

Turkey

19. TURKEY

Contents

Major Changes	1
General Data	1
Arms Trade.....	3
Strategic Assets	7
Armed Forces.....	9
Ground Forces.....	10
Air Force.....	13
Air Defense Forces	18
Navy.....	19
Major Non-Governmental Paramilitary Forces.....	25

Major Changes

- The Turkish air force received its latest batch of 30 F-16C/D aircraft, which bring its strength to 242 planes.
 - The Navy's first MILGEM corvette the entered service. A second corvette is being built, though contractors for the next corvettes have not yet being assigned. The project envisions 8 - 12 such corvettes.
 - NATO members agreed to deploy up to 6 MIM-104 Patriot air defense systems on Turkish soil, along its border with Syria. Germany agreed to deploy 2 batteries, the Netherland – additional 2 batteries, and the USA another two batteries.
-

General Data

Official Name of the State: Republic of Turkey

Head of State: President Abdullah Gül

Prime Minister: Recep Tayyip Erdoğan

Minister of National Defense: Ismet Yılmaz

Chief of General Staff: General Necdet Özel

Commander of the Ground Forces: General Hayri Kıvrıkoğlu

Commander of the Air Force: General Mehmet Erten

Commander of the Navy: Admiral Emin Murat Bilgel

Area: 780,580 sq. km.

Population: 74,700,000

Turkey

Demography

Ethnic group		
• Turkish	59,760,000	80%
• Kurdish	14,940,000	20%
Religious group		
• Sunni Muslims	59,611,000	79.8%
• Alevis (Shi'ite Muslims)	14,940,000	20.0%
• Other (Christians and Jews)	149,000	0.2%

Economic Data

		2007	2008	2009	2010	2011
• GDP (current prices)	\$ bn	649.1	730.3	614.4	731.3	774.3
• GDP per capita	\$	9,245	10,272	8,528	10,017	10,363
• Real GDP growth	%	4.7	0.66	-4.8	9.2	8.5
• Consumer price index	%	8.7	10.4	6.2	8.6	6.5
• External debt	\$ bn	258.4	289.5	278.0	299.9	307.0
• Current account balance	\$ bn	-38.43	-41.52	-13.37	-46.64	-77.14
Government expenditure						
• Government expenditure/GDP	%	33.3	34.1	38.0	35.9	34.8
• Defense expenditure	\$ bn	15.0	16.8	16.0	17.7	17.9
• Real change in defense expenditure	%	1.4	12.0	-4.8	10.6	1.1
• Defense expenditure/GDP	%	2.31	2.3	2.61	2.41	2.31
Population	m	70.2	71.1	72.0	73.0	74.7
Official exchange rate	TL:\$1	1.3	1.3	1.55	1.5	1.67

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

Foreign Military Cooperation

Type	Details
• Military forces deployed abroad	Afghanistan (1,800 troops in ISAF), Cyprus (35,000 troops), northern Iraq (1,000 troops), Israel (TIPH), Lebanon (UNIFIL), Somalia (CTF-151)
• Foreign forces	1,500 US troops (as of June 2011), 400 German troops, 350 Dutch troops.
• Joint maneuvers	Belgium (2009), China (2010), Egypt (2011), Germany (2008), Greece (2008), India (2011), Israel (2009), Italy (2008), Jordan (2010), Netherlands (2009) Pakistan (2012), Poland, Romania (2007), Syria (2010), UAE (2010), UK (2009), US (2012)
• Security agreements	Bosnia (2003), Chile (2004), Croatia (2001), France, Georgia (2001), Kazakhstan (2000), Kuwait (2009), Latvia, Mauritania (2005), Oman (2001), Pakistan

Turkey

Type	Details
	(2003), Saudi Arabia (2010), Syria (2009)

Arms Trade

Arms Procurement and Security Assistance Received

Country	Type	Details
EU	<ul style="list-style-type: none"> • Cooperation in arms production 	Participation in the A400M transport aircraft program (2011)
France	<ul style="list-style-type: none"> • Arms transfers 	AMASCOS Naval C ³ I system (2012)
Germany	<ul style="list-style-type: none"> • Arms transfers 	Leopard 2A4 MBTs (2009), Type 214 submarines (2009), Leguan AVLBs (2009)
Israel	<ul style="list-style-type: none"> • Arms transfers 	Heron UAVs (2012) , Dominator UAV (leased 2010)
Italy	<ul style="list-style-type: none"> • Cooperation in arms production 	upgrading of M60 tanks (2009), Kirpi MRAP (2010)
	<ul style="list-style-type: none"> • Arms transfers 	ATR-72 ASW aircraft (2011), Gokturk satellite (2009),
Japan	<ul style="list-style-type: none"> • Cooperation in arms production 	Sirio-class OPVs (2009), T129 Mangusta (2011), C-27J (2010)
	<ul style="list-style-type: none"> • Arms transfers 	TurkSat 4A/B (2011)
Saudi Arabia	<ul style="list-style-type: none"> • Arms transfers 	C-130E aircraft (2011)
South Korea	<ul style="list-style-type: none"> • Cooperation in arms production 	KT-1 aircraft (2010), XK-2 MBTs (2008), KF-X (2010)
US	<ul style="list-style-type: none"> • Arms transfers 	F-16 C/D aircraft (2009), S-70B Seahawk helicopters (2012), Boeing 737 AEW aircraft (2012), upgrading of F-16 aircraft (2010), ALQ-211 AIDEWS EW systems (2009), CH-47F Chinook helicopters (2011), AAQ-33 Sniper pods (2010), AH-1W Cobra helicopters (2012), AAQ-13 LANTIRN ER pods (2010), upgrading of KC-135 tankers (2010), Patriot PAC-3 (2010), F-35 JSF (2012), Bell 429 helicopters (2012), King Air 350 ISR aircraft (2012)
	<ul style="list-style-type: none"> • Cooperation in arms production 	T-70 Blackhawk Helicopters (2012)

Arms Sales and Security Assistance Extended

Country	Type	Details
Afghanistan	<ul style="list-style-type: none"> • Military training 	Instructors in country (2010), Training of Afghan cadets in Turkey (2010)
Azerbaijan	<ul style="list-style-type: none"> • Arms transfers 	TR-107, TR-122 MRLs (2011), Turna

Turkey

Country	Type	Details
		UAVs (2010) Cobra APCs (2011), 155mm Firtina SP guns (2012)
Bahrain	• Arms transfers	Cobra APCs (2010), Arma APCs (2011)
Bangladesh	• Arms transfers	Cobra APCs (2010)
Egypt	• Arms transfers	MRTP-20 BPs (2011)
Germany	• Facilities	Positioning of 2 Patriot PAC-3 batteries on the Turkish border (2012)
Georgia	• Arms transfers	Ejder APCs (2009), MRTP-33 PBs (2009)
Kazakhstan	• Cooperation in arms production	Aselflir (2011), Cobra APCs (2012)
Malaysia	• Arms transfers	Pars APCs (2011), MRTP-16 PBs (2011)
NATO	• Facilities	HQ LANDSOUTHEAST, HQ 6 ATAF
Netherlands	• Arms transfers • Facilities	Mounted Stinger SAMs (2009) Positioning of 2 Patriot PAC-2 batteries on the Turkish border (2012)
PA	• Military training	Training Hamas Internal Security forces (2010)
Pakistan	• Arms transfers	Upgrading of F-16 aircraft (2010), Kaan- 33 and Kaan-15 PBs (2011)
	• Military training	Pilots training in Turkey (2012)
Philippines	• Arms transfers	ACV APCs (2010)
Qatar	• Arms transfers	Gozcu UAVs (2011), Bayraktar UAVs (2012)
Romania	• Arms transfers	SNR-17 patrol boats (2010)
Saudi Arabia	• Arms transfers	Upgrading of M113 APCs (2011)
Slovenia	• Arms transfers	Cobra APCs (2009)
South Korea	• Arms transfers	EW training range (2012)
Turkmenistan	• Arms transfers	NTPBs (2012)
UAE	• Arms transfers	TR-122 MRLs (2009), MRTP-16 PBs (2011), Pars APCs (2011), Patriot PAC- 3 (2011)
US	• Cooperation in arms production • Facilities	Participation in JSF program (2009) Use of air bases in Incirlik and Konya, Positioning of TPY-2 radar (2011), Positioning of 2 Patriot PAC-2 batteries on the Turkish border (2012)

Defense Production

	M	P	A
Weapons of mass destruction			
• Chinese WS-1 rockets		√	
• NBC protection suites	√		

Turkey

	M	P	A
Army equipment			
• Altay (XK-2) MBTs		√	
• FNSS ACVs and AIFVs	√		
• Piranha II and Fennek AFVs			√
• Kirpi MRAP		√	
• Akrep, Cobra, Dragon, Ejder, Kaya, Land Rover, Pars, and Otokar APC armored vehicles	√		
• Toros 230mm and 260mm MRLs	√	√	
• 155mm Panter (towed) and 155mm Firtina SP guns	√		
• OTMAS, UTMAS ATGMs	√	√	
• Upgrading of Leopard-1/ 2 and M60 MBTs	√		√
• Upgrade of 105mm and 155mm SP guns	√		
• Transforming of M48T5 into ARV and AEV vehicles	√	√	
• Dalkilic, Peri, Talos UGV	√		
• 120mm SP mortars	√		
• 107mm, 122mm and 300mm Kasirga MRLs	√	√	
• J-600T Yildirim artillery rockets	√	√	
• 25mm guns			√
• PARS AAB and AZMIM AECV vehicles	√		
• National HET tank transporters		√	
• Hellfire ATGM mounted on ACVs	√	√	
• Trucks and wheeled tactical vehicles	√		
Air Force equipment			
• F-16 aircraft		√	
• Cougar helicopters		√	
• T129 Mangusta attack helicopters		√	
• SF-260D, KT-1 and Hurkus basic trainers		√	
• CN-235 light transport aircraft		√	
• Upgrading of F-16 , F-4E and F-5 aircraft			√
• Upgrading of C-130 aircraft		√	
• Upgrading of T-38 training aircraft	√		
• Participation in the production of A-400M and F-35 JSF aircraft		√	
• Participation in production of MD Explorer helicopter		√	
• Participation in production of PAC-3 SAMs for the UAE		√	
• Production of fuselage for AB 139 helicopter		√	
• Anka UAVs	√		
• Aeroseeker, Bayraktar, Caldiran, Karayel, Malazgirt, Mosquito, Turna, and X2 UAVs	√		
• Modification of S-2E, CN-235, and ATR-72 maritime patrol aircraft		√	
• Bora, Atiligan and Zipkin, LALADMIS air defense systems	√	√	
• 35mm Oerlikon SPAAGs	√	√	
• Cirit laser-guided rockets	√		

Turkey

	M	P	A
• HGK, GGB GPS-guided bombs	√		
• SOM ALCM	√		
• NEB Laser-guided penetration bomb	√		
• Popeye AGM missiles		√	
• Paveway II Laser-guided bombs		√	
• Rapier surface-to-air missiles		√	√
• Fight simulators for AS-532, CN-235, F-16, F-4, KT-1T, S-70 aircraft	√	√	
• Jet engines		√	
Naval equipment			
• Gur class submarines		√	
• Type 214 submarines		√	
• Atilay class submarines			√
• Milgem, TF-2000 corvettes	√		
• Kilic-2 class MFPBs		√	
• Berk class missile frigates			√
• Yildiz class and Dogan class MFPBs			√
• Sirio class OPVs		√	
• MHV 55 Minehunters		√	
• Yonca, Dearsan PBs	√		
• LCT, LST, LPD	√		
• Towing vessels (RATSHIP), submarine rescues ship (MOSHIP)	√		
• Torpedoes	√		
• Sea Sentor SSTD anti-torpedo defense system		√	
• Osman Gazi landing craft			√
Electronics			
• Land-based and naval EW sets	√		
• Navigation systems	√		
• MARS V observation and surveillance system	√		
• AselFLIR-200/300 thermal imaging systems	√		
• SyAR SAR system for UAVs	√		
• Aselpod Targeting pod	√		
• JAMINT airborne jamming system	√		
• ECM systems for helicopters		√	
• ARS-2000 Ground surveillance radars	√		
• Tactical communication systems	√	√	
• ADOP, BAIKS, Volkan fire-control systems	√		
• Aerial mission control computer	√		
• EW training range	√		
• Sonar systems	√		
• HF/SSB radios		√	
• ALQ-178 (V) EW systems for F-4s and F-16s		√	
• ADR, D-IX, Kalkan 3D, P-STAR, and TRS-22XX air	√	√	

Turkey

	M	P	A
surveillance radars			
• C ³ I systems		√	
Optronics			
• Optical targeting devices/ FLIR		√	
• Night-vision equipment	√	√	
• Laser range-finders	√		
Satellites			
• ITUpSAT research satellite	√		
• RASAT remote sensing satellite	√		
• BILSAT remote sensing satellite	√		
• TURKSAT civilian communication satellite	√		

Note: M - manufacture (indigenously developed)

P - production under license

A - assembly

Strategic Assets

NBC Capabilities

Nuclear capability

One 5Mw TR-2 research reactor at Cekmerce and one 250kw ITV-TRR research reactor at Istanbul. Turkey intends to Build a 1,200Mw reactor in Akuyu . As a member of NATO, nuclear weapons were deployed in Turkey in the past, and might be deployed again.

Party to the NPT. Safeguards agreement with the IAEA in force.

Chemical weapons and protective equipment

Personal protective suits; portable chemical detectors; Fox detection vehicles.

Party to the CWC.

Biological weapons

No known BW activity. Party to the BWC.

Ballistic Missiles

Model	Launchers	Missiles	Since	Notes
• ATACMS	12	72	1997	Using MLRS launchers
• J-600T Yildirim	6	+	2007	
Future procurement				
• SSM				Indigenously developed missiles with 2,500km range.

Turkey

Space Assets

Model	Type	Notes
Ground stations		
• BILTEN	Remote sensing	Receiving imagery from Bilsat
• SAGRES	Remote sensing	Receiving imagery from SPOT, ERS, RADARSAT and NOAA
Satellites		
• ITUpSat-1	Research	Private research satellite, indigenously built.
• Turksat	Communication	Both civilian and military; both 2A and 3A are currently in orbit.
• Bilsat	Remote sensing	120kg payload, 686 km orbit, 12m resolution Earth observation civilian satellite
• RASAT	Remote sensing	Multispectral camera, 690 km orbit, 7.5m resolution Earth observation satellite
• Gökürk-2	Reconnaissance	Multispectral camera, 690 km orbit, 2.5m resolution earth observation satellite
Satellite imagery		
• Ikonos	Reconnaissance	commercial satellite imagery
Future procurement		
• TurkSat-4A/4B	communication	To be build by Mitsubishi Electric, launch in 2013, 2014.
• Gokturk-1	Reconnaissance	To be build by Telespazio, launch in 2013.

Command and Control Assets

Name	Description
Air defense	
TICCS	National Early warning radar system, linking regional and national air defense command centers.
Sky Watcher (HERIKKS)	Command and control system for AD assets. Providing early warning, and distributing threats and targets between AD batteries.
Naval surveillance	
IMSS (MELTEM)	Costal surveillance radars and patrol aircraft, linked to regional and national command centers.
Border security	
Integrated Border Management	Infrared and CCD sensors deployed along the border, linked to regional command centers. 390 border patrol stations.

Turkey

Armed Forces

Order-of-Battle

Year	2008	2009	2010	2011	2012
General data					
• Personnel (regular)	421,000	421,000	421,000	421,000	421,000
• SSM launchers	18	18	18	18	18
Ground Forces					
• Divisions	3	3	3	3	3
• Total number of brigades	55	55	55	55	55
• Tanks	2,800 (4,470)	2,890 (4,460)	2,890 (4,460)	2,890 (4,460)	2,890 (4,460)
• APCs/AFVs	6,733	6,733	6,733	6,800	6,800
• Artillery (including MRLs)	4,500 (4,800)	4,500 (4,800)	4,500 (4,800)	4,500 (4,800)	4,500 (4,800)
Air Force					
• Combat aircraft	356 (400)	355 (399)	355 (399)	365 (388)*	388
• Transport aircraft	83 (92)	92	92	92	92
• Helicopters	412 (430)	409 (427)	409 (427)	348 (426)*	345 (422)
Air Defense Forces					
• Heavy SAM batteries	24	24	24	16*	22
• Light SAM launchers	196	196	196	200	238
Navy					
• Submarines	14	14	14	14	14
• Combat vessels	83	69	69	69	69
• Patrol craft	117	97*	98	98	98

* Due to change in estimate

Personnel

	Regular	Reserves	Total
Ground Forces	402,000	258,000	567,000
Air Force	60,000	65,000	125,000
Navy	46,000	55,000	108,000
Total	421,000	379,000	800,000
Paramilitary			
• Coast Guard	3,200		3,200
• Gendarmerie/ National Guard	100,000	50,000	150,000

Turkey

Ground Forces

Formations

	Corps / armies	Divisions	Independent brigades / groups	Independent battalions	Brigades in divisions
All arms	4 armies 9 corps				
Armored Mechanized		2	14 17		1 armd., 2 mech., 1 aty. each
Infantry		1	9		4 inf., 1 aty. each
Commando Presidential Guard			6 1 (reg.)		
Border Defense			5 (reg.)	26	
Coastal Defense (reserve)			4	23	
Marines			1		
Total		3	55	49	

Tanks

Model	Quantity	In service	Since	Notes
MBTs				
High quality				
• M60T Sabra	170	170	2007	Being upgraded from existing M60A3
• Leopard 2A4	300	300	2006	Form German drawdown
Subtotal	470	470		
Medium and low quality				
• Leopard 1T	170	170	2009	Locally upgraded
• Leopard A1/A3	220	220	1982	
• M60 A1/A3	730	730	1992	
• M48T	2,870	~1,300	1984	Some possibly in storage
Subtotal	3,990	2,420		
Total	4,460	2,890		
Future procurement				
• XK-2 Altay	250			Prototype by 2014
• Leopard 2A4	40			Under negotiation

Turkey

APCs/AFVs

Model	Quantity	In service	Since	Notes
APCs				
• ACV AAPC	1,700	1,700	1997	
• BTR-80	240	240	1993	
• BTR-60	340	340	1991	
• Kirpi MRAP	70	70	2011	
• M113 A1/A2T2	2,815	2,815	1975	
• S-55	40	40	1995	
Subtotal	5,205	5,205		
IFVs				
• Condor	25	25	1988	
• UR-416	35	35	1984	
• ACV AIFV	868	868	1997	Including 170 AMVs and 48 ATVs
Subtotal	928	928		
Light Armored Vehicles				
• Cobra	410	410	2002	
• Akrep	260	260	1994	
Subtotal	670	670		
Total	~6,800	~6,800		
Future procurement				
• Cobra	400			To be delivered by 2013.
• Kirpi MRAP	468			To be delivered by 2013.

Artillery

Model	Quantity	In service	Since	Notes
Self-propelled guns and howitzers				
• 203mm M110	219	219	1981	
• 203mm M-55	9	9	1978	
• 175mm M107	36	36	1976	
• 155mm Firtina	180	180	2003	
• 155mm M44T	222	222	1992	
• 155mm M52T	365	365	1995	
• 105mm M108	26	26	1982	
Subtotal	1,057	1,057		

Turkey

Model	Quantity	In service	Since	Notes
Towed guns and howitzers				
• 203mm M115	162	162	1983	
• 155mm Panter	24	24	2002	
• 155mm M114	517	517	1979	
• 155mm M59	171	0	1975	
• 150mm Skoda	128	0	1976	
• 105mm M101/ M102	640	640	1974	
Subtotal	1,642	1,343		
Mortars, under 160mm				
• 120mm	578	578	1981	
• 107mm M30	1,265	1,265	1974	
• 107mm M106 SP	+	+	1984	
• 81mm AMV SP	170	170	1997	Mounted on ACV
Subtotal	~2,050	~2,050		
Rockets				
• 302mm TR-300 Kasirga	30	30	2000	Variant of Chinese WS-1 rockets.
MRLs				
• 227mm MLRS	12	12	1988	
• 122mm T-122	+	+		
• 107mm T-107	48	48	1975	
Subtotal	~70	~70		
Total	~4,850	~4,550		
Future procurement				
• 155mm Firtina SP2000/ 155mm K9	300			Delivery in progress

Ground Surveillance

Model	Quantity	In service	Since	Notes
Artillery/mortar locating radars				
• AN/TPQ- 37	4	4	1997	
• AN/TPQ- 36	7	7	1988	
• Stentor	5	5	1988	
• Blindfire	13	13	1996	
• Cobra	2	2	2006	
Surveillance Radars				
• ARS-2000	+	+	1996	
Optical Surveillance				
• BAA	150	150	2003	

Turkey

Logistic and Engineering Equipment

Mine laying and clearing, bar mine-clearing system, Leguan AVLBs (36), M48 AECVs (20), National HET, Pars AVLBs (52)

Future procurement

AZMIM AECV (12), Scania HET (45), Firtina AARV (70)

Anti-Tank Missiles

Model	Launchers	Missiles	Since	Notes
• Kornet-E (AT-14)	80	800	2009	
• Milan	392	+	1984	
• TOW SP	365	+	1980	48 of which are on ACV ATV
• Cobra	186	+	1977	
Total	1,023			

Air Force

Order-of-Battle

Category	Quantity	In service	Notes
Combat	388	388	
Transport	92	92	
Helicopters	422	345	

Combat Aircraft

Model	Quantity	In service	Since	Notes
Advanced multi-role				
• F-16C/D	242	242	1987	165 aircraft to be upgraded locally.
Multi-role				
• F-4E 2020	49	49	1999	listed also as reconnaissance
• F-4E	38	38	1973	
Subtotal	88	88		
Obsolete				
• F-5A/B	58	58	1965	
Total	388	388		
Future procurement				
• F-35 JSF	2			Delivery in 2015; Total requirement for 100 aircraft

Turkey

Model	Quantity	In service	Since	Notes
• F-16 CCIP	165			Upgrading of existing aircraft, to be completed by 2014.

Transport Aircraft

Model	Quantity	In service	Since	Notes
• C-160D	18	18	1971	Some in EW role
• C-130E	7	7	1964	To be upgraded
• C-130B	6	6	1991	To be converted to EW role
• Citation (VIP)	5	5	1985	
• CN-235	56	56	1991	2 employed in EW role, further 9 in MP.
Total	92	92		
Future procurement				
• C-130E	6			From Saudi drawdown
• A-400M	9			Delivery to begin in 2013.

Training and Liaison Aircraft

Model	Quantity	In service	Since	Notes
Jet trainers				
• F-5 2000	45	45	2002	
• T-38M	1	1	2012	Locally upgraded
• T-38 (F-5)	70	70	1965	
• Cessna 318 (T-37)	55	55	1960	To be phased out by 2013
Subtotal	170	170		
Piston/Turbo-prop				
• KT-1T	40	40	2010	Being delivered
• TB-20	7	7	2000	
• SF-260D	39	39	1990	
• Cessna 172 (T-41)	51	51	1972	26 with Army Aviation
Subtotal	100	100		
Total	272	272		
Future procurement				
• T-38M	55			Upgrading of existing aircraft

Turkey

Helicopters

Model	Quantity	In service	Since	Notes
Attack				
• AH-1W/P	29	29	1990	With Army Aviation
Medium transport				
• AS-532 Cougar	47	47	1995	26 With Army Aviation
• Mi-17	18	0	1995	With gendarmerie
• S-70A Blackhawk	80	80	1992	35 with gendarmerie
• AB-412EP	14	14	2003	With Coast Guard
• UH-1H/AB-204/ AB-205	139	80	1966	Including 3 with Naval Aviation
Subtotal	298	221		
Light transport				
• MD 600N	10	10	2005	With Police
• AB 206	32	32	1968	3 with Coast Guard
• H-300C	28	28	1982	With Army Aviation
• OH-58B	3	3	1994	With Army Aviation
Subtotal	73	73		
Naval attack				
• AB-212	14	14	1985	12 with Navy, in ASW role and 2 with Army Aviation
• S-70B Seahawk	8	8	2002	
Subtotal	22	22		
Total	422	345		
Future procurement				
• T-70 Blackhawk	109			Under negotiations
• Bell 429	15			For Police air wing
• CH-47F Chinook	6			Delivery beginning in 2013
• T129 Mangusta	59			Delivery beginning in 2013, option for 41 additional
• S-70B Seahawk	16			Delivery by 2013

Turkey

Miscellaneous Aircraft					
Model	Quantity	In service	Since	Notes	
Reconnaissance					
• RF-4E	11	11	1977	Also listed under Combat Aircraft	
ELINT/EW					
• C-160 EW	+	+	1990	Also listed under Transport Aircraft	
• CN 235	2	2	1991	Also listed under Transport Aircraft	
• King Air 350 ISR	1	1	2012	On lease from USA	
Maritime surveillance					
• CN-235 MP	9	4	2007		
• ATR-72 ASW	1	1	2008	Being delivered	
• Maule MX 7	1	1	1993	With Coast Guard	
Tankers					
• KC-135R	7	7	1995	Being upgraded	
UAVs					
• Heron UAVs	10	7	2008		
• MQ-1 Predator	4	4	2011	Operated by US military	
• Harpy attack drones	108	108	2002		
mini-UAVs					
• Malazgirt mini-UAVs	2	2	2010	With Gendarmerie	
• Gnat 750	2	2	1994		
• Bayraktar mini-UAVs	78	78	2010		
Target drones					
• Turna	+	+	2001		
Future procurement					
• Anka UAVs	10				
• ATR-72 ASW	10			Delivered by 2012	
• Boeing 737 AEW	4			Delivery in 2012	
• Caldiran UAVs	12			Delivery in 2014	
• Karayel	6				
• King Aie 350 ISR	5			On lease from USA	

Turkey

Advanced Armament

Air-to-air-missiles

AIM-7E Sparrow (690), AIM-9E/F Sidewinder (210), AIM-9J/M/S/P Sidewinder (1,460), AIM-9X sidewinder (127), AIM-120 AMRAAM (138)

Air-to-ground-missiles

AGM-65 A/G/F Maverick (300), AGM-84K SLAM-ER (57), AGM-88 HARM (100), AGM-142 PopeyeI/II (100), AGM-154 JSOW (104), BLU-107 Durandel (523), CBU-97 WCMD (100), Cirit Laser-guided rocket (100), Hellfire II (200), JDAM (500), Penguin SSM (16), Sea Skua (36)

Avionics

AAQ-13 LANTIRN (24), ALQ-178 SPEWS-2 ECMs (146)

Future procurement

ALQ-178 (V) ECMs (80), AIM-9X sidewinder (105), Mk-54 Lightweight Torpedoes (100), AWW-13 data-link pods (10), ALQ-211 AIDEWS ECMs (30), Aselpod reconnaissance pods, AIM-120 AMRAAMs (107), AAQ-33 SNIPER pods (30), Utmas ATGM, AAQ-13 LANTIRN ER (30), SOM ALCM

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

Air Force Infrastructure

Military airfields 23

Adnan-Menderes, Afyon, Akhisar, Akinci, Ankara-Güvercinlik, Balikesit, Bandirma, Dalaman, Diyarbakir, Elazig, Erhac, Erkilet, Erzincan, Eskisehir, Istanbul-Sarigazi, Izmir-Kaklic, Kayseri, Konya, Malatya, Merzifon, Murted, Yalova, Yesilkoy

Turkey

Air Defense Forces

Surface-to-Air Missiles

Model	Batteries	Launchers	Since	Notes
Heavy missiles				
• MIM-104 Patriot PAC-2/3	6		2013	Deployed and operated by NATO forces from Germany, Netherlands, and USA.
• MIM-23 I-Hawk PIP-2	8		2006	
• Nike Hercules	8		1970	8 squadrons, 24 batteries; Operational status doubtful
Total	22			
Light missiles				
• Rapier B1X		78	1999	Upgraded
• Zipkin/ Atilgan		158	2004	Stinger SP
Total		236		
Shoulder-launched missiles				
• Stinger		108	1991	
• Redeye		790	1986	
Total		~900		
Future procurement				
• LALADMIS	72			

Other Air Defense Systems

Model	Quantity	In service	Since	Notes
Air-defense systems				
• ADOP-2000 FCS	+	+	2010	Locally produced FCS
Short-range guns				
• 40mm L60/70	800	800	1970	
• 40mm T1	40	40		
• 40mm M42 A1 SP	260	260	1976	
• 35mm GDF-003	120	120	1984	
• 20mm GAI-DO1	440	440	1975	
Total	1,660	1,660		
Radars				
• AN/FPS-117	1	1	1993	

Turkey

Model	Quantity	In service	Since	Notes
• AN/TPS-59	+	+		
• AN/TPY-2	1	1	2011	Operated by US military.
• HR-3000 (HADR)	3	3	1990	
• Kalkan 3D	+	+	2010	Being delivered
• MPQ-64 Sentinel	9	9	1998	
• TRS-2100 (Tiger)	2	2	1988	
• TRS-22XX	14	14	2001	
• TRS-2000	4	4	1999	
• RAT-31DL	4	4	2001	
Future procurement				
• 35mm SPAAG	2			Developed by Aselsan
• Kalkan 3D	13			Being delivered
• P-STAR	+			

Navy

Submarines

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Atilay (Type 1200)	6	61.2/1,185	8x533mm torpedoes
• Gur (Type 1400)	4	62/1,586	2xSub Harpoon SSMs 8x533mm torpedoes mines
• Preveze (Type 1400)	4	62/1,586	2xSub Harpoon SSMs 8x533mm torpedoes mines
Total	14		
Future procurement			
• Type 214	6		Deliveries beginning 2015

Turkey

Combat Vessels

Type	Quantity	Length (m./ displacement (t.))	Notes/armament
Frigates			
• Barbaros (MEKO 200 track II-A/B)	4	116.7/3,350	Being upgraded with Genesis and ESSM 1xAB-212 ASW helicopter 8xHarpoon SSMs 2xSeasparrow 8 SAMs 6x324mm torpedoes 1x127mm gun 3xOerlicon 25mm AD gun
• Yavuz (MEKO 200)	4	115.5/2,414	1xAB-212 ASW helicopter 8xHarpoon SSMs 6x324mm torpedoes 8xSeasparrow SAMs 1x127mm gun 3xOerlicon 25mm AD guns
• Gaziantep (Oliver Perry class)	8	135.6/3,638	Being upgraded with Genesis and ESSM 1xS-70B ASW helicopters 4xHarpoon SSMs 36xStandard SAMs 6x324mm torpedoes 1x76mm gun 1x20mm Phalanx AD gun
• Tepe (Knox class)	1	134/3,011	1xAB-212 ASW helicopter 8xHarpoon SSMs 1xASROC Mk112 8 torpedo launcher 4x324mm torpedoes 1x20mm Vulcan Phalanx AD gun 1x127mm gun
• Burak (d'Orves Type 69A)	6	80.5/1,175	2xMM 38 Exocet SSMs 2xMistral SAMs 1x100mm gun 2x20mm guns 4xECAN L5 torpedoes 1x Creusot 375mm

Turkey

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
Subtotal	23		Mk54 ASW mortar
Corvettes			
• Heybeliada (Milgem)	1	99.5/2,300	Being delivered 1x helicopter deck
MFPBs			
• Doğan class	8	58.1/436	8xHarpoon SSMs 1x76mm gun 2x35mm guns
• Kiliç class	8	57.8/433	8xHarpoon SSMs 1x76mm gun 2x40mm gun
• Yıldız class	2	57.8/433	8xHarpoon SSMs 1x76mm gun 2x35mm guns
• Kartal (Jaguar class)	8	42.5/160	2-4xPenguin SSMs 2x533mm torpedoes 2x40mm guns 4 mines
Subtotal	26		
Mine warfare vessels			
• Aydın MHV-54 (Type 332MJ)	6	54.5/715	1x30mm gun Type 2093 active sonar PAP 104 Mk 5 mechanical sweep
• Edincik (Circé class)	5	50.9/495	1x20mm gun Mintac Robot seeker/ destroyer DUBM 20B active sonar
• Silifke class (MSC 289)	5	43/320	2x20mm guns UQS-1D Sonar
• Foça (Cove class)	4	34/180	1x12.7 MG
Subtotal	20		
Total	69		
Future procurement			
• TF-2000	6	6,000 ton	Delivery to begin in 2018
• Milgem AD corvetes	2	99.5/2,300	Being delivered. Total requirement for 12 vessels.

Patrol Craft

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Dost (Sirio class) OPV	2	88.6/1700	Being delivered

Turkey

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Tuzla (P 1200 NTPB)	2	55.8/400	1xAB 412 helicopter 1x76mm gun 2x25mm guns Being delivered 1xAselsan ASW mortar 2x40mm guns 2x12.7mm MGs Simrad SP92 sonar
• Hisar class (PC – 1638)	1	53/325	1x Mk 15 Hedgehog ASW rocket launchers 1x40mm gun 4x20mm guns
• Trabzon class	1	50/370	1x40mm gun 2x12.7mm MGs
• Karamürsel (Vegasack class)	5	47.3/362	2x20mm guns
• Turk class	6	40.2/170	1x Mk 20 Mousetrap ASW rocket launcher 2x40mm guns 1x20mm gun 2x12.7mm MGs
• PGM-71 class	4	30.8/130	2x Mk 22 Mousetrap ASW rocket launchers 1x40mm gun 4x20mm guns
• Taskizak (Large patrol craft)	13	40.7/195	1x40mm gun 2x12.7mm MGs (with Coast Guard)
• Gölcük (Large patrol craft)	14	40.2/180	1x40mm gun 2x12.7mm MGs (with Coast Guard)
• SAR 33 Type	10	34.6/180	1x40mm gun 2x12.7mm MGs (with Coast Guard)
• SAR 35 Type	4	36.6/210	1x40mm gun 2x12.7mm MGs (with Coast Guard)
• KW 15 class	3	28.9/70	1x40mm gun 2x20mm guns (with Coast Guard)
• Kaan 33 (MRTP 33)	13	35.7/124	4x12.7mm MGs (with Coast Guard)
• Kaan 29 (MRTP 29)	9	31/ 98	4x12.7mm MGs (with Coast Guard)
• Coastal patrol craft	11	14.6/29	1x20mm or 1x12.7mm MG

Turkey

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Inshore patrol craft	1	11.6/10	(with Coast Guard) 1x12.7mm MG
• Harbor patrol craft	1	17/35	(with Coast Guard) (with Coast Guard)
Total	98		
Future procurement			
• Kaan 33 (MRTP 33)	9	35.7/124	
• Taskizak (Large patrol craft)	5	40.7/195	
• Sirio class OPV	4	88.4/1700	Delivery in progress, up to 2014.
• Tuzla (New Type) PBs	16	55.7/400	Delivery in progress, up to 2014.

Landing Craft

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Osman Gazi (LST)	1	105/3,773	900 troops, 15 tanks 4 LCVPs 3x40mm guns 2x35mm guns 2x20mm guns
• Sarucabey (LST)	2	92/2,600	600 troops, 11 tanks 2 LCVPs 3x40mm guns 4x20mm guns
• Ertuğrul (Terrebonne Parish LST)	2	117.1/5,800	395 troops, 2,200 ton 4 LCVPs 6x76mm guns
• LCM-8	16	22/113	140 troops or 60 ton 2x12.7mm MGs
• C-151 LCT	8	80/1,155	420 ton capacity
• C-107 LCT	25	59.6/600	100 troops, 5 tanks 2x20mm guns 2x12.7mm MGs
Total	46		
Future procurement			
• LST	2	138/7,125	To be delivered in 2015 Helicopter deck 2x40mm guns 2x20mm Phalanx 1200 ton capacity 320 troops 4 LCVPs

Turkey

Auxiliary Vessels

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Tankers	8	1,440-19,000	2x20mm guns
• Water tankers	9	300-1,200 tons	
• Çubuklu Survey	1	40.5/680	2x20mm guns
• Mesaha survey ship	2	15.9/38	
• Silas bay class survey ships	2	2,843 tons	
• Rhein training ships	2	98.2/2,370	2x100mm guns 4x40mm guns
• Iskanderun transport ship	1	127.5/10,580	
• Training craft	8	28.8/94	
• Transport	49	Various sizes	
• Akar Support ship	2	145.1/19,350	
• Tugs	20	750; 1,235tons	
• Barrack ships	2		
• Floating docks	13		400-16,000 ton. Lift
• Torpedo retrievers	3		
• Boom defense	2	560-780 tons	3-4 20mm, 76mm or 40mm guns
Future procurement			
• Submarine rescue ship (MOSHIP)	1	91m	Delivery in 2014
• Towing vessels (RATSHIP)	2	69m	Delivery in 2014

Special Maritime Forces

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Kaan 15 (MRTP 15) Fast intervention craft	21	16.7/19	2x12.7mm MGs (18 with Coast Guard)
• Kaan 19 (MRTP 20) Fast intervention craft	3	22.5/ 38	2x12.7mm MGs (with Coast Guard)
Total	24		
Future procurement			
• Kaan 19 (MRTP 20)	15	22.5/38	To be delivered by 2012

Turkey

Coastal Defense

Future procurement

IMSS system: includes 3 DR3000 radars, 3 Suricate 2000 Elint systems, and an integrations center by Thales.

Naval Infrastructure

Naval bases 17

Aksaz, Ankara (HQ), Antalya, Bartin, Çanakkale, Erdek, Eređli, Foça, Gölcük, Iskanderun, Istanbul, Izmir, Karamürsel (training), Marmaris, Mersin, Samsun, Trabzon

Naval aviation bases 4

Antalia, Cigli, Topel, Trabzon

Ship maintenance 3

and repair facilities

Gölcük, Taskiçak, Pendik

Major Non-Governmental Paramilitary Forces

Personnel

Active

- PKK 6,000
-

Equipment

Organization	Category	System	Quantity	Notes
PKK	Artillery	• 122mm BM-21	+	
	Air defense	• SA-7 (Strela)	80	
