

Appendix A: Chinese Nuclear Forces, 2006

China Designation	U.S./NATO designation	Year deployed	Range (kilometers)	Warhead x yield	Missiles deployed	Warheads deployed
<i>Land-based missiles*</i>						
DF-3A	CSS-2	1971	3,100 ^a	1 x 3.3 Mt	16	16
DF-4	CSS-3	1980 ^b	5,500	1 x 3.3 Mt	22	22
DF-5A	CSS-4 Mod 2	1981	13,000	1 x 4-5 Mt ^c	20	20
DF-21A	CSS-5 Mod 1/2	1991	2,150	1 x 200-300 kt	35	35
DF-31	(CSS-X-10)	2006 ?	7,250+	1 x ?	n.a.	n.a.
DF-31A	n.a.	2007-2009 ?	11,270+	1 x ?	n.a.	n.a.
Subtotal					93	93
<i>Submarine-launched ballistic missiles (SLBMs)**</i>						
JL-1	CSS-NX-3	1986	1,770+	1 x 200-300 kt	12	12
JL-2	CSS-NX-4	2008-2010 ?	8,000+ ^d	1 x ?	n.a.	n.a.
Subtotal					12	12
Total strategic ballistic missiles					105	105
<i>Aircraft***</i>						
Hong-6	B-6	1965	3,100	1-3 x bomb	100	20
Attack	(Q-5, others?)			1 x bomb		20
Subtotal						40
<i>Short-range tactical weapons</i>						
DF-15 ^e	CSS-6	1990	600	1 x low	~300	?
DH-10 ^f	(LACM) ^g	2006-2007 ?	~1,500?	1 x low ?	n.a.	n.a.
TOTAL						~145^e

* DF stands for Dong Feng, which means “east wave.” JL stands for Julang. The single SSBN equipped with the JL-1 has never sailed on a deterrent patrol *** Figures for aircraft are for nuclear-configured versions only. Hundreds of aircraft are deployed in non-nuclear versions. Aircraft range is equivalent to combat radius. Assumes 20 bombs for the force, with yields estimated between 10 kilotons and three megatons.

^a U.S. Air Force, National Air Intelligence Center, “China Incrementally Downsizing CSS-2 IRBM Force,” *Foreign Missile Update*, NAIC-1030-098B-96, November 1996, p. 12. Reproduced in Bill Gertz, *The China Threat: How the People’s Republic Targets America* (Washington, D.C.: Regnery, 2000), pp. 233-234.

The unclassified range is 2,800 km. See: U.S. Department of Defense, Office of the Secretary of Defense, *The Military Power of the People’s Republic of China*, 2005, July 20, 2005, p. 45; U.S. Department of the Air Force, National Air Intelligence Center, *Ballistic and Cruise Missile Threat*, NAIC-1031-0995-03, August 2003, p. 10. The longer classified range makes the DF-3A a “long-range” missile rather than a “medium-range” missile as is normally reported.

^b The DF-4 may have become operational already in 1975. U.S. Central Intelligence Agency, *PRC Defense Policy and Armed Forces*, National Intelligence Estimate 13-76, November 11, 1976, p. 47.

^c The U.S. intelligence community says that China might decide to deploy multiple warheads (up to three) on each DF-5A in an effort to overcome the U.S. missile defense system.

^d The DIA stated in February 2006 that the range of the JL-2 is “8,000+ kilometer”. Lieutenant General Michael D. Maples, U.S. Army, Director, Defense Intelligence Agency, *Current and Projected National Security Threats to the United States*, statement for the record before the Senate Armed Services Committee, February 28, 2006, p. 11.

^e Mainly used as a conventional missile. May have nuclear capability.

^f The DOD says that one of China’s forthcoming land-attack cruise missiles may be nuclear.

^g Additional warheads are believed to be in storage for a total stockpile of approximately 200 nuclear warheads. Extra fissile material is also in storage.