

## 7. JORDAN

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### Major Changes

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- The Royal Jordanian air force is receiving 20 F-16C/D from Belgium and Holland. Meanwhile the RJAF upgrades its older F-16A/B to the C/D standard, in Turkey.
  - The Royal Jordanian air force sold 15 of its ageing F-5E/F combat aircraft to a foreign customer.
  - The Jordanian armed forces are acquiring both Kornet ATGMs and Igla-S SAMs from Russia. Both types of missiles will be mounted on lightly armored vehicles.
  - The Jordanian armed forces received 340 Ratel IFVs from South Africa.
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### General Data

**Official Name of the State:** The Hashemite Kingdom of Jordan

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

**Prime Minister:** Nader al-dahabi

**Minister of Defense:** Faisal al-Fayez

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

**Chief of the Joint Staff of the Armed Forces:** Lieutenant General Khalid Sarayrah

**Commander of the Air Force:** Major General Hussein al-Biss

**Commander of the Navy:** Commodore Ali Mahmoud al-Khasawna

**Area:** 90,700 sq. km.

**Population:** 5,900,000

## Jordan

### Demography

<b>Ethnic groups</b>		
• Arabs	5,782,000	98.0%
• Circassians and Armenians	118,000	2.0%
<b>Religious groups</b>		
• Sunni Muslims	5,664,000	96.0%
• Greek Orthodox and other Christians	236,000	4.0%

### Economic Data

		2003	2004	2005	2006	2007
• GDP (current prices)	\$ bn	10.2	11.4	12.6	14.1	15.8
• GDP per capita	\$	1,962	2,150	2,291	2,474	2,678
• Real GDP growth	%	4.2	8.4	7.3	6.3	6.0
• Consumer price index	%	2.9	3.8	4.2	7.4	5.7
• External debt	\$ bn	8.3	8.1	7.7	8.0	8.1
<b>Balance of payments</b>						
• Exports fob	\$ bn	3.1	3.9	4.3	5.2	5.7
• Imports fob	\$ bn	-5.1	-7.3	-9.3	-10.3	-12.0
• Current account balance (including services and income)	\$ bn	1.2	0.089	-2.2	-1.6	-2.8
<b>Government expenditure</b>						
• Total expenditure	\$ bn	3.7	4.4	5.0	5.5	6.5
• Defense expenditure	\$ bn	0.65	0.6	0.6	0.66	0.98
• Real change in defense expenditure	%	14.0	-7.7	0.0	10.0	48.0
• Defense expenditure/GDP	%	6.4	5.3	4.7	4.7	6.2
Population	m	5.2	5.4	5.5	5.7	5.9
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	Congo (MONUC) , Ethiopia and Eritrea (UNMEE) , observers in Georgia (UNOMIG) , Haiti (MINUSTAH), Ivory Coast (UNOCI), Kosovo (UNMIK) , Liberia (UNMIL), Sudan (UNMIS), Darfur (UNAMID)
• Joint maneuvers	Egypt (2005), France, GCC (2005), Oman, Qatar, Turkey , UAE, UK , US
• Security agreements	NATO (2007), Saudi Arabia (2001), Turkey, US

## Jordan

### Arms Trade

#### Arms Procurement and Security Assistance Received

Country	Type	Details
Belgium	<ul style="list-style-type: none"> <li>• Arms transfers</li> </ul>	F-16 aircraft (2008)
France	<ul style="list-style-type: none"> <li>• Arms transfers</li> <li>• Military training</li> </ul>	EC-635 helicopters (2007) Instructors for Special Forces (2004)
Netherlands	<ul style="list-style-type: none"> <li>• Arms transfers</li> </ul>	F-16 aircraft (2008)
PRC	<ul style="list-style-type: none"> <li>• Arms transfers</li> <li>• Military training</li> </ul>	120mm mortars (2008) Training of nuclear technicians (2008)
Russia	<ul style="list-style-type: none"> <li>• Arms transfers</li> </ul>	IL-76 transport aircraft (2007), AT-14 ATGMs (2008), SA-18 Igal SAMs (2008)
South Africa	<ul style="list-style-type: none"> <li>• Cooperation in Arms Production</li> <li>• Cooperation in Arms Production</li> </ul>	KA-226 helicopters (2007) , RPG-32 ATRLs (2008) Ratel-20 IFVs (2008) , Marauder LAVs (2007) , RG-12 APCs (2008)
Turkey	<ul style="list-style-type: none"> <li>• Cooperation in Arms Production</li> <li>• Military training</li> </ul>	AAPCs (2007), upgrading of F-16 aircraft (2008) Flight simulation, training of helicopter pilots
UK	<ul style="list-style-type: none"> <li>• Arms transfers</li> </ul>	Challenger MBTs (2004), tactical communication systems (2004) , Pinzgauer APCs (2004) , Commander HETs (2004) , al-Jawad APCs (2008) , al-Thalab RVs (2008), Hunter APCs (2008)
Ukraine	<ul style="list-style-type: none"> <li>• Cooperation in Arms Production</li> <li>• Military training</li> </ul>	Trainees abroad
US	<ul style="list-style-type: none"> <li>• Arms transfers</li> <li>• Arms transfers</li> </ul>	Turrets for APCs (2005) F-16 combat aircraft(2006), IFCS for MBT upgrade (2006), S-70 Blackhawk helicopters (2008), Missile warning systems (2004), C <sup>2</sup> system (2004), AIM-120 AMRAAMs (2005), national C <sup>4</sup> I system (2005)
	<ul style="list-style-type: none"> <li>• Assistance</li> <li>• Cooperation in arms production</li> <li>• Facilities</li> <li>• Military training</li> </ul>	\$68 million military aid (2008) Upgrading of M113 APCs (2005), Sama CH-2000 light aircraft (2004) Construction of Special Forces training center (2006), upgrade of AFB (2006) Advisers

## Jordan

### Arms Sales and Security Assistance Extended

Country	Type	Details
Australia	• Facilities	Use of facilities for training of Iraqi Police (2004)
Brunei	• Arms transfers	Armored vehicles (2008)
Ghana	• Arms transfers	SB7 Seeker aircraft (2004)
Iraq	• Arms transfers	UH-1H helicopters (2004), C-130 aircraft (2004), SB7 Seeker aircraft (2004) , Sama CH2000 aircraft (2006), BTR-94 APCs (2004), Spartan APCs (2004), M113 APCs (2004)
Kenya	• Military training • Arms transfers	Training of Iraqi Security forces (2006) F-5E aircraft (2007)
Kuwait	• Military training	Training Kuwaiti special forces (2007)
Libya	• Arms transfers	Desert Iris RVs (2004)
Mauritania	• Arms transfers	Al-Thalab RVs (2006)
PA	• Military training	Trainees in Jordan (2005)
Saudi Arabia	• Arms transfers	Desert Iris RVs (2004)
South Africa	• Arms transfers	SB7 Seeker aircraft (2004)
UAE	• Arms transfers • Cooperation in arms production	Desert Iris RVs (2004) AB17 Tiger/ Nimr APCs (2007)
US	• Facilities	Use of airfields by combat aircraft
Yemen	• Arms transfers	SB7 Seeker aircraft (2005), al-Jawad APCs (2008)

### Defense Production

	M	P	A
<b>Army equipment</b>			
• 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 and Hunter APCs		✓	✓
• Production of modified Land Rover APCs		✓	
• Production of Toyota Land Cruiser, Lenco, Marauder APCs		✓	✓
• Production of AAPCs			✓
• Black Iris\ Desert Iris, al-Thalab and Tiger RVs	✓	✓	
• AB19 Self propelled 107mm MRLs		✓	
• Desert Ranger motorcycles		✓	
• 120mm NM3 Semi-automatic SP mortars	✓	✓	

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	M	P	A
• 60mm SP mortar on Desert Iris vehicle	✓		
• RPG-29/32 ATRLs		✓	
• Predator RCWS for Temsah and Rooikat IFVs	✓		
• AB27 copula for M113 APCs	✓		
<b>Air Force equipment</b>			
• I-wing, Jordan Falcon, Jordan Arrow, Silent Eye UAVs	✓	✓	
• KA-226 helicopter			✓
• Sama CH-2000 Trainer aircraft			✓
• SB7L-360 Seeker and Blue Bird light observation aircraft			✓
<b>Naval equipment</b>			
• Light Craft SRB		✓	
<b>Electronics</b>			
• EW and ESM measures	✓		
• Aerial reconnaissance/ observation system			✓
• Upgrading of avionics (joint venture)	✓		
<b>Optronics</b>			
• Night vision equipment		✓	

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

## Strategic Assets

### **NBC Capabilities**

#### **Nuclear capability**

No known capability. 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	2005	2006	2007	2008	2009
<b>General data</b>					
• Personnel (regular)	100,700	100,700	100,700	100,700	100,700
<b>Ground Forces</b>					
• Divisions	4	4	4	4	4
• Total number of brigades	14	14	14	14	14
• Tanks	921 (1,223)*	927 (1,217)	927 (1,217)	927 (1,217)	927 (1,217)
• APCs/AFVs	1,643 (1,943)*	1,643 (1,943)	1,846 (2,056)	2,235 (2,295)	2,235 (2,295)
• Artillery (including MRLs)	853 (878)	853 (878)	853 (878)	853 (878)	853 (878)
<b>Air Force</b>					
• Combat aircraft	96 (105)	96 (105)	94 (108)	80 (106)	80 (106)
• Transport aircraft	16	16	16	18	18
• Helicopters	74 (90)	67	67	79	79
<b>Air Defense Forces</b>					
• Heavy SAM batteries	17	17	17	17	17
• Medium SAM batteries	12	12	12	12	12
• Light SAM launchers	50	50	50	50	50
<b>Navy</b>					
• Patrol craft	10	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
<b>Total</b>	<b>100,700</b>	<b>60,000</b>	<b>160,700</b>
<b>Paramilitary</b>			
• 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	
<b>Total</b>	<b>4</b>	<b>7</b>	

## Jordan

### Tanks

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

### APCs/AFVs

Model	Quantity	In service	Since	Notes
<b>APCs</b>				
• M113 A1/A2	1,000	1,000	1968	To be upgraded; including M106 M-30, M901 ITV
• M113Mk1J	255	255	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	1,470	1,470		
<b>IFVs</b>				
• Ratel 20	341	341	2003	
• BMP-2	35	35	1989	
Subtotal	376	376		
<b>Reconnaissance</b>				
• Scorpion	35	35	2002	Converted from Light Tanks
• Scimitar	175	175	2005	
• Saladin/ Saracen	60	0	1963	
Subtotal	270	210		
<b>Light armored vehicles</b>				
• AB5 Defender 110	14	14	2001	



## Jordan

Model	Quantity	In service	Since	Notes
• AB2 al-Jawad	65	65	2001	
• Al-Thalab	50	50	2006	Armor-protected variant
• Ferret Hybrid	50	50	2007	Upgraded from obsolete vehicles
Subtotal	179	179		
<b>Total</b>	<b>2,295</b>	<b>2,235</b>		
<b>Future procurement</b>				
• AAPC	100			
• Al-Thalab	96			Being delivered
• RG-12	40			
• M113 Mk1J	1,000			Upgraded from kits
• Matador	25			
• Marauder	25			

### Artillery

Model	Quantity	In service	Since	Notes
<b>Self-propelled guns and howitzers</b>				
• 203mm M-110 A2	128	128	1980	
• 155mm M-109 A2	220	220	1980	
Subtotal	348	348		
<b>Towed guns and howitzers</b>				
• 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		
<b>Mortars, under 160mm</b>				
• 120mm	300	300	1975	
• 107mm M-30	100	100	1975	50 M106 SP
Subtotal	400	400		
<b>MRLs</b>				
• 107mm AB-19	15	15	2002	mounted on HUMMWV/ Desert Iris chassis
<b>Total</b>	<b>878</b>	<b>853</b>		
<b>Future procurement</b>				
• 1200mm SP	+	+		Chinese mortars under negotiations

## Jordan

### Ground Radars

Model	Quantity	In service	Since	Notes
<b>Artillery/mortar locating radars</b>				
• AN/TPQ-36/37	7	7	1990	
<b>Future procurement</b>				
• Border control system	+	+	2000	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)

#### Future procurement:

M60 ARVs (20) , 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	
• Javelin	30	135	2002	
• 155mm Copperhead		100		Artillery projectiles
<b>Total</b>	<b>763</b>			
<b>Future procurement</b>				
• AT-14 Kornet SP	200			Mounted on HMMWV chassis

## Jordan

### Air Force

#### Order-of-Battle

Category	Quantity	In service	Notes
Combat	106	80	
Transport	18	18	
Helicopters	79	79	

#### Combat Aircraft

Model	Quantity	In service	Since	Notes
<b>Advanced multi-role</b>				
• F-16 A/B	32	20	1997	Being upgraded to Block 40 standard
• F-16 C/D	11	11	2007	MLU standard
Subtotal	43	31		
<b>Multi-role</b>				
• Mirage F1-C/E	28	24	1981	
• F-5 E/F	35	25	1975	
Subtotal	63	49		
<b>Total</b>	<b>106</b>	<b>80</b>		
<b>Future procurement</b>				
• F-16 C/D	22			Being delivered; from Dutch and Belgium AF drawdown

#### 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	
• L-1011-500	1	1	1984	
<b>Total</b>	<b>18</b>	<b>18</b>		

## Jordan

### Training and Liaison Aircraft

Model	Quantity	In service	Since	Notes
<b>Jet trainers</b>				
• CASA C-101	10	10	1987	
<b>Piston/Turbo-prop</b>				
• TB-20 Socata	2	2	2000	
• T67M Firefly	16	16	2002	
• BAe-SA-3-125 Bulldog	15	15	1974	
Subtotal	33	33		
<b>Total</b>	<b>46</b>	<b>46</b>		
<b>Future Procurement</b>				
• SB7L Seeker	6			

### Helicopters

Model	Quantity	In service	Since	Notes
<b>Attack</b>				
• AH-1G/F/S Cobra	25	25	1985	
<b>Medium transport</b>				
• S-70A Black Hawk	14	14	1987	
• AS-332 Super Puma	12	12	1986	
Subtotal	26	26		
<b>Light transport</b>				
• EC-635	13	13	2003	
• Alouette III	1	1	1977	
• MD 500D	8	8	1980	
• MBB BO-105	3	3		With general security forces
• BK-117	3	3		
Subtotal	28	28		
<b>Total</b>	<b>79</b>	<b>79</b>		

### 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 (50)

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

## Jordan

### Air Force Infrastructure

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#### Aircraft shelters

For all combat aircraft

**Military airfields** **6**

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

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### Air Defense Forces

#### Surface-to-Air Missiles

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Model	Batteries	Launchers	Since	Notes
<b>Heavy missiles</b>				
• Patriot PAC-3	3		2003	American personnel
• MIM-23B Improved HAWK	14		1978	
<b>Total</b>	<b>17</b>			
<b>Medium missiles</b>				
• SA-8 (Osa)	12	50	1982	
<b>Total</b>		<b>50</b>		
<b>Light missiles</b>				
• SA-13 (strela-10)		50	1986	
<b>Total</b>		<b>50</b>		
<b>Shoulder-launched missiles</b>				
• Javelin		+		
• MIM-43A Redeye		270	1977	
• SA-14 (Strela-3)		300	1987	
• SA-18 (Igla)		240	1991	
<b>Total</b>		<b>810</b>		
<b>Future Procurement</b>				
• SA-24 (Igla-S)		200		Mounted on Land Cruiser chassis

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## Jordan

### Other Air Defense Systems

Model	Quantity	In service	Since	Notes
<b>Short-range guns</b>				
• 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	
<b>Total</b>	<b>345</b>	<b>116</b>		
<b>Radars</b>				
• AN/TPS-43	2	2		
• AN/TPS-63	5	5		
• S-711	5	5		
<b>Future Procurement</b>				
• RADIANT C <sup>4</sup> 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
<b>Total</b>	<b>17</b>		

#### Special Maritime Forces

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

#### Naval Infrastructure

Naval bases	2		
Aqaba, Hingat al-Ramat			