

## 10. LIBYA

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### Major Changes

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- Following the uprising in Libya, which began in March 2011, and the deposition of the Qaddafi regime, the Libyan armed forces have mostly disintegrated. Some of the units and some of the equipment are being operated by the rebels. Most of the air force and the air defense forces have been destroyed by NATO air attacks. The tables represent the known inventories at the outbreak of the civil war.
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### General Data

**Official Name of the State:** The Great Socialist People's Libyan Arab Jamahiriya

**Head of State:** Head of the National Transition Council (NTC), Mustafa Abdel Jalil

**Minister of Defense:** Jallal al-Digheily

**Commander of the Armed Forces:** Abdul-karim Belhaj

**Commander of the Air Force:**

**Area:** 1,759,540 sq. km.

**Population:** 6,400,000

## Libya

### Demography

Ethnic groups		
• Arabs and Berbers	6,208,000	97.0%
• Others:	192,000	3.0%
Greeks, Maltese, Italians, Egyptians, Pakistanis, Indians, Tunisians, Turks		
Religious groups		
• Sunni Muslims	6,208,000	97.0%
• Christians and others	192,000	3.0%

### Economic Data

		2006	2007	2008	2009	2010
• GDP (current price)	\$ bn	52.3	53.7	67.65	44.0	NA
• GDP per capita	\$	8,574	8,661	10,738	6,875	NA
• Real GDP growth	%	5.9	6.8	6.3	3.7	NA
• Consumer price index	%	1.8	6.3	10.4	5.7	2.5
• External debt	\$ bn	4.46	4.95	6.07	6.15	NA
Balance of payments						
• Exports fob	\$ bn	37.47	46.97	60.26	35.13	44.4
• Imports fob	\$ bn	-11.17	-13.22	-17.7	-21.18	-22.0
• Current account balance	\$ bn	22.17	28.45	32.78	5.28	NA
Government expenditure						
• Public expenditure	%	31.1	45.7	52.1	76.5	NA
• Defense expenditure	\$ bn	0.63	0.66	1.08	NA	NA
• Real change in defense expenditure	%	-4.6	4.7	63.6	NA	NA
• Defense expenditure/GDP	%	1.2	1.23	1.6	NA	NA
Population	m	6.1	6.2	6.3	6.4	6.4
Official exchange rate	LD : \$1	1.28	1.22	1.25	1.24	1.26

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

### Foreign Military Cooperation

Type	Details
• Security agreements	Algeria (2001), Italy (2009), Tunisia (2001), USA (2009)
• Joint maneuvers	Italy (2005), NATO (2008)

## Libya

### Arms Trade

#### Arms Procurement and Security Assistance Received

Country	Type	Details
Croatia	• Arms transfers	VP30 patrol boats (2007)
France	• Arms transfers	Upgrading of Mirage F1 aircraft (2010), MILAN ADT ATGMs (2009)
Italy	• Arms transfers	AW119 helicopters (2007); upgrading of SF-260 aircraft (2007); ATR-42 MP aircraft (2009); Border control system (2009); Bigliani FPBs (2009), AW139 helicopters (2010)
Portugal	• Military training	Training of Coast Guard (2009)
Russia	• Arms transfers	Upgrading of C-130 aircraft (2010)
UK	• Arms transfers	upgrade of Su-24 aircraft (2009), Molniya MFPBs (2009); upgrading of T-72 MBTs (2010), Yak-130 aircraft (2010), SA-24 SAMs (2010)
USA	• Arms transfers	Tactical communications (2008), coastal surveillance radars (2010)
	• Military training	Training of Special Forces (2009)
	• Military training	Training of Coast Guard (2009)

#### Defense Production

	M	P	A
<b>Weapons of mass destruction</b>			
• Toxic chemical agent	✓		
• Plans to upgrade SSMs, with assistance by foreign experts, and efforts to produce an indigenous SSM (al-Fatah), not yet operational	✓		
<b>Army equipment</b>			
• Surveillance equipment		✓	
• Upgrading of SF-260 training aircraft		✓	
• Tank upgrading facility, with assistance of Czech Republic		✓	

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

## Libya

### Strategic Assets

#### NBC Capabilities

##### Nuclear capabilities

5Mw Soviet-made research reactor at Tadjoura; Libya had a clandestine uranium enrichment program with a few thousand centrifuges. These were surrendered and removed in the framework of its steps to renounce its WMD programs.

Party to the NPT. Safeguards agreement with the IAEA in force. Signed but not ratified the African Nuclear Weapon-Free Zone Treaty (Treaty of Pelindaba).

##### Chemical weapons and protective equipment

CW production facilities, stockpile of chemical agents, nerve gas, and mustard gas. In the framework of its steps to renounce its WMD programs, work has been carried out to dismantle all past chemical weapons stockpiles. Libya also acceded to the CWC.

Personal protective equipment; Soviet type decontamination units.

##### Biological weapons

Alleged production of toxins and other biological weapons (unconfirmed).

Party to the BWC.

#### Ballistic Missiles

Model	Launchers	Missiles	Since	Notes
• Scud B	80	500	1976	
• Scud C			1999	Scud C missiles have been removed
<b>Total</b>	<b>~80</b>			

#### Space Assets

Model	Type	Notes
<b>Ground station</b>		
• BIRUNI	Remote sensing	Research center

#### Command and Control Assets

Name	Description
<b>Future procurement</b>	
Coastal surveillance	National coastal surveillance system, including coastal radars, to be constructed by Transas Marine.
Border security	Border security system, including command centers and ground surveillance radars, to be constructed by Selex Galileo.

## Libya

### Armed Forces

#### Order-of-Battle

Year	2007	2008	2009	2010	2011
<b>General data</b>					
• Personnel	76,000	76,000	76,000	76,000	+
• SSM launchers	80	80	80	80	+
<b>Ground Forces</b>					
• Number of brigades	1	1	1	1	+
• Number of battalions	46	46	46	46	+
• Tanks	650 (2,210)	650 (2,210)	650 (2,210)	650 (2,210)	+
• APCs/AFVs	2,230 (2,520)	2,230 (2,520)	2,230 (2,520)	2,230 (2,520)	+
• Artillery (including MRLs)	2,320 (2,400)	2,320 (2,400)	2,320 (2,400)	2,320 (2,400)	+
<b>Air Force</b>					
• Combat aircraft	260 (386)	260 (386)	260 (386)	266 (386)	+
• Transport aircraft	78 (83)	83 (88)	83 (88)	83 (88)	+
• Helicopters	109 (186)	117 (194)	117 (194)	124 (201)	+
<b>Air Defense Forces</b>					
• Heavy SAM batteries	~30	~30	~30	~30	+
• Medium SAM batteries	~17	~17	~17	~17	+
• Light SAM launchers	55	55	55	55	+
<b>Navy</b>					
• Submarines	0(2)	0(2)	0(2)	0(2)	+
• Combat vessels	17	17	17	17	+
• Patrol vessels	6	6	12	12	+

\* Due to change in estimate.

## Libya

### Personnel

	Regular	Reserves	Total
Ground Forces	50,000		50,000
Air Force and Air Defense	18,000		18,000
Navy	8,000		8,000
<b>Total</b>	<b>76,000</b>		<b>76,000</b>
<b>Paramilitary</b>			
• People's Militia	40,000		40,000
• Revolutionary Guards (part of the People's Militia)	3,000		3,000
• Islamic Pan African Legion (part of the People's Militia)	2,500		2,500

### Ground Forces

#### Formations

	Independent brigades / groups	Independent battalions
Presidential Security Force	1	
Armored		10
Mechanized/Infantry	1	21
Artillery		22
Paratroops		15
Air Defense		8
SSM	5	
<b>Total</b>	<b>7</b>	<b>76</b>

#### Tanks

Model	Quantity	In service	Since	Notes
<b>MBTs</b>				
<b>High quality</b>				
• T-72/T-72M	360	150	1979	To be upgraded
<b>Medium and low quality</b>				
• T-62	600	+	1975	
• T-55	1,250	+	1974	
Subtotal	1,850	~500		
<b>Total</b>	<b>2,210</b>	<b>~650</b>		

## Libya

### APCs/AFVs

Model	Quantity	In service	Since	Notes
<b>APC</b>				
• Engesa EE-9/11	300	200	1975/1977	
• BTR-50/60	750	750	1970	
• M-113 A1	50	~30	1972	
• OT-62/OT-64	200	100	1975	
Subtotal	1,300	~1,080		
<b>IFV</b>				
• BMP-1/BMP-2	1,050	1,050	1972	
<b>Reconnaissance</b>				
• BRDM-2	220	100		
• Engesa EE-9	+	+	1975	Also listed under APCs
Subtotal	220	100		
<b>Total</b>	<b>2,520</b>	<b>~2,230</b>		
<b>Future procurement</b>				
• Nimer	120			

### Artillery

Model	Quantity	In service	Since	Notes
<b>Self-propelled guns and howitzers</b>				
• 155mm Palmaria	210	210	1983	
• 155mm M109	20	0	1973	
• 152mm ZTS Dana	80	80	1986	
• 152mm M-1973	60	60	1982	
• 122mm M-1974	130	130	1980	
Subtotal	500	480		
<b>Towed guns and howitzers</b>				
• 130mm M-46	330	330	1978	
• 122mm D-30	245	245		
• 122mm D-74	60	60		
• 105mm M-101	60	0	1970	
Subtotal	695	635		
<b>Mortars, over 160mm</b>				
• 240mm	120	120		
• 160mm	24	24		
Subtotal	144	144		

## Libya

Model	Quantity	In service	Since	Notes
<b>Mortars, under 160mm</b>				
• 120mm	48	48		
• 107mm	64	64		
Subtotal	112	112		
<b>MRLs</b>				
• 140mm	+	+		
• 130mm M-51	+	+	1980	
• 122mm BM-21/ RM-70/BM-11	600	600	1980	
• 107mm Type 63	300	300	1979	
Subtotal	~900	~900		
<b>Rockets</b>				
• FROG-7	48	48		
<b>Total</b>	<b>~2,400</b>	<b>~2,320</b>		

### Anti-Tank Missiles

Model	Launchers	Missiles	Since	Notes
• AT-3 (Sagger)	+	620	1977	
• AT-4 (Spigot)	+	+	1990	
• AT-5 (Spandrel)	+	+		
• BRDM-2	40			Carrying AT-3
• MILAN ADT-ER	+	+	2009	
<b>Total</b>	<b>+</b>	<b>+</b>		

### Air Force

#### Order-of-Battle

Category	Quantity	In service	Notes
• Combat	386	266	
• Transport	88	83	
• Helicopters	201	124	



## Libya

### Combat Aircraft

Model	Quantity	In service	Since	Notes
<b>Interceptors</b>				
• MiG-25/25R (Foxbat)	80	~50	1980	
• MiG-23	160	120	1976	Also listed under Ground Attack aircraft
Subtotal	250	~170		
<b>Multi-role</b>				
• Mirage F-1	25	12	1979	12 To be upgraded; Others are unserviceable
<b>Ground attack</b>				
• Su-24 (Fencer C)	6	6	1989	
• Su-20/22 (Fitter C)	40	40		
• MiG-23/27 (Flogger)				Also listed under Interceptor aircraft
Subtotal	46	46		
<b>Bombers</b>				
• Tu-22 (Blinder)	7	5	1974	
<b>Obsolete</b>				
• MiG-21 bis (Fishbed)	58	33		Some probably sold
<b>Total</b>	<b>386</b>	<b>266</b>		

## Libya

### Transport Aircraft

Model	Quantity	In service	Since	Notes
• An-26 (Curl)	15	10	1983	
• An-124 (condor)	2	2	2003	
• An-32	10	10	2004	Some in firefighting role
• C-130H Hercules/L-100-20/L-100-30	10	10	1970	Being upgraded
• An-74TK	5	5	2004	
• C-140 Jetstar	1	1		
• Fokker F-27-400/600	9	9	1981	
• IL-76 (Candid)	19	19	1979	Including about 4 tankers
• L-410 UVP	15	15		
• Mystère-Falcon 20/50	2	2	1981	
<b>Total</b>	<b>88</b>	<b>83</b>		

### Training and Liaison Aircraft

Model	Quantity	In service	Since	Notes
<b>Jet trainers</b>				
• G-2AE Galeb	120	80	1975	
• L-39 Albatross	177	110	1978	
Subtotal	297	190		
<b>Piston/Turbo-prop</b>				
• SF-260 LW	70	12	1977	
• Fouga Magister	12	0	1971	
Subtotal	82	12		
<b>Total</b>	<b>379</b>	<b>202</b>		
<b>Future procurement</b>				
• Yak-130	6			Delivery in 2011

## Libya

### Helicopters

Model	Quantity	In service	Since	Notes
<b>Attack</b>				
• Mi-24	69	43	1978	Including variants
<b>Medium transport</b>				
• Mi-8/17 (Hip)	25	25	1975	
• AB-212/205	2	2	1974	
• AW139	2	2	2010	Being delivered With border guards
• SA-321 Super Frelon	7	7	1971	Also employed in naval combat role
Subtotal	36	36		
<b>Light transport</b>				
• Alouette III	14	14	1971	Possibly with police
• Mi-2 (Hoplite)	35	0		
• AB-206	4	4	1970	
• AW119 Koala	5	5	2009	MEDEVAC role
• AW109 Power	10	10	2007	With Police
Subtotal	68	33		
<b>Naval combat</b>				
• Mi-14 (Haze)	28	12	1983	
<b>Total</b>	<b>201</b>	<b>124</b>		
<b>Future procurement</b>				
• AW139	5			Being delivered

### Miscellaneous Aircraft

Model	Quantity	In service	Since	Notes
<b>Tankers</b>				
• Il-78	4	4	1980	
<b>Future procurement</b>				
• ATR-42 MP	4			

### Advanced Armament

#### Air-to-air-missiles

AA-2 (Atoll), AA-6 (Acrid), AA-7 (Apex), AA-8 (Aphid), AA-11 (Archer), R-530 (75), R-550 Magic (130), Super 530D/F

#### Air-to-ground missiles

AS-9 (Kyle), AS-10 (Karen), AS-14 (Kedge), AT-2 (Swatter), AT-6 (Spiral) (unconfirmed)

## Libya

*Note:* The number in parenthesis refers to the quantity of missiles purchased, not to current inventory levels.

### **Air Force Infrastructure**

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#### **Military airfields: 13**

Al-Adem (Tobruk), Benghazi (Baninah), Beni Walid, al-Bumbah, Ghurdabiyah (Surt), Jufra, Kufra, Maatan al-Sarra, Misratha, Ouqba ben Nafi (Al-Watiya), Sabhah, Tripoli International (Idriss), Umm al-Tika.

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## **Air Defense Forces**

### **Surface-to-Air Missiles**

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<b>Model</b>	<b>Batteries</b>	<b>Launchers</b>	<b>Since</b>	<b>Notes</b>
<b>Heavy missiles</b>				
• SA-2 (Guideline)	~15		1975	
• SA-3 (Goa)	~10		1975	
• SA-5 (Gammon)	4		1985	
<b>Total</b>	<b>~30</b>			
<b>Medium missiles</b>				
• Crotale	+		1974	
• SA-6 (Gainful)	6		1975	
• SA-8 (Gecko)	7	20		
<b>Total</b>	<b>~17</b>	<b>20</b>		
<b>Light missiles</b>				
• Igla-S Strelets (SA-24)		+	2010	
• SA-9 (Gaskin)/ SA-13 (Gopher)		55	1981	
<b>Shoulder-launched missiles</b>				
• SA-7 (Grail)		400	1979	
• SA-14 (Gremlin)		+		
<b>Total</b>		<b>~400</b>		

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*Note:* Serviceability of air defense systems is unclear.

## Libya

### Other Air Defense Systems

Model	Quantity	In service	Since	Notes
<b>Short-range guns</b>				
• 57mm S-60	90	90		
• 40mm Bofors L-70	50	0		
• 30mm 30x2 M-53/59 SP	240	0		
• 23mm ZSU 23x4 SP (Gun Dish)	250	250		
• 23mm ZU 23x2	100	100		
<b>Total</b>	<b>730</b>	<b>440</b>		

## Navy

### Submarines

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• F class (Foxtrot, Type 641)	0	91/2,475	2 non-operational 10x533mm torpedoes 44 mines
<b>Total</b>	<b>0</b>		

### Combat Vessels

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
<b>Missile frigates</b>			
• Koni class (Type 1159)	2	96.4/1,440	4xSS-N-2C Styx SSMs 2xSA-N-4 SAMs 4x76mm guns 4x30mm guns 4x406mm torpedoes 1xRBU 6000 A/S mortar 20 mines
<b>Missile corvettes</b>			
• Nanuchka class	1	59.3/660	4xSS-N-2C Styx SSMs 2xSA-N-4 SAMs 2x57mm guns
<b>MFPBs</b>			
• Combattante II	6	49.0/311	4xOtomat SSMs 1x76mm gun 2x40mm guns

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Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Ossa II	4	38.6/245	3 additional non-operational 4xSS-N-2C Styx SSMs 4x30mm guns 8 additional non-operational
• Ziffa (Hamlin)	1	37 m	Unknown.
<b>Subtotal</b>	<b>11</b>		
<b>Mine warfare vessels</b>			
• Natya class minesweepers (Type 266ME)	4	61.0/804	4x30mm guns 4x25mm guns 2xRBU 1200 A/S mortars 10 mines Acoustic & Magnetic sweep 5 additional non-operational
<b>Total</b>	<b>17</b>		
<b>Future Procurement</b>			
• Molniya (Project 12418)	3		4xP270 Moskit (SS-N-22) SSMs

### Patrol Craft

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Bigliani (MV115)	6	35/135	30mm guns
• PV30-LS	6	30/120	Being delivered
<b>Total</b>	<b>12</b>		
<b>Future Procurement</b>			
• PV30-LS	10	30/120	Being delivered

### Landing Craft

Type	Quantity	Length (m.)/ displacement (t.)	Notes / armament
• Turkish Ç-107 type	0	56.0/280	100 troops; 350 tons 1x80mm mortar 3 non-operational
• PS-700 class LST	2	99.5/2,800	240 troops; 11 tanks; 6x40mm guns 1x SA-316 Helicopter

## Libya

Type	Quantity	Length (m.)/ displacement (t.)	Notes / armament
• Polnochny class LCT (Type 773U)	0	83.9/1,305	4x30mm guns 2x140mm MRLs 100 mines
• Slingsby SAH-2200 Hovercraft	2	10.6/5.5	3 non-operational 1x12.7mm MG
<b>Total</b>	<b>4</b>		

### Auxiliary Vessels

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Vosper (Tobruk)	1	54.0/500	1x102mm gun 2x40mm guns used for training
• Zeltin (LSD type)	0	98.8/2,200	2x40mm guns Maintenance and repair craft – non operational
• Yelva	1	40.9/300	Diving-support ship
• Spasilac class	1	55.5/1,590	Yugoslav salvage ship 4x12.7mm MGs
• Transporters (Ro-Ro)	10	166.5/2,412	

### Coastal Defense

Type	Quantity	Notes
• SS-2C Styx	+ In 3 sites	

### Naval Infrastructure

Naval bases : 6

Al-Khums, Benghazi, Misratah, Tobruk, Tripoli, Derna

#### Ship maintenance and repair facilities

Facilities at Tripoli with foreign technicians for repair of vessels of up to 6,000 dwt; a 3,200-ton lift floating dock; floating docks at Benghazi and Tobruk

## Libya

### Non-governmental military forces

#### National Transitional Council (NTC)

##### Arms Procurement and Security Assistance Received

Country	Type	Details
France	<ul style="list-style-type: none"><li>Arms transfers</li><li>Military training</li></ul>	Small arms, RV (2011) Military advisers to the rebel forces (2011)
Italy	<ul style="list-style-type: none"><li>Military training</li></ul>	Military advisers to the rebel forces (2011)
Qatar	<ul style="list-style-type: none"><li>Arms transfers</li><li>Military training</li></ul>	Milan ATGMs (2011) Military advisers to the rebel forces (2011)
UK	<ul style="list-style-type: none"><li>Military training</li></ul>	Military advisers to the rebel forces (2011)

##### Equipment

type	system	quantity
Tanks	<ul style="list-style-type: none"><li>T-55</li><li>T-72</li></ul>	
APCs	<ul style="list-style-type: none"><li>BMP-1</li></ul>	
Artillery	<ul style="list-style-type: none"><li>107mm Type 63</li></ul>	
ATGMs	<ul style="list-style-type: none"><li>Milan</li></ul>	
AD systems	<ul style="list-style-type: none"><li>12.7mm ZAU-4</li></ul>	