

7. JORDAN

Contents

Major Changes	1
General Data	1
Arms Trade.....	3
Strategic Assets	5
Armed Forces.....	6
Ground Forces.....	7
Air Force	11
Air Defense Forces	13
Navy.....	15

Major Changes

- The Royal Jordanian air force is absorbing 20 F-16C/D from Belgium and Holland. Meanwhile the RJAF upgraded its older F-16A/B to the C/D standard, with aid from the Turkish industry.
 - Jordan signed a contract to build a 5MW nuclear research reactor with a consortium of companies from South Korea.
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General Data

Official Name of the State: The Hashemite Kingdom of Jordan

Head of State: King Abdullah II bin Hussein al-Hashimi

Prime Minister: Samir al-Rifai

Minister of Defense: Samir al-Rifai

Inspector General of the Armed Forces: Major General Abd Khalaf al-Najada

Chief of the Joint Staff of the Armed Forces: Lieutenant General Mashaal Mohammed al-Zaben

Commander of the Air Force: Major General Malik al-Habashneh

Commander of the Navy: Major General Dari al-Zaben

Area: 90,700 sq. km.

Population: 6,300,000

Jordan

Demography

Ethnic groups		
• Arabs	6,174,000	98.0%
• Circassians and Armenians	126,000	2.0%
Religious groups		
• Sunni Muslims	5,922,000	96.0%
• Greek Orthodox and other Christians	252,000	4.0%

Economic Data

		2005	2006	2007	2008	2009
• GDP (current prices)	\$ bn	12.63	14.84	16.53	20.1	20.7
• GDP per capita	\$	2,255	2,559	2,802	3,295	3,286
• Real GDP growth	%	8.1	8.0	6.6	5.6	3.1
• Consumer price index	%	4.2	7.5	5.7	9.4	5.9
• External debt	\$ bn	7.7	8.0	8.4	6.8	6.8
Balance of payments						
• Exports fob	\$ bn	4.3	5.2	5.7	7.9	6.6
• Imports fob	\$ bn	-9.3	-10.2	-12.2	-15.1	-12.1
• Current account balance	\$ bn	-2.2	-1.6	-2.9	-2.4	-1.3
Government expenditure						
• Government expenditure	% GDP	39.5	37.0	39.1	38.2	38.2
• Defense expenditure	\$ bn	0.6	0.7	1.03	1.25	1.38
• Real change in defense expenditure	%	2.9	16.6	47.2	21.4	10.4
• Defense expenditure/GDP	%	4.75	4.7	6.2	6.2	6.7
Population	m	5.6	5.8	5.9	6.1	6.3
Official exchange rate	JD: \$1	0.709	0.709	0.709	0.709	0.709

Sources: EIU Quarterly Report, EIU Country Profile, IMF International Financial Statistical Yearbook, SIPRI Yearbook

Foreign Military Cooperation

Type	Details
• Cooperation in military training	Turkey (use of facilities and airspace for training of pilots) , UK
• Foreign forces	US (1,000 troops as of 2006) , UK
• Forces deployed abroad	Afghanistan (ISAF), Congo (MONUCO), Darfur (UNAMID), Georgia (UNOMIG), Haiti (MINUSTAH), Liberia (UNMIL), Sudan (UNMIS), Western Sahara (MINURSO)
• Joint maneuvers	Belgium (2009), Egypt (2009), France, GCC (2005), Israel (2009), Kuwait (2009), Oman, Qatar, Turkey , UAE, UK , US (2009)
• Security agreements	NATO (2007), Saudi Arabia (2001), Turkey,

Jordan

Arms Trade

Arms Procurement and Security Assistance Received

Country	Type	Details
Belgium	• Arms transfers	F-16 aircraft (2009)
France	• Arms transfers	EC-635 helicopters (2007)
Italy	• Cooperation in Arms Production	Falco UAV (2009), Border security system (2009)
Netherlands	• Arms transfers	F-16 aircraft (2009)
PRC	• Arms transfers	120mm mortars (2008)
	• Military training	Training of nuclear technicians (2008)
Russia	• Arms transfers	IL-76 transport aircraft (2007), AT-14 ATGMs (2008), SA-18 Igal SAMs (2008)
	• Cooperation in Arms Production	KA-226 helicopters (2007) , RPG-32 ATRLs (2010)
South Africa	• Cooperation in Arms Production	Ratel-20 IFVs (2008) , Marauder LAVs (2007 – possibly canceled), RG-12 APCs (2008)
South Korea	• Facilities	Construction of 5MW nuclear research reactor (2010)
	• Military training	Training of nuclear technicians (2010)
Turkey	• Cooperation in Arms Production	AAPCs (2007), upgrading of F-16 aircraft (2009)
UK	• Cooperation in Arms Production	al-Jawad APCs (2008), al-Thalab RVs (2008), Hunter APCs (2010), J8 RVs (2010)
US	• Arms transfers	F-16 combat aircraft(2006), IFCS for MBT upgrade (2006), S-70 Blackhawk helicopters (2008), AIM-120 AMRAAMs (2009), Javelin ATGMs (2009), HIMARS MRLs (2010), RC-208 aircraft (2010), AH-6 helicopters (2010)
	• Assistance	\$300 million military aid (2009)
	• Cooperation in arms production	Upgrading of M113 APCs (2009)
	• Facilities	Construction of Special Forces training center (2006), upgrade of AFB (2006)
	• Military training	Advisers

Jordan

Arms Sales and Security Assistance Extended

Country	Type	Details
Bahrain	• Military training	Training of Bahraini pilots (2009)
Brunei	• Arms transfers	Armored vehicles (2008)
Iraq	• Military training	Training of Iraqi Security forces (2006)
Kenya	• Arms transfers	F-5E aircraft (2007)
Kuwait	• Military training	Training Kuwaiti special forces (2007)
Libya	• Arms transfers	Nimr RVs (2010)
Mauritania	• Arms transfers	Al-Thalab RVs (2006)
PA	• Military training	Trainees in Jordan (2010)
UAE	• Cooperation in arms production	AB17 Tiger/ Nimr RVs(2010)
UK	• Facilities	Use of airspace for training missions
US	• Facilities	Use of airfields by combat aircraft
Yemen	• Arms transfers	al-Jawad APCs (2008)

Defense Production

	M	P	A
Army equipment			
• Upgrading of Khalid and al-Hussein MBTs	✓	✓	
• Upgrading of M60 and Tariq MBTs	✓	✓	
• Upgrading of Scorpion light tanks	✓		
• Conversion of M47 and M60 tanks to ARVs	✓		
• Conversion of Tariq to Temsah IFVs and MAP APCs	✓		
• Upgrading of M113 APCs to M113MK1J standard		✓	
• Upgrading of Ratel and RG-12 APCs		✓	
• Production of AB2 al-Jawad, Hunter, Stallion APCs		✓	✓
• Production of modified Land Rover APCs		✓	
• Production of Lenco, Marauder APCs		✓	✓
• Production of AAPCs			✓
• Black Iris\ Desert Iris, al-Thalab, J8, Tiger/Nimr RVs	✓	✓	
• 70mm LOGIR, and 107mm AB19 SP MRLs		✓	
• Desert Ranger motorcycles		✓	
• 120mm NM3 Semi-automatic SP mortars	✓	✓	
• 60mm SP mortar on Desert Iris vehicle	✓		
• RPG-29/32 ATRs		✓	
• Predator RCWS for Temsah and Rooikat IFVs	✓		
• AB27 copula for M113 APCs	✓		
Air Force equipment			
• I-wing, Jordan Falcon, Jordan Arrow, NT-150, Silent Eye, T-Rex UAVs	✓	✓	
• KA-226 helicopter			✓
• Sama CH-2000 Trainer aircraft			✓
• Falco UAVs			✓

Jordan

	M	P	A
• SB7L-360 Seeker light observation aircraft			✓
Naval equipment			
• Light Craft SRB		✓	
• AMP-137 PBs		✓	
Electronics			
• EW and ESM measures	✓		
• Aerial reconnaissance/ observation system			✓
• Upgrading of avionics (joint venture)	✓		
Optronics			
• Night vision equipment		✓	

Note: M - manufacture (indigenously developed)
P - production under license
A - assembly

Strategic Assets

NBC Capabilities

Nuclear capability

5MW nuclear research reactor, being built by a consortium of companies from South Korea. Nuclear cooperation accords with Canada, China, France, UK, and USA. Party to the NPT.

Chemical weapons and protective equipment

No known CW activities. Personal protective and decontamination equipment. Party to the CWC.

Biological weapons

No known BW capability. Party to the BWC.

Jordan

Armed Forces

Order-of-Battle

Year	2006	2007	2008	2009	2010
General data					
• Personnel (regular)	100,700	100,700	100,700	100,700	100,700
Ground forces					
• Divisions	4	4	4	4	4
• Total number of brigades	14	14	14	14	14
• Tanks	927 (1,217)	927 (1,217)	927 (1,217)	927 (1,217)	927 (1,217)
• APCs/AFVs	1,643 (1,943)	1,846 (2,056)	2,235 (2,295)	2,235 (2,295)	2,235 (2,295)
• Artillery (including MRLs)	853 (878)	853 (878)	853 (878)	853 (878)	853 (878)
Air force					
• Combat aircraft	96 (105)	94 (108)	80 (106)	83 (101)	83 (101)
• Transport aircraft	16	16	18	18	18
• Helicopters	67	67	79	82	82
Air defense forces					
• Heavy SAM batteries	17	17	17	17	17
• Medium SAM batteries	12	12	12	12	12
• Light SAM launchers	50	50	50	50	50
Navy					
• Patrol craft	17	17	17	17	17

* Due to change in estimate.

Jordan

Personnel

	Regular	Reserves	Total
Ground Forces	88,000	60,000	148,000
Air Force	12,000		12,000
Navy	700		700
Total	100,700	60,000	160,700
Paramilitary			
• General Security Forces (including Desert Patrol)	25,000		25,000
• Popular Army		200,000-250,000	200,000-250,000

Note: The Popular Army is not regarded as a fighting force.

Ground Forces

Formations

	Divisions	Independent brigades / groups	Brigades in divisions
Armored	2		3 armd., 1 aty., 1 AD each
Mechanized	2		1 Inf., 2 mech., 1 aty., 1 AD each
Infantry/Royal Guard		1	
Special forces		3	
Artillery		5	
Total	4	7	

Jordan

Tanks

Model	Quantity	In service	Since	Notes
MBTs				
High quality				
• Al-Hussein	390	390	1999	Challenger I
• Khalid	275	275	1984	Improved Chieftain
Subtotal	665	665		
Medium and low quality				
• Tariq	290	0	1995	Improved Centurion
• M60 Phoenix	182	182	2003	Upgraded M60
• M60 A1/ A3	80	80	1980	Being upgraded
Subtotal	552	262		
Total	1,217	927		
Future procurement				
• al-Hussein	+	+		To be upgraded with Hybrid torrent

APCs/AFVs

Model	Quantity	In service	Since	Notes
APCs				
• M113 A1/A2	800	800	1968	To be upgraded; including M106 M-30, M901 ITV
• M113 Mk1J	410	410	2004	
• YPR-765	60	60	2005	Including 45 YPR ITV.
• Engesa EE-11	100	100	1987	With General Security Forces
• Spartan	55	55	2000	26 Transferred to Iraq
Subtotal	1,425	1,425		
IFVs				
• Ratel 20	340	340	2003	With BAU-23 OWS
• BMP-2	35	35	1989	
Subtotal	375	375		
Reconnaissance				
• Scorpion	35	35	2002	Converted from Light Tanks
• Scimitar	175	175	2005	
• Saladin/ Saracen	60	0	1963	
Subtotal	270	210		

Jordan

Model	Quantity	In service	Since	Notes
Light armored vehicles				
• AB5 Defender 110	14	14	2001	
• AB2 al-Jawad	65	65	2001	
• Al-Thalab	96	96	2006	Armor-protected variant
• Ferret Hybrid	50	50	2007	Upgraded from obsolete vehicles
Subtotal	225	225		
Total	2,295	2,235		
Future procurement				
• Hunter LAV	20			Based on Toyota Land cruiser
• RG-12	40			
• M113 Mk1J	300			Upgraded from kits
• Matador/ Stallion	50			
Artillery				
Model	Quantity	In service	Since	Notes
Self-propelled guns and howitzers				
• 203mm M-110 A2	128	128	1980	
• 155mm M-109 A2	220	220	1980	
Subtotal	348	348		
Towed guns and howitzers				
• 203mm (8") M-115	25	0	1965	
• 155mm M-114	30	30	1970	
• 155mm M-59 (Long Tom)	10	10	1965	
• 105mm M102 A1	50	50	1970	
Subtotal	115	90		
Mortars, under 160mm				
• 120mm	300	300	1975	
• 107mm M-30	100	100	1975	50 M106 SP
Subtotal	400	400		
MRLs				
• 107mm AB-19	15	15	2002	mounted on HUMMWV/ Desert Iris chassis
Total	878	853		
Future procurement				
• 227mm HIMARS	12		2012	

Jordan

Model	Quantity	In service	Since	Notes
• 1200mm SP	+			Chinese mortars under negotiations

Ground Radars

Model	Quantity	In service	Since	Notes
Artillery/mortar locating radars				
• AN/TPQ-36/37	7	7	1990	
Future procurement				
• Border security system	+	+	2009	Including ground radars, IR cameras and aerostats

Logistic and Engineering Equipment

Aardvark Mk 2 flail (6), Aardvark Mk 3 flail (6), bridges, mine-clearing plows and bulldozers, UDK-1, HETs (200), M-578 recovery vehicles (30), Chieftain ARVs (6), Scammell Commander HETs (59), M60 ARVs (20)

Future procurement:

M1070 HETs (10), Commander HETs (41)

Anti-Tank Guided Missiles

Model	Launchers	Missiles	Since	Notes
• BGM-71E TOW 2A	285		2004	
• M901 ITV	93		1988	
• Milan ITV	45		2005	Mounted on YPR chassis
• M47 Dragon	310		1976	
• FGM-148 Javelin	30	135	2002	
• 155mm Copperhead		100		Artillery projectiles
Total	763			
Future procurement				
• FGM-148 Javelin	162	1,800		Under negotiations
• AT-14 Kornet SP	200	1,000		Mounted on HMMWV chassis

Jordan

Air Force

Order-of-Battle

Category	Quantity	In service	Notes
Combat	101	83	
Transport	18	18	
Helicopters	82	82	

Combat Aircraft

Model	Quantity	In service	Since	Notes
Advanced multi-role				
• F-16 A/B	17	12	1997	Five being upgraded to Block 40 standard
• F-16 C/D	34	34	2007	MLU standard
Subtotal	51	46		
Multi-role				
• Mirage F1-C/E	25	12	1981	
• F-5 E/F	25	25	1975	
Subtotal	50	37		
Total	101	83		
Future procurement				
• F-16 C/D	9			Under negotiations

Transport Aircraft

Model	Quantity	In service	Since	Notes
• C-130H Hercules	5	5	1972	Upgraded
• CASA C-212	2	2	1975	
• Challenger 604	2	2	2001	VIP role
• CN-235	2	2	1998	
• CN-295	2	2	2004	
• Gulfstream III/IV	2	2	1986	
• IL-76MF	2	2	2006	
• RC-208 Caravan	5	5	2010	Listed also under miscellaneous
• L-1011-500	1	1	1984	
Total	18	18		

Jordan

Training and Liaison Aircraft

Model	Quantity	In service	Since	Notes
Jet trainers				
• CASA C-101	9	9	1987	
Piston/Turbo-prop				
• TB-20 Socata	2	2	2000	
• T67M Firefly	16	16	2002	
• BAe-SA-3-125 Bulldog	15	15	1974	
Subtotal	33	33		
Total	46	46		
Future Procurement				
• SB7L Seeker	6			

Helicopters

Model	Quantity	In service	Since	Notes
Attack				
• AH-1G/F/S Cobra	25	25	1985	
Medium transport				
• S-70A Black Hawk	14	14	1987	
• AS-332 Super Puma	12	12	1986	
Subtotal	26	26		
Light transport				
• EC-635	13	13	2003	
• AS330 B2 Fennec	3	3	2002	
• Alouette III	1	1	1977	
• MD 500D	8	8	1980	
• MBB BO-105	3	3		With general security forces
• BK-117	3	3		
Subtotal	31	31		
Total	82	82		

Jordan

Miscellaneous Aircraft

Model	Quantity	In service	Since	Notes
Reconnaissance				
• RC-208 Caravan	5	5	2010	

Advanced Armament

Air-to-air-missiles

AIM-9J/M/P Sidewinder (750), AIM-7M Sparrow (96), R-550 Magic

Air-to-ground-missiles

AS-30L (10), AGM-65C Maverick (60)

Bombs

Belouga CBU, Durandal anti-runway bombs

Future procurement

Night vision systems, AIM-120 AMRAAM (85)

Note: Number in parentheses refers to the quantity of missiles purchased, not to current inventory levels.

Air Force Infrastructure

Aircraft shelters

For all combat aircraft

Military airfields 6

Amman (Marka), Azrak, H-4, H-5, Jaafar, Mafraq

Air Defense Forces

Surface-to-Air Missiles

Model	Batteries	Launchers	Since	Notes
Heavy missiles				
• Patriot PAC-3	3		2003	American personnel
• MIM-23B Improved HAWK	14		1978	
Total	17			
Medium missiles				
• SA-8 (Osa)	12	50	1982	
Total		50		
Light missiles				
• SA-13 (strela-10)		50	1986	
Total		50		
Shoulder-launched missiles				
• Javelin		+		
• MIM-43A Redeye		270	1977	

Jordan

Model	Batteries	Launchers	Since	Notes
• SA-14 (Strela-3)		300	1987	
• SA-18 (Igla)		240	1991	
Total		810		
Future Procurement				
• SA-24 (Igla-S)		200		Mounted on Land Cruiser chassis

Other Air Defense Systems

Model	Quantity	In service	Since	Notes
Short-range guns				
• 40mm M-42 SP	200	0	1966	To be phased out
• 23mm ZSU 23x4 SP (Gun Dish)	45	16	1983	
• 20mm M163 Vulcan SP	100	100	1976	
Total	345	116		
Radars				
• AN/TPS-43	2	2		
• AN/TPS-63	5	5		
• S-711	5	5		
Future Procurement				
• RADIANT C ⁴ I				
• FPS-117	2			

Jordan

Navy

Patrol Craft

Type	Quantity	Length (m.) / displacement (t.)	Notes / armament
• Al-Hussein class (VT Hawk)	3	30.5/124	2x30mm guns 1x20mm gun 2x12.7mm MGs
• Al-Hashim class (type 412)	2	12.7/9	1x12.7mm MG
• Abdullah class	4	13.2/14.5	2x12.5mm MGs
• Faysal class (Bertram)	4	11.6/8	1x12.7mm MG
• Feisal class (Commander)	4	8.1/3.4	2x12.5mm MGs
Total	17		

Special Maritime Forces

Type	Quantity	Length (m.) / displacement (t.)	Notes / armament
• 17ft Launch	4	5.1	
• 19ft GRP	4	5.7	
Future procurement			
• Light Craft SRB	1	10m	For Special Forces

Naval Infrastructure

Naval bases	2		
Aqaba, Hingat al-Ramat			