

政策研究

2003-6

WMD

: 高 在 南

外 交 安 保 研 究 院

·  
『  
』  
『 WMD 』 2003  
·  
가  
·  
·

2004 2

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【           】

2002 10 (James Kelly) 美  
(HEU) 北核 , 가 .  
前身 , .  
, 同情  
, 輕視 가 , WMD(  
) WMD  
WMD . . ( ) ,  
, , , , , WMD 面 .  
가 , WMD  
WMD .  
WMD  
. 1991 WMD WMD (nonproliferation) ‘  
, ‘ (sanction) , 가 ‘對  
(counter-proliferation) . WMD  
‘ (means) ‘ (system) WMD  
WMD . .  
WMD

가 WMD 가

가 2000 1 「 가 」 , 「 가 」

」 「 」 同年 4 , 6 . 同 가

WMD 가 , WMD ,

NPT IAEA ,

5 Wassenaar , NSG(

), Zangger Committee, MTCR 4 가 .

가 , , 61,000km

WMD

WMD

WMD

Reduction) 「 」(SORT), 「 (Cooperative Threat

가 , ,

가 , IAEA

NPT , CWC,

BWC

가 , 가

가 WMD , 가

3

2003 1

'(package deal)'

가

1 6 (2003. 8)

(MD)

가 反MD

NMD·TMD

가

TMD

WMD

WMD

가

動因

10

9·11

WMD

가

WMD

2003

11

PSI(Proliferation Security Initiative)

가 6  
2  
核  
가  
核  
WMD  
WMD  
가

I.

脫 脫  
가  
1 2~3  
20 21  
가  
'(theory of clash of civilization)  
가  
'(theory of end of history), '(democratic  
peace theory)  
가  
가  
가  
'(engagement)  
'(enlargement)  
가  
가  
'(Weapons of Mass Destruction, WMD)  
가  
'(nonproliferation)  
(disarmament) 1990 '(NPT)  
'(CTBT), '(CWC),  
(Wassenaar) START I, II SORT

WMD  
 WMD 21  
 WMD  
 가  
 , , , 1990  
 , , 가  
 , 2001 9 11  
 , WMD 가  
 가 WMD  
 . 終戰 1  
 , 2003 3  
 WMD  
 1994 10 ‘ ’(Agreed  
 Framework)  
 ‘6 ’  
 가 가 WMD  
 , 2  
 WMD 面  
 ,  
 WMD 가  
 WMD  
 , 가 WMD  
 , 가 WMD

WMD . . .  
 WMD 가  
 WMD 가  
 2002 10 (HEU) 가  
 (James Kelly) ,  
 NPT 4  
 1 2  
 가 .  
 2003 1 ,  
 式 ‘ ’(package deal)  
 가 가  
 가 가 가  
 北核 가 ,  
 가 ,  
 가 가  
 가 가  
 WMD ,  
 ,

가 , WMD

,

· WMD

.

2 WMD

WMD

, · ,

; 3 WMD

WMD

,

; 4

WMD

; 5

· WMD

; 6

.

· WMD

### 1. WMD

‘ , ‘ , WMD 20

.

·

, 가

가가

20

兩次

WMD

1

가

2

가

,

가

(長崎) (廣島) 2 가

가 WMD

< 1 > , 15 1)

가			
	W	W	W
	W	W	W
	W	W	W
	W		W
	W		
	W	R	W
	W	R	R
	R	W	W
	R	W	W
	R	W	W
		W	W
		R	W
			W
		R	R

(W= ; R= )

WMD 가 가? WMD

WMD

1) Joseph Cirincione with Jon B. Wolfsthal and Mirian Rajkumar, *Deadly Arsenal: Tracking Weapons of Mass Destruction* (Washington, D.C.: Carnegie Endowment for International Peace, 2002), p. 17.

< 2 >

2)

가	1,000km	24
	1,000~3,000km	7
	3,000~5,500km	1
	5,500km	5

## 2. WMD

가.

(strategic nuclear weapons),

(tactical nuclear weapons),

(nuclear materials),

(nuclear expertise)

.3)

NPT, START I, ABM

INF(Intermediate-range Nuclear Forces)

가 가 ,

2) *Ibid.*, p. 14.

3) . *Ibid.*, pp. 107-126.

가  
, < 3>

< 3>

4)

	START I ('90. 9.)	START I ('02. 1.)
ICBMs	1,064	742
	4,278	3,364
SLMBs	940	376
	2,804	1,868
Bombers	79	80
	570	626
	2,083	1,198
	7,652	5,858

ICBMs . SLBMs  
SLBMs

重

가 ,  
2002 5 「  
」(Strategic Offensive Reduction Treaty, SORT)

2012 1,700~2,200 가  
, 2010 1,000

, 가 , ,  
가  
30,000

4) *Ibid.*, p. 108.

非 1992  
 , 1990  
 가  
 3,500~8,000

< 4>

5)

	(1991 )	1991	(2000 )	(2000 )
	4,000	0	0	0
	2,000	0	0	0
	700	0	0	0
	3,000	1,500	1,500	600
	7,000	3,500	3,500	1,000
	5,000	3,000	3,400	2,000
	21,700	8,000	8,400	3,400

核 (HEU, ) , 1 가 HEU  
 , 核  
 가  
 가  
 가 150 metric-ton( 1,000kg) 1,500 metric-ton HEU  
 750 metric-ton  
 가 53 ,

5) *Ibid.*, p. 115.

가  
 가  
 수  
 120,000 가  
 好條件  
 核 가 核 가  
 가  
 非  
 WMD  
 가 40,000  
 metric-ton , 81%가 (sarin),  
 (soman), VX viral agents 가 19% lewisite,  
 mustard, lewisite mustard (blistering)  
 가

< 5>

6)

		(%)	
Shchuche	가	13.6	
Pochep	가	18.8	
Leoniddovka	가	17.2	
Gorny	/mustard,	2.9	
Maradykovsky	가	17.4	
Kizner	/lewisite	14.2	
Kambarka	/lewisite	15.9	

가 . 가 1972 「 (Biological anthrax smallpox Weapons Convention, BWC) 가 , 50 ,

가 가

가 (agents) ,

WMD

6) *Ibid.*, p. 123.

가 , .  
가 , 가  
가 , CIA 2001 對  
“ , , , , ”  
對 가

## WMD

### 1. WMD

(arms control) WMD

가

WMD가

WMD

CWC, MTCR WMD  
, START II, ABM

核

.7)

WMD

, WMD  
가?

( )

WMD

가 ( ) ( )

. “ ”(nuclear nonproliferation) “ ”

가 (nuclear

disarmament)

가

가

가

가

WMD

WMD

가

WMD

1991

‘ ’ ‘ ’(sanction)

7) Phillip C. Saunders, “New Approaches to Nonproliferation: Supplementing or Supplanting the Regime?” *The Nonproliferation Review* (Fall-Winter 2001), pp. 124-25; and Randall Forsberg, William Driscoll, Gregory Webb, and Jonathan Dean, *Nonproliferation Primer: Preventing the Spread of Nuclear, Chemical, and Biological Weapons* (Cambridge: The MIT Press, 1995), chap. 1.

가 ‘對’ (counter-proliferation)  
 .8)  
 WMD ‘ ’(means) ‘ ’(system)  
 . WMD  
 (export control), WMD , WMD  
 .9)  
 (Phillip C. Saunders) “WMD ”  
 가 5  
 .10) 5가 , WMD  
 , WMD  
 , WMD  
 對  
 5가 WMD  
 가 .

2. **WMD**

가 ,  
 .  
 1993 2 11  
 1997 12 「 가 」  
 , 1990  
 .

8) , 『 . 』 (2002. 2.), p. 4.  
 9) Randall Forsberg, William Driscoll, Gregory Webb, and Jonatha Dean, *op. cit.*, pp. 74-83.  
 10) Pillip C. Saunders, *op. cit.*, pp. 123-136.

. , 2000 1 「 가 」 ,  
 「 」 「 」 4 , 6  
 .  
 上記 가 WMD 가  
 가 , WMD  
 1990  
 ,  
 下記 , EU  
 WMD  
 . 가 1993 11 「 」 NPT, CWC,  
 BWC  
 WMD . . . , ,  
 .11)  
 1996 6 「 」 1997 12 「 가  
 」 WMD  
 .12)  
 1998 5 G8 . WMD  
 9 .  
 .  
 節 .  
 WMD . 2003 6  
 G8 “  
 WMD  
 . WMD 가 ”13)

11) “The Basic Provisions of the Military Doctrine of the Russian Federation,”

<http://russia.shaps.hawaii.edu/security/russia/russia-mil-doc.html>

12) 「 」 「中蘇研究」, 70 (1996 ), pp. 336-351; “National Security Concept of the Russian Federation” (President's Decree No. 1300 ;December 17, 1997), *RIA-Novosti, Daily Review* (January 9, 1998), Issue 002.

13) “Non-Proliferation of Weapons of Mass Destruction--A G8 Declaration,” Evian, June 1-3, 2003, p.

3 BBC  
 “WMD 21 ” 14)  
 WMD  
 WMD . 2000 「 가 」  
 “ 가 WMD ” “  
 가 WMD ”  
 .15) 「 가 」 1997 가 가  
 WMD  
 , WMD 가 가  
 “WMD  
 ”, “WMD가 ”, “WMD  
 ”  
 , 가  
 「 」 「 가 」  
 WMD  
 .16) 「 」  
 ‘ 」(Global Control System, GCS)  
 , CTBT 가가

1. (Vladimir Orlov “Patient in Coma?: Prospects of non-proliferation following the Iraqi War,” *Russia in Global Affairs*, Vol. 1-No. 3 (July-September 2003), p. 104 )  
 14) *Ibid.*  
 15) “Concept of the National Security of the Russian Federation” *Nezavisimoye Voennoye Obozreniye* (14 January 2000).  
 16) “The Foreign Policy Concept of the Russian Federation” approved by the President Putin on June 28, 2000 from <http://www.mid.ru/mid/eng/econcept.htm>; “Russia's Military Doctrine” (2000. 4. 21 ) from <http://www.armscontrol.org/ACR/may00/dc3ma00.hym>; , “ 新 「 가 」 「主要國際問題分析」( , 2000. 9. 22).

### 3. WMD

#### 가. WMD

WMD ( ) NPT, CTBT, CWC, BWC  
(International Atomic Agency, IAEA)  
가 .17)

#### NPT

NPT 2002 2 187 , .  
 . . 2003 1 NPT ,  
4 . NPT 1960 2 , 1964 10  
가 , .  
NPT 1968 6 UN  
1970 3 .  
NPT , ( ), ,  
, 가 ,  
未 IAEA ‘ (Safeguards Agreement)  
 .  
, NPT  
가 IAEA 가 ,  
가 IAEA 가  
(special  
inspection) , 1993 2  
 . NPT 25 1995  
, NPT가 .

17) . Center for Nonproliferation Studies, Monterey Institute  
of International Studies, *Inventory of International Nonproliferation Organizations and Regimes*,  
2000 edition (August 2000); , 前掲書.

6 NPT 가 가 , 2000 4~5 UN  
 가 NPT ,  
 NPT  
 . 5  
 , 가가  
 , 가 , ,  
 , CTBT  
 , . . . ,  
 NPT ,18)  
 NPT NPT  
 , NPT , 2000 4~5 NPT  
 가 가 .

**IAEA**

가 IAEA . IAEA ,  
 . IAEA  
 1953 12 UN “Atoms for Peace”  
 . IAEA 1956 10 , 1957 7 . 2002 2  
 IAEA 133  
 NPT 非 NPT

---

18) , , p. 24.

1970 , NPT  
 18  
 NPT  
 IAEA (Voluntary-offer  
 safeguards agreement)  
 IAEA  
 NPT 가  
 1974 6 NPT 가

**CWC**

(Chemical Weapons Convention, CWC) 1992 2  
 1997 4 , 2002 2 UN  
 5 144 가 1997 4  
 , 2002 2 , 未가  
 .19) 1997 4 , , , 2007  
 , 2012

1960  
 (Agent Orange) 1980  
 , 1988  
 3 가 가 5,000  
 가 1985 黨  
 CWC 가

CWC  
 1990

---

19) .

, 1991 가  
 CWC  
 . CWC . . . ,  
 가  
 , 1987  
 40,000 , 7  
 1980  
 1990 ,  
 1993  
 CWC  
 , 2001 2 9  
 .  
 .20)  
 CWC  
 , 2002  
 2, 3  
 , ‘ 1’  
 . 1996 가 “ 中  
 ”  
 ,  
 2007  
 7  
 CWC 4 가

20)

. CSIS, *Protecting Against the Spread of Nuclear, Biological, and Chemical Weapons: An Action Agenda for Global Partnership, Vol 4: Russian perspectives and Priorities* (January 2003), chap. 4. “Destruction of Russia's Chemical Weapons,” pp. 77-90 ; *idem*, *Vol 2: The Challenges*, chap 3: “Russian Chemical Weapons Demilitarization: Successes and Challenges”, pp. 53-69; and Jonathan B. Tucker, “Russia's New Plan for Chemical Weapons Destruction,” *Arms Control Today* (July/August 2001).

가 ( : 1999 )

CWC

2000 , 2001 ' 가 '가 . 2001 가 6 가 , 2002 2001 1 가 가

< 6> 21)

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
5	195	585	975	2,125	5,805	12,365	20,365	28,365	36,365	40,000

2001 1996 ' 1, 2' 2011 < 6> 7 3 3 非

BWC

1925 「 . 가 가 1972 4 BWC . BWC . 가

21) "Destruction of Russia's Chemical Weapons," p. 82.

. . . , 9  
 , ,  
 . BWC 1975 3 , 2002 2 144  
 가 . 1975 3 가 , 1987  
 6 1987 3 가 .<sup>22)</sup>  
 가  
 가  
 가  
 BWC , , 1990 3  
 가 . 가  
 ,  
 5 1990 , EU  
 BWC . CWC  
 BWC 가 BWC  
 . (export control) 23)  
 가

22) , , p. 39.

23) Phillip C. Saunders, *op. cit.*, p. 127.

가  
 ‘ (CoCom)  
 ‘ (Nuclear Suppliers Group, NSG),  
 ‘ (the Australia Group, AG), ‘ (Missile  
 Technology Control Regime, MTCR)  
 WMD .24)  
 ,  
 가  
 ,  
 가  
 WMD  
 WMD WMD  
 , 1992 NSG  
 MTCR  
 1987 32 가  
 ,  
 . 1985 AG  
 CWC  
 CoCom 1994  
 ,  
 Wassenaar 1996

---

24) , pp.83-102.

가 가

.25) 5

Wassenaar , NSG, Zangger Committee, MTCR 4 가 .

가 (GOSPLAN) , . 1950

3 WMD 가

1980 WMD 가

IAEA , NSG Zangger 가

MTCR

MTCR 가 .

Leipzig Group

---

25) . Michael Beck, Gary Bertsch, Khripurov, "The Development of Nonproliferation Export Control in Russia," *World Affairs* (Summer 1994), Vol. 157, Issue 1; Vladimir A. Orlov, "Export Controls and Nuclear Smuggling in Russia," from <http://www.pircenter.org/board/article.php3?artid=181>; *Vol. 4: Russian Perspectives and Politics*, chap. 5 Export Controls.

가 . 1990

가 . 1991 4

428 ‘ 가 ’가 .

.26)

1992 가

. 1992 4 388 “ ”

가 . 1990

;

;

가 . 1996

가 .

2000 MEDT , 1990

MEDT

6 , ;

;

;

;

1990 , WMD

61,000km ,

26) Michael Beck, Gary Bertsch, Igor Khripunov, *op. cit.*.

WMD

WMD

27)

UN,

UN

1

UN

가

WMD

WMD

가

WMD

WMD

WMD

WMD

가

WMD

가

WMD

27) Phillip C. Saunders, *op. ct.*, pp. 128-130.

UN (UNSCOM) , 1991 ' WMD 'UN

2003 對

9-11 對 WMD 가 WMD

對 가 對 WMD

가 下記 WMD

가 WMD

WMD

WMD

, WMD ,  
 .  
 가 .  
 , WMD가 . .  
 .  
 , WMD ,  
 WMD 가  
 WMD 가 .  
 가 EU, NATO  
 WMD .  
 28)  
 1991 7 START I  
 2001 .  
 START I . 1,600 6,000  
 ,  
 START I ,  
 , 1993 1  
 START . START , 3,500  
 , ICBMs , SLBMs 1,750  
 2003 1 . 1996 1 START  
 가 START 가 , ICBMs  
 가 가 2000 ,

---

28) . *Nuclear Status Report*, chap. 2: "U.S.-Russian Strategic Nuclear Negotiations and Agreements"

가 . 가 1990 가

NATO . 1972 ABM 가

(National Missile Defense, NMD)

. . 1997 3

, 2,000~2,500 START

START 가 .

START 2007 12 . 1997

9 26 .

NMD

가 2000 4 START ABM

. START

, 2002

1,700~2,200 , 2012

「 」(Strategic Offensive Reduction

Treaty, SORT) . SORT가 ,

2012 1,700

. 1 가 2 ‘

. .

WMD

가 WMD

. , 가

WMD , WMD ,

HEU , WMD

29)

WMD

WMD

1990 가 , WMD

WMD , ,

WMD 11

EU, EBRD . 1992~2001

가 50

START I

WMD 1991 가

對蘇

Sam Nun Richard Lugar WMD

'Nun-Lugar Program' , 1991 12

Nun-Lugar 4

WMD

30) Nun-Lugar

'(Cooperative Threat Reduction, CTR)

WMD

29) "Eliminating the Legacy of the Cold War: Background" in *Russian Perspectives and Priorities*, chap.

30) *Nuclear Status Report*, chap. 3, "U.S. Nonproliferation Assistance Programs"

, ‘ , ‘ , ‘  
 ,  
 1997 5 ‘ 76FZ’ “ ”  
 2001 7 ‘ 510 ’, “ ” 가  
 1995  
 11 ‘ 170-FZ’, “ ” 1963 5  
 “Vienna Convention on Civil Liability for Nuclear Damage”  
 .  
 WMD MINATOM, , ,  
 가 , ,  
 WMD  
 , 26 , 10  
 , 4 WMD , 1  
 . < 7>

< 7> 가 CTR (2002 )<sup>31)</sup>

가		가	
	1	EBRD	1
EU	1 , 1		1
	6 (5 )		2 , 1
	2		1
	1		1
	2		3 , 5 , 12

31) “Eliminating the Legacy of the Cold War: Background”, p. 9.

**WMD**

1. **WMD** 32)

가. 33)

2 가 1994  
 1~2 12kg  
 가 5MW 8,000 가  
 , 5~6 가  
 25~30kg

1  
 WMD  
 1994 10  
 IAEA  
 200kg , 50  
 가

32) WMD . Joseph Cirincione, *op. cit.*, chap. 14; <http://www.fas.org/guide/dprk/>; <http://www.nti.org/db/profiles/dprk/>.

33) 『 , ( : , 1995); Larry A Nksch, "North Korea's Nuclear Weapons Prog *CRS Issue Brief for Congress* (June 9, 2003); Alexandre Y. Mansourov, "The Origins, Ev and Current Politics of the North Korean Nuclear Programs," *The Nonproliferation* (Spring-Summer 1995), pp. 25-38; S. A , " 가 가 " , 4 (2003. 11

27) 「 」 ,

Name/Location of Facility	Type/Status	IAEA Safeguards
<b>POWER REACTORS</b>		
Sinpo (Kumho)	2 light-water, 1,000-MWe; under construction	Yes
Yongbyon	Gas-graphite, nat. U, 5-MWe; operation frozen	IAEA verifying freeze in operations
Yongbyon	Gas-graphite, nat. U, 50-MWe; construction halted	IAEA verifying construction freeze
Taechon	Gas-graphite, nat. U, 200-MWe; construction halted	IAEA verifying construction freeze
<b>RESEARCH REACTORS</b>		
IRT, Yongbyon	Pool-type, HEU, 4-MWt; operating	Yes
Yongbyon	Critical assembly	Yes
Pyongyang	Subcritical assembly	Yes
<b>REPROCESSING (PLUTONIUM EXTRACTION)</b>		
Yongbyon	Partially completed; operations frozen	Yes
Pyongyang	Soviet-supplied laboratory-scale "hot cells"	No
<b>URANIUM PROCESSING</b>		
Pyongsan	Uranium mining; status unknown	N/A
Pakchon (Sanchon-Wolbingsan mine)	Uranium mining; status unknown	N/A
Pyongsan	Uranium milling; status unknown	N/A
Pakchon	Uranium milling; status unknown	N/A
Yongbyon	Uranium purification (UO <sub>2</sub> ) facility; Yes operating	
Yongbyon	Fuel-fabrication facility; operations frozen	Yes
Yongbyon	Pilot-scale fuel-fabrication facility; dismantled, according to North Korean officials	No

**Abbreviations**

HEU: highly enriched uranium

MWe: millions of watts of electrical output

N/A: not applicable

MWt: millions of watts of thermal output

nat. U: natural uranium

34) Joseph Cirincione, *op. cit.*, p. 201.

1994 10

2003 2 50

2 HEU 2002 10

(James Kelly)

, 1995 HEU

가 2

35)

1970 製 -B

-B - B (

320~340km 1,000kg); - C ( 500km 700

kg); ( 1,000km 700~1,000 ) ,

1998 8 31 “ 1 ”

3 가

ICBM 1

2 -B

35) “North Korea's Chemical Profile” and “North Korea's Biological Profile”  
 from <http://www.nti.org/db/profiles/dprk/>; <http://www.fas.org/nuke/guide/dprk/>.

< 9>

36)

North Korean Name Alternative Name	Range(km)	Payload(kg)	Inventory Estimate (Launcher/Missiles)	Status
<u>Hwasŏng-5</u> (火星-5) Scud-B	300	987~989	27 TELs (total) over 500 “Scuds” of all types	deployed exported
<u>Hwasŏng-6</u> (火星-6) Scud-C	500	770	27 TELs (total) over 500 “Scuds” of all types	deployed exported
unknown <u>Scud-D</u>	700	500	27 TELs (total) over 500 “Scuds” of all types	deployed exported
unknown <u>Nodong</u>	1,000	700	At least 10 TELs About 100	deployed exported
unknown <u>Nodong-2</u>	unknown	unknown	unknown	unknown
<u>Paektusan-1</u> (白頭山-1) Tawpodong-1	2,200	700	unknown	testing deployed? exported?
unknown <u>Tawpodong-2</u>	unknown	unknown	unknown	R&D prototype testing
unknown <u>Tawpodong-3</u>	unknown	unknown	unknown	R&D?

“ 2 ”

가 ,

36) [http://www.nti.org/db/profiles/dprk/msl/cap/NKM\\_CcGo.html](http://www.nti.org/db/profiles/dprk/msl/cap/NKM_CcGo.html).

37)

< 10>

38)

CW Agent	Type	Quantity	Status
<u>Phosgene</u>	Choking gas	Unknown	Unknown
<u>Diphosgene</u>	Choking gas	Unknown	Unknown
<u>Mustard</u>	Blister	1,000s of tons?	Storage/deployed
<u>Lewisite</u>	Blister	Unknown	Unknown
<u>Phosgene oxime</u>	Blister	Unknown	Unknown
<u>Sarin (GB)</u>	Nerve agent	1,000s of tons?	Storage/deployed
<u>Tabun (GA)</u>	Nerve agent	Unknown	Unknown
<u>Soman (GD)</u>	Nerve agent	Unknown	Unknown
<u>VX</u>	Nerve agent	Unknown	Unknown
<u>VG</u>	Nerve agent	Unknown	Unknown
<u>VM</u>	Nerve agent	Unknown	Unknown
<u>VE</u>	Nerve agent	Unknown	Unknown
<u>Cyanogen chloride</u>	Blood agent	Unknown	Unknown
<u>Hydrogen cyanide</u>	Blood agent	Unknown	Unknown
<u>BZ</u>	Psychoincapacitant	Unknown	Unknown
<u>Adamsite (DM)</u>	Vomiting agent	Unknown	Unknown
<u>Diphenylchloroarsine (DA)</u>	Vomiting agent	Unknown	Unknown
<u>CN</u>	Riot control agent	Unknown	Unknown
<u>CS</u>	Riot control agent	Unknown	Unknown

37) “North Korea's Chemical Profile” and “North Korea's Biological Profile”  
 from <http://www.nti.org/db/profiles/dprk/>; <http://www.fas.org/nuke/guide/dprk/>.  
 38) [http://www.nti.org/db/profiles/dprk/chem/cap/cap\\_list.html](http://www.nti.org/db/profiles/dprk/chem/cap/cap_list.html).

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170 가  
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BW Agent	Type	Assessment	Status
<u>Anthrax (Bacillus anthracis)</u>	Bacterial spores	Probable	possibly weaponized, with delivery system
<u>Smallpox (Variola major)</u>	Virus	Possible	Unknown
<u>Plague (Yersinia pestis)</u>	Bacterium	Unknown	Unknown
<u>Cholera (Vibrio cholerae)</u>	Bacterium	Unknown	Unknown
<u>Typhus (Rickettsia prowazekii)</u>	Bacterium	Unknown	Unknown
<u>Botulism (Botulinum toxin)</u>	Toxin	Unknown	Unknown
<u>Typhoid (Salmonella typhi)</u>	Bacterium	Unknown	Unknown
<u>Hemorrhagic fevers</u>	Virus	Unknown	Unknown
<u>Yellow fever</u>	Virus	Unlikely	NA
TB (Mycobacterium tuberculosis)	Bacterium	Unlikely	NA

1960

39) [http://www.nti.org/db/profiles/dprk/bio.cap\\_list.html](http://www.nti.org/db/profiles/dprk/bio.cap_list.html)

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40) 「主要國際問題分析」, “ 北核 ” 「主要國際問題分析」 ( (2003 ), pp. 153-173.

“ 北核 ” ; 2003. 5. 13). ” 『 』 19 2

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41) “ ” 9 . (1999, 10. 29).

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PSI(Proliferation Security Initiative)

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CWC, BWC

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