \(2011\)](#)

Assault rifle: [Walter \(1998\)](#); [Milenky \(1980\)](#), [Miller \(2005\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#)

Automatic machine gun: [English \(1984\)](#); [La Rédaction de l'Almanach de Gotha, ed \(1910\)](#)

Breech-loading artillery: [English \(1984\)](#)

Recoil mechanism for artillery: [La Rédaction de l'Almanach de Gotha, ed \(1910\)](#); [Militari-arg.com \(n.d.\)](#); [Epstein and Scott-Keltie, eds \(1921\)](#)

Early tank: [League of Nations \(n.d.\)](#), [Foreign Trade Division, Bureau of the Census \(various years\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [English \(1984\)](#), [Andrade \(1982\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#), [Andrade \(1982\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.184 Uzbekistan

Second generation main battle tank: [Foss, ed \(1999\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#), [International Institute for Strategic Studies \(2011\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.185 Venezuela

Flintlock musket: [Blaufarb \(2016\)](#)

Percussion lock: [Scheina \(2003\)](#)

Minié rifle: [Militariarg.com \(n.d.\)](#), [Esposito \(2019\)](#)

Breech-loading rifle: [Scheina \(2003\)](#); [Esposito \(2019\)](#)

Tubular magazine rifle: [Scheina \(2003\)](#)

Box magazine rifle: [Herwig \(1986\)](#); [Walter \(1998\)](#)

Assault rifle: [Walter \(1998\)](#); [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [English \(1984\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#)

Automatic machine gun: [De La Pedraja \(2006\)](#) p. 31

Smoothbore field gun: [Blaufarb \(2016\)](#)

Rifled artillery: [Wawro \(2002\)](#); [United States. Department of State \(1876\)](#)

Steel tubes (artillery): [United States. Department of State \(1876\)](#)

Breech-loading artillery: [Herwig \(1986\)](#); [English \(1984\)](#)

Recoil mechanism for artillery: [Herwig \(1986\)](#); [English \(1984\)](#)

Early tank: [League of Nations \(n.d.\)](#), [Foreign Trade Division, Bureau of the Census \(various years\)](#)

WWII era tank: [SIPRI \(n.d.\)](#), [Pretty and Archer, eds \(1974\)](#), [Foreign Trade Division, Bureau of the Census \(various years\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Andrade \(1982\)](#)

WWII era attack aircraft: [Bridgman, ed \(1950\)](#), [Andrade \(1982\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.186 Vietnam

Assault rifle: [CIA \(1968\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)
Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.187 Wuerttemberg

Flintlock musket: [Götz \(1978\)](#)
Percussion lock: [Götz \(1978\)](#)
Minié rifle: [Götz \(1978\)](#)
Breech-loading rifle: [Götz \(1978\)](#)
Tubular magazine rifle: [Götz \(1978\)](#)
Hand-cranked machine gun: [Owen \(1874\)](#)
Smoothbore field gun: [Gill \(2018\)](#)
Rifled artillery: [\(n.d.\)](#)
Steel tubes (artillery): [\(n.d.\)](#), [Stone \(2018\)](#), [Menne and Smith \(1938\)](#)

5.188 Yemen

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Fifth generation jet fighter: [SIPRI \(n.d.\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)
Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.189 Yemen Arab Republic

Box magazine rifle: [Ball \(2011\)](#), [Jacob \(1925\)](#)

Assault rifle: [Chivers \(2010\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Automatic machine gun: [Strang \(2024\)](#)

Recoil mechanism for artillery: [Baldry \(1976\)](#)

Early tank: [Cappellano and Battistelli \(2012\)](#)

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft: [Cooper \(2017\)](#)

WWII era attack aircraft: [Cooper \(2017\)](#); [SIPRI \(n.d.\)](#)

First generation jet fighters: [Cooper \(2017\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.190 Yemen People's Republic

Assault rifle:

WWII era tank: [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [SIPRI \(n.d.\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.191 Yugoslavia

Breech-loading rifle: [Walter \(1998\)](#); [Cooke \(1876\)](#)

Tubular magazine rifle: [Walter \(1998\)](#), [Scott-Keltie, ed \(1895b\)](#)

Box magazine rifle: [Epstein and Scott-Keltie, eds \(1923\)](#); [La Rédaction de l'Almanach de Gotha, ed \(1902\)](#); [Scott-Keltie, ed \(1897\)](#), [Myatt \(1989\)](#)

Assault rifle: [Walter \(1998\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

Hand-cranked machine gun: [Scientific American \(1876-08-19\)](#), [Herrmann \(1996\)](#) p. 124

Automatic machine gun: [Epstein and Scott-Keltie, eds \(1923\)](#), [Grant \(2008\)](#) p. 210, [Chinn \(1951\)](#)

Breech-loading artillery: [Menne and Smith \(1938\)](#); [Scott-Keltie, ed \(1895b\)](#)

Recoil mechanism for artillery: [Epstein and Scott-Keltie, eds \(1923\)](#); [Stocker and Grant \(2003\)](#), [Grant \(2008\)](#) p. 209, [Herrmann \(1996\)](#) p. 124

Early tank: [Chamberlain and Ellis \(1973\)](#), [Mehrl and Thurner \(2025\)](#)

WWII era tank: [Vuksic \(2003\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Pretty and Archer, eds \(1974\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Early attack aircraft:

WWII era attack aircraft: [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Bridgman, ed \(1950\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.192 Zambia

Assault rifle: [Lithgow Small Arms Factory Museum \(n.d.\)](#); [Hobart, ed \(1974\)](#); [Archer, ed \(1976, 1977, 1978\)](#)

WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Foss, ed \(1999\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft: [Fourie \(1968\)](#)

First generation jet fighters: [Fourie \(1968\)](#); [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Fourie \(1968\)](#), [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.193 Zanzibar

Assault rifle:

WWII era tank:

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

WWII era attack aircraft:

First generation jet fighters: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

5.194 Zimbabwe

Assault rifle: [Stevens \(1980\)](#); [Stevens and Van Rutten \(1981\)](#); [Dupuy and Blanchard \(1970\)](#)

WWII era tank: [Fourie \(1968\)](#); [SIPRI \(n.d.\)](#)

First generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#); [Foss, ed \(1999\)](#)

Second generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation main battle tank: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Third generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fourth generation jet fighter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Fifth generation jet fighter: [SIPRI \(n.d.\)](#)

First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)

Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

Ballistic missiles: [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

Intercontinental ballistic missiles (ICBMs): [Mettler and Reiter \(2013\)](#), [SIPRI \(n.d.\)](#)

References

- 1914-1918-Online**, “International Encyclopedia of the First World War,” <https://encyclopedia.1914-1918-online.net/home.html> n.d. Accessed: 2017.
- Abbott, Peter**, *Modern African Wars (2): Angola and Mozambique 1961-1974*, Osprey Publishing, 1988.
- , *Modern African Wars (2): Angola and Mozambique 1961–74*, Vol. 202, Bloomsbury Publishing, 2011.
- , *Modern African Wars (4): The Congo 1960–2002*, Bloomsbury Publishing, 2014.
- Abplanalp, Andrej**, “Switzerland’s first military aircraft,” <https://blog.nationalmuseum.ch/en/2022/02/first-military-aircraft-of-sitzerland/> 2022. National Museum of Switzerland. Accessed: 2024.
- Abteilung, Kriegsgeschichtliche**, *The Campaign of 1866 in Germany*, H.M. Stationery Office, 1872.
- Adamec, Ludwig W**, *The A to Z of Afghan Wars, Revolutions and Insurgencies*, Vol. 30, Scarecrow Press, 2010.
- , *Historical dictionary of Afghanistan*, Scarecrow Press, 2012.
- Agnew, John Holmes, Henry T. Steele, and Walter Hilliard Bidwell**, *The Eclectic Magazine: Foreign Literature, Bind 52*, Leavitt, Throw and Company, 1861.
- Albert, Bill and Paul Henderson**, *South America and the First World War: The Impact of the War on Brazil, Argentina, Peru and Chile* Cambridge Latin American Studies, Cambridge University Press, 1988.
- Alvarez, David**, *The Pope’s Soldiers: A Military History of the Modern Vatican*, University Press of Kansas, 2011.

- Amersfoort, Herman and Piet H. Kamphuis**, *May 1940: The Battle for the Netherlands*, Leiden, The Netherlands: Brill, 2010.
- Andersen, Viggo**, *Lademanns våbenleksikon*, Kbh.: Lademann, 1991.
- Andersson, L.**, *A History of Chinese Aviation: Encyclopedia of Aircraft and Aviation in China Until 1949*, AHS of ROC, 2008.
- Andrade, J.M.**, *Spanish and Portuguese Military Aviation*, Midland Counties Publ., 1977.
- , *Latin-American Military Aviation Military air arms*, Midland Counties Publications, 1982.
- Arboit, Gérald**, “The Gendarmerie of Luxembourg,” *European Police Forces and Law Enforcement in the First World War*, 2019, pp. 141–155.
- Archer, C.I.**, *World History of Warfare Tactics & Strategies*, University of Nebraska Press, 2002.
- Archer, Denis H. R., ed.**, “Jane’s Infantry Weapons 1976,” 1976.
- , **ed.**, “Jane’s Infantry Weapons 1977,” 1977.
- , **ed.**, “Jane’s Infantry Weapons 1978,” 1978.
- Armémuseum**, “Exhibition,” Personal visit, Stockholm n.d. Date of visit: 2017.
- Asquith, S. and C. Warner**, *New Model Army 1645–60 Men-at-Arms*, Bloomsbury USA, 1981.
- Avram, V. and A. Armă**, *Aeronautica română în Războiul de Întregire Națională: 1916-1919 : [album]* Vremea aviației, Vremea, 2018.
- Baldry, John**, “Anglo-Italian Rivalry in Yemen and ‘Asīr 1900-1934,” *Die Welt des Islams*, 1976, pp. 155–193.
- Balkelis, Tomas**, *War, revolution, and nation-making in Lithuania, 1914-1923*, Oxford University Press, 2018.
- Ball, R.W.D.**, *Mauser Military Rifles of the World*, Krause Publications, 2011.
- Basadre, J.**, *La iniciación de la república: contribución al estudio de la evolución política y social del Perú* number vb. 1–2. In ‘Biblioteca Clásicos del Perú.’, F. y E. Rosay, 1930.

- Bastable, Marshall J.**, “From Breechloaders to Monster Guns: Sir William Armstrong and the Invention of Modern Artillery, 1854-1880,” *Technology and Culture*, 1992, 33 (2), 213–247.
- Bateman, M.**, “The Geography of Defence - an Overview,” in M. Bateman and R. Riley, eds., *The Geography of Defence*, Routledge, 1987.
- Bentley, Richard**, *The United Service Journal*, Richard Bentley, 1833.
- Bercuson, David J.**, *Canada’s Air Force: The Royal Canadian Air Force at 100*, University of Toronto Press, 2024.
- Berend, I. and T.I. Berend**, *An Economic History of Nineteenth-Century Europe: Diversity and Industrialization*, Cambridge University Press, 2013.
- Beskrovnyi, Liubomir Grigorevich**, *The Russian Army and Fleet in the Nineteenth Century: Handbook of Armaments, Personnel, and Policy.*, Academic International Press, 1996.
- Betz, F.**, *Managing Technological Innovation: Competitive Advantage from Change*, Wiley, 2003.
- Bisher, J.**, *The Intelligence War in Latin America, 1914-1922*, McFarland, Incorporated, Publishers, 2016.
- Bishop, C.**, *The Encyclopedia of Weapons of World War II*, MetroBooks, 2002.
- Bishop, Donald M.**, “Shared Failure: American Military Advisors in Korea, 1888–1896,” *Transactions of the Royal Asiatic Society, Korea Branch*, 1983, 58, 53–76.
- Bjerg, Chr. Ole and Ole L. Frantzen**, *Danmark i krig*, Politiken, 2008.
- Black, J.**, *The Cambridge Illustrated Atlas of Warfare: Renaissance to Revolution, 1492-1792* number vb. 2. In ‘Cambridge Illustrated Atlases.’, Cambridge University Press, 1996.
- , *European Warfare, 1494-1660 Warfare and history : Military History/European History*, Routledge, 2002.
- , *A History of Artillery*, Rowman & Littlefield Publishers, 2023.
- Black, Jeremy**, *War and the World: Military Power and the Fate of Continents, 1450-2000*, Yale University Press, 1998.

- Blaufarb, Rafe**, “Arms for revolutions: Military demobilization after the Napoleonic Wars and Latin American independence,” in “War, Demobilization and Memory: The Legacy of War in the Era of Atlantic Revolutions,” Springer, 2016, pp. 100–116.
- Bloomfield, L.P. and A.C. Leiss**, *The Control of Local Conflict: A Design Study on Arms Control and Limited War in the Developing Areas* number vb. 3. In ‘ACDA/WEC.’, Center for International Studies, Massachusetts Institute of Technology, 1967. Prepared for the U.S. Arms Control and Disarmament Agency.
- Boyne, Walter J**, “How the Predator grew teeth,” *Air Force Magazine*, 2009, 92 (7), 42–45.
- Boys, James D**, “Predator’s Progress: the bureaucratic challenges to the Clinton administration’s development and deployment of Unmanned Aerial Vehicles (1993-2001),” *Intelligence and National Security*, 2023, 38 (4), 538–557.
- Bridgman, Leonard, ed.**, “Jane’s All the World’s Aircraft, 1950-51,” 1950.
- Brooks, Charles Morris**, *Guarding the Crossroads: Security and Defense of the Panama Canal*, Bloomsbury Publishing, 2003.
- Brown, L Carl**, *The Tunisia of Ahmad Bey, 1837-1855*, Princeton University Press, 1975.
- Brown, Sidney**, “Nagasaki in the Meiji Restoration: Choshu Loyalists and British ArmsMerchants,” *Crossroads: A Journal of Nagasaki History and Culture* 1, 1994.
- Brown, Sidney DeVere**, “Nagasaki in the Meiji Restoration: Choshu loyalists and British arms merchants,” *Crossroads: A journal of Nagasaki history and culture*, 1991, 1, 1–18.
- Bruce, JM**, “A History of Martinsyde Aircraft,” *The Aeronautical Journal*, 1968, 72 (693), 755–770.
- Bulgarian Artillery**, “Website,” <https://www.bulgarianartillery.it> n.d. Accessed: 2017.
- Bullard, Reader and Edward Christian Hodgkin**, *Two kings in Arabia: letters from Jeddah, 1923-5 and 1936-9*, Ithaca Press, 1993.
- Burroughes, Hugh**, “A Short History of Glosters,” *The Aeronautical Journal*, 1969, 73 (708), 1029–1037.

- Bury, J.P.T.**, *The New Cambridge Modern History: Volume 10, The Zenith of European Power, 1830-70* Cambridge histories online, Cambridge University Press, 1960.
- Busk, H.**, *The Rifle: And how to Use It. Comprising a Description of that Valuable Weapon in All Its Varieties*, Routledge, Warnes, and Routledge, 1861.
- Canadiansoldiers.com**, “Website,” <https://canadiansoldiers.com> n.d. Accessed: 2017.
- Cappellano, Filippo and Pier Paolo Battistelli**, *Italian Light Tanks: 1919-45*, Vol. 191, Bloomsbury Publishing, 2012.
- Carman, W.Y.**, *A History of Firearms: From Earliest Times to 1914*, Dover Publications, 1955.
- Cashner, B. and S. Noon**, *The FN FAL Battle Rifle Weapon*, Bloomsbury Publishing, 2013.
- Centro de Estudios Históricos del Ejército**, “Website,” <https://www.cehist.mil.ec> n.d. Accessed: 2017.
- Chamberlain, Peter and Chris Ellis**, *Pictorial History of Tanks of the World, 1915-45*, Stackpole Books, 1973.
- Charney, Michael**, *Southeast Asian Warfare, 1300-1900*, Brill, 2018.
- Chartrand, R. and R. Hook**, *The Mexican Adventure 1861-67 Men-at-Arms*, Bloomsbury USA, 1994.
- Chinn, G.M.**, *The Machine Gun: History, Evolution, and Development of Manual, Automatic, and Airborne Repeating Weapons*, U.S. Government Printing Office, 1951.
- Chivers, C.J.**, *The Gun: The Story of the AK-47*, Penguin, 2010.
- CIA**, “Communist aid to north vietnam (s-2659),” 1968.
- , “Liberia,” *National Intelligence Survey*, 1973.
- Ciganov, Yuri**, “Air Force of the Republic of Latvia,” *National Encyclopedia of Latvia*, 2024, 43.
- Cipolla, C.M.**, *Guns, Sails and Empires: Technological Innovation and the Early Phases of European Expansion, 1400-1700* Funk and Wagnall’s Book Series, Pantheon Books, 1965.

Clayton, A., *Frontiersmen: Warfare in Africa Since 1950* Frontiersmen: Warfare in Africa Since 1950, UCL Press, 1999.

Colburn's United Service Magazine and Naval and Military Journal

Colburn's United Service Magazine and Naval and Military Journal, number Part III, Henry Colburn, 1853.

College Hill Arsenal, "Extremely Rare Belgian Made Spanish Contract Percussion Rifle: Carabina Rayada Modelo Belga," <https://collegehillarsenal.com/Extremely-Rare-Belgian-Made-Spanish-Contract-Percussion-Rifle-Carabina-Rayada-Modelo-Belga> n.d. Accessed: 2024.

Colt, "Colt's Patent Fire Arms Manufacturing Company records," CT State Archive <https://cslarchives.ctstatelibrary.org/repositories/2/resources/623> n.d. Accessed: 2017.

Comin, Diego, William Easterly, and Erick Gong, "Was the wealth of nations determined in 1000 BC?," *American Economic Journal: Macroeconomics*, 2010, 2 (3), 65–97.

Condono, Mark R., "Pictorial History of the Philippine Air Force: 50th Anniversary, 1947-1997," *Air & Space Power Journal*, 2005, 19 (3), 110–111.

Connell, D. and T. Killion, *Historical Dictionary of Eritrea Historical Dictionaries of Africa*, Scarecrow Press, 2011.

Cooke, William Smith, *The Ottoman Empire and Its Tributary States-excepting Egypt, with a Sketch of Greece. Compiled by Captain WS Cooke... With Maps*, W. Clowes&Son, 1876.

Cooper, T. and M. Sipos, *Wings of Iraq: Volume 1 - The Iraqi Air Force, 1931-1970 Middle East@war*, Helion Limited, 2020.

Cooper, Tom, *Hot Skies Over Yemen: Aerial Warfare Over the Southern Arabian Peninsula: 1962-1994*, Casemate Group, 2017.

Corbin, Henry C., *Colonial Army Systems of the Netherlands, Great Britain, France, Germany, Portugal, Italy, and Belgium 1901*.

- Correlates of War Project**, “State System Membership List, v2016,” Online, <http://correlatesofwar.org>, 2017.
- Cosmas, Graham A**, *The Joint Chiefs of Staff and the War in Vietnam, 1960-1968: Part 3*, Washington, D.C.: Office of Joint History, Office of the Chairman of the Joint Chiefs of Staff, 2009.
- Cronin, Stephanie**, *The making of modern Iran: state and society under Riza Shah, 1921-1941*, Routledge, 2003.
- , “Tribes, coups and princes: Building a modern army in Saudi Arabia,” *Middle Eastern Studies*, 2013, 49 (1), 2–28.
- Cruz, A.J.**, *Nicaragua’s Conservative Republic, 1858–93 St Antony’s Series*, Palgrave Macmillan UK, 2016.
- Cynk, J.B.**, *Polish Aircraft, 1893-1939 National Aircraft Series*, Putnam, 1971.
- Danmarks Flymuseum**, “Forsvarets fly fra 1945,” <https://flymuseum.dk/fly-1945-2004> n.d. Accessed: 2024.
- Davies, Norman.**, *White eagle, red star : the Polish-Soviet War, 1919-20*, London: Macdonald, 2012.
- Davis, Henry J**, “Gunshot Injuries in the Late Grecoturkish War, with Remarks upon Modern Projectiles,” *British Medical Journal*, 1897, 2 (1929), 1789.
- Dawson, Paul Lindsay**, *Napoleon’s German Artillery*, Lulu. com, 2011.
- Derry, M. and N. Robinson**, *Hawker Hurricane: and Sea Hurricane Flight Craft*, Pen & Sword Books Limited, 2014.
- Donald, D.**, *Air Combat Legends: Supermarine Spitfire, Messerschmitt Bf109 Air Combat Legends*, AIRtime, 2004.
- Dorning, WA**, “A concise history of the South African Defence Force (1912-1987),” *Scientia Militaria: South African Journal of Military Studies*, 1987, 17 (2), 1–23.

- Dreyfus, Pablo, Benjamin Lessing, Marcelo de Sousa Nascimento, and Júlio Cesar Purcena**, *Small Arms in Brazil: Production, Trade, and Holdings, Small Arms Survey*, 2010.
- Drury, Ian**, *The Russo-Turkish War 1877*, Bloomsbury Publishing, 1994.
- Dunn, John**, “Egypt’s nineteenth-century armaments industry,” *The Journal of Military History*, 1997, 61 (2), 231.
- Dunn, John P**, *Khedive Ismail’s army*, Routledge, 2004.
- Dupuy, T.N. and W. Blanchard**, *The Almanac of World Military Power The Almanac of World Military Power*, R. R. Bowker Company, 1970.
- Duvernay, T.**, *Sinmiyangyo: The 1871 Conflict Between the United States and Korea*, Seoul Selection, 2020.
- Edelman, Marc and Jayne Hutchcroft**, “Costa Rica: Modernizing the non-Army,” *NACLA Report on the Americas*, 1984, 18 (2), 9–11.
- Edwards, P.M.**, *Korean War Almanac Almanacs of American wars*, Facts On File, Incorporated, 2006.
- , *United Nations Participants in the Korean War: The Contributions of 45 Member Countries*, McFarland, Incorporated, Publishers, 2013.
- Elgood, P.G.**, *Egypt and the Army*, Eschenburg Press, 2018.
- Elgood, R. and H.L. Blackmore**, *Firearms of the Islamic World: In the Tareq Rajab Museum*, Kuwait, Bloomsbury Academic, 1995.
- Ellis, J. and E.C. Ezell**, *The Social History of the Machine Gun A Johns Hopkins paperback : History of technology*, Johns Hopkins University Press, 1975.
- Encoclopædia Iranica**, “Firearms i. History,” <https://www.iranicaonline.org/articles/firearms-i-history> n.d. Accessed: 2017.
- Engels, Friedrich**, *Engels as military critic*, Manchester University Press, 1959.

- English, A.J.**, *Armed Forces of Latin America: Their Histories, Development, Present Strength, and Military Potential*, Jane's, 1984.
- , *Irish Army Orders of Battle 1923-2004*, Tiger Lily Publications LLC, 2005.
- Epstein, M and J. Scott-Keltie**, eds, “*The Stateman’s Yearbook*,” 1921.
- and —, eds, “*The Stateman’s Yearbook*,” 1923.
- Ēriks Jēkabsons**, “*Latvian Riflemen*,” in “1914-1918-online. *International Encyclopedia of the First World War*,” Freie Universit 2014.
- Esercito Italiano**, “M4 ”Sherman” Medium Tank -1946,” <https://www.esercito.difesa.it/en/History/Pagine/M4-Sherman-Medium-Tank.aspx> n.d. Accessed: November 2024.
- Esposito, G. and G. Rava**, *Armies of the War of the Triple Alliance 1864–70: Paraguay, Brazil, Uruguay & Argentina Men-at-Arms*, Bloomsbury USA, 2015.
- and —, *Armies of the War of the Pacific 1879–83: Chile, Peru & Bolivia Men-at-Arms*, Bloomsbury Publishing, 2016.
- Esposito, Gabriele**, *Armies of the Italian Wars of Unification 1848-70 (1): Piedmont and the Two Sicilies*, Vol. 512, Bloomsbury Publishing, 2017.
- , *Armies of the Italian Wars of Unification 1848-70 (2): Papal States, Minor States & Volunteers*, Osprey Publishing, 2018.
- , *The Paraguayan War 1864–70: The Triple Alliance at stake in La Plata*, Vol. 342, Bloomsbury Publishing, 2019.
- Esteve, M.**, *Sherman: The M4 Tank in World War II Casemate Illustrated Special*, Casemate Publishers, 2020.
- Ezell, E.C.**, *The Great Rifle Controversy: Search for the Ultimate Infantry Weapon from World War II Through Vietnam and Beyond* G - Reference, Information and Interdisciplinary Subjects Series, Stackpole Books, 1984.

- Fallan, Kjetil**, *“Nordic noir: Deadly design from the peacemongering periphery,”* *Design and Culture*, 2015, 7 (3), 377–402.
- Farcau, Bruce W**, *The Ten Cents War: Chile, Peru, and Bolivia in the War of the Pacific, 1879-1884*, Greenwood Publishing Group, 2000.
- Farrokh, Kaveh**, *Iran at war: 1500-1988*, Bloomsbury Publishing, 2011.
- Fay, Sidney B.**, *“The Beginnings of the Standing Army in Prussia,”* *The American Historical Review*, 1917, 22 (4), 763–777.
- Featherstone, D.F.**, *Victorian Colonial Warfare - Africa: From the Campaigns Against the Kaffirs to the South African War*, Bok Bks., 1992.
- Fergusson, Arthur Walsh**, *Mexico number 9*, US Government Printing Office, 1891.
- Ferling, John**, *Almost a miracle: The American victory in the War of Independence*, Oxford University Press, 2007.
- Field, R.**, *Spanish-American War, 1898* *Brassey’s history of uniforms*, Brassey’s, 1998.
- Fiorenza, E. S. Brodie B. and F.M.K. Brodie**, *From Crossbow to H-bomb A Midland book*, MB 161, Indiana University Press, 1973.
- Fiorenza, Elia**, *“Industrial Growth and Socio-Economic Impact: An Analysis of Armi’s Manufacturing History in the Mongiana Industrial Village of Serre Calabria,”* *ESI Preprints*, 2024, 20 (5).
- Flores, Santiago and M Reyna Garza**, *Decades of Rebellion: Volume 1: Mexican Military Aviation in the Rebellions of the 1920s*, Vol. 40, Helion and Company, 2024.
- Ford, R.**, *The World’s Great Rifles*, Barnes & Noble Books, 1998.
- Foreign Trade Division, Bureau of the Census**, *United States Exports Statistics Under the Lend-Lease Program various years*.
- Forsvar, Det Danske**, *Jydske Dragonregiment, pansrede køretøjer fra 1945*, [ny udgave] ed., S.l.: s.n., 2008.

- Forsvarsmuseet, ed.**, *Skytevåpen benyttet av Forsvaret etter 1859 Forsvarsmuseets skrifter, Forsvarsmuseet, 2014.*
- Foss, Christopher F., ed.**, “Jane’s Armour and Artillery 1999-2000,” 1999.
- Fourie, D.**, *War Potentials of the African States South of the Sahara Research papers, Jan Smuts House, 1968.*
- Franke, Ulrike Esther**, “The global diffusion of unmanned aerial vehicles (UAVs), or ‘drones’,” in “Precision strike warfare and international intervention,” Routledge, 2014, pp. 52–72.
- Frantzen, O.F., O.L. Frantzen, and Tøjhusmuseet**, *Dansk landartilleri 1400-2000: en oversigt, Tøjhusmuseet, 1997.*
- für Kriegsgeschichte 1868, Generalstabsbureau**, *Österreichs Kämpfe im Jahr 1866, Hansebooks, 2016.*
- Gabriel, Richard A and Karen S Metz**, “A Short History of War: The Evolution of Warfare and Weapons. Professional Readings in Military Strategy Number 5,” Technical Report, ARMY WAR COLLEGE CARLISLE BARRACKS PA STRATEGIC STUDIES INSTITUTE 1992.
- Gamziukas, A., G. Ramoška, and Lietuvos Aviacijos muziejus**, *Lietuvos karinė aviacija: 1919-1940, Plieno sparnai, Lietuvos Aviacijos muziejus, 1999.*
- Gander, T.**, *The Machine Gun: A Modern Survey Haynes Automotive Repair Manual Series, Patrick Stephens, 1993.*
- Gander, Terry**, *The Machine Gun 1993.*
- Gann, Lewis H**, “Portugal, Africa, and the Future,” *The Journal of Modern African Studies*, 1975, 13 (1), 1–18.
- Garrett, Richard J**, *The defences of Macau: forts, ships and weapons over 450 years, Vol. 1, Hong Kong University Press, 2010.*
- Gelvin, J.L. and N. Green**, *Global Muslims in the Age of Steam and Print A Philip e Lilienthal Book in Asian Studies, University of California Press, 2013.*

- General Research Division, The New York Public Library**, “*Garde civ. Belge. Etat-major. Arr. Royal 4 juillet, 1835 ; Garde civique belge. Artillerie - 1835,*” <https://www.keymilitary.com/article/south-africas-uavs-flying-high> n.d. New York Public Library Digital Collections. Accessed September 12, 2024.
- Gilbert, SCP and W Joshua**, “*Arms for the Third World,*” 1969.
- Gill, John H**, *With eagles to glory: Napoleon and his German allies in the 1809 campaign*, Greenhill Books, 2018.
- Gillespie, A.**, *A History of the Laws of War: Volume 2: The Customs and Laws of War with Regards to Civilians in Times of Conflict*, Bloomsbury Publishing, 2011.
- Given, B.J.**, *A Most Pernicious Thing: Gun Trading and Native Warfare in the Early Contact Period* Carleton library, Carleton University Press, 1994.
- Glancey, Jonathan**, *Spitfire: the biography*, Atlantic Books Ltd, 2014.
- Glantz, David**, *The Soviet strategic offensive in Manchuria, 1945: 'August storm'*, Routledge, 2003.
- GlobalSecurity**, “*The Military After Independence,*” <https://www.globalsecurity.org/military/world/caribbean/dr-army-history-1.htm> n.d. Accessed: July 2024.
- Goldberg, A. and USA Air Force**, *A History Of the United States Air Force, 1907-1957*, D. Van Nostrand, 1957.
- Götz, Hans-Dieter**, *Militärgewehre und Pistolen der deutschen Staaten 1800-1870*, Motorbuch-Verlag, 1978.
- Government of Canada**, *Canadian Military Heritage Volume 3 (1872–2000)*, Department of National Defence, 2017.
- , “*Hawker Hurricane,*” <https://www.canada.ca/en/air-force/services/aircraft/hawker-hurricane.html> n.d. Accessed: 2024.
- Government of New Zealand**, “*NZ History,*” <https://nzhistory.govt.nz> n.d. Accessed: 2017.

- Graf, J.F.**, *Standard Catalog of Civil War Firearms*, Krause Publications, 2008.
- Graff, D.A. and R. Higham**, *A Military History of China*, University Press of Kentucky, 2012.
- Grant, Jonathan**, “Rethinking the Ottoman” decline”: Military technology diffusion in the Ottoman Empire, fifteenth to eighteenth centuries,” *Journal of World History*, 1999, pp. 179–201.
- , “The sword of the Sultan: Ottoman arms imports, 1854-1914,” *The Journal of Military History*, 2002, 66 (1), 9.
- Grant, Jonathan A**, *Rulers, guns, and money: the global arms trade in the age of imperialism*, Harvard University Press, 2008.
- Great Britain. War Office. Intelligence Branch**, *The Armed Strength of Belgium*, H.M. Stationery Office, 1882.
- , *The armed strength of Russia*, H.M. Stationery Office, 1882.
- , *The armed strength of Spain*, H.M. Stationery Office, 1883.
- Great Britain. War Office. Intelligence Division**, *The Armed Strength of Denmark*, H.M. Stationery Office, 1874.
- , *The Armed Strength of the German Empire: Prepared for the Intelligence Division of the War Office number vb. 1. In ‘The Armed Strength of the German Empire: Prepared for the Intelligence Division of the War Office.’*, her Majesty’s stationery office, 1874.
- Great Britain War Office. Intelligence Division**, *The armed strength of France*, Quartermaster General’s Department, 1877.
- , *The Armed Strength of Switzerland*, H.M. Stationery Office, 1880.
- Green, M.**, *American Artillery: From 1775 to the Present Day*, Pen & Sword Books, 2021.
- Grey, Jeffrey**, *A military history of Australia*, Cambridge University Press, 1999.
- Gudju, I., G. Iacobescu, and O. Ionescu**, *Romanian aeronautical Constructions, 1905-1974*, Military Publishing House, 1974.

- Gyula, Viktor Kozlik Sarhidai and Gyorgy Punka**, *Hungarian Eagles: A Magyar Liralyi Honved Legiero 1920-1945*, Hikoki Pubn, 1996.
- Haliburton, Gordon M**, “The Prophet Harris and the Grebo Rising in 1910,” *Liberian Studies Journal*, 1970, 3 (1), 31–39.
- Hall, Major Darrell D.**, “Field Artillery of the British Army 1860-1960, Part I,” *Military History Journal*, 1972, 2 (4).
- Hansen, P. W.**, “Var en offensiv mulig? Nogle vaabenhistoriske Betragtninger til Generalstabssværket: Dybbøl 1864,” <https://krigsvidenskab.dk/emne/var-en-offensiv-mulig> 1946. Accessed: 2024.
- Hariri, Jacob Gerner and Asger Mose Wingender**, “Jumping the gun: how dictators got ahead of their subjects,” *The Economic Journal*, 2023, 133 (650), 728–760.
- and —, “Arms technology and the coercive imbalance outside Western Europe,” *The Journal of Politics*, 2024, 86 (4), 1557–1573.
- and —, “A new data set on arms technology adoption 1816-2023,” *Unpublished manuscript*, 2025.
- Harper, HJC**, “The Development of the Fighter Aeroplane,” *Royal United Services Institution. Journal*, 1939, 84 (535), 553–560.
- Hart, John Mason**, “Empire and Revolution,” in “Empire and Revolution,” *University of California Press*, 2002.
- Haskew, Michael E**, *M4 Sherman Tanks: The Illustrated History of America’s Most Iconic Fighting Vehicles*, Voyageur Press, 2016.
- Headrick, Daniel R**, “The tools of imperialism: technology and the expansion of European colonial empires in the nineteenth century,” *The Journal of Modern History*, 1979, 51 (2), 231–263.
- Heath, I.**, *Armies of the Nineteenth Century: Burma and Indo-China Armies of the Nineteenth Century: Asia*, Foundry Books, 2003.

Heath, Ian, *Armies of the 19th Century: Japan and Korea* 2011.

Heinl, Robert Debs and Nancy Gordon Heinl, *Written in blood: the story of the Haitian people 1492-1995*, University Press of America, 2023.

Hellenic Air Force, “Historical Aircraft,” <https://www.haf.gr/en/history/historical-aircraft/> n.d. Accessed: October 2024.

Herrmann, D.G., *The Arming of Europe and the Making of the First World War* Online access with JISC subscription agreement: ACLS Humanities E-Books, Princeton University Press, 1996.

Herwig, H.H., *Germany’s Vision of Empire in Venezuela, 1871-1914* Princeton Legacy Library, Princeton University Press, 1986.

Hill, James Michael, “The distinctiveness of Gaelic warfare, 1400-1750,” *European History Quarterly*, 1992, 22 (3), 323–345.

Hobart, Frank William Archer, ed., “Jane’s Infantry Weapons 1975,” 1974.

Hoch, Georg, *Messerschmitt Me 109 in Swiss Air Force Service*, Schiffer Publishing, Limited, 2008.

Hofschröer, Peter, *The Hanoverian Army of the Napoleonic Wars*, Osprey Publishing, 1989.

Hogg, I.V., *History of Artillery. Special Artwork by Joh* 1974.

—, *Allied Artillery of World War One*, Crowood Press, Limited, 1998.

Holden, R.H., *Armies Without Nations: Public Violence and State Formation in Central America, 1821-1960*, Oxford University Press, 2004.

Holmquist, Bengt M, Birger Gripstad, and Birger Rönnbäck, *Svensk armémateriel under 350 år* 1980.

HOOTON, E.R., *Prelude to the First World War: The Balkan Wars 1912-1913*, Fonthill Media, 2017.

Hostettler, Ernst, *Hand-und Faustfeuerwaffen der Schweizer Armee von 1842 bis heute*, Buch-Vertriebs-GmbH, 1987.

Hungariae, “Manowar’s Hungarian weapons & History,” <http://www.hungariae.com> n.d.
Website with information collected from sources in Hungarian. Accessed: 2017.

Husain, Asad, *British India’s Relations with the Kingdom of Nepal, 1857–1947: A Diplomatic History of Nepal*, Routledge, 2023.

Imperial Iranian Air Force, “IIAF History,” <https://web.archive.org/web/20191205191002/https://www.iaf.net/history/iaf.html> n.d. Accessed: 2024.

International Institute for Strategic Studies, *The Military Balance 1973-1974*, Chatto & Windus for the International Institute for Strategic Studies, 1973.

—, *The Military Balance 2004*, Routledge, 2004.

—, *The Military Balance 2005*, Routledge, 2005.

—, *The Military Balance 2011*, Routledge, 2011.

—, *The Military Balance 2017*, Routledge, 2017.

—, *The Military Balance 2018*, Routledge, 2018.

—, *The Military Balance 2022*, Routledge, 2022.

—, *The Military Balance 2023*, Routledge, 2023.

—, *The Military Balance 2025*, Routledge, 2023.

Jackson, Robert, *The encyclopedia of military aircraft*, Parragon, 2002.

Jacob, HFS, “The Yemen,” *Journal of the Central Asian Society*, 1925, 12 (1), 26–42.

Jaeger Platoon, “Finnish Army 1918-1945 website,” <http://www.jaegerplatoon.net> n.d.
Accessed: 2017.

Jaermuseet, “Website of the museum,” <https://www.jaermuseet.no> n.d. Accessed: 2017.

Jager, H., *German Artillery of World War One*, Crowood Press UK, 2001.

- James D. Julia Antique Auction house**, “BRITISH VICKERS MODEL 1912 MACHINE GUN MADE FOR EL SALVADOR GOVERNMENT,” <https://jamesdjulia.com/item/1014-369/> 2014. Accessed: 2017.
- , “EXCEEDINGLY RARE DWM 1909 COMMERCIAL MAXIM MACHINE GUN MADE FOR THE GOVERNMENT OF COSTA RICA,” <https://jamesdjulia.com/item/1008-369/> 2014. Accessed: 2017.
- , “1906 KRUPP MOUNTAIN HOWITZER,” <https://jamesdjulia.com/item/2137-373/> 2015. Accessed: 2017.
- James, H.**, *Krupp: A History of the Legendary German Firm*, Princeton University Press, 2012.
- Jastrzemski, Frank**, “The Battle of Puebla, Cinco de Mayo, and the Mexican and French Guns,” <https://www.usconcealedcarry.com/blog/mexican-and-french-guns-cinco-de-mayo/> 2022. Accessed: July 2024.
- Jenzen-Jones, N.R. and D. Spleeters**, *Identifying & Tracing the FN Herstal FAL Rifle: Documenting signs of diversion in Syria and beyond ARES Field Guide*, Armament Research Services Pty. Limited, 2015.
- Jessup, John**, “Romania Celebrates the Centennial of Its Independence,” *Military Affairs: The Journal of Military History, Including Theory and Technology*, 1978, pp. 147–149.
- Jowett, P.**, *China’s Wars: Rousing the Dragon 1894-1949*, Bloomsbury Publishing, 2013.
- and **S. Walsh**, *Latin American Wars 1900–1941: “Banana Wars,” Border Wars & Revolutions Men-at-Arms*, Bloomsbury Publishing, 2018.
- Jowett, Philip and Alejandro de Quesada**, *The Mexican Revolution 1910–20*, Vol. 137, Bloomsbury Publishing, 2013.
- Kahaner, Larry**, *AK-47: the weapon that changed the face of war*, Turner Publishing Company, 2010.
- Kaplonski, C.**, *Twentieth Century Mongolia*, Brill, 2021.

- Katcher, P. and G. Embleton**, *The Mexican-American War 1846–48 Men-at-Arms*, Bloomsbury USA, 1976.
- Kaufmann, Joseph Erich and Hanna Wanda Kaufmann**, *The Forts and Fortifications of Europe 1815-1945: The Neutral States: The Netherlands, Belgium and Switzerland, Pen and Sword*, 2014.
- Kedleston, G.N.C.C.**, *Persia and the Persian Question number vb. 1. In ‘Persia and the Persian Question.’*, Longmans, Green & Company, 1892.
- Kelly, E.R.**, *Kelly’s Post Office Guide to London in 1862, Visitor’s Handbook to the Metropolis, and Companion to the Directory. With Map London low life. Street culture, social reform and the Victorian underworld*, Kelly & Company, 1862.
- Key Military**, “South Africa’s UAVs flying high,” <https://www.keymilitary.com/article/south-africas-uavs-flying-high> n.d. Accessed: August 2024.
- Kilinskas, Kestutis**, “Supplying the Lithuanian army with weapons in war against bolsheviks and Bermond-Avalov formations 1919 at the clash of interests between the Entente and Germany,” *Latvijas Universitātes Žurnāls. Vēsture*, 2024, (17), 30–46.
- Kimball, Lieut. W. W.**, “Machine guns,” *Proceedings of the United States Naval Institute*, 1881, 7 (3).
- Kinard, Jeff**, *Artillery: An illustrated history of its impact*, ABC-CLIO, 2007.
- Kindersley, Limited Dorling**, *Firearms: An Illustrated History*, DK Publishing, 2014.
- Kirchner, Walther**, “One hundred years krupp and russia, 1818-1918,” *VSWG: Vierteljahrschrift für Sozial-und Wirtschaftsgeschichte*, 1982, 69 (H. 1), 75–108.
- Kirkland, Faris R.**, “French air strength in May 1940,” *Air power history*, 1993, 40 (1), 22–34.
- Kliment, C.K. and V. Francev**, *Czechoslovak Armored Fighting Vehicles 1918-1948 Schiffer Book for Collectors*, Schiffer Publishing, Limited, 1997.
- Klinkert, Wim et al.**, “‘A matter of the most vital importance’: Military Aviation in the Netherlands 1914-1920,” *Baltic Security and Defence Review*, 2010, 12 (1), 52–75.

Knauerhase, Ramon, “*Saudi Arabia: A Brief History*,” *Current History*, 1975, 68 (402), 74–88.

Kofoed, Hans, *Danske militærfly gennem 50 år : 1912-62*, Flyv’s forlag, 1962.

Kohn, George Childs, *Dictionary of wars*, Routledge, 1999.

Kongstad, J.O., *Den militære flyvnings udvikling i Danmark: 1910-1932* University of Southern Denmark studies in history and social sciences, Syddansk Universitetsforlag, 2008.

Krause, Keith, *Arms and the state: patterns of military production and trade number 22*, Cambridge University Press, 1992.

Krigsmuseet, “*Exhibition*,” *Personal visit*, Copenhagen n.d. Formerly Tøjhusmuseet. Date of visit: 2017.

Kristensen, Hans M and Matt Korda, “*Indian nuclear weapons, 2022*,” *Bulletin of the Atomic Scientists*, 2022, 78 (4), 224–236.

—, —, **Eliana Johns, and Mackenzie Knight**, “*Indian nuclear weapons, 2024*,” *Bulletin of the Atomic Scientists*, 2024, 80 (5), 326–342.

—, —, —, **and** —, “*North Korean nuclear weapons, 2024*,” *Bulletin of the Atomic Scientists*, 2024, 80 (4), 251–271.

Kuzmarov, Jeremy, *Modernizing repression: Police training and nation building in the American century*, Univ of Massachusetts Press, 2012.

—, “*Military Assistance Programs since 1945*,” in “*Oxford Research Encyclopedia of American History*” 2017.

La Rédaction de l’Almanach de Gotha, ed., “*Almanach de Gotha*,” 1895.

—, **ed.**, “*Almanach de Gotha*,” 1902.

—, **ed.**, “*Almanach de Gotha*,” 1905.

—, **ed.**, “*Almanach de Gotha*,” 1910.

—, **ed.**, “*Almanach de Gotha*,” 1923.

- Laffin, J.**, *On the Western Front: Soldier's Stories from France and Flanders*, History Press, 1982.
- Langley, L.D. and T.D. Schoonover**, *The Banana Men: American Mercenaries and Entrepreneurs in Central America, 1880-1930*, University Press of Kentucky, 2014.
- League of Nations**, *Armaments Yearbook: General and Statistical Information Publications: Disarmament*, League of Nations.
- Leary, William M.**, "A Short History of the Royal Thai Air Force," *Aerospace Historian*, 1982, 29 (2), 93–97.
- Lenk, T., J.F. Hayward, and G.A. Urquhart**, *The Flintlock: Its Origin, Development, and Use*, Skyhorse, 1965.
- Lesčius, Vytautas**, "Lietuvos kariuomenė Nepriklausomybės kovose," 2004.
- Lidin, Olof G**, *Tanegashima-The Arrival of Europe in Japan.*, Routledge, 2002.
- Liekis, Algimantas**, *Lietuvių karyba ir ginkluotė (iki 1940 m.): monografija, Person. im."* Lietuvos mokslas" red, 2002.
- Lillevik, F.**, *Forsvarets luftflaade 1912-1982: beskrivelser av våre bevarte militære fly* Forsvarsmuseets småskrift, Forsvarsmuseet, 1984.
- Lindsay, M.**, *One Hundred Great Guns: An Illustrated History of Firearms*, Walker, 1968.
- Lithgow Small Arms Factory Museum**, "Archives," Data kindly compiled for us by Kerry Guerin and Debbie Smith n.d.
- Lithuanian Armed Forces**, "History," <https://kariuomene.lt/en/who-we-are/history/23563> n.d. Accessed: 2024.
- Littell, E. and R.S. Littell**, *Littell's Living Age number vb. 52*, T. H. Carter & Company, 1857.
- Loftin, Laurence K**, *Quest for performance: The evolution of modern aircraft number 468*, National Aeronautics and Space Administration, 1985.

- Lone, Stewart**, *Japan's First Modern War: Army and Society in the Conflict with China, 1894-5*, Springer, 1994.
- Longstaff, Major FV and A Hilliard Atteridge**, *The Book of the Machine Gun 1917*, Andrews UK Limited, 1917.
- Lothaire, Roger**, *L'artillerie légère de campagne belge de 1900 à 1940*, Editions du patrimoine militaire, 2011.
- Løvschall, F., T. Møller, and P. Meihs**, *Den nye Th. Møller: gamle Danske Militærvåben*, Devantier, 1977.
- Ludeke, A.**, *Tanks of the USSR, 1917-1945 Fact File*, Pen & Sword Books, 2017.
- MacCarron, D.**, *Wings Over Ireland: The Story of the Irish Air Corps*, Midland Publishing, 1996.
- Malkasian, Carter**, *The Korean War 1950-1953, Vol. 8*, Taylor & Francis, 2001.
- Malovany, Pesach**, *Wars of Modern Babylon: A History of the Iraqi Army from 1921 to 2003*, University Press of Kentucky, 2017.
- Manchester, William**, *The arms of Krupp 1587- 1968. The incredible true story of the family dynasty that built the German war machine*, Bantam books. Toronto, New York, London, 1968.
- Marcus, Harold G**, "The embargo on arms sales to Ethiopia, 1916-1930," *The International Journal of African Historical Studies*, 1983, 16 (2), 263-279.
- Margiotta, F.D. and J. Keegan**, *Brassey's Encyclopedia of Military History and Biography Schieffelin Collection*, Brassey's, 1994.
- Martin, Frederick, ed.**, "The Stateman's Yearbook," 1870.
- , ed., "The Stateman's Yearbook," 1876.
- , ed., "The Stateman's Yearbook," 1880.
- Maslov, Mikhail**, *Polikarpov I-15, I-16 and I-153 Aces*, Vol. 95, Bloomsbury Publishing, 2013.

- Mauritius Police Force, “Special mobile force,” https://police.govmu.org/police/?page_id=4926 n.d. New York Public Library Digital Collections. Accessed September 18, 2024.
- Maxim, H.S., *My Life*, Methuen & Company, Limited, 1915.
- Maximgun.de, “Website,” <https://www.maximgun.de> n.d. Accessed: 2017.
- McCann, Frank D., *Soldiers of the PÁj tria: A History of the Brazilian Army, 1889-1937*, Stanford University Press, 2003.
- McCollum, Ian, “The World Standard Maxim Gun,” <https://www.forgottenweapons.com/the-world-standard-maxim-gun/> 2016. Data from the sales books of the Maxim-Nordenfelt Guns and Ammunition Company.
- McCormack, John, *One Million Mercenaries: Swiss Soldiers in the Armies of the World*, Pen and Sword, 1993.
- McCracken Research Library, “MS 034 - Schuyler, Hartley & Graham Papers, 1868-1963,” <http://centerofthewest.libraryhost.com/?p=collections/findingaid&id=35&q=&rootcontentid=66914> n.d. Accessed: 2017.
- McGregor, Andrew, “The Tunisian Army in the Crimean War: A Military Mystery,” *Military History Online*, 2006, 22.
- McKenney, J.E. and Center of Military History (U S Army), *The Organizational History of Field Artillery 1775-2003 Army lineage series*, Center of Military History, United States Army, 2007.
- McLachlan, S., G. Embleton, and S. Embleton, *Medieval Handgonnes: The first black powder infantry weapons* Weapon, Bloomsbury Publishing, 2012.
- McMeiken, Frank, *Italian Military Aviation*, Midland Counties Publications Ltd., 1984.
- Meed, Douglas V, *The Mexican War 1846-1848*, Routledge, 2002.
- Mehl, H., *Naval Guns: 500 Years of Ship and Coastal Artillery*, Chatham, 2002.

- Mehrl, Marius and Paul W Thurner**, “*The interwar period international trade in arms: A new dataset*,” *Journal of Conflict Resolution*, 2025, 69 (2-3), 518–539.
- Menne, B. and G.H. Smith**, *Blood and Steel: The Rise of the House of Krupp*, L. Furman, Incorporated, 1938.
- Meredith, M.**, *Fortunes of Africa: A 5,000 Year History of Wealth, Greed and Endeavour*, Simon & Schuster UK, 2014.
- Merritt, W., G.W. Wolseley, M. Exner, J.L. Lewal, F. Kuhn, G. Goiran, and T.A. Janvier**, *The Armies of To-day: A Description of the Armies of the Leading Nations at the Present Time*, New York: Harper & Brothers Publishers, 1892.
- Mettler, Simon A and Dan Reiter**, “*Ballistic missiles and international conflict*,” *Journal of Conflict Resolution*, 2013, 57 (5), 854–880.
- Michaelis, O.**, *Nicaise’s Belgian Field Artillery*, W.C. & F.P. Church, 1872.
- Mikesh, R.C. and S. Abe**, *Japanese Aircraft, 1910-1941 Putnam Aviation Series*, Naval Institute Press, 1990.
- Milenky, Edward**, “*Arms Production and National Security in Argentina*,” *Journal of Interamerican Studies and World Affairs*, 8 1980, 22 (3), 267–288.
- Militair Weekblad**, “*Het Nederlandse stalen veldkanon van 8 cM*,” 1881, 1 (52).
- Militariarg.com**, “*Website*,” <http://www.militariarg.com> n.d. Accessed: 2017.
- Military guns of Europe**, “*Netherlands*,” <http://militarygunsofeurope.eu> n.d. Accessed: 2017.
- Miller, David**, *The illustrated directory of 20th cenutury guns*, Salamander Books Ltd., 2002.
- Miller, D.M.O.**, *The Illustrated Directory of Guns: A Collector’s Guide to Over 2,000 Military, Sporting and Antique Firearms*, Colin Gower Enterprices Limited, 2005.

- Missile Defense Project, “Jericho 3,” <https://missilethreat.csis.org/missile/jericho-3/> 2024. *Missile Threat, Center for Strategic and International Studies*, May 12, 2017, last modified April 23, 2024. Accessed: November 10, 2025.
- Møller, T., *Gamle danske militærvåben number vb. 1. In ‘Gamle danske militærvåben.’, Høst, 1963.*
- Monthaye, É., *Krupp and De Bange, T. Prosser & son, 1888.*
- Monthly, *The Overland, The Overland Monthly, Volume 44, The Overland Monthly, 1904.*
- Moore, Jason Nicholas, *Soviet Fighters of the Second World War, Fonthill Media, 2021.*
- Mordecai, A., *Report of Major Alfred Mordecai: Of the Ordnance Department Ex. doc. 60, G.W. Bowman, 1860.*
- Morewood, Steven, “Appeasement from strength: The making of the 1936 Anglo-Egyptian treaty of friendship and alliance,” *Diplomacy and Statecraft*, 1996, 7 (3), 530–562.
- Morillo, Stephen, Paul Lococo, and Jeremy Black, *War in World History: Society, Technology, and War from Ancient Times to the Present: Since 1500, McGraw-Hill, 2009.*
- Morrow, John H., *The Great War in the Air: Military Aviation from 1909 to 1921, University of Alabama Press, 2009.*
- Mortensen, Michael H., *Dansk artilleri indtil 1600, Tøjhusmuseet, 1999.*
- Muehlenbeck, P., *Czechoslovakia in Africa, 1945-1968, Palgrave Macmillan US, 2016.*
- Murphy, Justin D., *Military aircraft, origins to 1918: an illustrated history of their impact, Bloomsbury Publishing USA, 2005.*
- Museo Militar de Colombia, “Official website,” <https://www.museomilitar.co.com/en/> n.d. Accessed: 2017.
- Museu de Marinha, “Exhibition,” *Personal visit, Lisbon n.d. Date of visit: 2017.*
- Museu Militar, “Exhibition,” *Personal visit, Lisbon, 2017 n.d.*

- Myatt, F.**, *Modern Small Arms: An Illustrated Encyclopedia of Famous Military Firearms from 1873 to the Present Day*, Salamander Books, 1978.
- , *The Illustrated Encyclopedia of 19th Century Firearms: An Illustrated History of the Development of the World's Military Firearms During the 19th Century A Salamander Book*, Tiger Books International, 1989.
- Nafziger, George F.**, *The Armies of the Kingdom of Bavaria and the Grand Duchy of Wurzburg, 1792-1815*, Nafziger Collections Inc, 1993.
- National History Compilation Committee**, “Movement for the Restoration of National Rights,” *History of Korea: New Edition*), 2002, 43.
- Nenye, V., P. Munter, T. Wirtanen, and C. Birks**, *Finland at War: The Continuation and Lapland Wars 1941–45*, Bloomsbury Publishing, 2016.
- Nepali Army**, “Official website,” <https://www.nepalarmy.mil.np> n.d. Accessed: 2017.
- New York Times**, “American Steel Cannon,” 1861-05-23.
- New Zealand History**, “Specialist Units of the NZEF,” <https://nzhistory.govt.nz/war/specialist-units/machine-gunners> n.d. Accessed: 2024.
- Nickson, R.A.**, *Historical Dictionary of Paraguay Historical Dictionaries of the Americas*, Rowman & Littlefield Publishers, 2015.
- Nielsen, B., M. Ploug, and P.E. Rohde**, *Artilleri i Danmark*, Varde Artillerimuseum, 2001.
- Nielsen, Bjørn A.**, *Den danske hærs rekylgeværer*, Statens Forsvarshistoriske Museum, 2008.
- Nielsen, Sune Wadskjær**, *Det danske rytteri*, Lindhardt og Ringhof, 2014.
- Nijboer, Donald**, *Meteor I Vs V1 Flying Bomb: 1944*, Vol. 45, Bloomsbury Publishing, 2012.
- Nordeen, Lon O and David Nicolle**, *Phoenix over the Nile: a history of Egyptian air power, 1932-1994*, Smithsonian Institution Press, 1996.

- Norsk Luftfartsmuseum**, “Supermarine Spitfire LF Mk IXe,” <https://www.luftfartsmuseum.no/militaere-fly/supermarine-spitfire?rq=spitfire> n.d. Accessed: November 2024.
- Northey, W Brook**, *The land of the Gurkhas, or, The Himalayan kingdom of Nepal*, Asian Educational Services, 1998.
- Nowarra, H.J.**, *Die Entwicklung der Flugzeuge, 1914-1918*, J. F. Lehmann, 1959.
- Oakes, E.H.**, *A to Z of STS Scientists Facts on File science library*, Facts On File, Incorporated, 2002.
- Olender, P.**, *Sino-Japanese Naval War 1894-1895 Maritime Series*, Mushroom Model Publications, 2014.
- Omissi, David E**, *Air power and colonial control: the Royal Air Force, 1919-1939*, Manchester University Press, 1990.
- Ortner, Christian M**, *The Austro-Hungarian artillery from 1867 to 1918: technology, organization and tactics*, Militaria, 2007.
- Owen, J.F.**, *Compound Guns, Many-barrelled Rifle Batteries, Machine Guns, Or Mitrailleurs*, Mitchell & Company, 1874.
- Palazzo, Albert**, *The Australian Army: A History of Its Organisation from 1901 to 2001*, Oxford University Press, USA, 2001.
- Pankhurst, Richard**, “Guns in Ethiopia,” *Transition*, 1965, (20), 26.
- Parry, V.J., M. Yapp, and Oakes**, *War, Technology and Society in the Middle East School of Oriental and African Studies*, Oxford University Press, 1975.
- Pauly, Roger and Roger Pauly**, “Firearms: the life story of a technology,” 2004.
- Pearson, Owen**, *in the Twentieth Century, A History: Volume II: Albania in Occupation and War* 2005.

- Pedraja, R. De La**, *Wars of Latin America, 1899-1941*, McFarland, Incorporated, Publishers, 2006.
- Pegler, Martin**, “*The Vickers-Maxim Machine Gun*,” 2013.
- Pennell, C and L Brown**, “*Morocco since 1830: A History*,” *Foreign Affairs*, 2000, 80 (5), 173.
- Pericoli, U. and M. Glover**, *1815: the Armies at Waterloo*, Scribner, 1973.
- Perrin, N.**, *Giving Up the Gun: Japan’s Reversion to the Sword, 1543-1879* Nonpareil book, D. R. Godine, 1979.
- Peterson, H.L.**, *Encyclopedia of Firearms. Edited by Harold L. Peterson. [With Illustrations.]*, New York; Gouda printed, 1964.
- Peterson, Philip**, “*Standard Catalog of Military Firearms: The Collector’s Price and Reference Guide*,” 2011.
- Philpott, B.**, *The Encyclopedia of German Military Aircraft*, Crescent Books, 1981.
- Pieters, W.M.**, *Above Flanders’ Fields: A Complete Record of the Belgian Fighter Pilots and Their Units During the Great War, 1914-1918* Grub Street World War I series, Grub Street, 1998.
- Pikula, Sam**, *The ArmaLite AR-10 Rifle: The Saga of the First Modern Combat Rifle*, ibooks, 2017.
- Pollack, Kenneth and Michael**, “*Arabs at war: military effectiveness*,” 2002.
- Polyzois, K., A.D. Caratzas, Hellenic Army General Staff, and Army History Directorate (Greece)**, *A History of the Hellenic Army, 1821-1997* Army History Directorate publication, Hellenic Army General Staff, Army History Directorate, 1999.
- Postol, Theodore A, Markus Schiller, and Robert Schmucker**, “*North Korea’s ‘not quite’ ICBM can’t hit the lower 48 states*,” *Bulletin of the Atomic Scientists*, 2017, 11.
- Pretty, R. T. and H. R. Archer, eds**, “*Jane’s Weapons Systems 1974-75*,” 1974.

- Prishtina, Hasan Bey**, “Brief Memoir on the Albanian Uprising of 1912,” http://www.albanianhistory.net/1921_Prishtina/index.html 1921. Translated by Robert Elsie. Accessed: 2024.
- Ramsay, Ansil**, “Modernization and Reactionary Rebellions in Northern Siam,” *The Journal of Asian Studies*, 2 1979, 38 (02), 283–297.
- Rauch, George**, “Conflict in the Southern Cone: The Argentine Military and the Boundary Dispute with Chile, 1870-1902,” *Hispanic American Historical Review*, 1999, 80 (2), 408–410.
- Rawnsley, Adam**, “Meet China’s Killer Drones,” <https://foreignpolicy.com/2016/01/14/meet-chinas-killer-drones/> 2016. Accessed: August 2024.
- Reid, James**, “Crisis of the Ottoman Empire: prelude to collapse,” 2000.
- Reid, W.**, *Våben gennem årtusinder* 1973.
- Republic of Estonia Defence Forces**, “Air Force,” <https://mil.ee/en/air-force/#t-history-of-the-estonian-air-force> n.d. Accessed: October 2024.
- , “History of the Air Force,” <https://mil.ee/en/air-force/#t-history-of-the-estonian-air-force> n.d. Accessed: October 2024.
- Rijksmuseum**, “Exhibition,” *Personal visit, Amsterdam* n.d. Date of visit: 2017.
- Ripley, George and Charles Anderson Dana**, *The American Cyclopaedia: A Popular Dictionary of General Knowledge* 1872.
- Roberts, J.J.**, *The Origins of Conflict in Afghanistan*, Praeger, 2003.
- Roberts, Steven**, “Captain Alexander Blakely RA. Original inventor of improvements in cannon and the greatest artilleryman of the age,” 2012.
- Roberts, T.D.**, *Area Handbook for Liberia* Department of the Army pamphlet no.550-38, U.S. Government Printing Office, 1964.
- Robinson, C.M.**, *The Spanish Invasion of Mexico, 1519-1521 Essential histories*, Osprey, 2004.

- Rogers, H.C.B.**, *Weapons of the British soldier The imperial services library, Seeley Service & Company, 1960.*
- Rollman, Wilfrid John**, *The "new order" in a pre-colonial muslim society: military reform in Morocco 1844–1904, The University of Michigan, 1983.*
- Ross, John Macaulay Sutherland**, *Royal New Zealand Air Force, War History Branch, Department of Internal Affairs, 1955.*
- Rottman, Gordon L**, *The M16, Vol. 14, Bloomsbury Publishing, 2011.*
- Roy, K.**, *The Army in British India: From Colonial Warfare to Total War 1857 - 1947 Bloomsbury Studies in Military History, Bloomsbury Publishing, 2012.*
- Royal House of Bourbon Two Sicilies**, "Weapons," <https://realcasadiborbone.it/en/military/weapons/> n.d. Accessed: June 2024.
- RUSI**, "Iran," <https://drones.rusi.org/countries/iran/> n.d. Accessed: August 2024.
- Russia Beyond**, "How did Mongolia contribute to the Soviet victory over Nazi Germany?," <https://www.rbth.com/history/334292-how-did-mongolia-contribute-ussr> 2021. Accessed: July 2024.
- SALW Guide**, "Mauritius," <https://salw-guide.bicc.de/en/country?id=156> n.d. New York Public Library Digital Collections. Accessed September 18, 2024.
- Samsonov, Peter**, *Designing the T-34: Genesis of the Revolutionary Soviet Tank, Gallantry, 2019.*
- Sanders, Alan**, "Historical Dictionary of Mongolia," *Asian Affairs*, 2003, 52 (2), 499–501.
- Sandler, Stanley**, *The Korean War: no victors, no vanquished, University Press of Kentucky, 2014.*
- Sarty, R. and Museum Restoration Service**, *Coast Artillery, 1815-1914 Historical arms series, Museum Restoration Service, 1988.*

- Sater, W.F.**, *Andean Tragedy: Fighting the War of the Pacific, 1879-1884 Studies in war, society, and the military*, University of Nebraska Press, 2007.
- Satia, P.**, *Empire of Guns: The Violent Making of the Industrial Revolution*, Penguin Publishing Group, 2018.
- Scheina, R.L.**, *Latin America's Wars: The age of the caudillo, 1791-1899 Latin America's Wars*, Brassey's, 2003.
- Scheutz, Sven**, *Kunglig Wendes artilleriregementes historia 1794-1994 (bilag 4)*, Kristinstad: Wendes artilleriregimente, 1993.
- Schiff, Warren**, "The Influence of the German Armed Forces and War Industry on Argentina, 1880-1914," *Hispanic American Historical Review*, 1972, 52 (3), 436-455.
- Schneid, Frederick**, "The Second War of Italian Unification 1859-61," 2012.
- Schoonover, T.**, *Germany in Central America: Competitive Imperialism, 1821-1929 UPCC book collections on Project MUSE*, University of Alabama Press, 2012.
- Schoonover, T.D. and T. Schoonover**, *The French in Central America: Culture and Commerce, 1820-1930 Latin American silhouettes : studies in history and culture*, Scholarly Resources, 2000.
- Schrøder, Hans**, "Dansk militærflyvnings kulturhistorie. Flyvevåbnets Bibliotek," 2004.
- Schubert, Joseph**, *Die Feld-und Gebirgs-Artillerien der europäischen Staaten im Jahre 1890*, Seidel, 1890.
- Scientific American**, "New Gatling gun," Magazine article, 1876-08-19, 35.
- Scott-Keltie, J., ed.**, "The Stateman's Yearbook," 1886.
- , ed., "The Stateman's Yearbook," 1895.
- , ed., "The Stateman's Yearbook," 1895.
- , ed., "The Stateman's Yearbook," 1897.
- , ed., "The Stateman's Yearbook," 1900.

— , ed., *“The Stateman’s Yearbook,” 1902.*

— , ed., *“The Stateman’s Yearbook,” 1903.*

— , ed., *“The Stateman’s Yearbook,” 1907.*

— , ed., *“The Stateman’s Yearbook,” 1908.*

— , ed., *“The Stateman’s Yearbook,” 1912.*

Seignon, Thomas and Merlin Robinson, *Foreign Panthers: The Panzer V in British, Soviet, French and other service 1943–58, Vol. 313, Bloomsbury Publishing, 2022.*

Shann, Stephen, Jeffrey Burn, and Louis Delperier, *“French Army 1870-71 Franco-Prussian War 1: Imperial Troops,” 1991.*

Shpakovsky, V., A. McBride, and D. Nicolle, *Armies of Ivan the Terrible: Russian Troops 1505–1700 Men-at-Arms, Bloomsbury USA, 2006.*

Singh, P., *Aircraft of the Indian Air Force, 1933-73, English Book Store, 1974.*

SIPRI, *“SIPRI Arms Transfers Database,” Stockholm International Peace Research Institute: <https://www.sipri.org/> n.d. Accessed August 8, 2024.*

Smele, J.D., *Historical Dictionary of the Russian Civil Wars, 1916-1926 Historical Dictionaries of War, Revolution, and Civil Unrest, Rowman & Littlefield Publishers, 2015.*

Smith, M.S., *The Emergence of Modern Business Enterprise in France, 1800-1930 Harvard studies in business history, Harvard University Press, 2006.*

Smith, Peter C, *Mitsubishi Zero: Japan’s Legendary Fighter, Pen and Sword, 2014.*

Smith, W.H.B. and J.E. Smith, *Small Arms of the World: The Basic Manual of Military Small Arms, American, Soviet, British, Czech, German, French, Belgian, Italian, Swiss, Japanese, and All Other Important Nations, Stackpole Company, 1960.*

Spleeters, Damien, *“FAL Rifles in Libya. A Guide to Data Gathering,” SANA Dispatches, 2013, 1.*

- Spoelstra, Hanno**, “*The Shereman Register*,” <https://www.mapleleafup.nl/g104/> n.d. Accessed: 2017.
- Stapleton, Timothy**, *Africa: War and Conflict in the Twentieth Century*, Routledge, 2018.
- Stapleton, T.J.**, *A Military History of Africa [3 volumes]*, ABC-CLIO, 2013.
- Steinberg, S., ed.**, “*The Stateman’s Yearbook*,” 1950.
- Stettinius, E.R.**, *Lend-lease: Weapon for Victory* Penguin special, Penguin Books, 1944.
- Stevens, R.B.**, *UK and the Commonwealth FALs* 1980.
- and **J.E. Van Rutten**, *The Metric FAL: The Free World’s Right Arm FAL rifle series*, Collector Grade Publications, 1981.
- Stevenson, D.**, *Armaments and the Coming of War: Europe, 1904-1914* ACLS Humanities E-Book, Clarendon Press, 2002.
- Stocker, D.J. and J.A. Grant**, *Girding for Battle: The Arms Trade in a Global Perspective, 1815-1940*, Praeger, 2003.
- Stoker, D.**, *Military Advising and Assistance: From Mercenaries to Privatization, 1815–2007* Cass Military Studies, Taylor & Francis, 2007.
- Stone, D.**, *First Reich: Inside The German Army During The War With France 1870 - 71*, Batsford, 2018.
- Strang, G Bruce**, “*Arming Sheikh Saïd: Conflict and Cooperation in Italian and British Imperial Policy in the Arabian Peninsula and the Red Sea, 1927-1940*,” *Diplomacy & Statecraft*, 2024, 35 (3), 520–547.
- Summerfield, Stephen**, *Saxon Artillery 1733-1827*, Partizan Press, 2009.
- Sutton, A. and A.C. Wood**, *Military Aviation of the First World War*, Fonthill Media, 2017.
- Tackles, Captain C. J.**, *Armes de guerre* 1868.

- Tarassuk, Leonid**, “*Russian Pistols in the Seventeenth Century-I*,” *The Burlington Magazine*, 1967, 109, 633–642.
- Taylor, F.**, *Rifled Field Pieces: A Short Compilation of what is Known of the New Field Artillery of Europe : with Some Account of Our Own*, Franck Taylor, 1862.
- Taylor, John R W**, *Aircraft Aicraft*, Hamlyn, 1969.
- Teixeira, Nuno Severiano**, *The Portuguese at War: From the Nineteenth Century to the Present Day*, Liverpool University Press, 2019.
- The Australia Boer War Memorial**, “*Machine-guns in the Boer War - An interesting novelty*,” <https://www.bwm.org.au/mgs.php> n.d. Accessed: 2024.
- The Irish Story**, “*Weapons of the Irish Revolution, Part II, The War of Independence 1919-21*,” <https://www.theirishstory.com/2015/05/11/weapons-of-the-irish-revolution-part-ii-the-war-of-independence-1919-21/> 2015. Accessed: July 2024.
- The Military Archives**, “*Air Corps Museum Collection (1918 - 2004)*,” <https://www.militaryarchives.ie/en/reading-room-collections/air-corps-museum-collection/> n.d. Accessed: 2017.
- The New York Times**, “*The New Austrian Cannon*,” 1877, p. 4.
- The South African Armour Museum**, “*Website of the museum*,” <http://www.saarmourmuseum.co.za> n.d. Accessed: 2017.
- Thomas, N. and J. Shumate**, *Hitler’s Blitzkrieg Enemies 1940: Denmark, Norway, Netherlands & Belgium Men-at-Arms*, Bloomsbury Publishing, 2014.
- Thomas, Nigel and Toomas Boltowsky**, *Armies of the Baltic Independence Wars 1918–20*, Vol. 227, Bloomsbury Publishing, 2019.
- Thombs, David A. & Stephen P. Barrett**, “*The internet and firearms research with reference to the .43 Spanish Remington Rolling-Block and its ammunition*,” *The Journal of the Historical Breechloading Smallarms Association*, 2012, 4 (4), 14–23.

- Thombs, David A and Stephen P Barrett**, *“The internet and firearms research with reference to the .43 Spanish Remington Rolling-Block and its ammunition,”* 2012.
- Thompson, L., S. Noon, and A. Gilliland**, *The G3 Battle Rifle Weapon*, Bloomsbury Publishing, 2019.
- Thompson, Paul**, *“The Natal Militia: Defence of the Colony, 1893–1910,”* *Journal of Natal and Zulu History*, 2011, 29 (1), 20–65.
- Titz, Zdenek and Richard Ward**, *Czechoslovakian Air Force, 1918-1970 number 30*, Arco, 1971.
- Tone, John Lawrence**, *“The machete and the liberation of Cuba,”* *Journal of Military History*, 1998, 62, 7–28.
- Tousi, Reza Ra’Iss**, *“The Persian Army, 1880–1907,”* *Middle Eastern Studies*, 4 1988, 24 (2), 206–229.
- Tovy, Tal**, *“Defending the Sky: A Historical Analysis of Israeli Drone Use, 1971-2014,”* *British Journal for Military History*, 2024, 10 (1), 192–207.
- Tucker, S.C.**, *World War I: A Country-by-Country Guide [2 volumes]*, Bloomsbury Publishing, 2019.
- United States Adjutant-General’s Office.** , *Notes of Military Interest for 1902 Document* (United States. War Department), U.S. Government Printing Office, 1902.
- United States. Department of State**, *Papers Relating to the Foreign Relations of the United States, 1876: Transmitted to Congress, with the Annual Message of the President, December 4, 1876* Department of State publication, U.S. Government Printing Office, 1876.
- United States Department of State**, *Foreign Relations of the United States Department of State publication*, U.S. Government Printing Office, 1950.
- United States. Military Commission to Europe**, *The Armies of Europe: Comprising Descriptions in Detail of the Military Systems of England, France, Russia, Prussia, Austria, and*

Sardinia ; Adapting Their Advantages to All Arms of the United States Service and Embodying the Report of Observations in Europe During the Crimean War, as Military Commissioner from the United States Government, in 1855-56, J.B. Lippincott & Company, 1862.

United States War Department, *Bulletin of Military Notes: No. 1-3; Dec. 31, 1903-June 30, 1905 number vb. 2. In 'Bulletin of Military Notes: No. 1-3; Dec. 31, 1903-June 30, 1905.', U.S. Government Printing Office, 1903.*

— , *Bulletin of Military Notes: No. 1-3; Dec. 31, 1903-June 30, 1905 number vb. 2. In 'Bulletin of Military Notes: No. 1-3; Dec. 31, 1903-June 30, 1905.', U.S. Government Printing Office, 1905.*

US Government, *The Armies of Asia and Europe: Embracing Official Reports on the Armies of Japan, China, India, Persia, Italy, Russia, Austria, Germany, France, and England, D. Appleton, 1878.*

US government, *Navies of the World: Giving Concise Descriptions of the Plans, Armament and Armor of the Naval Vessels of Twenty of the Principal Nations. Together with the Latest Developments in Ordnance, Torpedoes, and Naval Architecture, and a Concise Summary of the Principal Naval Battles of the Last Twenty Years, 1860-1880, J. Wiley & Sons, 1880.*

US Military, *The United Service Journal and Naval and Military Magazine, H. Colburn, 1830.*

— , *The Military and Naval Magazine of the United States, volume 5 American periodical series: 1800-1850, Thompson and Homans, 1835.*

Vandervort, B., *Wars Of Imperial Conquest In Africa, 1830-1914 Warfare and History, Taylor & Francis, 1998.*

— , *Indian Wars of Mexico, Canada and the United States, 1812-1900 Warfare and history, Routledge, 2006.*

Vassiliev, Alexei, *The history of saudi arabia, Saqi, 2013.*

Villanueva, R., *Historia de la siderurgia argentina TEMAS, Eudeba, 2016.*

Villard, Henry S., “Memorandum of Conversation, by the Assistant Chief of the Division of Near Eastern Affairs,” in *E. Ralph Perkins, Ralph R. Goodwin, Laurence Evans, and Francis C.*

- Prescott, eds., *Foreign Relations of the United States: Diplomatic Papers, 1943, The Near East and Africa, Volume IV, number Document 706*, Washington: United States Government Printing Office, 1963.
- Visser, H.L. and D.W. Bailey, *Aspects of Dutch Gunmaking*, Waanders, 1997.
- Vuchkov, Alexander, *Bulgarian military uniforms 1879-1945*, Military Publishing, 2010. Title translated from Bulgarian.
- Vuksic, V., *Tito's Partisans 1941-45 Warrior*, Bloomsbury USA, 2003.
- Walbom-Pramvig, B., *Danske uniformer 1648-1923* 1986.
- Walter, J., *Rifles of the World 2nd edition Rifles of the World*, DBI Books, Incorporated, 1998.
- , *Rifles of the World 3rd edition Rifles of the World*, DBI Books, Incorporated, 2006.
- Ware, P. and B. Delf, *M4 Sherman: Rare Photographs From Wartime Archives Plus Specially Commissioned Colored Illustrations Images of War Special*, Pen & Sword Books, 2014.
- Wawro, G., *Warfare and Society in Europe, 1792- 1914 Warfare and History*, Taylor & Francis, 2002.
- Westwood, D., *Rifles: An Illustrated History of Their Impact Weapons and warfare series*, ABC-CLIO, 2005.
- Wheeler, J.T., *Memorandum on Persian Affairs with a Supplementary Note on the Turkomans, Char Eimaks, and Seistan* 1871.
- Widfeldt, B. and Å. Hall, *Svenskt militärflyg: svenska militära flygplan och helikoptrar 1911-2005 Svenska vingar*, Air Historic Research, 2005.
- Willbanks, J.H., *Machine Guns: An Illustrated History of Their Impact Weapons and warfare series*, ABC-CLIO, 2004.
- Williamson, Mitch, "The Two Battles of Puebla: 1862-1863," <https://weaponsandwarfare.com/2020/01/19/the-two-battles-of-puebla-1862-1863/> 2020. Accessed: July 2024.

- Williamson, Murray and Allen R Millett**, *“Armored Warfare: The British, French and German Experiences,”* in *Williamson Murray and Allan R Millet, eds., Military Innovation in the Interwar Period*, Cambridge University Press, 1996, pp. 6–49.
- Wilson, Andrew**, *The “ever-victorious Army”. A History of the Chinese Campaign Under St.-Col. CG Gordon and of the Suppression of the Tai-Ping Rebellion*, Blackwood, 1868.
- Windrow, Martin**, *The Algerian War 1954–62*, Vol. 312, Bloomsbury Publishing, 2013.
- Witzel, Rudolf**, *Hessen-Kassels Regimenter in der Alliierten Armee 1762*, BoD–Books on Demand, 2007.
- Wright, D. and S.S. Singh**, *History of Nepāl*, Cambridge University Press, 1877.
- wwiafterwwii**, *“WWII weapons in Liberia,”* <https://wwiafterwwii.wordpress.com/2022/08/27/wwii-weapons-in-liberia/> 2022. Accessed: July 2024.
- Wyss, Marco**, *Arms transfers, neutrality and Britain’s role in the Cold War: Anglo-Swiss relations 1945-1958*, Vol. 79, Brill, 2012.
- Yarshater, E.**, *Encyclopaedia Iranica Volume XVI: Preliminary Pages*, Encyclopaedia Iranica Foundation.
- yn Shinzhlèkh Ukhaany Akademi, BNMAU**, *“Information Mongolia: the comprehensive reference source of the People’s Republic of Mongolia (MPR),”* (No Title), 1990.
- Yorulmaz, Naci**, *Arming the Sultan*, IB Tauris, 2014.
- Zabecki, D.T.**, *Germany at War: 400 Years of Military History [4 volumes]: 400 Years of Military History*, ABC-CLIO, 2014.
- Zaloga, S.J. and F. Rodríguez**, *Tanks at the Iron Curtain 1960–75 New Vanguard*, Bloomsbury Publishing, 2022.
- **and H. Johnson**, *M3 Lee/Grant Medium Tank 1941–45 New Vanguard*, Bloomsbury Publishing, 2013.

- **and H. Morshead**, *T-26 Light Tank: Backbone of the Red Army New Vanguard*, Bloomsbury USA, 2015.
- **and P. Bull**, *Japanese Tanks 1939–45 New Vanguard*, Bloomsbury USA, 2011.
- **and P. Sarson**, *T-34/76 Medium Tank 1941–45 New Vanguard*, Bloomsbury Publishing, 1994.
- **and S. Katz**, *Tank Battles of the Mid East Wars Armor at War 7000 Series*, Concord Publications, 1996.
- Zaloga, Steve**, *Armored Thunderbolt: The US Army Sherman in World War II*, Stackpole Books, 2008.
- Zaloga, Steven J**, “Technological surprise and the initial period of war: The case of the T-34 tank in 1941,” *The Journal of Slavic Military Studies*, 1993, 6 (4), 634–646.
- , *The Polish Army 1939–45*, Vol. 117, Bloomsbury Publishing, 2013.
- , *T-34/76 Medium Tank 1941–45*, Vol. 9, Bloomsbury Publishing, 2013.
- , *Tanks of Hitler’s Eastern Allies 1941–45*, Vol. 199, Bloomsbury Publishing, 2013.
- Zarzecki, Thomas W**, *Arms Diffusion: The Spread of Military Innovations in the International System*, Psychology Press, 2002.
- Zeiner-Gundersen, Hermann Fredrik**, *Norsk artilleri gjennom 300år*, Arendal : Agdin, 1986.
- Zewde, B.**, *A History of Modern Ethiopia, 1855–1991 Eastern African Studies*, Ohio University Press, 2002.
- Zwoll, W. and Frank de Hass**, *Bolt Action Rifles*, Krause Publications, 2003.