

TABLE 2.9 - OPERATIONAL NUCLEAR DELIVERY SYSTEMS, 2008-2009

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		350 + 20
	MK-21 SERV	200	2006(1986)	Single	1 x 300		200 + 10
TOTAL 09(BULL) 08(SIPRI)		450					550 + 30
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	75	1979	MIRV	10 x 550-750	11,000-15,000	750
SS-19	Stiletto	100	1980	MIRV	6 x 550-750	10,000	600
SS-25	Sickle	201	1985	Single	1 x 550	10,500	201
SS-27	Topol-M (SILO)	48	1997	Single	1 x 550	10,500	48
SS-27	Topol-M (MOBILE)	6	2006	Single	1 x 550	10,500	6
SS-27	Topol-M (RS-24)	0	(2009)	MIRV	6 x 550	10,500	0
TOTAL 08(SIPRI) 08(BULL)		430					1,605
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

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CHINA							
ICBM							
CSS-4	DF-5A	20	1981	Single	1 x 4,000-5,000	13,000	20
CSS-X-10	DF-31	~6	2008			>7,200	~6
				Single	1 x 200-300		
				MIRV	3 x 50-100		
?	DF-31A	~6	2008			>11,200	~6
				Single	1 x 200-300		
				MIRV	3-5 x 20-150		
TOTAL 08(SIPRI) 08(BULL)		~32					~32
IRBM							
CSS-2	DF-3A	17	1971	Single	1 x 3,300	3,100	17
CSS-3	DF-4	17	1980	Single	1 x 3,300	5,500	17
CSS-5	DF-21, DF-21A	~55	1991	Single	1 x 200-300	2,100	~55
TOTAL 08(SIPRI) 08(BULL)		~89					~89
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 04(IISS), 08(SIPRI)		96					Some
INDIA							
IRBM							
Agni II		Some	2004	Single	1 x 15-250	2,000	Some
Agni III		0	(2008)	Single	1 x 15-250	3,000	0
TOTAL 08(BULL) 08(SIPRI)		Some					Some
SRBM							
Agni I		Some	2007	Single	1 x 1,000kg payload	700	Some
Prithvi I		<50	1998	Single	1 x 1,000kg payload	150	?
Prithvi II		Some	2004	Single	1 x 500kg payload	250	?
Prithvi III		30	2004	Single	1 x 10-20	350-600	?

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TOTAL 08(BULL) 08(SIPRI)		<80					25-30
PAKISTAN							
IRBM							
Ghauri-1	Haft 5	<50	2003	Single	1 x 700-1,000kg payload	1,500	?
Ghauri-2	Haft 5A	~100+	2003	Single	1 x 1,200kg payload	2,300	?
Shaheen-2	Haft 6	200+	2007	Single	1 x 1,000+kg payload	2,000-2,500	?
TOTAL 08(SIPRI)		Some					~30
SRBM							
Abdali	Haft 2	Some	2006	Single	1 x 250-450kg payload	180-200	?
Ghaznavi	Haft 3	<50	2004	Single	1 x 500kg payload	~400	?
Shaheen-1	Haft 4	<50	2008	Single	1 x 750-1,000kg payload	600-1,500	?
TOTAL 08(SIPRI)		Some					?
ISRAEL							
ICBM							
Jericho 3		Some	2008				Some
				Single	1 x 350kg payload	7,800	
				MIRV	2-3 x 350kg payload	4,800	
				Single	1 x 1,000-1,300kg payload	4,800	
TOTAL 08(WIKI), 08(SIPRI)		Some					Some
IRBM							
Jericho 2		50	1990	Single	1 x 750-1,000kg payload	1,500-1,800	~40
TOTAL 08(SIPRI)		50					~40
NORTH KOREA							

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IRBM							
No-Dong-1		Some	1997	Single	1 x 700-1,000kg payload	1,300	Some
TOTAL 08(SIPRI)		50-200					Some
SRBM							
Scud-B		Some	1979-1980	Single	1 x 1,000kg payload	300	?
Scud-C variant		Some	1989	Single	1 x 700kg payload	500	?
Scud-D		Some	2006	Single	1 x 500kg payload	700	?
TOTAL 08(SIPRI)		500-600					?
SLBM							
UNITED STATES							
UGM-133	Trident II D-5	288					
	MK-4		1992	MIRV	4-6 x 100	12,000	718+40
	MK-4A		2008	MIRV	4-6 x 100	?	50+10
	MK-5		1990	MIRV	4-6 x 455	12,000	384+20
TOTAL 09(BULL) 08(SIPRI)		288					1,152+70
UNITED KINGDOM							
UGM-135	Trident II D-5	48	1994	MIRV	1-3 x 100	12,000	185
TOTAL 08(SIPRI)		48					185
RUSSIA							
SS-N-18 M1	Stingray	5/80	1978	MIRV	3 x 200	6,500	240
SS-N-23	Skiff	4/64	1986	MIRV	4 x 100	9,000	256
SS-N-23 M1	Sineva	2/32	2007	MIRV	4 x 100	9,000	128
SS-NX-30	Bulava	0	(2008)	MIRV	6 x 100	8,000-10,000	0
TOTAL 08(SIPRI) 08(BULL)		11/176					624
FRANCE							
M-45		48	1997, 1999, 2005	MIRV	4-6 x 100	6,000	240
M-51		0	(2010)	MIRV	4-6 x 100	8,000-10,000	0
TOTAL 08(SIPRI) 08(BULL)		48					240
CHINA							

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CSS-NX-3		0	1986				0
	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-4	JL-2	0	(2009-2010)			>8,000	0
				Single	1 x 200-300		
				MIRV	3-4 x 90		
TOTAL 08(SIPRI) 08(BULL)		0					0
INDIA							
Sagarika	K-15	?	(2010)	Single	1 x 500-600kg payload	300-700	?
Dhanush		Some	2007	Single	1 x 1,000kg payload	350	Some
TOTAL 08(BULL) 08(SIPRI)		Some					Some
AIRCRAFT							
UNITED STATES							
STRATEGIC							
B-52H	Stratofortress	93+44	1961	ALCM	5-150	16,000	350+25
				ACM	5-150		
B-2	Spirit	20+16	1994	Bombs B61-7, B83-1	ACM 5-150	11,000	150+25
TOTAL 09(BULL) 08(SIPRI)		113+60					500+50
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
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 09(WIKI) 04(IISS) 08(SIPRI) 08(BULL)		Some					400
RUSSIA							
STRATEGIC							
Tu-95 MS6	Bear H6	32	1984	ALCM	6 x ?	6,500-10,500	192
				Bombs	? x ?		
Tu-95 MS16	Bear H16	32	1984	ALCM	16 x ?	6,500-10,500	512
				Bombs	? x ?		

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Tu-160	Blackjack	15	1987	ALCM	12 x ?	10,500-13,200	180
				SRAM	? x ?		
				Bombs	? x ?		
TOTAL 08(SIPRI) 08(BULL)		79					884
SUB-STRATEGIC							
Tu-22M-3	Backfire	174 07(SIPRI)	1974	ASM	2 x ?	4,800-7,000	Some
				Bombs	? x ?		
Su-24	Fencer	429 07(SIPRI)	1974	Bombs	2 x ?	2,100-3,000	Some
TOTAL 08(SIPRI) 08(BULL)		524					648
FRANCE							
STRATEGIC							
Mirage 2000N		60	1988	ASMP	1 x 300	2,750	50
TOTAL 08(SIPRI) 08(BULL)		60					50
SUB-STRATEGIC							
Super Etendard		24	1978	ASMP	1 x 300	650	10
TOTAL 08(SIPRI) 08(BULL)		24					10
CHINA							
STRATEGIC							
H-6	Tu-16	20	1965	Bomb	1 x 3,000kg payload	3,100	~20
TOTAL 08(SIPRI)		20					~20
SUB-STRATEGIC							
Q-5	Mig-19	Some	1972-?	Bomb	1 x 1,000kg payload	400	~20
TOTAL 08(SIPRI) 08(BULL)		Some					~20
ISRAEL							
SUB-STRATEGIC							
F-4E-2000	Kurnass	Some	1989	Bomb	1 x 8,480kg payload	2,200	Some
F-16A/B/C/D	Fighting Falcon	205	1980	Bomb	1 x 5,400kg payload	2,500	Some

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F-15I	Thunder	25	1997	Bomb	1 x 10,400kg payload	2,500	Some
TOTAL 08(SIPRI)		230 08(SIPRI)					~40
INDIA							
SUB-STRATEGIC							
Jaguar IS/IB	Shamsher	131 07(WIKI)	1979	Bomb	1 x 4,775kg 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	1,800	Some
TOTAL 08(BULL) 08(SIPRI)		336 07(WIKI)					25-30
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 6,300kg payload	1,200	Some
Q-5	MiG-19	Some	1980s	Bomb	1 x 1,000kg payload	1,200	Some
TOTAL 08(SIPRI)		>32					25-30
NORTH KOREA							
SUB-STRATEGIC							
H-5	Il-28	80	1950	Bomb	1 x 3,000kg payload	2,100	6-10
TOTAL 08(SIPRI)		80					6-10
SLCM							
UNITED STATES							
Tomahawk	TLAM-N	325	1984	Single	1 x 5-150	2,500	100
TOTAL 09(BULL) 08(SIPRI)		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		Some					276

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08(SIPRI) 08(BULL)							
ISRAEL							
Turbo-Popeye 3		Some	2000	Single	1 x 200kg payload	1,500	10
TOTAL 04(IISS)		Some					10
ALCM							
UNITED STATES							
AGM-868		1,140	1982/1991	Single	1 x 900-1,400kg payload	2,500	Some
AGM-129		460	1990	Single	1 x 5-200	3,500	Some
TOTAL 08(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 08(SIPRI) 08(BULL)		Some					Some
FRANCE							
ASMP		Some	1985	Single	1 x 300	250	Some
TOTAL 08(SIPRI) 08(BULL)		Some					Some
CHINA							
	DH-10	50-250	2007	Single	1 x ?	>2,000	~15
TOTAL 08(SIPRI) 08(BULL)		50-250					~15
PAKISTAN							
Babur	Haft-7	Some	2007	Single	1 x 500kg payload	700	Some
TOTAL 08(SIPRI)		Some					Some
MISSILE AND AIR DEFENSE SYSTEMS							

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RUSSIA							
STRATEGIC DEFENSIVE SYSTEMS							
51T6	SH-11 Gorgon	32	1989	Single	1 x 1,000	350	32
53T6	SH-08 Gazelle	68	1986	Single	1 x 10	80	68
SA-10	Grumble	633	1980	Single	1 x low yield	5-150	633
TOTAL 08(SIPRI)		733					733
UNITED STATES							
STRATEGIC DEFENSIVE SYSTEMS							
GBI missiles		25					0
Aegis BMD cruisers		3					0
Aegis BMD destroyers		7					0
TOTAL 08(SIPRI)		35					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: 09(BULL), 08(SIPRI), 08(BULL), 08(WIKI), 04(ISS)

TABLE 2.10 – OPERATIONAL NUCLEAR WARHEADS, 2008-2009, STRATEGIC,
09(BULL), 08(BULL), 08(SIPRI)

OBS	COUNTRY	ICBM	IRBM	SLBM	ALCM/BOMBS	TOTAL
1	U.S.	580		1,222	550	2,352
2	Russia	1,605		624	884	3,113
3	France			240	60	300
4	U.K.			185		185
5	China	32	89	0	~55	176
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

TABLE 2.11 – OPERATIONAL NUCLEAR WARHEADS, 2008-2009, SUB-STRATEGIC, 09(BULL), 08(BULL), 08(SIPRI)

OBS	COUNTRY	SRBM	SLCM	AIR DEFENSE	AIRCAFT	TOTAL
1	Russia	248	276	733	819	2,076
2	U.S.		100		400	500
3	Israel	~40	Some		~40	80
4	Pakistan	30+			30+	~60
5	India	25-30			25-30	50-60
6	N. Korea				6-10	6-10
7	China	?			?	?
8	France					0
9	U.K.					0

SLCM sea-launched cruise missile

SRBM short-range ballistic missile

TABLE 2.12 – OPERATIONAL NUCLEAR WARHEADS, 2008-2009, TOTAL STRATEGIC AND SUB-STRATEGIC

OBS	COUNTRY	STOCKPILE 09(BULL), 08(BULL), 08(SIPRI), 07(SIPRI)	DELIVERABLE 09(BULL), 08(BULL), 08(SIPRI), 07(SIPRI)	DELIVERABLE 08(IISS)
1	Russia	14,000	5,189	
2	U.S.	9,400	2,852	
3	France		300	
4	U.K.	~200	185	
5	China		176	
6	Israel		80	~200
7	India		60-70	
8	Pakistan		60	
9	N. Korea		6-10	

TABLE 2.13 – STATES POSSESSING, PURSUING OR CAPABLE OF ACQUIRING WEAPONS OF MASS DESTRUCTION, 2008

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	Pursuing	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				

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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	Capable
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: 08 (SIPRI), 08 (EST), 00 (BULL), 04 (E), 08 (CIA)

