

Data documentation for the COW Arms Technology Data Set 2016-2023, v. 1.0.

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This document contains basic data documentation for the COW Arms Technology Data Set 2016-2023, v1.0. Please cite the data as:

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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 29 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.

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

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.

(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	
[1] Early aircraft	[1] 1 st gen. helicopter	[1] Armed UAV	
[2] WWII era fighter	[2] 2 st gen. helicopter		
[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

The COW Arms Technology Data Set, v1.0, builds on data used in [Hariri and Wingender \(2023, 2024\)](#). Compared to the data used in these papers, the present version of the data set is extended to cover all historical states in the international system and updated with data from 2011-2023. The latter change also means that the present version includes fifth generation jet fighters and armed UAVs in the sample of technologies. Finally, we have collected additional data, such that the number of missing observations has been reduced from four percent to less than one percent.

2.2 Acknowledgments

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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.
- .: 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 techologies coded a 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 29 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 1960s.

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-Pfüçender-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.

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 \(1973\)](#)

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 \(n.d.\)](#)

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 \(1973\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1973\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(2015\)](#)

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 \(1982\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(2015\)](#)

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.

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 \(2011\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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: [Schrøder \(2004\)](#) 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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1923\)](#)

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 \(n.d.\)](#)

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 \(2023\)](#)
First generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Second generation attack helicopter: [Zarzecki \(2002\)](#); [SIPRI \(n.d.\)](#)
Armed unmanned aerial vehicles (UAVs): [SIPRI \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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.

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1997\)](#)
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 \(n.d.\)](#)

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 \(n.d.\)](#)

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)

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.)

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 \(2024\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

5.90 Kenya

Assault rifle: [Dupuy and Blanchard \(1970\)](#); [Lithgow Small Arms Factory Museum \(n.d.\)](#); [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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1997\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

5.99 Liberia

Box magazine rifle: [Haliburton \(1970\)](#); [wwiafterwwii \(2022\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

5.109 Mauritania

Assault rifle: [Dupuy and Blanchard \(1970\)](#); [Stevens \(1980\)](#); [Stevens and Van Rутten \(1981\)](#)
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 \(n.d.\)](#)

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 \(n.d.\)](#)

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.)

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 \(n.d.\)](#)

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 \(2017\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1973\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1973\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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, [Maximgun.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 \(2022, 2023\)](#)

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 \(2022, 2023\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1973\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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.)

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.)

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 \(various years\)](#),

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1973\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1973\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(2023\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 Ruten \(1981\)](#); [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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(1973\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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 \(n.d.\)](#)

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