

## 7. JORDAN

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### Major Changes

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- The Royal Jordanian air force received 9 additional F-16's from Belgium, bringing its fleet of F-16 MLU to 48 aircraft. The force also received two C-130H transport aircraft from the US Air force drawdown.
  - The RJAF is converting two CN-235 transport aircraft into armed gunships, with assistance from ATK.
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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:** Marouf al-Bakhit

**Minister of Defense:** Marouf al-Bakhit

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

**Chief of the Joint Staff of the Armed Forces:** Lieutenant General Mashaal Muhammad 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:** 6,500,000

## 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

		2006	2007	2008	2009	2010
• GDP (current prices)	\$ bn	14.84	16.53	20.1	20.7	27.5
• GDP per capita	\$	2,559	2,802	3,295	3,286	4,230
• Real GDP growth	%	8.0	6.6	5.6	3.1	5.3
• Consumer price index	%	7.5	5.7	9.4	5.9	5.1
• External debt	\$ bn	8.0	8.4	6.8	6.8	NA
Balance of payments						
• Exports fob	\$ bn	5.2	5.7	7.9	6.6	5.5
• Imports fob	\$ bn	-10.2	-12.2	-15.1	-12.1	-11.0
• Current account balance	\$ bn	-1.6	-2.9	-2.4	-1.3	-2.1
Government expenditure						
• Government expenditure	% GDP	37.0	39.1	38.2	38.2	20.7
• Defense expenditure	\$ bn	0.7	1.03	1.25	1.38	1.43
• Real change in defense expenditure	%	16.6	47.2	21.4	10.4	3.6
• Defense expenditure/GDP	%	4.7	6.2	6.2	6.7	5.2
Population	m	5.8	5.9	6.1	6.3	6.5
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, Israel (2009), Kuwait (2009), Pakistan (2010), Oman, Qatar, Turkey , UAE (2010), UK , US (2009)
• Security agreements	NATO (2007), Kuwait (2011), Lebanon (2010), Saudi

## Jordan

Type	Details
Arabia (2001), Turkey	

## Arms Trade

### Arms Procurement and Security Assistance Received

Country	Type	Details
Austria	• Arms transfers	S-100 Camcopter (2011)
Belgium	• Arms transfers	F-16 aircraft (2011)
Italy	• Cooperation in Arms Production	Falco UAV (2009), Border security system (2009)
Netherlands	• Arms transfers	F-16 aircraft (2009), YPR-765 APCs (2010), 155mm M109A2 (2010)
PRC	• Arms transfers	120mm mortars (2008)
	• Military training	Training of nuclear technicians (2008)
Russia	• Arms transfers	IL-76 transport aircraft (2010), AT-14 ATGMs (2008), SA-18 Igal SAMs (2008)
	• Cooperation in Arms Production	RPG-32 ATRLs (2010)
South Africa	• Cooperation in Arms Production	Ratel-20 IFVs (2008) , 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	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 (2009), S-70 Blackhawk helicopters (2010), AIM-120 AMRAAMs (2010), Javelin ATGMs (2009), HIMARS MRLs (2010), RC-208 aircraft (2010), AH-6 helicopters (2010), EW systems (2010), C-130E aircraft (2011)
	• Assistance	\$300 million military aid (2009)
	• Cooperation in arms production	Upgrading of M113 APCs (2009), conversion of CN-235 into gunship aircraft (2011)
	• Facilities	Construction of the Border Security program (2011)
	• Military training	Advisers

## Jordan

### Arms Sales and Security Assistance Extended

Country	Type	Details
Afghanistan	• Military training	Training of Afghan security forces (2010)
Bahrain	• Military training	Training of Bahraini pilots (2009)
Brazil	• Arms transfers	F-5 E/F aircraft (2008)
Brunei	• Arms transfers	Armored vehicles (2008)
Kenya	• Arms transfers	F-5E aircraft (2008)
Libya	• Arms transfers	Nimr RVs (2010)
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
<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, 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 ATRLs		✓	
• Predator RCWS for Temsah and Rooikat IFVs	✓		
• AB27 copula for M113 APCs	✓		
<b>Air Force equipment</b>			
• I-wing, Jordan Falcon, Jordan Arrow, NT-150, Silent Eye, T-Rex UAVs	✓	✓	
• conversion of CN-235 into gunship aircraft			✓
• KA-226 helicopter			✓
• Sama CH-2000 Trainer aircraft			✓
• Falco UAVs			✓

## Jordan

	M	P	A
• SB7L-360 Seeker light observation aircraft			✓
<b>Naval equipment</b>			
• Light Craft SRB		✓	
• AMP-137 PBs		✓	
<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

5MW nuclear research reactor, being built by a consortium of companies from South Korea. Nuclear cooperation accords with Canada, China, France, Japan, 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.

### Command and Control Assets

Name	Description
<b>Air defense</b>	
RADIANT C4I	National EW network, connecting regional control centers, ground radars and AD assets
<b>Border security</b>	
Distant sentry	National border surveillance system, Including ground radars, sensors and aerostats.

## Jordan

### Armed Forces

#### Order-of-Battle

Year	2008	2009	2010	2011	2012
<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	927 (1,217)	927 (1,217)	927 (1,217)	927 (1,217)	927 (1,217)
• APCs/AFVs	2,235 (2,295)	2,235 (2,295)	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)
<b>Air force</b>					
• Combat aircraft	80 (106)*	83 (101)	88 (102)	98 (111)	98 (111)
• Transport aircraft	18	18	23	25	26
• Helicopters	79	82	79	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	17	17	17	17	17

\* Due to change in estimate.

#### 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.

## Jordan

### 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>	

#### 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	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

## Jordan

<b>Model</b>	<b>Quantity</b>	<b>In service</b>	<b>Since</b>	<b>Notes</b>
• Spartan	55	55	2000	26 Transferred to Iraq
<b>Subtotal IFVs</b>	<b>1,425</b>	<b>1,425</b>		
• Ratel 20	340	340	2003	With BAU-23 OWS
• BMP-2	35	35	1989	
<b>Subtotal Reconnaissance</b>	<b>375</b>	<b>375</b>		
• Scorpion	35	35	2002	Converted from Light Tanks
• Scimitar	175	175	2005	
• Saladin/ Saracen	60	0	1963	
<b>Subtotal Light armored vehicles</b>	<b>270</b>	<b>210</b>		
• 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
<b>Subtotal</b>	<b>225</b>	<b>225</b>		
<b>Total</b>	<b>2,295</b>	<b>2,235</b>		
<b>Future procurement</b>				
• YPR-765	520			Form the Netherlands
• Hunter LAV	20			Based on Toyota Land crusier
• RG-12	40			
• M113 Mk1J	300			Upgraded from kits
• Matador/ Stallion	50			

## Jordan

### 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>				
• 155mm M109A2	122		2014	Drawdown from the Netherlands
• 227mm HIMARS	12		2012	
• 120mm SP	+			Chinese mortars under negotiations

### Ground Radars

Model	Quantity	In service	Since	Notes
<b>Artillery/mortar locating radars</b>				
• AN/TPQ-36/37	7	7	1990	

## Jordan

### **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**

<b>Model</b>	<b>Launchers</b>	<b>Missiles</b>	<b>Since</b>	<b>Notes</b>
• 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
<b>Total</b>	<b>763</b>			
<b>Future procurement</b>				
• 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	111	98	
Transport	26	26	
Helicopters	79	79	

#### Combat Aircraft

Model	Quantity	In service	Since	Notes
<b>Advanced multi-role</b>				
• F-16 A/B	13	13	1997	
• F-16 MLU	48	48	2007	Upgraded to Block 30 standard
Subtotal	61	61		
<b>Multi-role</b>				
• Mirage F1-C/E	25	12	1981	
• F-5 E/F	25	25	1975	Used for advanced training
Subtotal	50	37		
<b>Total</b>	<b>111</b>	<b>98</b>		

#### Transport Aircraft

Model	Quantity	In service	Since	Notes
• C-130 E/H	8	8	1972/ 2011	Upgraded
• CASA C-212	2	2	1975	
• Challenger 604	2	2	2001	VIP role
• CN-235	2	2	1998	To be converted to gunship role
• CN-295	2	2	2004	
• Gulfstream III/IV	2	2	1986	
• IL-76MF	2	2	2011	
• RC-208 Caravan	5	5	2010	Listed also under miscellaneous
• L-1011-500	1	1	1984	
<b>Total</b>	<b>26</b>	<b>26</b>		
<b>Future procurement</b>				
• C-130E	1			From US drawdown

## Jordan

### Training and Liaison Aircraft

Model	Quantity	In service	Since	Notes
<b>Jet trainers</b>				
• CASA C-101	9	9	1987	
<b>Piston/Turbo-prop</b>				
• TB-20 Socata	2	2	2000	
• T67M Firefly	16	16	2002	
Subtotal	18	18		
<b>Total</b>	<b>27</b>	<b>27</b>		

### Helicopters

Model	Quantity	In service	Since	Notes
<b>Attack</b>				
• AH-1G/F/S Cobra	25	25	1985	
<b>Medium transport</b>				
• S-70 Blackhawk	13	13	2008	
• AS-332 Super Puma	10	10	1986	
Subtotal	23	23		
<b>Light transport</b>				
• 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		
<b>Total</b>	<b>79</b>	<b>79</b>		
<b>Future procurement</b>				
• S-70 Blackhawk	3		2013	UH-60M VIP variant

### Miscellaneous Aircraft

Model	Quantity	In service	Since	Notes
<b>Reconnaissance</b>				
• F-5 E/F	+	+		Also listed under combat aircraft
• RC-208 Caravan	5	5	2010	
<b>UAVs</b>				
• S-100 Camcopter	2	2	2011	
<b>Future procurement</b>				
• CN-235 gunship	2		2013	Conversion of existing aircraft

## Jordan

### Advanced Armament

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#### 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/G Maverick (110)

#### Bombs

Belouga CBU, Durandal anti-runway bombs

#### Future procurement

Night vision systems, AIM-120 AMRAAM (85)

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

### Air Force Infrastructure

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#### Aircraft shelters

For all combat aircraft

**Military airfields** **6**

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

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## Air Defense Forces

### Surface-to-Air Missiles

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

## Jordan

Model	Batteries	Launchers	Since	Notes
				Land Cruiser chassis

### 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>				
• FPS-117	2			

## 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
• Faisal class (Commander)	4	8.1/3.4	2x12.5mm MGs
<b>Total</b>	<b>17</b>		

## Jordan

### **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			