

19. TURKEY

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Major Changes

- Turkey began to renew some of its procurement programs, which were cancelled or postponed following the economic crisis of March 2001. Turkey's expectations for massive aid from the USA were frustrated, as relations between Turkey and the USA deteriorated following the 2003 Iraq war.
 - The Turkish Land Forces did not renew their proposed requirement for new advanced MBT but signed a contract with Israel to upgrade 170 M60 MBT – out of some 900 fit for this upgrade. The Land Forces are absorbing a second batch of 551 ACVs from the Turkish Industry. Another project that goes on is the project to renew the Turkish artillery with 300 Firtina 155mm self-propelled guns, and 400 Panther 155mm towed howitzers, all indigenously assembled. Another important acquisition is the Harpy anti radar drone received from Israel.
 - The Air Force received almost all of its upgraded Phantom F-4 combat aircraft. The project is scheduled to end by mid 2003. Another upgrade project involves the aging F-5 which are being upgraded and will be used for training. The Air Force is absorbing its new command and control system, which includes 14 TRS-22XX radars from France.
 - The Naval Aviation is absorbing 8 S-70 Seahawk helicopters. Further acquisitions of these helicopters are expected. The Navy and the Coast Guard received 6 of 9 CN-235 maritime patrol aircraft. Their mission specific systems will be installed separately.
 - The Turkish Navy received the last of 6 used A-69 corvettes from France. These are acquired as gap fillers until the new Mil Gem corvettes will be supplied. The Turkish Navy also received its 7th Oliver Hazard Perry Frigate from the US Navy. Two more Oliver Hazard Perry frigates are to be supplied. The first of 4 Gur class submarines was launched.
 - The Coast Guard received 5 of 10 proposed Seaguard patrol boats.
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Turkey

General Data

Official Name of the State: Republic of Turkey

Head of State: President Ahmet Necdet Sezer

Prime Minister: Recep Tayep Erdogan

Minister of National Defense: Vecdi Gonul

Chief of General Staff: General Hilmi Ozkok

Commander of the Ground Forces: General Aytac Yalman

Commander of the Air Force: General Cumhur Asparuk

Commander of the Navy: Admiral Bülent Alpkaya

Area: 780,580 sq. km.

Population: 66,500,000

Demography

Ethnic group

- | | | |
|-----------|------------|-----|
| • Turkish | 53,200,000 | 80% |
| • Kurdish | 13,300,000 | 20% |

Religious group

- | | | |
|-------------------------------|------------|-------|
| • Sunni Muslims | 53,067,000 | 79.8% |
| • Alevis (Shi'ite Muslims) | 13,300,000 | 20.0% |
| • Other (Christians and Jews) | 133,000 | 0.2% |
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Turkey

Economic Data

		1998	1999	2000	2001	2002
• GDP (current prices)	\$ bn	200.3	184.9	199.3	148.0	199.1
• GDP per capita	\$	3,135	2,853	3,033	2,225	2,958
• Real GDP growth	%	3.1	-4.7	7.4	-7.5	7.8
• Consumer price index	%	84.6	64.9	54.9	54.4	45.0
• External debt	\$ bn	97.2	102.1	116.2	111.9	116.5
Balance of payments						
• Exports fob	\$ bn	30.7	28.8	30.7	34.4	39.1
• Imports fob	\$ bn	44.9	39.3	53.1	38.9	47.8
• Current account balance (including services and income)	\$ bn	1.98	-1.36	-9.82	3.4	-1.79
Government expenditure						
• Total expenditure	\$ bn	59.9	66.9	74.7	65.7	76.6
• Defense expenditure	\$ bn	8.8	9.95	10.0	7.21	9.22
• Real change in defense expenditure	%	12.8	13.0	0.5	-27.9	28
• Defense expenditure/GDP	%	4.4	5.4	5.0	4.9	4.6
Population	m	63.9	64.8	65.7	66.5	67.3
Official exchange rate	TL:\$1	260,724	418,783	625,219	1,225,587	1,507,227

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

Foreign Military Cooperation

Type	Details
• Foreign forces	
• Forces deployed abroad	Afghanistan (270 troops in ISAF) ; Albania; Bosnia (1,000 troops in UNMIBH); Cyprus (30,000 troops); East Timor (UNTAET); Georgia (UNOMIG); northern Iraq (1,000 troops); Iraq/Kuwait (UNIKOM); Italy (F-16 aircraft, part of KFOR); Kosovo (1,000 troops in KFOR); Israel (TIPH); Macedonia (140 troops)
• Joint maneuvers	Albania (naval – 2000), Bulgaria (part of multinational peacekeeping brigade – 2001) , Georgia (naval), Israel (2003) , Jordan, Macedonia (part of multinational peacekeeping brigade – 2000), NATO member states (2000), Pakistan, Poland, Romania (part of multinational peacekeeping brigade – 2000), US (2001)
• Cooperation in training	Albania, Azerbaijan, Israel (mutual use of airspace and training facilities), Jordan (mutual use of airspace and training facilities; joint training of infantry), Georgia, PRC
• Security agreements	Croatia (2001), France, Georgia (2001), Kazakhstan (2000), Latvia, Oman (2001), Syria (2002)

Turkey

Arms Trade

Arms Procurement and Security Assistance Received

Country	Type	Details
Australia	• Arms transfers	Mine warfare system (2000)
EU	• Cooperation in arms production	Participation in the A400M transport aircraft program (2001)
France	• Arms transfers	Circe minesweepers (1998), ECMs (2000) (possibly suspended), D'orves frigates (2002) , AMASCOS naval radar (2002) , TRS-22XX radars (2001) , Exocet ASMs (2001) , TB-20 aircraft (2001) , C ³ I system (2001) ,
	• Cooperation in arms production	Eryx ATGMs (1999)
Germany	• Arms transfers	Frankenthal minehunters (2000) , upgrading of submarines (2001), ESMs for helicopters (2002)
Hungary	• Arms transfers	IR suppressors (2001)
Israel	• Arms transfers	Upgrade of F-4s and F-5s (2000), Popeye guided missiles (2001) , radars (1998), missile warning systems (1999), LOROPS reconnaissance pods (2003) , upgrading of M60 tanks (2002) , Harpy drones (2002) , upgrading C-130 aircraft (2002) , ECM systems for helicopters (2002) , upgrade of S-70 helicopters (2002) , satellite imagery (2002)
Italy	• Military training	SAR training (2000)
	• Arms transfers	AB-412 helicopters (2001) , RAT-31 AD radars (2002)
Norway	• Arms transfers	Penguin ASCMs (2000)
Romania	• Arms transfers	Bombs (1998)
Singapore	• Cooperation in arms production	Technology for gun barrels (2001)
Spain	• Cooperation in arms production	CN-235 aircraft (2000)
South Korea	• Cooperation in arms production	Production of artillery and SP guns (2002)
UK	• Arms transfers	Satellite communications system (1999), Rapier SAM launchers (2001) , ESM (2003)
	• Cooperation in arms production	Upgrading Rapier SAMs (1999)
US	• Arms transfers	Blackhawk helicopters (2002) , Harpoon missiles (1998), AMRAAM missiles (2000), LANTIRN pods (1999), Maverick missiles (1999), TPQ-36 radars (1999), Hellfire II

Turkey

Country	Type	Details
		ATGMs (2002) , CH-53E helicopters (2002 - possibly suspended) , F-16 aircraft (2002) , AH-1Z King Cobra helicopters (2002) , I-Hawk SAMs (2001) , MPQ-64 radars (2000) , ALQ-144 MCMs (2000) , L-3 sonars (2000) , Stinger SAM launchers (2002) , MD-600 helicopters (2001) , S-70B seahawk helicopters (2003) , Oliver Hazard Perry frigate (2003) , Seasparrow SAMs (2002) , Boeing 737 AEW aircraft (2002) artillery C ² system (2002)
	<ul style="list-style-type: none"> • Assistance 	\$1.6 million US foreign military aid (2000)

Note: due to the financial crisis many arms procurement programs were cancelled or suspended.

Arms Sales and Security Assistance Extended

Country	Type	Details
Afghanistan	<ul style="list-style-type: none"> • Military training 	Advisers, trainees in Turkey (2002)
Albania	<ul style="list-style-type: none"> • Assistance • Military training 	\$80 million military aid (2000) Advisers, trainees in Turkey, special forces training (2000)
Azerbaijan	<ul style="list-style-type: none"> • Assistance • Arms transfers • Military training 	\$3.45 million military aid (1999) SAR boat (2000), APCs (2001) Trainees in Turkey (1999)
Bosnia	<ul style="list-style-type: none"> • Assistance • Military training 	\$10 million (1997) Trainees in Turkey (1998)
Croatia	<ul style="list-style-type: none"> • Arms transfers 	CN-235 aircraft (1998)
France	<ul style="list-style-type: none"> • Arms transfers 	Night vision and EW systems (2003)
Georgia	<ul style="list-style-type: none"> • Arms transfers • Assistance • Maintenance • Military training 	Gunboats (1998), UH-1 helicopters (2001) \$13 million aid for military modernization (2001) Modernization of military AFB (2001) Trainees in Turkey (2002)
Israel	<ul style="list-style-type: none"> • Cooperation in assembly/R&D 	Joint development of ATBM project (2001)
Jordan	<ul style="list-style-type: none"> • Arms transfers • Arms transfers • Military training 	Armored Land Rovers (1998) CN-235 aircraft (on lease - 1998) Flight simulation (1998), training of helicopter pilots (1999)
Kyrgyzstan	<ul style="list-style-type: none"> • Arms transfers • Assistance 	Night vision equipment (2001) \$0.24 million in 2000 and \$2.5 million in 2001
Kazakhstan	<ul style="list-style-type: none"> • Arms transfers • Assistance • Facilities • Military training 	Patrol boats (2001), APCs (2001) \$1.1 million defense aid (2002) Upgrading of military base (2002) Training of security forces (2002)

Turkey

Country	Type	Details
Malaysia	• Arms transfers	FNSS ACVs (2002)
Mali	• Military training	Training of armed policemen (2000)
Macedonia	• Arms transfers	F-5 aircraft (1998)
NATO	• Facilities	HQ LANDSOUTHEAST, HQ 6 ATAF
Pakistan	• Arms transfers	Tactical radio communications (1999)
South Korea	• Arms transfers	Flight simulators (2001)
Turkmenistan	• Military training	
UAE	• Arms transfers	FNSS ACVs (2001)
	• Military training	Advanced Combat pilots training (2002)
UK	• Cooperation in arms production	Piranha AFVs (2001)
US	• Cooperation in arms production	Participation in JSF program (2000)
Uzbekistan	• Military training	Counter terrorism training (2000)
Yemen	• Military training	Upgrading security forces (2002)

Defense Production

	M	P	A
Weapons of mass destruction			
• J project SSM	√		
• NBC protection suites	√		
Army equipment			
• Land Rover APCs, FNSS ACVs and AIFVs	√		
• Piranha II AFVs			
• Cobra reconnaissance AFVs	√		
• Chinese WS-1 rockets	√	√	
• Toros 230mm and 260mm MRLs	√		
• 155mm towed and SP guns	√		
• Upgrading of Leopard-1 MBTs	√		
• Upgrade of 105mm and 155mm SP guns	√		
• 120mm SP mortars	√		
• 107mm and 122mm MRLs	√		
• M48 tank guns	√		
• 25mm guns			√
• Eryx ATGMs		√	
• Hellfire ATGM mounted on ACVs	√	√	
• Trucks and wheeled tactical vehicles	√		
• Small arms	√		
• Explosives	√		
Air Force equipment			
• F-16 aircraft		√	
• Cougar helicopters		√	
• SF-260D basic trainers		√	

Turkey

	M	P	A
• CN-235 light transport aircraft		√	
• Participation in production of MD Explorer helicopter		√	
• UAVs	√		
• Modification of S-2E maritime patrol aircraft	√		
• Bora, Atiligan and Zipkin air defense systems	√	√	
• 35mm Oerlikon anti-aircraft guns		√	
• Popeye air-to-air missiles		√	
• Paveway II laser-guided bombs		√	
• Rapier surface-to-air missiles		√	√
• CN-235 flight simulator		√	
• Jet engines		√	
Naval equipment			
• Gur class submarines		√	
• Atilay class submarines			√
• Kilic-2 class MFPBs		√	
• Berk class missile frigates			√
• Yildiz class and Dogan class MFPBs			√
• MHV 55 Minehunters		√	
• Yonca PBs	√		
• Osman Gazi landing craft			√
Electronics			
• Land-based and naval EW sets	√		
• Navigation systems	√		
• MARS V observation and surveillance system	√		
• ARS-2000 Ground surveillance radars	√		
• Tactical communication systems	√	√	
• Volkan FCS for MBTs	√		
• Artillery fire-control systems	√		
• HF/SSB radios		√	
• ALQ-178 (V) EW systems for F-4s and F-16s		√	
• TRS-22XX, P-STAR and D-IX air surveillance radars	√	√	
• C ³ I systems		√	
Optronics			
• Optical targeting devices/ FLIR		√	
• Night-vision equipment	√	√	
• Laser range-finders	√		
Satellites			
• TURKSAT civilian communication satellite	√		

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

Turkey

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 order a 1,000Mw reactor. 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
Future procurement				
• J project				Under development

See also under Rockets.

Space assets

Model	Type	Notes
Satellites		
• Turksat-2A	Communication	Both civilian and military
Satellite imagery		
• Ikonos	Reconnaissance	commercial satellite imagery
• Ofaq 5	Reconnaissance	Sharing of satellite imagery by Israel
Future procurement		
• Bilsat	Remote sensing	Civilian earth research

Turkey

Armed Forces

Order-of-Battle

Year	1999	2000	2001	2002	2003
General data					
• Personnel (regular)	633,000	633,000	610,000	515,000	515,000
• SSM launchers	12	12	12	12	12
Ground Forces					
• Divisions	5	5	5	3	3
• Total number of brigades	67	67	67	63	63
• Tanks	4,115 (4,190)	4,205 (4,280)	2,600 (4,255)	2,600 (4,255)	2,600 (4,255)
• APCs/AFVs	4,520	5,460	5,460	5,460	5,460
• Artillery (including MRLs)	4,312 (4,611)	~4,350 (~4,650)	~4,350 (~4,650)	~4,355 (~4,655)	~4,370 (~4,670)
Air Force					
• Combat aircraft	416	485	~445 (465)	~390 (410)	~390 (410)
• Transport aircraft	87	92	90 (94)	93 (97)	90 (100)
• Helicopters	381	395	407	461	460
Air Defense Forces					
• Heavy SAM batteries	24	24	24	24	24
• Light SAM launchers	86	86	86	86	86
Navy					
• Combat vessels	51	65	78	83	83
• Patrol crafts	88	108	103	113	113
• Submarines	16	15	14	13	13

Note: The number in parentheses refers to the total inventory.

Personnel

	Regular	Reserves	Total
Ground Forces	402,000	259,000	661,000
Air Force	60,000	65,000	125,000
Navy	53,000	55,000	108,000
Total	515,000	379,000	894,000
Paramilitary			
• Coast Guard	2,200		2,200
• Gendarmerie/ National Guard	180,000	50,000	230,000

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			4 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				
Medium and low quality				
• Leopard A1/A3	397	397	1982	Being upgraded
• M60 A1/A3	906	906	1992	
• M48T	2,876	~1,300	1984	Some possibly in storage
• M47	75	0	1970	
Total	4,255	~2,600		
Future procurement				
• M1A1	100		2000	Negotiation on lease
• Leopard 1	170		2002	Upgrading program
• M60A1	170		2002	Upgrading program under negotiation

Turkey

APCs/AFVs					
Model	Quantity	In service	Since	Notes	
APCs					
• ACV AAPC	830	830	1997		
• M113 A1/A2	2,815	2,815	1975		
• BTR-80	240	240	1993		
• BTR-60	340	340	1991		
• S-55	40	40	1995		
Subtotal	4,265	4,265			
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	~5	~5	1999		
• Akrep	260	260	1994		
Subtotal	~265	~265			
Total	~5,460	~5,460			
Future procurement					
• ACV	551			Delivery up to 2004	

Turkey

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	16	16	2002	
• 155mm M44T	222	222	1992	
• 155mm M52T	365	365	1995	
• 105mm M108	26	26	1982	
Subtotal	893	893		
Towed guns and howitzers				
• 203mm M115	162	162	1983	
• 155mm Panter	6	6	2002	Delivery in progress
• 155mm M114	517	517	1979	
• 155mm M59	171	0	1975	
• 150mm Skoda	128	0	1976	
• 105mm M101/ M102	640	640	1974	
Subtotal	1,624	1,325		
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				
• WS-1	~30	~30	1997	
MRLs				
• 227mm MLRS	12	12	1988	
• 122mm T-122	+	+		
• 107mm	48	48	1975	
Subtotal	~70	~70		
Total	~4,670	~4,370		
Future procurement				
• Toros 230/260mm				
• 155mm Firtina SP2000/ 155mm K9	300			Delivery in progress
• 155mm Panter towed	400			Delivery in progress

Turkey

Ground Radars

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	
• ARS-2000	+	+	1996	

Logistic and Engineering Equipment

Mine laying and clearing, bar mine-clearing system, crossing equipment, M48 ECVs (20)

Anti-Tank Missiles

Model	Launchers	Missiles	Since	Notes
• Milan	392	+	1984	
• TOW SP	365	+	1980	48 of which are on ACV ATV
• Cobra	186	+	1977	
Total	943			
Future procurement				
• Eryx		10,000		Delivery until 2009

Anti-Tank Guns

Model	Quantity	In service	Since	Notes
• 106mm M40 A1	2,330	2,330	1975	
• 75mm	620	620	1975	
• 57mm M-18	925	925	1976	
Total	3,875	3,875		

Turkey

Air Force

Order-of-Battle

Category	Quantity	In service	Notes
Combat	408	~385	
Transport	100	90	
Helicopters	461	461	

Combat Aircraft

Model	Quantity	In service	Since	Notes
Advanced multi-role				
• F-16C/D	221	221	1987	
Multi-role				
• Phantom 2000	40	40	1999	Out of total of 54 on order; 1 plane per month
• F-4E	89	~65	1973	Some in the process of upgrading
Subtotal	129	~105		
Obsolete				
• F-5A/B	58	58	1965	
Total	408	~385		
Future procurement				
• F-15E			1999	Under negotiation
• F-16 C/D	30		2003	Total order
• F-4E	54		2003	Being upgraded to Phantom 2000 standard

Turkey

Transport Aircraft

Model	Quantity	In service	Since	Notes
• C-160D	19	19	1971	
• KC-135R	9	7	1995	Tanker
• C-130E	7	7	1964	Upgraded
• C-130B	7	5	1991	To be converted to EW role
• Citation (VIP)	5	5	1985	
• CN-235	53	47	1991	2 employed in EW role
Total	100	90		
Future procurement				
• A-400M	10			
• CN-235	9			Being delivered for maritime patrol

Training and Liaison Aircraft

Model	Quantity	In service	Since	Notes
Jet trainers				
• F-5	5	5	2002	Delivery in progress
• T-33	34	34	1975	
• T-38 (F-5)	70	70	1965	
• Cessna 318 (T-37)	60	60	1960	
Subtotal	169	169		
Piston/Turbo-prop				
• TB-20	7	7	2000	
• SF-260D	39	39	1990	
• Cessna 172 (T-41)	51	51	1972	26 with Army Aviation
Subtotal	97	97		
Total	266	266		
Future procurement				
• F-5	48		2005	being upgraded, delivery rate of one per month

Turkey

Helicopters					
Model	Quantity	In service	Since	Notes	
Attack					
• AH-1W/P	37	37	1990	With Army Aviation	
Medium transport					
• AS-532 Cougar	47	47	1995	26 With Army Aviation	
• Mi-17	19	19	1995	With gendarmerie	
• S-70A Blackhawk	85	85	1992	35 with gendarmerie	
• AB-412	5	5	2001	With coastguard	
• AB-212	15	15	1985	13 with Navy, in ASW role and 3 with Army Aviation	
• UH-1H/AB-204/ AB-205	187	187	1966	160 with Army Aviation and 3 with Navy	
Subtotal	358	358			
Light transport					
• 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	63	63			
Naval attack					
• S-70B	2	2	2002	Total of 8 being delivered	
Total	460	460			
Future procurement					
• AB-412	9			Being delivered	
• MD-600N	10				
• CH-53/S-80E	4			Possibly suspended	
• CH-60S Knighthawk	4				
• AH-1Z King Cobra	50			Delivery in 2003	
• S-70B Seahawk	8			Being delivered;	
• Cougar AS-532	20			order of additional 8 under negotiation for police	

Turkey

Miscellaneous Aircraft

Model	Quantity	In service	Since	Notes
Reconnaissance				
• RF-4E	18	18	1977	Also listed under Combat Aircraft
• RF-5	20	20	1965	Also listed under Combat Aircraft
ELINT/EW				
• CN 235	2	2	1991	Also listed under Transport Aircraft
Maritime surveillance				
• CN-235	6	0	2001	Non-operational due to lack of mission computer
• Maule MX 7	1	1	1993	With Coast Guard
• S-2A/E Tracker	9	0	1970	
UAVs and mini-UAVs				
• CL-89	+	+		
• Gnat 750	6	6	1994	
• Harpy attack drones	54	54	2002	Delivery in progress
Future procurement				
• Boeing 737-700 AEW aircraft	4			
• Harpy attack drones	108			Delivery in progress
• UAVs	9			Tender has not been decided
• CN-235	9			Maritime surveillance. Delivery in progress

Turkey

Advanced Armament

Air-to-air-missiles

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

Air-to-ground-missiles

AGM-88 HARM (100), AGM-65 A/G Maverick (300), AGM-142 Popeye (50), Sea Skua (36), BLU-107 Durandel (523), Hellfire II (72)

Avionics

LANTIRN (24), ALQ-178 (V) ECMs (146)

Future procurement

LANTIRN (20), Hellfire II (144), AGM-65 G/F Maverick, Popeye II (Light), LOROPS (42), Penguin (16), ALQ-178 (V) ECMs (80)

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				
• Nike Hercules	24		1970	8 squadrons, 24 batteries
Light missiles				
• Rapier B1X		78	1999	Upgraded
• Rapier		8	1984	
Total		86		
Shoulder-launched missiles				
• Stinger		108	1991	
• Redeye		790	1986	
Total		898		
Future procurement				
• I-Hawk PIP-2	18		2000	
• Rapier B1X	12		2001	Under negotiations
• Zipkin Stinger SP		78	2001	
• Atilgan Stinger SP		70	2001	Under development

Turkey

Other Air Defense Systems

Model	Quantity	In service	Since	Notes
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	
• HR-3000 (Hadr)	3	3	1990	
• TRS-2100 (Tiger)	2	2	1988	
• MPQ-64 Sentinel	4	4	1998	
• TRS-22XX	14	14	2001	
• TRS-2000	4	4	1999	
• RAT-31DL	+	+	2001	
• AN/TPS-59	+	+		
Future procurement				
• RAT 31DL	4	4	2003	
• MPQ-64 Sentinel	10	10		
• P-STAR	+	+		

Turkey

Navy

Submarines

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Atilay (Type 1200)	6	61.2/1,185	8x533mm torpedoes
• Burakreist (Guppy II A)	1	93.2/2,440	10x533mm torpedoes 40 mines
• Hizzirreis (Tang)	2	87.4/2,700	8x533mm torpedoes mines
• Preveze (Type 1400)	4	62/1,586	2xSub Harpoon SSMs 8x533mm torpedoes mines
Total	13		
Future procurement			
• Gur class submarines	4		Delivery 2003-2006

Combat Vessels

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
Frigates			
• Barbaros (MEKO 200 track II-A/B)	4	116.7/3,350	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)	6	135.6/3,638	2 x AB-212 ASW helicopters 4xHarpoon SSMs 36xStandard SAMs 6x324mm torpedoes 1x76mm gun 1x20mm Phalanx AD gun

Turkey

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Tepe (Knox class)	8	134/3,011	1xAB-212 ASW helicopter 8xHarpoon SSMS 1xASROC Mk112 8 torpedo launcher 4x324mm torpedoes 1x20mm Vulcan Phalanx AD gun
• Burak (d'Orves Type 69A)	6	80.5/1,175	1x127mm gun 2x38MM Exocet SSMS 2xMistral SAMs 1x100mm gun 2x20mm guns 4xECAN L5 torpedoes 1xCreusot Mk54 6 ASW mortar
• Berk	1	95/1,450	Helicopter pad 2xHedgehog Mk11 24 ASW rocket launchers 6x324mm torpedoes 4x76mm guns
Subtotal	29		
MFPBs			
• Doğan class	8	58.1/436	8xHarpoon SSMS 1x76mm gun 2x35mm guns
• Kiliç class	3	57.8/433	8xHarpoon SSMS 1x76mm gun 1x40mm 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	21		
Mine warfare vessels			
• Nusret	1	77/1,880	4x76mm guns 400 mines
• Adjutant (MSC 268/ 294)	9	43/320	Sonar search 2x20mm guns
• Karamürsel (Vegasack class)	3	47.3/362	Active mine detectors 2x20mm guns
• Edincik (Circé class)	5	50.9/495	Robot seeker/ destroyer

Turkey

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
			1x20mm gun
• Foça (Cove class)	4	34/180	1x12.7 MG
• Dalgiç (Mine hunting tenders)	8	21.8/70	1x12.7 MG
• ^a amandira	3	19.6/72	
Subtotal	33		
Total	83		
Future procurement			
• Oliver Hazard Perry	1		
• Kiliç II	4		
• MHV 54 (Type 332MJ) minehunters	6	54.5/715	Delivery up to 2007

Turkey

Patrol Craft				
Type	Quantity	Length (m./ displacement (t.))	Notes/armament	
• Hisar class (PC – 1638)	3	53/325	1xHedgehog Mk 15 24 ASW rocket launchers 1x40mm gun 4x20mm guns	
• Trabzon class	3	50/370	1x40mm gun 2x12.7mm MGs	
• Turk class	9	40.2/170	1xMousetrap Mk 20 4 ASW rocket launcher 2x40mm guns 1x20mm gun 2x12.7mm MGs	
• PGM -71 class	4	30.8/130	2xMousetrap Mk 22 8 ASW rocket launchers 1x40mm gun 4x20mm guns	
• Coast guard type	4	25.3/63	2xMousetrap Mk 20 8 ASW rocket launchers 2x20mm guns	
• Ta ^o kizak (Large patrol craft)	10	40.7/195	1x40mm gun 2x12.7mm MGs	
• Gölçük (Large patrol craft)	14	40.2/180	1x40mm gun 2x12.7mm MGs	
• SAR 33 Type	10	34.6/180	1x40mm gun 2x12.7mm MGs	
• SAR 35 Type	4	36.6/210	1x40mm gun 2x12.7mm MGs	
• KW 15 class	8	28.9/70	1x40mm gun 2x20mm guns	
• Kaan 29 (Seaguard)	5	29/ 95	1x40mm gun 1x20mm gun	
• Kaan 15 (Yonca)	24	15.1/19	2x12.7mm MGs	
• Coastal patrol craft	12	14.6/29	1x25mm or 1x12.7mm MG	
• Inshore patrol craft	1	11.6/10	1x12.7mm MG	
• Harbor patrol craft	2	17/15		
Total	113			
Future procurement				
• Ta ^o kizak	2	40.7/195		
• Seaguard	10	29/95	Total order; being delivered	

Turkey

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
• Ertuđrul (Terrebonne Parish LST)	2	117.1/5,800	395 troops, 2,200 ton 4 LCVPs 6x76mm guns
• Bayraktar (LST)	2	100/1,653	6x40mm guns 2x20mm guns
• LCM-8	20	22/113	140 troops or 60 ton 2x12.7mm MGs
• LCT	26	59.6/600	100 troops, 5 tanks 2x20mm guns 2x12.7mm MGs
• Edic Type (LCT)	3	57/580	100 troops, 5 tanks 2x20mm guns 2x12.7mm MGs
• Fast intervention craft	2	16.8/18	10 troops
Total	58		

Auxiliary Vessels

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Tankers	5	1,440-19,000	2x20mm guns
• Water tankers	15	300-1,200 tons	
• Salvage/Rescue	3	1,200-1,600 tons	20mm guns 76mm guns 40mm guns
• Survey	4	680 tons	2x20mm guns
• Rhein training ships	2	98.2/2,370	2x100mm guns 4x40mm guns
• Training craft	8	28.8/94	
• Transport	35	Various sizes	
• Tugs	19	750; 1,235tons	
• Floating docks	11		400-16,000 ton. Lift
• Boom defense	2	560-780 tons	3-4 20mm, 76mm or 40mm guns

Turkey

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 and repair facilities	3
Gölcük, Taskiçak, Pendik	

Turkey

Major Non-Governmental Paramilitary Forces

Personnel

	Active
• PKK	8,000

Equipment

Organization	Category	System	Quantity	Notes
PKK	Air defense	• SA - 7 (Strela)	80	