



M. UEMOTO

Forest in winter, Azerbaijan

Annex

TABLE 1
Overview of land use

Country/area	Land area (⁰⁰⁰ ha)	Arable land		Forest and other wooded land		Permanent pasture	
		Area (⁰⁰⁰ ha)	% of total land area	Area (⁰⁰⁰ ha)	% of total land area	Area (⁰⁰⁰ ha)	% of total land area
Armenia	2 820	495	17.6	328	12.9	835	29.6
Azerbaijan	8 260	1 783	21.6	990	12.0	2 683	32.5
Georgia	6 949	799	11.5	2 810	40.4	1 940	27.9
Kazakhstan	269 970	21 535	8.0	18 959	7.0	185 098	68.6
Kyrgyzstan	19 180	1 345	7.0	1 182	6.2	9 365	48.8
Tajikistan	14 060	930	6.6	552	3.9	3 198	22.8
Turkmenistan	46 993	1 850	3.9	4 127	8.8	30 700	65.3
Uzbekistan	41 424	4 484	10.8	4 199	10.1	22 219	53.6
Central Asia	409 656	33 221	8.1	33 147	8.1	256 038	62.5
Afghanistan	65 209	7 910	12.1	867	1.3	30 000	46.0
Bahrain	71	2	2.8	0	0.0	4	5.6
Cyprus	924	72	7.8	388	42.0	4	0.4
Iran, Islamic Republic of	163 620	15 020	9.2	16 415	10.0	44 000	26.9
Iraq	43 737	5 750	13.1	1 749	4.0	4 000	9.1
Jordan	8 893	295	3.3	135	1.5	742	8.3
Kuwait	1 782	13	0.7	6	0.3	136	7.6
Lebanon	1 023	170	16.6	242	23.7	16	1.6
Oman	30 950	38	0.1	1 305	4.2	1 000	3.2
Qatar	1 100	18	1.6	1	0.1	50	4.5
Saudi Arabia	214 969	3 600	1.7	36 883	17.2	170 000	79.1
Syrian Arab Republic	18 378	4 593	25.0	496	2.7	8 338	45.4
Turkey	76 963	25 938	33.7	20 864	27.1	13 167	17.1
United Arab Emirates	8 360	75	0.9	316	3.8	305	3.6
Yemen	52 797	1 538	2.9	1 955	3.7	16 065	30.4
West Asia	688 776	65 032	9.4	81 622	11.9	287 827	41.8
Total West and Central Asia	1 098 432	98 253	8.9	114 769	10.5	543 865	49.5

Source: FAO, 2006b.

TABLE 2
Extent of forest and other wooded land 2005

Country/area	Forest		Other wooded land		Total
	Area (⁰⁰⁰ ha)	% of land area	Area (⁰⁰⁰ ha)	% of land area	
Armenia	283	10	45	1.5	2 980
Azerbaijan	936	11.3	54	0.6	8 660
Georgia	2 760	39.7	50	0.7	6 970
Kazakhstan	3 337	1.2	15 622	5.7	272 490
Kyrgyzstan	869	4.5	313	1.6	19 990
Tajikistan	410	2.9	142	1.0	14 255
Turkmenistan	4 127	8.8	0	0.0	48 810
Uzbekistan	3 295	8	904	2.0	44 740
Central Asia	16 017	3.8	17 130	4.1	418 895
Afghanistan	867	1.3	-		65 209
Bahrain	n.s.	0.6	0	0.0	71
Cyprus	174	18.9	214	23.1	925
Iran, Islamic Republic of	11 075	6.8	5 340	3.2	164 820
Iraq	822	1.9	927	2.1	43 832
Jordan	83	0.9	52	0.6	8 921
Kuwait	6	0.3	0	0.0	1 782
Lebanon	136	13.3	106	10.2	1 040
Oman	2	n.s.	1 303	6.1	21 246
Qatar	n.s.	n.s.	n.s.		1 100
Saudi Arabia	2 728	1.3	34 155	15.9	214 969
Syrian Arab Republic	461	2.5	35	0.2	18 518
Turkey	10 175	13.2	10 689	13.8	77 482
United Arab Emirates	312	3.7	4	0.0	8 360
Yemen	549	1	1 406	2.7	52 797
West Asia	27 390	4.0	54 231	8.0	681 072
Total West and Central Asia	43 408	3.9	71 361	6.5	1 099 967
Total world	3 952 025	30.3	1 375 829	10.3	13 418 518

Source: FAO, 2006a.

TABLE 3
Growing stock in forests and woodlands, 2005

Country/area	Forest				Other wooded land		
	Growing stock				Growing stock		
	Area (⁰⁰⁰ ha)	By area (m ³ /ha)	Total (million m ³)	of which is commercial (%)	Area (⁰⁰⁰ ha)	By area (m ³ /ha)	Total (million m ³)
Armenia	283	125	36	-	45	22	1
Azerbaijan	936	136	127	20.4	54	-	-
Georgia	2 760	167	461	26.2	50	20	1
Kazakhstan	3 337	109	364	0	15 622	1	17
Kyrgyzstan	869	34	30	0	313	-	-
Tajikistan	410	12	5	0	142	0	0
Turkmenistan	4 127	4	14	0	0	-	0
Uzbekistan	3 295	7	24	0.1	904	-	-
Central Asia	16 017	66	1 061	14	17 130		19
Afghanistan	867	16	14	40	-	-	-
Bahrain	n.s.	-	-	-	0	-	-
Cyprus	174	46	8	39	214	-	-
Iran, Islamic Republic of	11 075	48	527	78.9	5 340	-	-
Iraq	822	-	-	-	927	-	-
Jordan	83	30	2	-	52	-	-
Kuwait	6	-	-	-	0	-	-
Lebanon	136	36	5	-	106	9	1
Oman	2	-	-	-	1 303	-	-
Qatar	n.s.	-	-	-	n.s.	-	-
Saudi Arabia	2 728	8	23	0	34 155	5	171
Syrian Arab Republic	461	-	-	-	35	-	-
Turkey	10 175	138	1 400	86.6	10 689	-	-
United Arab Emirates	312	49	15	0	4	-	n.s.
Yemen	549	9	5	-	1 406	9	12
West Asia	27 390	-	-	-	54 231	-	-
Total West and Central Asia	43 408	70					
Total world	3 952 025	110					

Source: FAO, 2006a.

TABLE 4
Change in extent of forest and other wooded land, 1990–2005 ('000 ha)

Country/area	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Armenia	346	305	283	45	45	45
Azerbaijan	936	936	936	54	54	54
Georgia	2 760	2 760	2 760	53	51	50
Kazakhstan	3 422	3 365	3 337	13 049	14 765	15 622
Kyrgyzstan	836	858	869	283	303	313
Tajikistan	408	410	410	142	142	142
Turkmenistan	4 127	4 127	4 127	0	0	0
Uzbekistan	3 045	3 212	3 295	-	-	904
Central Asia	15 880	15 973	16 017	13 626	15 360	17 130
Afghanistan	1 309	1 015	867	-	-	-
Bahrain	n.s.	n.s.	n.s.	0	0	0
Cyprus	161	173	174	-	214	214
Iran, Islamic Republic of	11 075	11 075	11 075	5 340	5 340	5 340
Iraq	804	818	822	1 245	1 033	927
Jordan	83	83	83	55	54	52
Kuwait	3	5	6	0	0	0
Lebanon	121	131	136	-	117	106
Oman	2	2	2	1 303	1 303	1 303
Qatar	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
Saudi Arabia	2 728	2 728	2 728	34 155	34 155	34 155
Syrian Arab Republic	372	432	461	35	35	35
Turkey	9 680	10 052	10 175	10 905	10 728	10 689
United Arab Emirates	245	310	312	4	4	4
Yemen	549	549	549	1 406	1 406	1 406
West Asia	27 132	27 373	27 390	54 448	54 389	54 231
Total West and Central Asia	43 013	43 346	43 408	68 074	69 749	71 361
Total world	4 077 291	3 988 610	3 952 025			

Source: FAO, 2006a.

TABLE 5
Area of planted forests, 1990–2005 ('000 ha)

Country/Area	1990	2000	2005
Armenia	14	11	10
Azerbaijan	20	20	20
Georgia	54	60	60
Kazakhstan	1 034	1 056	909
Kyrgyzstan	46	59	66
Tajikistan	76	66	66
Turkmenistan	-	-	-
Uzbekistan	30	51	61
Central Asia	1 274	1 323	1 192
Afghanistan	-	-	-
Bahrain	n.s.	n.s.	n.s.
Cyprus	3	3	5
Iran, Islamic Republic of	616	616	616
Iraq	15	15	13
Jordan	40	40	40
Kuwait	3	5	6
Lebanon	-	-	8
Oman	2	2	2
Qatar	-	-	-
Saudi Arabia	-	-	-
Syrian Arab Republic	175	234	264
Turkey	1 839	2 304	2 537
United Arab Emirates	245	310	312
Yemen	-	-	-
West Asia	2 938	3 529	3 803
Total West and Central Asia	4 212	4 852	4 995

Source: FAO, 2006a.

TABLE 6
Population change, 1980–2020

Country/area	Total population (‘000 people)					
	1980	1990	2000	2005	2010 (projected)	2020 (projected)
Armenia	3 096	3 545	3082	3 016	2 979	2 917
Azerbaijan	6 161	7 212	8143	8 411	8 745	9 381
Georgia	5 073	5 460	4720	4 474	4 315	4 089
Kazakhstan	14 919	16 500	15033	14 825	14 861	15 036
Kyrgyzstan	3 627	4 395	4952	5 264	5 623	6 413
Tajikistan	3 953	5 303	6159	6 507	7 107	8 926
Turkmenistan	2 861	3 668	4502	4 833	5 214	6 114
Uzbekistan	15 952	20 515	24724	26 593	28 877	34 288
Central Asia	55 642	66 598	71 315	73 923	77 721	87 164
Afghanistan	15 209	14 606	23 735	29 863	35 955	50 448
Bahrain	347	493	672	727	797	944
Cyprus	611	681	786	835	882	974
Iran, Islamic Republic of	39 330	56 674	66 365	69 515	74 540	86 500
Iraq	14 092	18 514	25 075	28 807	33 100	44 425
Jordan	2 225	3 254	4 972	5 703	6 429	8 106
Kuwait	1 375	2 143	2 230	2 687	3 059	3 774
Lebanon	2 698	2 741	3 398	3 577	3 789	4 231
Oman	1 187	1 843	2 442	2 567	2 913	3 746
Qatar	229	467	606	813	900	1 072
Saudi Arabia	9 604	16 379	21 484	24 573	28 100	36 842
Syria	8 978	12 843	16 813	19 043	21 754	27 991
Turkey	4 6316	57 300	68 234	73 193	78 509	89 114
United Arab Emirates	1015	1 868	3 247	4 496	5 060	6 287
Yemen	8197	12 086	17 937	20 975	24 888	35 821
West Asia	151 413	201 892	257 996	287 374	320 675	400 275
Total West and Central Asia	207 055	268 490	329 311	361 297	398 396	487 439

Source: UN, 2005.

TABLE 7
GDP per capita, 1990–2004

Country/region	GDP per capita by purchasing power parity (current US\$) ^a			
	1990	1995	2000	2004
Armenia	2 727	1 671	2 422	4 222
Azerbaijan	–	1 673	2 571	4 175
Georgia	3 672	1 329	1 990	2 977
Kazakhstan	4 664	3 318	4 594	7 494
Kyrgyzstan	1 994	1 123	1 560	1 928
Tajikistan	1 882	758	803	1 193
Turkmenistan	4 674	2 843	3 668	7 021
Uzbekistan	–	1 233	1 516	1 871
Average Central Asia	3 269	1 744	2 391	3 860
Afghanistan	–	–	–	–
Bahrain	11 672	13 489	15 870	19 109b
Cyprus	11 213	14 758	20 041	22 900
Iran, Islamic Republic of	3 752	4 876	5 576	7 546
Iraq	–	–	–	–
Jordan	3 148	3 736	3 829	4 571
Kuwait	–	16 959	15 766	18 073b
Lebanon	1 777	3 777	4 162	5 320
Oman	9 494	10 957	12 480	13 795b
Qatar	–	–	–	–
Saudi Arabia	9 754	11 531	12 700	14 022
Syrian Arab Republic	2 164	2 912	3 345	3 945
Turkey	4 484	5 383	6 519	7 710
United Arab Emirates	21 041	18 066	–	–
Yemen	525	694	799	888
Average West Asia	7 194	8 803	9 215	10 601
Average for West and Central Asia	5 231	5 273	5 803	7 231

Source: World Bank, 2006.

^a –: not available.

^b Data for 2003.

TABLE 8
Ownership of forest and other wooded land, 2000

Country/Area	Forest				Other wooded land			
	Total (^{'000} ha)	Public (%)	Private (%)	Other (%)	Total (^{'000} ha)	Public (%)	Private (%)	Other (%)
Armenia	305	100	0	0	44	100	0	0
Azerbaijan	936	99.9	0	0	54	100	0	0
Georgia	2 760	100	0	0	51	100	0	0
Kazakhstan	3 365	100	0	0	14 765	100	0	0
Kyrgyzstan	858	100	0	0	303	100	0	0
Tajikistan	410	87.8	0	12.2	142	47.2	52.8	0
Turkmenistan	4 127	100	0	0	-	-	-	-
Uzbekistan	3 212	100	0	0	-	-	-	-
Central Asia	16 012	99.7	0	0.3	15 359	99.5	0.5	0
Afghanistan	1 015	100	0	0	-	-	-	-
Bahrain	n.s.	100	0	0	-	-	-	0
Cyprus	173	61.2	38.8	0	214	23.7	76.3	0
Iran, Islamic Republic of	11 075	100	0	0	5 340	100	0	0
Iraq	818	100	0	0	1 033	0	0	100
Jordan	83	85.5	0	14.5	54	55.6	22.2	22.2
Kuwait	5	100	0	0	-	-	-	-
Lebanon	131	38.2	60.3	1.5	117	13.7	79.9	6.4
Oman	2	-	-	100	1 303	100	-	-
Qatar	n.s.	-	-	-	n.s.	-	-	-
Saudi Arabia	2 728	99.3	0.7	0	34 155	99.6	0.4	0
Syrian Arab Republic	432	100	-	-	35	100	-	-
Turkey	10 052	99.9	0.1	0	10 728	100	n.s.	0
United Arab Emirates	310	100	0	0	4	100	0	0
Yemen	549	5	80	15	1 406	5	80	15
West Asia	27 373	97.4	2.3	16.0	54 389	94.9	2.8	2.3
Total West and Central Asia	43 385	98.2	1.4	0.3	69 748	95.9	2.3	1.8
Total World	3 988 649	84.4	13.3	2.4	1 448 648	89.8	3.8	6.5

Source: FAO, 2006a.

People, forests and trees in West and Central Asia

Outlook for 2020

In West and Central Asia, governments, the private sector, communities, farmers and civil society organizations are making substantial efforts to improve the management of forest and tree resources. However, most countries face enormous challenges in this regard. This publication, the main report of the Forestry Outlook Study for West and Central Asia (FOWECA), provides a long-term perspective of changes in the forest sector. Implemented in partnership with the countries, the study covered 23 countries in West Asia, Central Asia and the southern Caucasus. This report outlines the probable developments, including broader regional and global issues that need to be taken into account in developing national policies and programmes. It then discusses what needs to be done to enhance the contribution of forests and trees to society. It focuses particularly on probable development scenarios, their implications for society in terms of the availability of goods and services, and the priorities and strategies that may be pursued to improve the situation. This analysis will be of particular interest to planners, investors and decision-makers at the regional, subregional and national levels.

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