**List of Nuclear Weapons**

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This is a **list of** [**nuclear weapons**](http://en.wikipedia.org/wiki/Nuclear_weapon) ordered by state and then type within the states.

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**United States**

*Main article:* [*Nuclear weapons and the United States*](http://en.wikipedia.org/wiki/Nuclear_weapons_and_the_United_States)

Note: US nuclear weapons of all types (bombs, warheads, shells, and others) are numbered in the same sequence starting with the Mark 1 and ([as of March 2006](http://en.wikipedia.org/wiki/As_of_2006)) ending with the W-91 missile warhead (which was canceled prior to introduction into service). All designs which were formally intended to be weapons at some point received a number designation. Pure test units which were experiments (and not intended to be weapons) are not numbered in this sequence.

In some cases, such as [B53 nuclear bomb](http://en.wikipedia.org/wiki/B53_nuclear_bomb) and [W-53 warhead](http://en.wikipedia.org/wiki/W-53_warhead), and the [W54](http://en.wikipedia.org/wiki/W54) and [Davy Crockett](http://en.wikipedia.org/wiki/Davy_Crockett_%28nuclear_device%29) Mk-54, the same core nuclear system was used in multiple applications. This is indicated by the same sequence number for all versions of that nuclear weapon system.

In other cases, variants are assigned their own number, such as the [B61 nuclear bomb](http://en.wikipedia.org/wiki/B61_nuclear_bomb) which was the parent design for the [W80](http://en.wikipedia.org/wiki/W80), [W81](http://en.wikipedia.org/wiki/W81), and [W84](http://en.wikipedia.org/wiki/W84).

This list includes weapons which were developed to the point of being assigned a model number (and in many cases, prototypes were test fired), but which were then canceled prior to introduction into military service. Those models as listed as canceled, along with the year or date of cancellation of their program.

* Bombs — designated with Mark ("Mk") numbers until 1968, and with "B" numbers after that. "Test Experimental" bombs designated with "TX".
  + Mark 1 – "[Little Boy](http://en.wikipedia.org/wiki/Little_Boy)" gun-type weapon (used against Hiroshima). (13-16 Kt, 1945-1950)
  + Mark 2 – "[Thin Man](http://en.wikipedia.org/wiki/Mark_2_nuclear_bomb)" early levitated pit design canceled in favor of the "Christy" Core Mk III.
  + Mark 3 – "[Fat Man](http://en.wikipedia.org/wiki/Fat_Man)" implosion weapon (used against Nagasaki). (21 Kt, 1945-1950)
  + [Mark 4](http://en.wikipedia.org/wiki/Mark_4_nuclear_bomb) – Post-war "Fat Man" redesign. bomb designed with weapon characteristics as the foremost criteria. 1949-1953)
  + [Mark 5](http://en.wikipedia.org/wiki/Mark_5_nuclear_bomb) – Significantly smaller high efficiency nuclear bomb. (1-120 Kt, 1952-1963)
  + [Mark 6](http://en.wikipedia.org/wiki/Mark_6_nuclear_bomb) – Improved version of Mk-4. (8-160 Kt, 1951-1962)
  + [Mark 7](http://en.wikipedia.org/wiki/Mark_7_nuclear_bomb) – Multi-purpose tactical bomb. (8-61 Kt, 1952-1967)
  + [Mark 8](http://en.wikipedia.org/wiki/Mark_8_nuclear_bomb) – Gun-assembly, HEU weapon designed for penetrating hardened targets. (25-30 Kt, 1951-1957)
  + [Mark 10](http://en.wikipedia.org/wiki/Mark_10_nuclear_bomb) – Improved version of Mk-8 (12-15 Kt, cancelled May 1952).
  + [Mark 11](http://en.wikipedia.org/wiki/Mark_11_nuclear_bomb) – Re-designed Mk-8. Gun-type (8-30 Kt).
  + [Mark 12](http://en.wikipedia.org/wiki/Mark_12_nuclear_bomb) – Light-weight bomb to be carried by fighter planes (12-14 Kt).
  + [Mark 13](http://en.wikipedia.org/wiki/Mark_13_nuclear_bomb) – Improved version of Mk-6 (cancelled August 1954).
  + TX/[Mark 14](http://en.wikipedia.org/wiki/Mark_14_nuclear_bomb) – First deployable solid-fuel thermonuclear bomb ([Castle Union](http://en.wikipedia.org/wiki/Castle_Union) device). Only 5 produced. (5 Mt)
  + [Mark 15](http://en.wikipedia.org/wiki/Mark_15_nuclear_bomb) – First "lightweight" thermonuclear weapon. (1.7-3.8 Mt, 1955-1965)
  + TX/[Mark 16](http://en.wikipedia.org/wiki/Mark_16_nuclear_bomb) – First weaponized thermonuclear weapon ([Ivy Mike](http://en.wikipedia.org/wiki/Ivy_Mike) device). Only cryogenic weapon ever deployed. Only 5 produced. (6-8 Mt)
  + [Mark 17](http://en.wikipedia.org/wiki/Mark_17_nuclear_bomb) – High-yield thermonuclear. Heaviest U.S. weapon, second highest yield of any U.S. weapon. Very similar to Mk-24. (10-15 Mt)
  + [Mark 18](http://en.wikipedia.org/wiki/Mark_18_nuclear_bomb) – Very high yield fission weapon ([Ivy King](http://en.wikipedia.org/wiki/Ivy_King) device).
  + [Mark 20](http://en.wikipedia.org/wiki/Mark_20_nuclear_bomb) – Improved Mark 13 (cancelled 1954)
  + [Mark 21](http://en.wikipedia.org/wiki/Mark_21_nuclear_bomb) – Re-designed variant of [Castle Bravo](http://en.wikipedia.org/wiki/Castle_Bravo) test
  + [Mark 22](http://en.wikipedia.org/wiki/Mark_22_nuclear_bomb) – Failed thermonuclear design ([Castle Koon](http://en.wikipedia.org/wiki/Castle_Koon) device, cancelled April 1954).
  + [Mark 24](http://en.wikipedia.org/wiki/Mark_24_nuclear_bomb) – High-yield thermonuclear, very similar to Mk-17 but had a different secondary.
  + [Mark 26](http://en.wikipedia.org/wiki/Mark_26_nuclear_bomb) – Similar design to Mk 21 (cancelled 1956).
  + [Mark 27](http://en.wikipedia.org/wiki/Mark_27_nuclear_bomb) – Navy nuclear bomb (1958-1965)
  + [B28 nuclear bomb](http://en.wikipedia.org/wiki/B28_nuclear_bomb) (Mark 28) (1958-1991)
  + [Mark 36](http://en.wikipedia.org/w/index.php?title=Mark_36_nuclear_bomb&action=edit) – Strategic nuclear bomb (1956 - 1961) 9-10 Mt
  + [B39 nuclear bomb](http://en.wikipedia.org/wiki/B39_nuclear_bomb) (Mark 39) (1957-1966)
  + [B41 nuclear bomb](http://en.wikipedia.org/wiki/B41_nuclear_bomb) (Mark 41) (1960-1976)
  + [B43 nuclear bomb](http://en.wikipedia.org/wiki/B43_nuclear_bomb) (Mark 43) (1961-1991)
  + [B46 nuclear bomb](http://en.wikipedia.org/wiki/B46_nuclear_bomb) or (Mark 46); experimental, design evolved into [B53 nuclear bomb](http://en.wikipedia.org/wiki/B53_nuclear_bomb) and [W-53 warhead](http://en.wikipedia.org/wiki/W-53_warhead) (cancelled 1958)
  + [B53 nuclear bomb](http://en.wikipedia.org/wiki/B53_nuclear_bomb) (1962-1997; still in enduring stockpile)
  + [B57 nuclear bomb](http://en.wikipedia.org/wiki/B57_nuclear_bomb) (1963-1993)
  + [B61 nuclear bomb](http://en.wikipedia.org/wiki/B61_nuclear_bomb) (1966-current service)
  + [B77 nuclear bomb](http://en.wikipedia.org/wiki/B77_nuclear_bomb) (cancelled 1977)
  + [B83 nuclear bomb](http://en.wikipedia.org/wiki/B83_nuclear_bomb) (1983-current service)
  + [B90 nuclear bomb](http://en.wikipedia.org/wiki/B90_nuclear_bomb) (cancelled 1991)
* [Nuclear artillery](http://en.wikipedia.org/wiki/Nuclear_artillery) shells
  + 16-inch (406 mm)
    - [W23](http://en.wikipedia.org/wiki/W23) (1956-1962) Gun-type
  + 280mm:
    - [W9](http://en.wikipedia.org/wiki/W9_%28nuclear_warhead%29) (1952-1957) Gun-type
    - [W19](http://en.wikipedia.org/wiki/W19) (1953-1956) Gun-type, W9 derivative
  + 8-inch (203 mm)
    - [W33](http://en.wikipedia.org/wiki/W33) (1956-1980s) Gun-type
    - [W75](http://en.wikipedia.org/wiki/W75) (cancelled 1973)
    - [W79](http://en.wikipedia.org/wiki/W79) (1981-1992)
  + 155mm
    - [W48](http://en.wikipedia.org/wiki/W48) (1963-1992)
    - [W74](http://en.wikipedia.org/wiki/W74) (cancelled 1973)
    - [W82](http://en.wikipedia.org/wiki/W82) (cancelled 1983 (W-82-0 Enhanced Radiation) and 1990 (W-82-1 fission only))
* Atomic Demolition Munitions
  + W-7/ADM-B (c.1954-1967)
  + [T4 ADM](http://en.wikipedia.org/wiki/T-4_Atomic_Demolition_Munition) (1957-1963) Gun-type
  + [W30](http://en.wikipedia.org/wiki/W30)/[Tactical Atomic Demolition Munition](http://en.wikipedia.org/wiki/Tactical_Atomic_Demolition_Munition) (1961-1966)
  + [W31](http://en.wikipedia.org/wiki/W31)/ADM (1960-1965)
  + [W45](http://en.wikipedia.org/wiki/W45)/[Medium Atomic Demolition Munition](http://en.wikipedia.org/wiki/Medium_Atomic_Demolition_Munition) (1964-1984)
  + [W54](http://en.wikipedia.org/wiki/W54)/[Special Atomic Demolition Munition](http://en.wikipedia.org/wiki/Special_Atomic_Demolition_Munition) (1965-1989)
* Missile warheads
  + [W4](http://en.wikipedia.org/wiki/W4) for [SM-62 Snark missile](http://en.wikipedia.org/wiki/Snark_%28rocket%29) (cancelled 1951)
  + [W5](http://en.wikipedia.org/wiki/W5_nuclear_warhead) for [MGM-1 Matador](http://en.wikipedia.org/wiki/MGM-1_Matador) (1954-1963)
  + [W7](http://en.wikipedia.org/wiki/W7) for [MGR-1 Honest John](http://en.wikipedia.org/wiki/MGR-1_Honest_John) (1954-1960), [Corporal SRBM](http://en.wikipedia.org/wiki/Corporal_%28rocket%29) (1955-1964), [Nike Hercules](http://en.wikipedia.org/wiki/Nike-Hercules_Missile) [SAM](http://en.wikipedia.org/wiki/Surface-to-air_missile) (1958-1960s)
  + [W8](http://en.wikipedia.org/wiki/Mark_8_nuclear_bomb#Variants) for [SSM-N-8 Regulus](http://en.wikipedia.org/wiki/SSM-N-8_Regulus), Gun-type (cancelled 1955)
  + [W12](http://en.wikipedia.org/wiki/W12) for [RIM-8 Talos](http://en.wikipedia.org/wiki/RIM-8_Talos) missile (cancelled 1955)
  + [W13](http://en.wikipedia.org/wiki/W13) for [SM-62 Snark missile](http://en.wikipedia.org/wiki/Snark_%28rocket%29) and [Redstone MRBM](http://en.wikipedia.org/wiki/Redstone_%28rocket%29) (cancelled 1954)
  + [W15](http://en.wikipedia.org/wiki/W15) for missiles (cancelled 1957)
  + [W21](http://en.wikipedia.org/wiki/W21) for [B-58](http://en.wikipedia.org/wiki/B-58) bomber, [SM-64 Navaho](http://en.wikipedia.org/wiki/SM-64_Navaho) missile (Cancelled 1957)
  + [W25](http://en.wikipedia.org/wiki/W25) for MB-1 "Ding Dong", later [AIR-2 Genie](http://en.wikipedia.org/wiki/AIR-2_Genie) (1957-1984)
  + [W27](http://en.wikipedia.org/wiki/W27) for [SSM-N-8 Regulus](http://en.wikipedia.org/wiki/SSM-N-8_Regulus) missile (1958-1965)
  + [W28](http://en.wikipedia.org/wiki/W28) for [AGM-28 Hound Dog missile](http://en.wikipedia.org/wiki/Hound_Dog_%28missile%29), [MGM-13 Mace](http://en.wikipedia.org/wiki/MGM-13_Mace) missile (1958-1976)
  + [W29](http://en.wikipedia.org/wiki/W29) for (cancelled 1955)
  + [W30](http://en.wikipedia.org/wiki/W30) for [RIM-8 Talos](http://en.wikipedia.org/wiki/RIM-8_Talos) missile (1959-1979)
  + [W31](http://en.wikipedia.org/wiki/W31) for Honest John (1961-1985), Nike Hercules (1960s-1988)
  + [W34](http://en.wikipedia.org/wiki/W34) for Mk101 Lulu nuclear depth charge, [Mk44 ASTOR torpedo](http://en.wikipedia.org/wiki/Mark_44_torpedo), Mk105 bomb (1958-1976)
  + [W35](http://en.wikipedia.org/wiki/W35) for [Atlas ICBM](http://en.wikipedia.org/wiki/Atlas_%28missile%29), [Titan I ICBM](http://en.wikipedia.org/wiki/LGM-25_Titan_I), [Thor IRBM](http://en.wikipedia.org/wiki/Thor_%28rocket%29), [PGM-19 Jupiter](http://en.wikipedia.org/wiki/PGM-19_Jupiter) (cancelled 1958)
  + [W37](http://en.wikipedia.org/wiki/W37) (cancelled 1956)
  + [W38](http://en.wikipedia.org/wiki/W38) for [Atlas ICBM](http://en.wikipedia.org/wiki/Atlas_%28missile%29) and [Titan I ICBM](http://en.wikipedia.org/wiki/LGM-25_Titan_I) (1961-1965)
  + [W39](http://en.wikipedia.org/wiki/W39) for [Redstone MRBM](http://en.wikipedia.org/wiki/Redstone_%28rocket%29) (1958-1964)
  + [W40](http://en.wikipedia.org/wiki/W40) for [MGM-18 Lacrosse](http://en.wikipedia.org/wiki/MGM-18_Lacrosse) SRBM (1959-1964)
  + [W41](http://en.wikipedia.org/wiki/W41) for (cancelled 1957)
  + [W42](http://en.wikipedia.org/wiki/W42) for Air to Air and Surface to Air missiles (cancelled 1961)
  + [W44](http://en.wikipedia.org/wiki/W44) for [ASROC](http://en.wikipedia.org/wiki/ASROC) (1961-1989)



1962 test of an [ASROC](http://en.wikipedia.org/wiki/ASROC) antisubmarine rocket armed with the [W44](http://en.wikipedia.org/wiki/W44)

* + [W45](http://en.wikipedia.org/wiki/W45) for Little John rocket, [RIM-2 Terrier](http://en.wikipedia.org/wiki/RIM-2_Terrier) and [AGM-12 Bullpup](http://en.wikipedia.org/wiki/AGM-12_Bullpup) missiles, MADM (1961-1969 (some 1988))
  + [W46](http://en.wikipedia.org/wiki/W46) for Redstone, Snark, B-58 (cancelled 1958)
  + [W47](http://en.wikipedia.org/wiki/W47) for [Polaris SLBM](http://en.wikipedia.org/wiki/UGM-27_Polaris) (1960-1974)
  + [W49](http://en.wikipedia.org/wiki/W49) for [PGM-19 Jupiter](http://en.wikipedia.org/wiki/PGM-19_Jupiter) (1959-1963) and [Thor IRBM](http://en.wikipedia.org/wiki/Thor_%28rocket%29) (1959-1963)
  + [W50](http://en.wikipedia.org/wiki/W50_%28atomic_weapon%29) for [MGM-31 Pershing](http://en.wikipedia.org/wiki/MGM-31_Pershing) (1960-1990)
  + [W51](http://en.wikipedia.org/wiki/W51) for various (program converted to [W54](http://en.wikipedia.org/wiki/W54) in 1959)
  + [W52](http://en.wikipedia.org/wiki/W52) for [MGM-29 Sergeant](http://en.wikipedia.org/wiki/MGM-29_Sergeant) (1962-1977)
  + [W53](http://en.wikipedia.org/wiki/W-53_warhead) for [LGM-25 Titan II](http://en.wikipedia.org/wiki/LGM-25_Titan_II) (1962-1987)
  + [W54](http://en.wikipedia.org/wiki/W54) for [Davy Crockett recoilless rifle](http://en.wikipedia.org/wiki/Davy_Crockett_%28nuclear_device%29) and [AIM-26 Falcon](http://en.wikipedia.org/wiki/AIM-26_Falcon) [AAM](http://en.wikipedia.org/wiki/Air-to-air_missile) (1961-1972)
  + [W55](http://en.wikipedia.org/wiki/W55) for [Subroc](http://en.wikipedia.org/wiki/Subroc) (1965-1989)
  + [W56](http://en.wikipedia.org/wiki/W56) for [Minuteman I and II ICBM](http://en.wikipedia.org/wiki/LGM-30_Minuteman) (1963-1993)
  + [W58](http://en.wikipedia.org/wiki/W58) for [Polaris A-3 SLBM](http://en.wikipedia.org/wiki/UGM-27_Polaris) (1964-1982)
  + [W59](http://en.wikipedia.org/wiki/W59) for [Minuteman I ICBM](http://en.wikipedia.org/wiki/LGM-30_Minuteman) and Skybolt missile (1962-1969)
  + [W60](http://en.wikipedia.org/wiki/W60) for Typhon SAM (cancelled 1963)
  + [W62](http://en.wikipedia.org/wiki/W62) for [Minuteman III ICBM](http://en.wikipedia.org/wiki/LGM-30_Minuteman), (1970-current service)
  + [W63](http://en.wikipedia.org/wiki/W63) for Lance SRBM (cancelled 1966)
  + [W64](http://en.wikipedia.org/wiki/W64_warhead) for Lance SRBM (cancelled 1964)
  + [W65](http://en.wikipedia.org/wiki/W65) for [Sprint](http://en.wikipedia.org/wiki/Sprint_%28missile%29) [ABM](http://en.wikipedia.org/wiki/Anti-ballistic_missile) (cancelled 1968)
  + [W66](http://en.wikipedia.org/wiki/W66) for [Sprint](http://en.wikipedia.org/wiki/Sprint_%28missile%29) ABM (1970-1975)
  + [W67](http://en.wikipedia.org/wiki/W67) for [Poseidon SLBM](http://en.wikipedia.org/wiki/UGM-73_Poseidon) and [Minuteman III ICBM](http://en.wikipedia.org/wiki/LGM-30_Minuteman) (cancelled 1967)
  + [W68](http://en.wikipedia.org/wiki/W68) for [Poseidon SLBM](http://en.wikipedia.org/wiki/UGM-73_Poseidon) (1970-1991)
  + [W69](http://en.wikipedia.org/wiki/W69) for [AGM-69 SRAM](http://en.wikipedia.org/wiki/AGM-69_SRAM) (1972-1990)
  + [W70](http://en.wikipedia.org/wiki/W70) for Lance SRBM (1973-1992)
  + [W71](http://en.wikipedia.org/wiki/W71) for [LIM-49A Spartan](http://en.wikipedia.org/wiki/LIM-49A_Spartan) ABM (1974-1975; dismantled 1992)
  + [W72](http://en.wikipedia.org/wiki/W72) for [AGM-62 Walleye](http://en.wikipedia.org/wiki/AGM-62_Walleye) (1970-1979)
  + [W73](http://en.wikipedia.org/wiki/W73) for Condor missile (cancelled 1970)
  + [W76](http://en.wikipedia.org/wiki/W76) for [Trident I SLBM](http://en.wikipedia.org/wiki/Trident_missile) (1978-current service)
  + [W78](http://en.wikipedia.org/wiki/W78) for [LGM-30 Minuteman III](http://en.wikipedia.org/wiki/LGM-30_Minuteman) (1979-current service)
  + [W80](http://en.wikipedia.org/wiki/W80) for [AGM-86](http://en.wikipedia.org/wiki/AGM-86) ALCM, [AGM-129 ACM](http://en.wikipedia.org/wiki/AGM-129_ACM) and [BGM-109 Tomahawk](http://en.wikipedia.org/wiki/BGM-109_Tomahawk) (1981-current service)
  + [W81](http://en.wikipedia.org/wiki/W81) for [Standard missile](http://en.wikipedia.org/wiki/Standard_missile), based on B61 (cancelled 1986)
  + [W84](http://en.wikipedia.org/wiki/W84) for [BGM-109G Gryphon GLCM](http://en.wikipedia.org/wiki/GLCM) (1983-1991)
  + [W85](http://en.wikipedia.org/wiki/W85) for [Pershing II IRBM](http://en.wikipedia.org/wiki/MGM-31_Pershing) (1983-1991)
  + [W86](http://en.wikipedia.org/wiki/W86) for [Pershing II IRBM](http://en.wikipedia.org/wiki/MGM-31_Pershing) Earth penetrating warhead option (cancelled 1980)
  + [W87](http://en.wikipedia.org/wiki/W87) for [Peacekeeper ICBM](http://en.wikipedia.org/wiki/LGM-118A_Peacekeeper) (1986-2005) and [Minuteman III ICBM](http://en.wikipedia.org/wiki/LGM-30_Minuteman) (2007-current service)
    - [W87-1](http://en.wikipedia.org/wiki/W87#Variants) for [MGM-134 Midgetman](http://en.wikipedia.org/wiki/MGM-134_Midgetman) ICBM (cancelled 1992)
  + [W88](http://en.wikipedia.org/wiki/W88) for [Trident II SLBM](http://en.wikipedia.org/wiki/Trident_missile) (1988-current service)
  + [W89](http://en.wikipedia.org/wiki/W89) for [AGM-131 SRAM II](http://en.wikipedia.org/wiki/AGM-131_SRAM_II) (cancelled 1991)
  + [W91](http://en.wikipedia.org/wiki/W91) for [SRAM-T](http://en.wikipedia.org/wiki/AGM-131_SRAM_II#SRAM-T) (cancelled 1991)
* Ongoing design projects
  + [RNEP (Robust Nuclear Earth Penetrator](http://en.wikipedia.org/wiki/Nuclear_bunker_buster) design program (2001-2005)
  + [Reliable Replacement Warhead](http://en.wikipedia.org/wiki/Reliable_Replacement_Warhead) design program (2004-)

See also [Enduring Stockpile](http://en.wikipedia.org/wiki/Enduring_Stockpile).

**Common nuclear primaries**

A number of American weapons designs shared common components between several designs. These include publicly identified models listed below.

|  |  |
| --- | --- |
| **Common nuclear fission primaries** | |
| Model | Used in these weapons |
| [Python primary](http://en.wikipedia.org/wiki/Python_primary) | [B28](http://en.wikipedia.org/wiki/B28_nuclear_bomb) [W28](http://en.wikipedia.org/wiki/W28) [W40](http://en.wikipedia.org/wiki/W40) [W49](http://en.wikipedia.org/wiki/W49) |
| [Boa primary](http://en.wikipedia.org/w/index.php?title=Boa_primary&action=edit) | [W30](http://en.wikipedia.org/wiki/W30) [W52](http://en.wikipedia.org/wiki/W52) |
| [Robin primary](http://en.wikipedia.org/wiki/Robin_primary) | [W38](http://en.wikipedia.org/wiki/W38) [W45](http://en.wikipedia.org/wiki/W45) [W47](http://en.wikipedia.org/wiki/W47) |
| [Tsetse primary](http://en.wikipedia.org/wiki/Tsetse_primary) | [B43](http://en.wikipedia.org/wiki/B43_nuclear_bomb) [W44](http://en.wikipedia.org/wiki/W44) [W50](http://en.wikipedia.org/wiki/W50) [B57](http://en.wikipedia.org/wiki/B57_nuclear_bomb) [W59](http://en.wikipedia.org/wiki/W59) |
| [Kinglet primary](http://en.wikipedia.org/wiki/Kinglet_primary) | [W55](http://en.wikipedia.org/wiki/W55) [W58](http://en.wikipedia.org/wiki/W58) |
| [B61 Family](http://en.wikipedia.org/wiki/B61_Family) | [B61](http://en.wikipedia.org/wiki/B61_nuclear_bomb) [W69](http://en.wikipedia.org/wiki/W69) [W73](http://en.wikipedia.org/wiki/W73) [W80](http://en.wikipedia.org/wiki/W80) [W81](http://en.wikipedia.org/wiki/W81) [W84](http://en.wikipedia.org/wiki/W84) [W85](http://en.wikipedia.org/wiki/W85) [W86](http://en.wikipedia.org/wiki/W86) |

**Soviet Union/Russia**

*Main article:* [*Russia and weapons of mass destruction*](http://en.wikipedia.org/wiki/Russia_and_weapons_of_mass_destruction)

At the peak of its arsenal, Russia possessed around 16,000 nuclear weapons in its stockpile, rivaled only by the United States arsenal.

* Tests
  + [Joe-1](http://en.wikipedia.org/wiki/Joe-1)
* Torpedoes
  + 53-58 torpedo with 10 kiloton RDS-9 warhead
  + [VA-111 Shkval](http://en.wikipedia.org/wiki/VA-111_Shkval)
* Bombs
  + RDS-1, 22 kiloton bomb. Tested 29 August 1949 as "First Light" (Joe 1). Total of 5 stockpiled
  + RDS-2, 38 kiloton bomb. Tested 24 September 1951 as "Second Light." The RDS-2 was an entirely Russian design, delayed by development of the RDS-1
  + RDS-3, 42 kiloton bomb. First Soviet bomb tested in an airdrop on 18 October 1951. First 'mass produced" Soviet bomb
  + RDS-31, 62 kiloton bomb. Tested 24 October 1954. The RDS-31 was an improved RDS-3 with external neutron generator
  + RDS-4, "Tatyana" 42 kiloton bomb. The RDS-4 was smaller and lighter than previous Soviet Bombs.
  + RDS-6, also known as RDS-6S, or "sloika" or 'layer cake" gaining about 20% of its yield from fusion. RDS-6 was tested on 12 August 1953. Yield 400 kilotons
  + RDS-7, a backup for the RDS-6, the RDS-7 was a 500 kiloton all fission bomb comparable to the US Mk-18, development dropped after success of the RDS-6S
  + RDS-27, 250 kiloton bomb, a 'boosted' fission bomb tested 6 November 1955.
  + RDS-37, 1.6 megaton bomb, the first Soviet two-stage hydrogen bomb, tested 22 November 1955
  + RDS-220 [Tsar Bomba](http://en.wikipedia.org/wiki/Tsar_Bomba) an extremely large three stage 50 to 150 megaton bomb
* ICBM Missiles
  + RDS-9, 40 kiloton warhead [[1]](http://www.atomicforum.org/russia/russiaweapons.html) for R-5M MRBM (SS-3)
  + RDS-37 3 [megaton](http://en.wikipedia.org/wiki/Megaton) warhead [[2]](http://fas.org/nuke/guide/russia/icbm/r-7.htm) for [R7 Semyorka / SS-6](http://en.wikipedia.org/wiki/R-7_Semyorka) ICBM
  + RDS-46 5 [megaton](http://en.wikipedia.org/wiki/Megaton) warhead [[3]](http://fas.org/nuke/guide/russia/icbm/r-7.htm) for R-7A Semyorka / SS-6]] ICBM
  + 8F17 3 megaton [[4]](http://fas.org/nuke/guide/russia/icbm/r-16.htm) warhead for [R-16 / SS-7](http://en.wikipedia.org/wiki/R-16) ICBM
  + 8F115 and 8F116 5-6 megaton [[5]](http://fas.org/nuke/guide/russia/icbm/r-16.htm) warhead for [R-16 / SS-7](http://en.wikipedia.org/wiki/R-16) ICBM
  + Unknown model warheads for [R-9 / SS-8 Sasan](http://en.wikipedia.org/wiki/R-9) ICBM
  + 15F42 1.2 megaton warhead for UR 100U / SS-11 Mod 3 Sego ICBM
  + Unknown model 750 [kiloton](http://en.wikipedia.org/wiki/Kiloton) to 1.0 [megaton](http://en.wikipedia.org/wiki/Megaton) warhead for [RT-2 / SS-13 Mod 1 Savage](http://en.wikipedia.org/wiki/RT-2) ICBM
  + 15F1r 750 kiloton to 1.65 [megaton](http://en.wikipedia.org/wiki/Megaton) warhead for [RT-2 / SS-13 Mod 2 Savage](http://en.wikipedia.org/wiki/RT-2) ICBM
  + Unknown model 466 kiloton warhead for [RT-2 / SS-13 Mod 3 Savage](http://en.wikipedia.org/wiki/RT-2) ICBM
  + Unknown model 500 kiloton warhead for [RT-20 / SS-15 Scrooge](http://en.wikipedia.org/wiki/RT-20) ICBM
  + Unknown model 1.5 megaton warhead for [RT-20 / SS-15 Scrooge](http://en.wikipedia.org/wiki/RT-20) ICBM
  + Unknown model 650 kiloton to 1.5 megaton warheads for [RT-21 Temp 2S SS-16 Sinner](http://en.wikipedia.org/wiki/RT-21_Temp_2S) ICBM
  + Unknown model 300-750 kiloton warheads for [MR-UR-100 Sotka / SS-17 Spanker Mod 1](http://en.wikipedia.org/wiki/MR-UR-100_Sotka) ICBM
  + Unknown model 4-6 megaton warhead for [MR-UR-100 Sotka / SS-17 Spanker Mod 2](http://en.wikipedia.org/wiki/MR-UR-100_Sotka) ICBM
  + 8F675 (Mod2) 20 megaton warhead for [R-36M2 / SS-18 Satan](http://en.wikipedia.org/wiki/R-36) ICBM
  + 8F021 2 or 5 megaton warheads for [R-36MP / SS-18 Satan](http://en.wikipedia.org/wiki/R-36) ICBM (3 MIRV warheads)
  + unknown 550 kiloton warheads for [R-36M2 / SS-18 Satan](http://en.wikipedia.org/wiki/R-36) ICBM (10 MIRV warheads)
  + Unknown model 750 kiloton warheads for [R-36M2 / SS-18 Satan](http://en.wikipedia.org/wiki/R-36) ICBM (10 MIRV warheads)
  + Unknown model 550 kiloton warheads for [UR-100N / SS-19 Mod 1 Stilleto](http://en.wikipedia.org/wiki/UR-100N) ICBM (6 MIRV warheads)
  + Unknown model 2.5-5 megaton warhead for [UR-100N / SS-19 Mod 2 Stilleto](http://en.wikipedia.org/wiki/UR-100N) ICBM
  + Unknown model 550 kiloton warheads for [RT-23 Molodets / SS-24 Scalpel](http://en.wikipedia.org/wiki/RT-23_Molodets) ICBM (10 MIRV warheads)
  + Unknown model 550 kiloton warhead for [RT-2PM Topol / SS-25 Sickle](http://en.wikipedia.org/wiki/RT-2PM_Topol) ICBM
  + Unknown model 550 kiloton warhead for [RT-2UTTH Topol M / SS-27](http://en.wikipedia.org/wiki/RT-2UTTH_Topol_M) ICBM
* Various [tactical nuclear weapons](http://en.wikipedia.org/wiki/Tactical_nuclear_weapons) including "[suitcase bombs](http://en.wikipedia.org/wiki/Suitcase_bomb)"

**United Kingdom**

*Main article:* [*United Kingdom and Weapons of Mass Destruction*](http://en.wikipedia.org/wiki/United_Kingdom_and_Weapons_of_Mass_Destruction)

The United Kingdom is said to have an arsenal of 350 nuclear weapons stockpiled as of 2001.

Although the stockpile of "operationally available warheads" was reduced from 300 to less than 200 in 1998.

* Bombs
  + [Blue Danube](http://en.wikipedia.org/wiki/Blue_Danube_%28nuclear_weapon%29)
  + [Yellow Sun](http://en.wikipedia.org/wiki/Yellow_Sun)
  + [Violet Club](http://en.wikipedia.org/wiki/Violet_Club)
  + [Red Beard](http://en.wikipedia.org/wiki/Red_Beard_%28nuclear_weapon%29)
  + [WE.177](http://en.wikipedia.org/wiki/WE.177)
* Missiles
  + [Blue Steel](http://en.wikipedia.org/wiki/Blue_Steel_missile)
* Missile warheads
  + [Red Snow](http://en.wikipedia.org/wiki/Red_Snow)
* Other nuclear weapons
  + [WE.177](http://en.wikipedia.org/wiki/WE.177) (also used as a nuclear depth charge)
  + [Blue Peacock](http://en.wikipedia.org/wiki/Blue_Peacock) (nuclear land mine, a.k.a. the "chicken-powered nuclear bomb")

**Canada**

*Main article:* [*Canada and weapons of mass destruction*](http://en.wikipedia.org/wiki/Canada_and_weapons_of_mass_destruction)

Canada has not maintained a stockpile of nuclear weapons since 1984.

* Missiles
  + [AIR-2 Genie](http://en.wikipedia.org/wiki/AIR-2_Genie) (1961-1984)

**France**

*Main article:* [*France and weapons of mass destruction*](http://en.wikipedia.org/wiki/France_and_weapons_of_mass_destruction)

France is said to have an arsenal of 350 nuclear weapons stockpiled as of 2002.

* Bombs
  + [AN 11](http://en.wikipedia.org/wiki/AN-11_bomb)
  + [AN 22](http://en.wikipedia.org/wiki/AN-22_bomb)
  + [AN 52](http://en.wikipedia.org/wiki/AN-52_bomb)
* Missile warheads
  + [MR 31](http://en.wikipedia.org/wiki/MR_31)
  + [MR 41](http://en.wikipedia.org/wiki/MR_41)
  + [AN 51](http://en.wikipedia.org/wiki/AN_51)
  + [AN 52](http://en.wikipedia.org/wiki/AN_52)
  + [TN 60](http://en.wikipedia.org/wiki/TN_60)
  + [TN 61](http://en.wikipedia.org/wiki/TN_61)
  + [TN 70](http://en.wikipedia.org/wiki/TN_70)
  + [TN 71](http://en.wikipedia.org/wiki/TN_71)
  + [TN 75](http://en.wikipedia.org/wiki/TN_75)
  + [TN 80](http://en.wikipedia.org/wiki/TN_80)
  + [TN 81](http://en.wikipedia.org/wiki/TN_81)
  + [TN 90](http://en.wikipedia.org/wiki/TN_90)

**China**

*Main article:* [*China and weapons of mass destruction*](http://en.wikipedia.org/wiki/China_and_weapons_of_mass_destruction)

China is believed to possess around 400 nuclear weapons, but has released very little information about the contents of its arsenal.

* Tests:
  + [596 (nuclear test)](http://en.wikipedia.org/wiki/596_%28nuclear_test%29)
  + [Test No. 6](http://en.wikipedia.org/wiki/Test_No._6)
* Missiles:
  + [DF-3A](http://en.wikipedia.org/wiki/DF-3A)
  + [DF-4](http://en.wikipedia.org/wiki/DF-4)
  + [DF-5](http://en.wikipedia.org/wiki/DF-5)
  + [DF-21](http://en.wikipedia.org/wiki/DF-21)
  + [DF-31](http://en.wikipedia.org/wiki/DF-31)
  + [JL-1](http://en.wikipedia.org/wiki/JL-1)
  + [JL-2](http://en.wikipedia.org/wiki/JL-2)

**India**

*Main article:* [*India and weapons of mass destruction*](http://en.wikipedia.org/wiki/India_and_weapons_of_mass_destruction)

India is said to possess between 60-120 nuclear weapons, although not many are thought to be ready for use. The specifications of its weapons are not public.

* Tests:
  + [Smiling Buddha](http://en.wikipedia.org/wiki/Smiling_Buddha)
  + [Operation Shakti](http://en.wikipedia.org/wiki/Operation_Shakti)
* Missiles
  + [Agni I](http://en.wikipedia.org/wiki/Agni_I)
  + [Agni II](http://en.wikipedia.org/wiki/Agni_II)
  + [Agni III](http://en.wikipedia.org/wiki/Agni_III)
  + [Prithvi I](http://en.wikipedia.org/wiki/Prithvi_missile)
  + [Prithvi II](http://en.wikipedia.org/wiki/Prithvi_missile)
  + [Prithvi III](http://en.wikipedia.org/wiki/Prithvi_missile)
  + [Akash](http://en.wikipedia.org/wiki/Akash_missile)
  + [Trishul](http://en.wikipedia.org/wiki/Trishul_missile)
  + [BrahMos](http://en.wikipedia.org/wiki/BrahMos)

**Iran**

*Main article:* [*Iran and weapons of mass destruction*](http://en.wikipedia.org/wiki/Iran_and_weapons_of_mass_destruction)

Persistent rumors throughout the 1990s that Iran had obtained ex-Soviet nuclear weapons have never been confirmed or conclusively refuted.

Iran is actively seeking nuclear capability, which they state is not for military use.

Many experts have concluded that Iran's contemporary late 1990s and 2000 formerly covert uranium enrichment program was part of a secret nuclear weapons program. Iran disputes this conclusion. As of April 2007, the [International Atomic Energy Agency](http://en.wikipedia.org/wiki/International_Atomic_Energy_Agency) and [United Nations Security Council](http://en.wikipedia.org/wiki/United_Nations_Security_Council) are involved in addressing this question. Also unconfirmed reports from [April 12](http://en.wikipedia.org/wiki/April_12), [2007](http://en.wikipedia.org/wiki/2007) Iranian President, Mahmoud Ahmadinejad, announced that Iran has enriched uranium. As of [April 13](http://en.wikipedia.org/wiki/April_13), [2007](http://en.wikipedia.org/wiki/2007) Iran now demands to be seen as a nuclear power.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] The UN has voted to sanction Iran if it doesn't shut down its uranium enriching facilities. Recently Iran has failed to meet the deadline.

**Israel**

*Main article:* [*Israel and weapons of mass destruction*](http://en.wikipedia.org/wiki/Israel_and_weapons_of_mass_destruction)

Israel is widely believed to possess a substantial arsenal of nuclear weapons and missiles, estimated at 75-130 and 100-200[[1]](http://en.wikipedia.org/wiki/List_of_nuclear_weapons#_note-0#_note-0) warheads, but refuses officially to confirm or deny whether it has a nuclear weapon program, leaving the details of any such weapons unclear. [Mordechai Vanunu](http://en.wikipedia.org/wiki/Mordechai_Vanunu), a former nuclear technician for Israel, confirmed the existence of a nuclear weapons program in 1986.

Unconfirmed rumors have hinted at tactical nuclear artillery shells, light fission bombs and missile warheads, and perhaps thermonuclear missile warheads. [[2]](http://en.wikipedia.org/wiki/List_of_nuclear_weapons#_note-1#_note-1)

**Pakistan**

*Main article:* [*Pakistan and weapons of mass destruction*](http://en.wikipedia.org/wiki/Pakistan_and_weapons_of_mass_destruction)

Pakistan is believed to have around 40-60 [HEU](http://en.wikipedia.org/wiki/HEU) based nuclear weapons.Though Plutonium based research is also available but the estimated stockpile is not enough to be comparable to Uranium ones, however the specifications of these are not available publicaly. The main series for nuclear transportation is Hatf.

* Missiles
  + [Abdali-I (BRBM)](http://en.wikipedia.org/w/index.php?title=Abdali-I_%28BRBM%29&action=edit)
  + [Ghaznavi (SRBM)](http://en.wikipedia.org/w/index.php?title=Ghaznavi_%28SRBM%29&action=edit)
  + [Ghauri-I and II (MRBM)](http://en.wikipedia.org/w/index.php?title=Ghauri-I_and_II_%28MRBM%29&action=edit)
  + [Ghauri-III (Close ICBM)](http://en.wikipedia.org/w/index.php?title=Ghauri-III_%28Close_ICBM%29&action=edit)
  + [Sahaeen-I and II](http://en.wikipedia.org/w/index.php?title=Sahaeen-I_and_II&action=edit)
  + [Babur (Land and Sea based CM)](http://en.wikipedia.org/w/index.php?title=Babur_%28Land_and_Sea_based_CM%29&action=edit)
  + [Ra'ad (ALCM)](http://en.wikipedia.org/w/index.php?title=Ra%27ad_%28ALCM%29&action=edit)

The first two in the above mentioned series are not thought to be capable for nuclear standoff

**North Korea**

*Main article:* [*North Korea and weapons of mass destruction*](http://en.wikipedia.org/wiki/North_Korea_and_weapons_of_mass_destruction)

North Korea claims to possess nuclear weapons, however, the specifications of its systems are not public. On [9 October](http://en.wikipedia.org/wiki/October_9) [2006](http://en.wikipedia.org/wiki/2006), North Korea carried out an alleged nuclear test. (See [2006 North Korean nuclear test](http://en.wikipedia.org/wiki/2006_North_Korean_nuclear_test))

**South Africa**

*Main article:* [*South Africa and weapons of mass destruction*](http://en.wikipedia.org/wiki/South_Africa_and_weapons_of_mass_destruction)

South Africa built six or seven gun-type weapons. All constructed weapons were verified by [International Atomic Energy Agency](http://en.wikipedia.org/wiki/International_Atomic_Energy_Agency) and other international observers to have been dismantled, along with the complete weapons program, and their [highly enriched uranium](http://en.wikipedia.org/wiki/HEU) was reprocessed back into low enriched form unsuitable for weapons.

**See also**

* [Nuclear weapon yield](http://en.wikipedia.org/wiki/Nuclear_weapon_yield)