TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012

NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
LAND BALLISTIC MISSILES							
UNITED STATES							
ICBM							
LGM-30G	Minuteman III					13,000	
	MK-12	~0	1970	Single	1 x 170		~0
	MK-12A	250	1979	MIRV, Single	1-3 x 335		200
	MK-21 SERV	200	2006(1986)	Single	1 x 300		300
TOTAL 11(SIPRI) 10(BULL)		450					500
SRBM							
ATACMS Block I		Some	1991	Single	1 x 560kg payload	165	Some
ATACMS Block IA		Some	1998	Single	1 x 160kg payload	300	Some
ATACMS Block II		Some	2002	Single	1 x 270kg payload	140	Some
TOTAL 08(WIKI)		Some					Some
RUSSIA							
ICBM							
SS-18	Satan	~50	1988	MIRV	10 x 500-800	11,000-15,000	~500
SS-19	Stiletto	50	1980	MIRV	6 x 400	10,000	300
SS-25	Sickle	120	1985	Single	1 x 800	10,500	120
SS-27	Topol-M1 (SILO)	51	1997	Single	1 x 800	10,500	51
SS-27	Topol-M1 (MOBILE)	18	2006	Single	1 x (800)?	10,500	18
SS-27	Topol-M2 (RS-24)	6	2010	MIRV	3 x (400)?	10,500	18
TOTAL 11(SIPRI) 11(BULL)		295					1,007
SRBM							
SS-1c Mod 1	Scud-B	Some	1964	Single	1 x 1,000kg payload	300	Some
SS-1c Mod 2	Scud-B	Some	1964	Single	1 x 950kg payload	240	Some
SS-26	Iskander	Some	1995	Single	1 x 480kg payload	400	Some
	Iskander-E	Some	1999	Single	1 x 480kg payload	280	Some
TOTAL 08(WIKI)		Some					Some

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012

NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
CHINA							
ICBM							
CSS-4	DF-5A	~20	1981	Single	1 x 4,000-5,000	13,000	~20
CSS-X-10	DF-31	10-20	2006			>7,200	10-20
				Single	1 x 200-300		
				MIRV	3 x 50-100		
?	DF-31A	10-20	2007			>11,200	10-20
				Single	1 x 200-300		
				MIRV	3-5 x 20-150		
TOTAL 11(SIPRI) 11(BULL)		~40-60					~40-60
IRBM							
CSS-2	DF-3A	~16	1971	Single	1 x 3,300	3,100	~16
CSS-3	DF-4	~12	1980	Single	1 x 3,300	5,500	~12
CSS-5	DF-21, DF-21A	~60	1991	Single	1 x 200-300	1,800-3,000	~60
TOTAL 11(SIPRI) 11(BULL) 11(WIKI)		~88					~88
SRBM							
CSS-6	DF-15/M-9	24	1989	Single	1 x 50-350	600	Some
CSS-7	DF-11/M-11	32	1999	Single	1 x 0.5	300	Some
CSS-8	DF-7	30	?	Single	1 x 500kg payload	150	?
TOTAL 11(SIPRI) 04(IISS)		96					Some
INDIA							
IRBM							
Agni II		Some	2004	Single	1 x 15-250	2,000-3,000	Some
Agni III		Some	2010-2011	Single	1 x 15-250	3,500-5,500	Some
Agni IV		Some	2010			~5,000	Some
Agni V		Some	2012	Single	1 x 1,500kg payload	5,000	Some
TOTAL 12(JDW) 11(SIPRI) 11(BULL) 11(WIKI)		Some					Some
SRBM							
Agni I		Some	2007	Single	1 x 1,000kg	700+	Some

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012

NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
					payload		
Prithvi I		<50	1998	Single	1 x 1,000kg payload	150	Some
Prithvi II		Some	2004	Single	1 x 500kg payload	250	Some
Prithvi III		30	2004	Single	1 x 10-20	350-600	Some
TOTAL 11(SIPRI) 11(BULL)		Some					Some
PAKISTAN							
IRBM							
Ghauri-1	Haft 5	<50	2003	Single	1 x 700-1,000kg payload	1,800	Some
Ghauri-2	Haft 5A	Some	2003	Single	1 x 1,200kg payload	2,500	Some
Ghauri-3		Some	(>2011)	Single		3,000-3,500	Some
Shaheen-2	Haft 6	Some	2007	Single	1 x 1,000+kg payload	2,500	Some
Shaheen-3		Some	(>2011)	Single		4,000-4,500	Some
TOTAL 11(SIPRI) 11(WIKI)		Some					Some
SRBM							
Abdali	Haft 2	Some	2006	Single	1 x 250-450kg payload	180-200	Some
Ghaznavi	Haft 3	<50	2004	Single	1 x 500kg payload	~400	Some
Shaheen-1	Haft 4	<50	2008	Single	1 x 750-1,000kg payload	600-1,500	Some
TOTAL 11(SIPRI)		Some					Some
ISRAEL							
ICBM							
Jericho 3		2-5	2008				Some
				Single	1 x 1,000-1,300	11,500	
				MIRV	6 x 100	11,500	
Jericho 2B		~90	1990	Single	1 x 500kg	>7,800	Some
TOTAL 12(JDW) 11(SIPRI) 11(WIKI) Note [1], [2], [3], [4], [5]		Some					Some

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012

NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
IRBM							
Jericho 2		(50-100)	1990				Some
				Single	1 x 750-1,000kg payload	1,500-1,800	
TOTAL 11(SIPRI) 11(WIKI)		(50-100)					Some
NORTH KOREA							
IRBM							
No-Dong-1		Some	1997	Single	1 x 700-1,000kg payload	1,300	Some
Rodong-1		Some		Single		1,300	Some
Rodong-2		Some		Single		2,000	Some
Taepodong-1		Some		Single		2,500	Some
Musudan		Some	(>2011)	Single		3,500-4,000	Some
TOTAL 11(SIPRI) 11(WIKI)		Some					Some
SRBM							
Scud-B		Some	1979-1980	Single	1 x 1,000kg payload	300	Some
Scud-C variant		Some	1989	Single	1 x 700kg payload	500	Some
Scud-D		Some	2006	Single	1 x 500kg payload	700	Some
TOTAL 11(SIPRI)		Some					Some
SLBM							
UNITED STATES							
UGM-133	Trident II D-5	288					
	MK-4		1992	MIRV	4-6 x 100	12,000	568
	MK-4A		2008	MIRV	4-6 x 100	?	200
	MK-5		1990	MIRV	4-6 x 475	12,000	384
TOTAL 11(SIPRI) 10(BULL)		288					1,152
UNITED KINGDOM							
UGM-135	Trident II D-5	48	1994	MIRV	1-3 x 100	12,000	160
TOTAL 11(SIPRI)		48					160
RUSSIA							
SS-N-18 M1	Stingray	4/64	1978	MIRV	3 x 50	6,500	192

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012

NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
SS-N-23	Skiff	1/16	1986	MIRV	4 x 100	9,000	64
SS-N-23 M1	Sineva	5/80	2007	MIRV	4 x 100		320
SS-N-32	Bulava-30	(1/16)	(2011)	MIRV	6 x 100	8,000-10,000	(96)
TOTAL 11(SIPRI) 11(BULL)		10/160					576
FRANCE							
M-45		32	1996	MIRV	4-6 x 100	6,000	160
M-51.1		16	2010-2011	MIRV	4-6 x 100	8,000-10,000	80
M-51.2		0	(2015)	MIRV	4-6 x TNO	6,000	0
TOTAL 11(SIPRI) 08(BULL)		48					240
CHINA							
CSS-N-3		(12)	1986				(12)
	JL-1			Single	1 x 200-300	1,000-1,700	
	JL-1			Single	1 x 25-50	2,150	
	JL-1A			Single	1 x 25-50	2,500	
CSS-NX-5	JL-2	(24)	(2010)			>8,000	(24)
				Single	1 x 200-300		
				MIRV	3-4 x 90		
TOTAL 11(SIPRI) 11(BULL)		(36)					(36)
INDIA							
Sagarika	K-15	0	(2010)	Single	1 x 500-600kg payload	700	0
Dhanush		Some	2007	Single	1 x 500kg payload	350	Some
TOTAL 11(SIPRI) 11(BULL)		Some					Some
AIRCRAFT							
UNITED STATES							
STRATEGIC							
B-52H	Stratofortress	93/44	1961	ALCM	5-150	16,000	200
				ACM	5-150		
B-2	Spirit	20/16	1994	Bombs B61-7, B83-1	ACM 5-150	11,000	100
TOTAL 11(SIPRI) 10(BULL)		113/60					300
SUB-STRATEGIC							
F-15E	Strike Eagle	Some	1988	Bomb B61-3, B61-4	1 x 0.3-170, 1 x 0.3-45	2,500	Some

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012

NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
F-16A/B/C/D	Fighting Falcon	Some	1976	Bomb B61-3, B61-4	1 x 0.3-170, 1 x 0.3-45	2,500	Some
F-117A	Nighthawk	Some	1983	Bomb B61-3, B61-4	1 x 0.3-170, 1 x 0.3-45	2,100	Some
TOTAL 11(SIPRI) 09(WIKI) 04(IISS) 08(BULL)		Some					200
RUSSIA							
STRATEGIC							
Tu-95 MS6	Bear H6	32	1984	ALCM	6 x ?	6,500-10,500	192
				Bombs	? x ?		
Tu-95 MS16	Bear H16	31	1984	ALCM	16 x ?	6,500-10,500	496
				Bombs	? x ?		
Tu-160	Blackjack	13	1987	ALCM	12 x ?	10,500-13,200	156
				SRAM	? x ?		
				Bombs	? x ?		
TOTAL 11(SIPRI) 11(BULL)		76					844
SUB-STRATEGIC							
Land-based bombers							
Tu-22M-3	Backfire	124	1974	ASM	2 x ?	4,800-7,000	Some
				Bombs	? x ?		
Su-24	Fencer	400	1974	Bombs	2 x ?	2,100-3,000	Some
TOTAL 11(SIPRI)		524					~650
Naval bombers							
Tu-22M	Backfire	58	1974	ASM	2 x ?		Some
				Bombs	? x ?		
Su-24	Fencer	58	1974	Bombs	2 x ?		Some
Be-12/Il-38	Mail/May	63	1967/68	Depth bombs	1 x ?		Some
TOTAL 11(SIPRI)		179					~240
FRANCE							
STRATEGIC							
Mirage 2000N		~20	1988	ASMP	1 x 300	2,750	~20
Rafale F3		~20	2010-2011	ASMP	1 x 300	2,000	~20
TOTAL 11(SIPRI) 08(BULL)		~40					~40
SUB-STRATEGIC							
Super Etendard		0	1978	ASMP	1 x 300	650	0
Rafale MK3		~10	2010-2011	ASMP	1 x 300	2,000	~10
TOTAL		~10					~10

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012

NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
11(SIPRI) 08(BULL)							
CHINA							
STRATEGIC							
H-6	Tu-16	~20	1965	Bomb	1 x 3,000kg payload	3,100	(20)
TOTAL 11(SIPRI)		~20					(20)
SUB-STRATEGIC							
Q-5	Mig-19	~20	1972-?	Bomb	1 x 1,000kg payload	400	(20)
TOTAL 11(SIPRI)		~20					(20)
ISRAEL							
SUB-STRATEGIC							
F-4E-2000	Kurnass	Some	1989	Bomb	1 x 8,480kg payload	2,200	Some
F-16A Fighting Falcon	Netz/Hawk	88	1980	Bomb	1 x 5,400kg payload	2,500	Some
F-16B Fighting Falcon	Netz/Hawk	16		Bomb	1 x 5,400kg payload	2,500	Some
F-16C Fighting Falcon	Barak / Lightning	75		Bomb	1 x 5,400kg payload	2,500	Some
F-16D Fighting falcon	Barak / Thunderbolt	46		Bomb	1 x 5,400kg payload	2,500	Some
F-16I Fighting Falcon	Sufa / Storm	101		Bomb	1 x 5,400kg payload	2,500	Some
F-15I Strike Eagle	Ra'am / Thunder	25	1997	Bomb	1 x 10,400kg payload	2,500	Some
TOTAL 12(JDW) 11(SIPRI)		351					Some
INDIA							
SUB-STRATEGIC							
Jaguar IS/IB	Shamsher	131 07(WIKI)	1979	Bomb	1 x 4,760kg payload	1,600	Some
MiG-27M	Bahadur	165 07(WIKI)	1982	Bomb	1 x 3,000kg payload	1,000	Some
Mirage 2000H	Vajra	40 07(WIKI)	1998	Bomb	1 x 6,300kg payload	1,850	Some
TOTAL 11(SIPRI) 11(BULL)		336 07(WIKI)					Some

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012

NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
PAKISTAN							
SUB-STRATEGIC							
F-16A/B	Fighting Falcon	32	1983	Bomb/Babur LACM	1 x 4,500kg payload	1,600	Some
Mirage 2000-5		Some	2002	Bomb	1 x 4,000kg payload	2,100	Some
Q-5	MiG-19	Some	1980s	Bomb	1 x 1,000kg payload	1,200	Some
TOTAL 11(SIPRI) 09(BULL)		>32					Some
NORTH KOREA							
SUB-STRATEGIC							
H-5	Il-28	80	1950	Bomb	1 x 3,000kg payload	2,100	Some
TOTAL 11(SIPRI)		80					Some
SLCM							
UNITED STATES							
Tomahawk	TLAM-N	325	1984	Single	1 x 5-150	2,500	(100)
TOTAL 11(SIPRI) 10(BULL)		325					100
RUSSIA							
SS-N-9	Siren	Some	1972	Single	1 x 200	110	Some
SS-N-12	Sandbox	Some	1959-1960	Single	1 x 350	550	Some
SS-N-19	Shipwreck	Some	1980	Single	1 x 500	550	Some
SS-N-21	Sampson	Some	1984	Single	1 x 200	2,400	Some
SS-N-22	Sunburn	Some	1980	Single	1 x 320kg payload	120	Some
TOTAL 11(SIPRI) 10(BULL)		Some					~280
ISRAEL							
Turbo-Popeye 3		Some	2000	Single	1 x 200kg payload	1,500	Some
TOTAL 04(IISS)		Some					Some
ALCM							
UNITED STATES							
AGM-868		1,140	1982/1991	Single	1 x 900-1,400kg payload	2,500	Some

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012

NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
AGM-129		460	1990	Single	1 x 5-200	3,500	Some
TOTAL 11(SIPRI) 08(BULL)		1,600					Some
RUSSIA							
AS-4	Kh-24 Kitchen	Some	1964	Single	1 x 1,000	310	Some
AS-15A	Kh-55 Kent	Some	1971	Single	1 x 200-250	2,500	Some
AS-15B	Kh-55SM Kent	Some	1986	Single	1 x 200-250	3,000	Some
AS-16	Kh-15 Kickback	Some	1980	Single	1 x 350	150	Some
TOTAL 11(SIPRI) 08(BULL)		Some					Some
FRANCE							
ASMP		Some	1985	Single	1 x 300	250	Some
TOTAL 11(SIPRI) 08(BULL)		Some					Some
CHINA							
	DH-10	150-350	2007	Single	1 x ?	>2,000	Some
TOTAL 11(SIPRI) 08(BULL)		150-350					Some
PAKISTAN							
Babur	Haft-7	Some	2007	Single	1 x 500kg payload	700	Some
Ra'ad	Haft-8	Some	(>2009)	Single	?	350	0
TOTAL 11(SIPRI)		Some					Some
MISSILE AND AIR DEFENSE SYSTEMS							
RUSSIA							
STRATEGIC DEFENSIVE SYSTEMS							
51T6	SH-11 Gorgon	0	1989	Single	1 x 1,000	350	0
53T6	SH-08 Gazelle	68	1986	Single	1 x 1,000 / 10	80	68
S-300	SA-10/20 Grumble	1,900	1980	Single	1 x low yield	5-150	~630
S-400	SA-21 Growler	~100	2007	…	…	…	Some
TOTAL 11(SIPRI) 11(BULL)		~2,068					~700

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2011-2012							
NAME/DESIGNATION	AKA	NUMBER OF SYSTEMS Active+Spares	YEAR FIRST DEPLOYED	WARHEAD TYPE	NUMBER OF WARHEADS x YIELD (kilotons)	RANGE (km)	TOTAL NUMBER OF WARHEADS Active+Spares
UNITED STATES							
STRATEGIC DEFENSIVE SYSTEMS							
GBI missiles		25(26)					0
Aegis BMD cruisers		3					0
Aegis BMD destroyers		57(70)					0
TOTAL 08(SIPRI) 11(WIKI)		85(99)					0
SUB-STRATEGIC DEFENSIVE SYSTEMS							
PAC-3 missiles		546					0
TOTAL 08(SIPRI)		546					0

ACM advanced cruise missile
AKA also known as
ALCM air-launched cruise missile
ASM air-to-surface missile
MIRV multiple independently targetable re-entry vehicles
ICBM intercontinental ballistic missile
IRBM intermediate-range ballistic missile
SRBM short-range ballistic missile
SLBM submarine-launched ballistic missile
SLCM submarine-launched cruise missile
LACM land-attack cruise missile
GBI ground-based interceptors
BMD ballistic missile defense
PAC-3 Patriot advanced capability-3

SOURCES: SIPRI, BULL, WIKI, IISS, JDW

Notes.

1) According to an official report which was submitted to the American congress in 2004, it may be that with a payload of 1,000 kg the Jericho 3 gives Israel nuclear strike

capabilities within the entire Middle East, Africa, Europe, Asia and almost all parts of North America, as well as within large parts of South America and North Oceania.
2) Henry A. Kissinger (16 July 1969), "Israeli Nuclear Program," Memorandum for the President (The White House), Retrieved 2009-07-26
3) Proliferation of Weapons of Mass Destruction: Assessing the Risks, U.S. Congress Office of Technology Assessment, August 1993, OTA-ISC-559, Retrieved 2008-12-09
4) Missile Survey: Ballistic and Cruise Missiles of Foreign Countries, by Andrew Feikert, Congressional Research Service, Updated March 5, 2004
5) Study on a Possible Israeli Strike on Iran's Nuclear Development Facilities, by Abdullah Toukan, Center for Strategic and International Studies, March 14, 2009

TABLE 2.10 – OPERATIONAL NUCLEAR WARHEADS, 2011-2012, STRATEGIC

OBS	COUNTRY	ICBM	IRBM	SLBM	ALCM/BOMBS	TOTAL
1	Russia	1,007		576	844	~2,430
2	U.S.	500		1,152	316	1,968
3	France			240	60	300
4	China	40-60	94	62	40	236-256
5	U.K.			160		160
6	Israel	Some				Some
7	India					
8	Pakistan					
9	N. Korea					

ALCM air-launched cruise missile
ICBM intercontinental ballistic missile
IRBM intermediate-range ballistic missile
SLBM submarine-launched ballistic missile

SOURCES: SIPRI, BULL, IISS, JDW

TABLE 2.11 – OPERATIONAL NUCLEAR WARHEADS, 2011-2012, SUB-STRATEGIC						
OBS	COUNTRY	SRBM	SLCM	AIR DEFENSE	AIRCAFT	TOTAL
1	Russia		~800	698	590	~2,080
2	U.S.		Some		Some	200
3	Israel	~30-40	Some		~30-40	60-80
4	Pakistan	~35-45			~35-45	70-90
5	India	~30-40			~30-40	60-80
6	N. Korea				6-10	6-10
7	China	Some			Some	Some
8	France					0
9	U.K.					0

SLCM sea-launched cruise missile
SRBM short-range ballistic missile

SOURCES: SIPRI, BULL, IISS, JDW

TABLE 2.12 – OPERATIONAL NUCLEAR WARHEADS, 2011-2012, TOTAL STRATEGIC AND SUB-STRATEGIC

OBS	COUNTRY	STOCKPILE			DELIVERABLE			
		11(BULL) 10(BULL)	11(SIPRI)	See [1], [2], [3]	11(BULL) 10(BULL)	11(SIPRI)	10(IISS)	10(JDW)
1	Russia	11,000	11,000		~2,430	~2,427		
2	U.S.	8,500	8,500		2,150	2,150		
3	Israel	60-80 (115-190)	~80	Up to 400	60-80	~80	~200	100-300
4	France		300		300	290		
5	China		240		236-256	200		
6	U.K.	225	225		160	160		
7	Pakistan		90-110		70-90	90-110		
8	India		80-100		60-80	80-100		
9	N. Korea				6-10			

Notes:

1) "Background Information, 2005 Review Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons," United Nations, Retrieved 2006-07-02.
2) Brower, Kenneth S., "A Propensity for Conflict: Potential Scenarios and Outcomes of War in the Middle East," Jane's Intelligence Review, Special Report no. 14 (February 1997), p. 14-15.
3) "Nuclear Weapons: Who Has What at a Glance," Arms Control Association, Retrieved 2007-05-30.
4) The Bulletin of the Atomic Scientists puts the Israeli nuclear stockpile at 60-80 but notes that it is believed that Israel has produced nuclear material enough for 115-190 warheads.
5) In 1986, Mordechai Vanunu, a former technician at Dimona, revealed to the media some evidence of Israel's nuclear program. Israeli agents abducted him from Italy and transported him to Israel. An Israeli court then tried him in secret on charges of treason and espionage, and sentences him to 18 years imprisonment. At the time of Vanunu's arrest, *The Times* reported that Israel had material for approximately 20 hydrogen bombs and 200 fission bombs. If we take this information at face value, by now Israel should have material for considerably more nuclear bombs and that seems to corroborate the opinion of the sources from Notes [1], [2], [3] that Israel now may have up to 400 nuclear weapons.

6) Vanunu's information in October 1986 said that based on a reactor operating at 150 megawatts Israel produces 40 kg of plutonium per year. Israel possesses a 200 kg warhead, containing 6 kg of plutonium (Farr, Warner D. The Third Temple's Holy of Holies: Israel's Nuclear Weapons, USAF Counterproliferation Center, September 1999, Retrieved 2007-07-03). During 26 years after 1986 until 2012, Israel could have produced 26 x 40 = 1,040 kg of plutonium; divided by 6, it gives us 173 warheads; plus 220 warheads, which, according to Vanunu, Israel already had in 1986, we receive a possible number of Israel's warheads now at 393.

7) The substantial discrepancy over data about Israel (between the Bulletin of the Atomic Scientists and the Stockholm International Peace Research Institute on one side and the International Institute for Strategic Studies, Jane's Defense Weekly, and sources from the notes [1], [2], [3] on the other side) may be explained by the following:

7.1) "Israel's nuclear weapons are not believed to be fully operational under normal circumstances" (Bulletin of the Atomic Scientists, article "Nuclear Notebook: Worldwide deployment of nuclear weapons, 2009").

7.2) As Zbigniew Brzezinski stated on Book TV in 2009, Israel had acquired a second-strike capability.

7.3) The opinion of Brzezinski is supported by other less prominent sources stating that Israel's nuclear weapons can now be launched from land, sea and air (Douglas Frantz, Israel Adds Fuel to Nuclear Dispute, Officials confirm that the nation can now launch atomic weapons from land, sea and air, Los Angeles Times, Sunday, October 12, 2003). This gives Israel a second strike option even if much of the country is destroyed (David Eberhart, Samson Option: Israel's Plan to Prevent Mass Destruction Attacks, NewsMax.Com, October 16, 2001).

7.4) The second strike strategy may mean that at any given time some of Israel's nuclear weapons are in storage.

TABLE 2.13 – STATES POSSESSING, PURSUING OR CAPABLE OF ACQUIRING WEAPONS OF MASS DESTRUCTION, 2012

STATE	NUCLEAR ENERGY	URANIUM ENRICHMENT	PLUTONIUM PRODUCTION	NUCLEAR WEAPONS	CHEMICAL WEAPONS	BIOLOGICAL WEAPONS	MISSILE TECHNOLOGY
Algeria				Pursuing			
Argentina	Possessing		Possessing	Capable			Pursuing
Armenia	Possessing		Possessing				
Australia				Capable	Capable	Capable	Capable
Belarus				Capable			
Belgium	Possessing		Possessing				
Brazil	Possessing	Pursuing	Possessing	Capable			Possessing
Bulgaria	Possessing					Capable	
Burma					Pursuing		
Canada	Possessing		Possessing				
Chile					Capable		
China	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing
Cuba						Capable	
Czechia	Possessing		Possessing				
Ethiopia					Pursuing		
Egypt					Possessing	Possessing	Pursuing
Finland	Possessing		Possessing				
France	Possessing	Possessing	Possessing	Possessing	Possessing	Capable	Possessing
Germany	Possessing	Possessing	Possessing	Capable	Capable	Capable	Capable
Hungary	Possessing		Possessing				
India	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing
Indonesia					Pursuing		
Iran	Possessing	Possessing			Possessing	Possessing	Possessing
Israel			Possessing	Possessing	Possessing	Possessing	Possessing
Japan	Possessing	Possessing	Possessing	Capable	Capable	Capable	Possessing
Kazakhstan				Capable			
Laos					Pursuing	Pursuing	
Libya					Pursuing	Pursuing	Pursuing
Lithuania	Possessing		Possessing				
Mexico	Possessing		Possessing				
Netherlands	Possessing	Possessing	Possessing				
North Korea	Possessing		Possessing	Possessing	Possessing	Possessing	Possessing
Pakistan	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing
Romania	Possessing		Possessing				
Russia	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing
Saudi Arabia				Pursuing	Pursuing	Pursuing	Pursuing
Serbia				Pursuing	Capable		
Slovakia	Possessing		Possessing				
Slovenia	Possessing		Possessing				

TABLE 2.13 – STATES POSSESSING, PURSUING OR CAPABLE OF ACQUIRING WEAPONS OF MASS DESTRUCTION, 2012

STATE	NUCLEAR ENERGY	URANIUM ENRICHMENT	PLUTONIUM PRODUCTION	NUCLEAR WEAPONS	CHEMICAL WEAPONS	BIOLOGICAL WEAPONS	MISSILE TECHNOLOGY
South Africa	Possessing		Possessing	Capable	Capable	Capable	Capable
South Korea	Possessing		Possessing		Capable	Capable	Possessing
Spain	Possessing		Possessing				
Sudan					Pursuing		
Sweden	Possessing		Possessing				
Switzerland	Possessing		Possessing				
Syria					Pursuing	Pursuing	Pursuing
Taiwan	Possessing		Possessing		Possessing	Possessing	Possessing
Thailand					Pursuing		
Ukraine	Possessing		Possessing	Capable			
Vietnam					Pursuing	Pursuing	
United Kingdom	Possessing	Possessing	Possessing	Possessing	Capable	Capable	Possessing
United States	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing	Possessing

SOURCES: BULL, SIPRI, EST, E, CIA