

Appendix B

Firearms

General

Terrorists use a variety of firearms to include handguns, rifles, automatic rifles, submachine guns, as well as mortars and rocket launchers.²⁵⁷ Access to sophisticated firearms is relatively easy for terrorist cells. Sources may include criminal links in the society, other terrorist cells, or indirect and direct sponsors of the terrorist activities.

This appendix presents a sample of firearms used by terrorists in five basic types: pistols, submachine guns, assault rifles, sniper rifles, and shotguns. Availability, simplicity, and efficiency are common requirements in acquiring firearms. Concealment of the weapon, especially in urban terrain, is often a key consideration too.²⁵⁸ Terrorists standardize calibers of their weapon ammunition as much as possible to ease logistics of resupply and maintenance.²⁵⁹

Pistols are standard weapons for terrorists. Although the revolver may be considered more reliable in field conditions, the semiautomatic handgun provides more ammunition per magazine than the cylinder capacity of a revolver. Submachine guns are basically short rifles that have a full automatic fire capability. They use pistol-caliber ammunition and typically have a large capacity magazine. Their range, accuracy and penetration are better than pistols due to the longer barrel and sighting performance.

Assault rifles are the primary offensive weapons of modern militaries and are used extensively by terrorist organizations. They normally have selective firing capability to allow single shot, 2 or 3 round bursts of fire, or full automatic fire. Their effective ranges often exceed 600 meters and have effective rates of fire up to 400 rounds per minute in the full automatic mode. Sniper rifles with telescopic sights and high performance ammunition provide a special capability. Ammunition caliber norms span 5.56 mm or 7.62 mm to the much larger caliber .50 chambered rifles. Shotguns are excellent weapons for close-range tactical tasks. Various types of ammunition provide wide area coverage, high impact hitting power, or special effects.

Firearms Sample

- ◆ Pistol
- ◆ Submachine Gun
- ◆ Assault Rifle
- ◆ Sniper Rifle
- ◆ Shotgun

²⁵⁷ Christopher C. Harmon, *Terrorism Today* (London: Frank Cass Publishers, 2000; reprint, Portland: Frank Cass Publishers, 2001), 111.

²⁵⁸ Christopher Dobson and Ronald Payne, *The Terrorist: Their Weapons, Leaders, and Tactics* (New York: Facts on File, Inc, Revised Edition, 1982), 104.

²⁵⁹ J. David Truby, *How Terrorists Kill: The Complete Terrorist Arsenal* (Boulder: Paladin Press, 1978), 7-8.

Handguns

CZ 75 (Czechoslovakia)

 <p>(Source: MCIA-1110-001-93, <i>Infantry Weapons Identification Guide</i>, September 1992, 94)</p>	<p>Ammunition Types</p> <p>9mm Parabellum</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 16</p>
<p>SYSTEM</p> <p>A double-action semi-automatic pistol modeled after the Browning P-35. It can be carried cocked and locked and is considered a very accurate handgun. Its design has been copied frequently to produce such guns as the TZ75, EAA Witness, TA90, Springfield Armory P9, ITM AT84, ITM AT88, and Baby Eagle.</p> <p>Weight (kg): 0.98 Length (mm): 203 Operation: Recoil operated double action. Fire Mode: Semi-automatic</p> <p>SIGHTS</p> <p>Iron sights.</p>	<p>VARIANTS</p> <p>CZ 75B, 75BD, 75DAO, 75 Police: available in 9mm Luger, 9x21mm, .40 S&W</p> <p>CZ 75 Compact, 75D Compact, 75 Semi Compact: Available in 9mm Luger.</p> <p>AMMUNITION</p> <p>Name: 9mm Parabellum Caliber/length: 9 x 19 mm Effective Range (m): 50 Muzzle Velocity (m/s): 381</p>	

Glock 17 (Austria)

 <p>(Source: Photograph Courtesy of GLOCK, Inc.)</p>	<p>Ammunition Types</p> <p>9mm Parabellum</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 10, 17, 19, 31</p>
<p>SYSTEM</p> <p>A semiautomatic handgun originally adopted by the Austrian Army and Police. It has a unique safe action striker-fired trigger mechanism that sets the striker in the half-cocked position after each round. When firing, the shooter pulls the trigger, which disengages the trigger safety, then cocks the striker to the full cock position prior to firing. The Glock has a polymer frame and steel slides.</p> <p>Weight (kg): .905 Length (mm): 186 Operation: Recoil operated double action. Fire Mode: Semiautomatic</p> <p>SIGHTS</p> <p>Iron sights. Adjustable on competition models.</p>	<p>VARIANTS</p> <p>Glock 17L: Competition version Glock 18: 3 round burst version Glock 19: Compact version Glock 34: Competition version Numerous other models in a variety of calibers.</p> <p>AMMUNITION</p> <p>Name: 9 mm Parabellum Caliber/length: 9 x 19mm Effective Range (m): 50 Muzzle Velocity (m/s): 350</p>	

Makarov Pistol (USSR/Russia)

 <p>(Source: U.S. Army Special Forces Foreign Weapons Handbook, January 1967, I-13)</p>	<p>Ammunition Types</p> <p>9mm Makarov</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 8</p>
<p>SYSTEM</p> <p>A blowback operated, double action semiautomatic handgun that is extremely sturdy, simple to operate and maintain, and very reliable. It was designed for Soviet army officers and Soviet police. It is a Walther PP style weapon and provides good defense at short and medium distances. There are some disadvantages with this weapon, specifically the 9mm Makarov is considered to be underpowered. Additionally, the magazine capacity of 8 is low compared to other handguns available.</p> <p>Weight (kg): .66 Length (mm): 160 Operation: Double action Fire Mode: Semiautomatic</p> <p>SIGHTS</p> <p>Iron sites.</p>	<p>VARIANTS</p> <p>PMM: 9x18mm Izh 71: 9x17mm short/.380 ACP Baikal IJ 70: 9mm Makarov/.380 ACP</p> <p>AMMUNITION</p> <p>Name: 9mm Makarov Caliber/length: 9 x 18mm Effective Range (m): 50 Muzzle Velocity (m/s): 315</p>	

Ruger GP100 (United States)

<p>(UNCLASSIFIED)</p>  <p>(UNCLASSIFIED)</p> <p>Figure 13. (U) Ruger GP100 .357 Magnum Revolver</p> <p>(Source: (S/NF/WN/NC) DST-2660H-481-89, <i>Terrorist Weapons Handbook – Worldwide</i> (U), 15 December 1989, 13. Unclassified Extract.)</p>	<p>Ammunition Types</p> <p>.357 Magnum .38 Special</p>	<p>Typical Combat Load</p> <p>Cylinder Capacity: 6</p>
<p>SYSTEM</p> <p>The Ruger GP100 is a rugged double-action revolver, available in fixed and adjustable sight models. It was designed specifically for the law enforcement and security communities. It can be field stripped very quickly for easy maintenance. Although it is chambered for the .357 Magnum, it can also fire the .38 Special cartridge.</p> <p>Weight (kg): 1.28 Length (mm): 238 Operation: Double action Fire Mode: Single shot</p> <p>SIGHTS Adjustable iron sights.</p>	<p>VARIANTS</p> <p>GP-141 KGP-141 GP-160 KGP-160 GP-161 KGP-161</p> <p>AMMUNITION</p> <p>Name: .357 Magnum Caliber/length: .357 Cal/33 mm Effective Range (m): 60 Muzzle Velocity (m/s): 442</p>	

Submachine Guns

Heckler & Koch MP-5 (Germany)

 <p>Neg. 510058 (UNCLASSIFIED) Figure 21. (U) MP5A2 and MP5A3 9-mm Submachinegun</p> <p>(Source: (S/NF/WN/NC) DST-2660H-481-89, <i>Terrorist Weapons Handbook – Worldwide</i> (U), 15 December 1989, 19. Unclassified Extract.)</p>	<p>Ammunition Types</p> <p>9 mm Parabellum</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 10, 15, 30</p>
<p>SYSTEM</p> <p>A submachine gun with a recoil operated roller-locked bolt that fires from a closed position. Very accurate and reliable under adverse conditions with only a minimum requirement for maintenance. The smooth recoil characteristics provide optimum control when firing bursts or when firing full automatic. It is very conducive for concealed carrying or for use in confined areas.</p> <p>Weight (kg): 3.07 loaded Length (mm): 490/660 Cyclic Rate of fire (rd/min): 800 Operation: Blowback Fire Mode: Semi-automatic, Full automatic</p> <p>SIGHTS</p> <p>Post front, select range peep rear.</p> <p>Night sights, scopes, laser aiming devices available.</p>	<p>VARIANTS</p> <p>MP5A1 – w/o stock MP5A2 – fixed polymer stock MP5A3 – telescopic metal stock SD1 – SD3 – same as above with internal silencers MP5N – US Navy model with 3 round burst capability</p> <p>AMMUNITION</p> <p>Name: 9 mm Parabellum Caliber/length: 9 x 19 mm Effective Range (m): 200 Muzzle Velocity (m/s): 400</p>	

PM 63 (Poland)

 <p>9 mm machine pistol M63</p> <p><i>(Source: USAREUR Pam 30-60-1, Identification Guide, Part One: Weapons and Equipment, East European Communist Armies, Volume 1: General, Ammunition and Infantry Weapons, September 1972, 70)</i></p>	<p>Ammunition Types</p> <p>9 mm Makarov</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 15, 25</p>
<p>SYSTEM</p> <p>The PM 63 is a blowback operated SMG that fires from the open bolt position. Although it is capable of both semi-automatic and full automatic modes, there is no selector switch. The semi-automatic mode is achieved by a short pull of the trigger, whereas full automatic requires pulling the trigger completely. It was designed with Special Forces in mind and was one of the lightest SMGs when it was introduced. It has been used by Polish Special Forces, police and by military personnel requiring a compact weapon. Iranian terrorists used it during the siege of the Iranian embassy in London in 1980. It has been a very prolific weapon, with tens of thousands being produced.</p> <p>Weight (kg): 2.0 Loaded Length (mm): 333/583 Cyclic Rate of fire (rd/min): 650 Operation: Blowback, firing from open bolt position Fire Mode: Semi-automatic, Full automatic</p> <p>SIGHTS</p> <p>Iron sights that can be set on 75 or 150 meters.</p>	<p>VARIANTS</p> <p>9mm Parabellum developed in 1971. Unlicensed copy by NORINCO of China.</p> <p>AMMUNITION</p> <p>Name: 9mm Makarov Caliber/length: 9 x 18 mm Effective Range (m): 75 Muzzle Velocity (m/s): 320</p>	

Uzi (Israel)

 <p>(Source: (S/NF/WN/NC) DST-2660H-481-89, <i>Terrorist Weapons Handbook – Worldwide</i> (U), 15 December 1989, 20. Unclassified Extract.)</p>	<p>Ammunition Types</p> <p>9mm Parabellum</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 20, 25, 32</p>
<p>SYSTEM</p> <p>The Uzi is a recoil operated, select fire submachine gun that fires from the open bolt position. It has a folding stock and can be equipped with silencers. The Uzi submachine gun is manufactured by IMI and has been adopted by more than 90 countries for their police and military. Special operations and security units to include the US Secret Service and the Israeli Sayeret (Special Forces) use the compact variants. It is considered one of the most popular SMGs in the world, with more than 10 million manufactured around the world.</p> <p>Weight (kg): 4.0 loaded Length (mm): 470/650 Cyclic Rate of fire (rd/min): 600 Operation: Blowback, firing from open bolt position Fire Mode: Semi-automatic, Full automatic</p> <p>SIGHTS</p> <p>Front – Post; Rear – Aperture “L” Flip. Tactical flashlights and laser aiming modules are available.</p>	<p>VARIANTS</p> <p>Mini Uzi Micro Uzi</p> <p>AMMUNITION</p> <p>Name: 9 mm Parabellum Caliber/length: 9 x 19mm Effective Range (m): 200 Muzzle Velocity (m/s): 400</p>	

Assault Rifles

AK 47 (Russia)

 <p><i>(Source: OPFOR Worldwide Equipment Guide, TRADOC ADCSINT-Threats, September 2001, 1-4.1)</i></p>	<p>Ammunition Types</p> <p>7.62 x 39 mm</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 30</p>
<p>SYSTEM</p> <p>A gas operated, selective fire assault weapon adopted by the Soviet Army in 1949. It came with both a fixed wooden stock and a folding metal stock, the AKS, which was issued to paratroopers and armor units. All of the Kalashnikov assault rifles are very dependable and produce a high volume of fire. They are one of the most prevalent weapons used by terror groups today.</p> <p>Weight (kg): 4.876 loaded Length (mm): 870 Cyclic Rate of fire (rd/min): 600 Operation: Gas operated Fire Mode: Semi-automatic, Full automatic</p> <p>SIGHTS</p> <p>Iron sites.</p>	<p>VARIANTS</p> <p>AKS: short stock AKM: updated version of the AK 47 Clones: Sako/Valmet: Finland Galil: Israel R-4/R-4C: South Africa</p> <p>AMMUNITION</p> <p>Name: 7.62 Caliber/length: 7.62 x 39 mm Effective Range (m): 300 Muzzle Velocity (m/s): 710</p>	

AK 74 (Russia)

 <p>(Source: <i>OPFOR Worldwide Equipment Guide</i>, TRADOC ADCSINT-Threats, September 2001, 1-3)</p>	<p>Ammunition Types</p> <p>5.45 mm</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 30</p>
<p>SYSTEM</p> <p>A gas operated assault weapon used by the Soviet Army. It is basically an AKM rechambered to fire a 5.45mm round. It has a higher muzzle velocity than the AK 47/AKM, which gives it a longer effective range. It does not have the accuracy of the M16, but reportedly has better reliability in a combat situation and less maintenance requirements than the M16.</p> <p>Weight (kg): 3.6 loaded Length (mm): 933 Cyclic Rate of fire (rd/min): 600 Operation: Gas operated Fire Mode: Semi-automatic, Full automatic</p> <p>SIGHTS</p> <p>Front: Post, Rear: U-notch</p> <p>Night sights are available.</p>	<p>VARIANTS</p> <p>AKS 74: Folding stock version</p> <p>AMMUNITION</p> <p>Name: 5.45mm Caliber/length: 5.45 x 39 mm Effective Range (m): 500 Muzzle Velocity (m/s): 900</p>	

Colt M16 (United States)

 <p>(Source: US Army File Photo)</p>	<p>Ammunition Types</p> <p>5.56mm (.223 Rem)</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 20, 30</p>
<p>SYSTEM</p> <p>A gas operated automatic assault rifle used by the US military as its primary weapon. Originally developed by Armalite as the AR 15, this was a scaled down version of the AR 10 redesigned to use the .223 Remington cartridge.</p> <p>It has been modified numerous times and is used by nearly 30 different militaries and is very popular with law enforcement agencies.</p> <p>Weight (kg): 2.89 empty Length (mm): 986 Cyclic Rate of fire (rd/min): 800 Operation: Gas operated Fire Mode: Semi-automatic, Full automatic</p> <p>SIGHTS</p> <p>Iron sites. Scope capable.</p>	<p>VARIANTS</p> <p>M16A1, A2, A3: Various upgrades.</p> <p>Civilian clones by Bushmaster, Armalite, Professional Ordnance, and many others.</p> <p>AMMUNITION</p> <p>Name: 5.56 NATO Caliber/length: 5.56 x 45mm Effective Range (m): 460 Muzzle Velocity (m/s): 991</p>	

Sniper Rifles

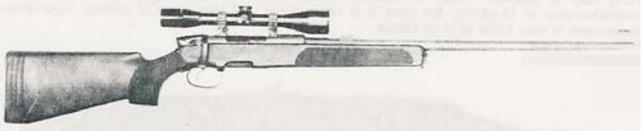
ArmaLite AR 50 (United States)

 <p>(Source: Photo courtesy of ArmaLite*)</p>	<p>Ammunition Types</p> <p>.50BMG</p>	<p>Typical Combat Load</p> <p>Single Shot</p>
<p>SYSTEM</p> <p>A single shot bolt action rifle that uses the .50 Cal Browning Machine Gun ammunition. It has a unique octagonal receiver bedded into a sectional aluminum stock and has a modified M-16 type pistol grip. The butt stock is fully adjustable and is removable for transport.</p> <p>Weight (kg): 19.24 with scope Length (mm): 1499 Operation: Bolt Action Fire Mode: Single shot</p> <p>SIGHTS</p> <p>ArmaLite sells this with a Leupold Mk4 10-power scope.</p> <p>* ArmaLite is a registered trademark of ArmaLite.</p>	<p>VARIANTS</p> <p>AMMUNITION</p> <p>Name: .50BMG Caliber/length: 12.7x99mm Effective Range (m): 1200 Muzzle Velocity (m/s): 865-890</p>	

Remington Model 700 (United States)

 <p>(Source: US Army File Photo)</p>	<p>Ammunition Types</p> <p>.223 Rem .308 Win</p>	<p>Typical Combat Load</p> <p>Magazine Capacity: 5</p>
<p>SYSTEM</p> <p>A bolt action, magazine fed rifle that is basically a restocked Remington Model 700 VS varmint rifle. This is one of the most widely used tactical rifles in the United States. The police, the US Army and the US Marine Corps, use it.</p> <p>Weight (kg): 4.08 empty without scope Length (mm): 1662 Operation: Bolt Action Fire Mode: Single Shot</p> <p>SIGHTS</p> <p>Variable telescopic scopes. No iron sights.</p>	<p>VARIANTS</p> <p>M24 Sniper Weapon System (US Army) M40A1 Sniper Rifle (USMC)</p> <p>AMMUNITION</p> <p>Name: .223 Rem/.308 Win Caliber/length: 5.56x45mm / 7.62x51mm Effective Range (m): 800 Muzzle Velocity (m/s): 1005 / 780-840</p>	

Steyr-Mannlicher SSG-69 (Austria)

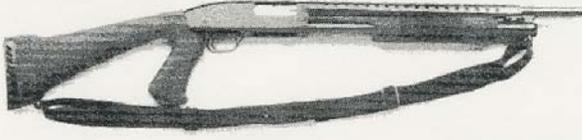
<p>(UNCLASSIFIED)</p>  <p>Neg. 529276</p> <p>Figure 44. (U) Steyr SSG-69 7.62-mm Sniper Rifle (UNCLASSIFIED)</p> <p>(Source: (S/NF/WN/NC) DST-2660H-481-89, <i>Terrorist Weapons Handbook – Worldwide (U)</i>, 15 December 1989, 32-33. Unclassified Extract.)</p>	<p>Ammunition Types</p> <p>7.62 x 51mm (.308 Win)</p>	<p>Typical Combat Load</p> <p>Magazine. Capacity: 5</p>
<p>SYSTEM</p> <p>A bolt action, magazine fed rifle, which has been used as a sniper rifle by the Austrian forces, as well as many police agencies. The rifle is extremely accurate and has been used to win a number of international competitions.</p> <p>Weight (kg): 4.6 with scope. Length (mm): 1130 Operation: Bolt Action Fire Mode: Single shot</p> <p>SIGHTS</p> <p>Scope</p>	<p>VARIANTS</p> <p>AMMUNITION</p> <p>Name: .308 Win Caliber/length: 7.62 x 51mm Effective Range (m): 800 Muzzle Velocity (m/s): 799 - 860</p>	

Shotguns

Franchi SPAS 12 (Italy)

 <p>(Source: (S/NF/WN/NC) DST-2660H-481-89, <i>Terrorist Weapons Handbook – Worldwide</i> (U), 15 December 1989, 34. Unclassified Extract.)</p>	<p>Ammunition Types</p> <p>12 Ga. Shot 12 Ga. Buckshot 12 Ga. Slug</p>	<p>Typical Combat Load</p> <p>Tubular Magazine capacity: 8</p>
<p>SYSTEM</p> <p>This is a dual mode shotgun, which can be operated both as a pump-action style shotgun and as a semi-auto shotgun. It can rapidly fire full power loads such as buckshot set on semi-auto, and can be switched to pump to handle low power rounds -- or if auto functioning fails to function properly. It has a relatively short barrel, which makes it suitable for operation in tight quarters. Both military and the police use it.</p> <p>Weight (kg): 4.0 Length (mm): 1070 Operation: Pump or gas operated Fire Mode: Semi-automatic</p> <p>SIGHTS</p> <p>Iron Blade</p>	<p>VARIANTS</p> <p>AMMUNITION</p> <p>Name: 12 Gauge Caliber/length: 12 Ga/ 2 ¾ inch Effective Range (m): 60 Muzzle Velocity (m/s): 393 (00 Buckshot)</p>	

Mossberg Model 500 (United States)

<p>(UNCLASSIFIED)</p>  <p>(UNCLASSIFIED)</p> <p>Figure 47. (U) Mossberg Model 500 12-Gauge Shotgun</p> <p>(Source: (S/NF/WN/NC) DST-2660H-481-89, <i>Terrorist Weapons Handbook – Worldwide</i> (U), 15 December 1989, 34. Unclassified Extract.)</p>	<p>Ammunition Types</p> <p>12 Ga. Shot 12 Ga. Buckshot 12 Ga. Slug</p>	<p>Typical Combat Load</p> <p>Tubular Magazine capacity: 6, 8, 9</p>
<p>SYSTEM</p> <p>This is a pump action shotgun that is common with the military and police departments, and is sold widely on the commercial market. It is available with both a traditional wood stock and with the pistol grip, as shown above.</p> <p>Weight (kg): 2.6 Length (mm): 711 Operation: Pump Action Fire Mode: Single shot</p> <p>SIGHTS</p> <p>Fixed iron sights</p>	<p>VARIANTS</p> <p>Numerous variations of this model exist.</p> <p>AMMUNITION</p> <p>Name: 12 Gauge Caliber/length: 12 Ga/ 2 ¾ inch and 3 inch Effective Range (m): 60 Muzzle Velocity (m/s): 393 (00 Buckshot)</p>	