



REPUBLIC OF TÜRKİYE
MINISTRY OF AGRICULTURE AND FORESTRY
GENERAL DIRECTORATE OF FORESTRY

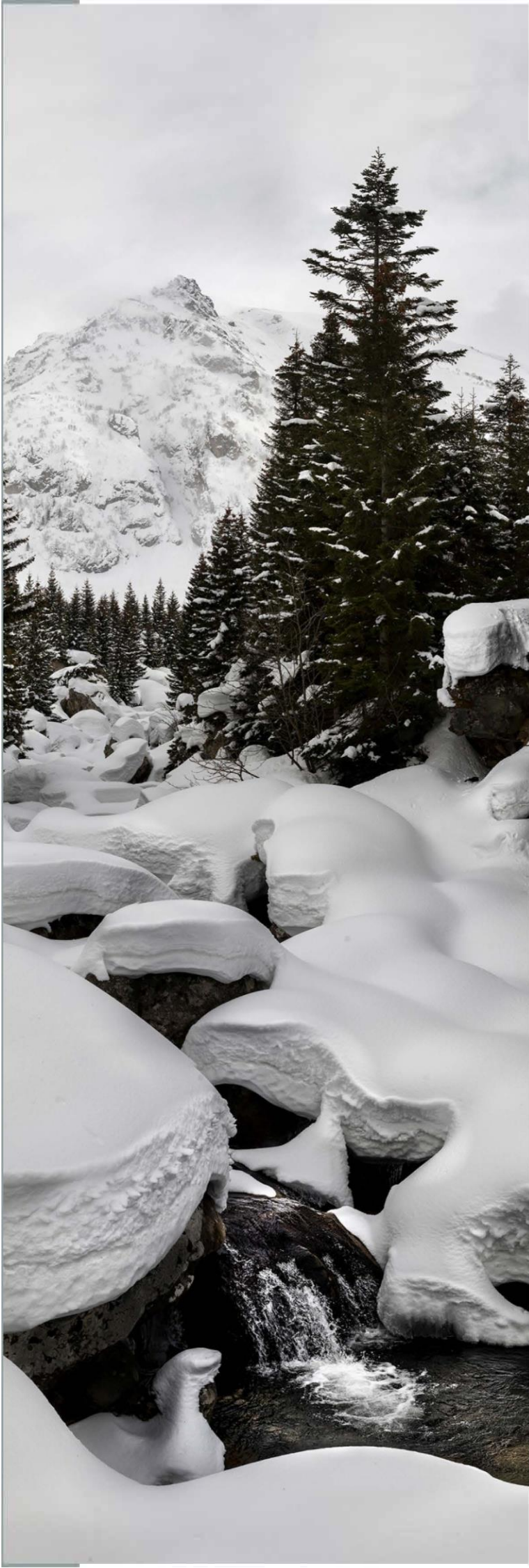


GENERAL DIRECTORATE OF FORESTRY
ACTIVITY REPORT



GENERAL DIRECTORATE OF FORESTRY
ADMINISTRATIVE ACTIVITY REPORT 2019
FEBRUARY 2020

DEPARTMENT OF STRATEGY DEVELOPMENT
ANKARA/2020



MINISTER'S PRESENTATION

Rapid population growth, urbanization, economic activities and diversified consumption habits have an increased pressure on the environment and natural resources. Global problems such as environmental pollution, climate change, desertification, deforestation, water scarcity and food security remain on the world agenda.

Forests are among the important natural resources. However increasing global problems such as industrialization, increasing urban population, global climate change and destruction of biodiversity also threaten forests.

Economic, environmental and social developments in our country, as in the world, have significantly increased the demands and expectations for forest resources. Forests, which until recently were seen as a source of wood production, are recently on the agenda with their ecological-social services and protective-environmental functions.

Considering the biological and technical characteristics and ecological, economic, social, cultural and managerial dimensions of forest management within an ecosystem integrity taking into consideration the demands of society and the structure of the country's forests is the basic approach of today's forestry understanding.

Our country has the distinction of being one of the rare countries that can increase its forest assets. Multipurpose afforestation and soil conservation works have been carried out on suitable areas, thus preventing erosion and sediment transport and creating new recreation and ecotourism areas, new carbon sinks and oxygen sources while forest areas have been increased. In addition, it is aimed to contribute to the local economy by afforestation, especially using income-generating species.

In this context, projects and action plans prepared for the whole country and including the determined priority activity areas have been put into practice.

Dr. Bekir PAKDEMİRLİ
Minister



GENERAL DIRECTOR'S PRESENTATION

The primary goal of the General Directorate, which is responsible for protecting, developing and expanding forests and forest resources, and managing them in a sustainable manner within the integrity of the ecosystem and so as to provide multifaceted benefits to the society, is to be a leading institution in sustainable forest management practices.

Within this framework, 17 strategic targets, 48 strategies and 42 performance indicators were determined under 4 strategic goals for the period 2019-2023, and the budget is associated with the goals and targets included in the strategic plan.

The 2019 programme was presented with the 2019 performance programme prepared in line with the priorities of the strategic goals in the plan, and the prepared programme was supported by investment and revolving fund work programmes that were implemented by making local distributions on the basis of sectors, budgets and projects.

Protecting forests and forest resources against biotic and abiotic pests, development and expansion of forests and forest resources, ensuring that society benefits from the goods and services produced at an optimum level and development of the institutional capacity have been among our priority targets in the program period. In addition, despite the increase in demand for forest products, public demands for functional services of natural forests other than wood production, potential afforestation areas and industrial afforestation are considered to be increasingly important in closing the future wood supply gap.

The activities and/or projects included in the programme for the determined targets have been successfully implemented and resources of a total of TRY 8,639,748,792 were used. TRY 3,494,632,038, which constitutes 40% of the resources used, has been paid from the special budget, and TRY 5,145,116,754, which constitutes 60% thereof, has been paid from the revolving fund.

I hope that the Annual Activity Report 2019 of the General Directorate of Forestry, which is one of the important tools of accountability and contains a summary of the services and activities we have carried out in 2019, will be useful for informing all interested parties and the public.

Bekir KARACABEY
General Director



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I. GENERAL INFORMATION

A. MISSION AND VISION

OUR MISSION

To protect forests and forest resources, to develop them with an approach close to nature, to manage them in a sustainable manner within the integrity of the ecosystem and so as to provide multifaceted benefits to the society

OUR VISION

To be a leading institution in sustainable forest management practices

B. AUTHORITIES, DUTIES AND RESPONSIBILITIES

The principles and procedures regarding the establishment, organization, duties and authorities of the General Directorate of Forestry are regulated by the “Presidential Decree on the Organization of the Institutions and Organizations Associated, Related and Affiliated to the Ministries and Other Institutions and Organizations”, and in Article 334 of the aforesaid Decree, the duties of the General Directorate of Forestry are listed as follows:

- To manage forest resources within the ecosystem integrity, together with plant and animal existence, taking into account their ecological, economic and sociocultural benefits, to plan in a participatory and multi-purpose manner, to protect against illegal interventions, natural disasters and fires, to control various pests and to have them controlled, to conduct and develop forestry quarantine services, to increase forest areas and forest-related services, to develop and improve forests, to ensure silvicultural maintenance and regeneration.
- To carry out actions and procedures related to the ownership of forests and cadastral, permission and easement activities.
- To ensure sustainability of forest products and services and to manage forests according to technical, sociocultural, ecological and economic requirements, to carry out the production, transportation and storage of forest products and to market such products domestically and internationally.
- To ensure the separation, protection and operation of recreational areas, urban forests, research forests, tree parks (arboretums), in-forest biodiversity protection areas, model forests and conserved forest areas.
- To carry out afforestation, erosion control, forest-related pasture improvement activities, and activities to combat desertification and flood and avalanche control activities, and to prepare and implement integrated basin projects, on all types of land within or outside the forest boundaries.
- To produce seeds and saplings of forest trees, shrubs and plant species belonging to the flora, to carry out grafting activities, to establish and operate permanent or temporary nurseries and to close them when necessary.
- To support natural and legal persons to establish, operate and market nurseries through special afforestation, reconstruction and erosion control activities.
- To establish and operate revolving fund enterprises and other necessary units in order to ensure maximum benefit from the products and services offered by forest ecosystems, to close them when necessary, to purchase or lease all kinds of materials, parcels, lands, buildings, facilities and installations, to make exchanges when necessary, to carry out their maintenance and repair works, to provide the machines and service vehicles required by the services, to carry out their maintenance and revision works, to carry out all kinds of infrastructure works in the forests, to conduct survey projects of the roads required for forestry activities, to carry out maintenance and repair works.
- To provide all kinds of pre-service and in-service training required by the services, to establish and operate institutes, directorates, research units, training centers and social facilities that will serve at local, national and global levels, regarding the services within the scope of the field of activity of the General Directorate.

- To carry out all kinds of research and development, inventory, printing, publication and promotional activities and projects related to its services and to market the results thereof at home and abroad.
- To carry out activities to popularize the use of forest products and services, to work in close cooperation with the private sector organizations, non-governmental organizations and universities that produce, process, market, import and export all kinds of forest products, to provide consultancy and implement projects at home and abroad, to carry out all kinds of activities to raise public awareness regarding forests and forestry.
- **(Added: Official Gazette-19/6/2019-30806-Presidential Decree-Article 39/4)** To ensure the dissemination of forestry activities to large masses and to provide transfer assistance to forest youth and sports clubs in order to raise public awareness about the prevention of fires, not to exceed two thousandths of the revolving fund budget at the beginning of the relevant year.
- To carry out expropriation, transfer and, when necessary, exchange of immovable properties owned by public institutions and organizations in order to bring the immovable properties owned by natural and legal persons under the forest regime in order to ensure forest integrity, to support the villagers living in and next to state forests with in-kind and in-cash aid resources, to develop forest-public relations and to take all kinds of actions in this regard.
- To determine the technical and administrative principles on the subjects within its field of activity, to establish laboratories related to the activity subjects and have them established, to make job descriptions and unit time analyses, to have them made and to determine unit prices.
- To determine the principles to be followed by other public institutions and organizations regarding the duties, services and activities of the General Directorate and to ensure coordination.
- To perform other duties and services as required by the legislation

C. ADMINISTRATIVE INFORMATION

1. Physical Structure

The General Directorate of Forestry carries out forestry services in a total of 25,141 buildings, which are registered with the revolving fund and special budget, and has 2,953 underground and aboveground structures as well as a land covering an area of 37,958,354 m² against 4,978 title deeds.¹

The central units operate in the premises of the General Directorate of Forestry, located in Ankara Province, Yenimahalle District, Söğütözü Locality, block no. 7638, parcel no. 27.²

Within the scope of the projects included in the investment programme, new buildings and facilities were constructed and maintenance and repair of existing buildings and facilities were carried out, and resources of a total of TRY 36,739,000 were used, including TRY 23,913,000 from the special budget and TRY 12,826,000 from the revolving fund.

Table 1: Building and Facility Construction and Maintenance-Repair Works, 2019

Special Budget	TRY	Revolving Fund	TRY
Construction of New and Supplementary Buildings	21,228,000	Major Repair	2,349,000
Facilities	2,685,000	Construction of New and Supplementary Buildings	117,000
		Facilities	10,360,000
TOTAL	23,913,000	TOTAL	12,826,000

¹ Immoveable properties owned, used or managed by the General Directorate of Forestry were registered in immovable property and accounting records within the framework of the "Regulation on the Registration of Immoveable Properties Owned by Public Administrations" and the "Implementation Directive for the Registration of Immoveable Properties Owned, Managed or Used by the General Directorate of Forestry" and revenues of a total of TRY 21,863,351 were obtained in 2019 from immovable properties that were determined to be surplus and rented out.

Also, in accordance with the 1st paragraph of Article 17 of the Forest Law No. 6831 and the Regulation on the Identification and Management of Highland Areas in State Forests, 525 highland areas with a total area of 11,520 hectares were declared in 20 Regional Directorates of Forestry to date by the decision of the Council of Ministers. 14,240 buildings and facilities located on 525 highland areas were included in fixed assets, 11,799 buildings and facilities were rented out to users, and an income of TRY 5,641,252 was obtained in 2019.

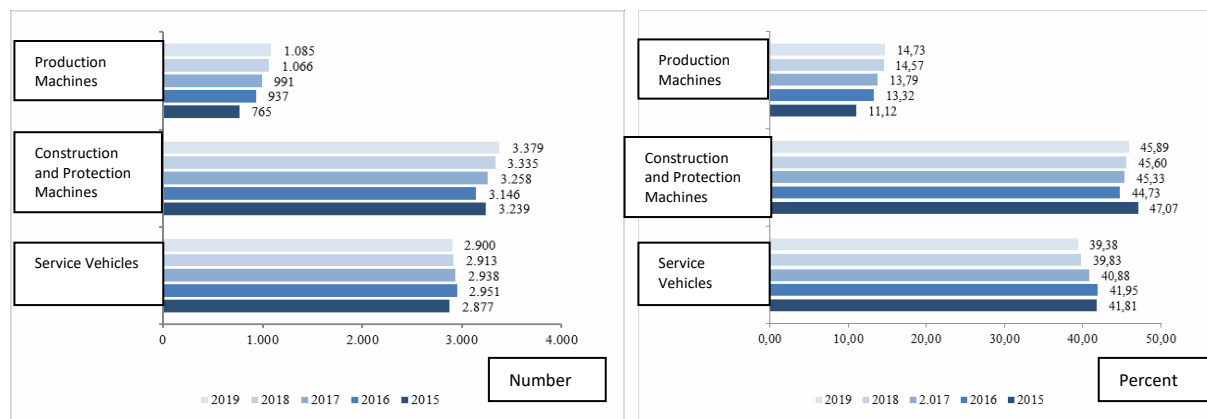
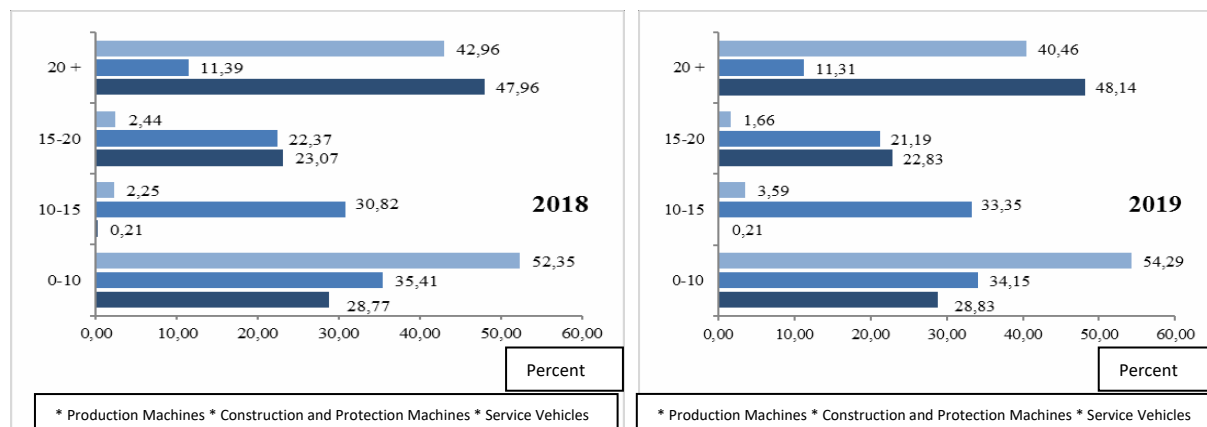
² The premises with a closed area of 73,463 m² have 4 seminar and 1 conference halls, meeting halls, work offices, a fire operations center, a nursery, a guest house, an indoor sports hall, social facilities, a staff cafeteria, a parking garage for 524 vehicles and a parking lot for 180 vehicles, an archive room, a warehouse and a place of worship.

There are 7,364 vehicles and machines in the machinery park, including 2,900 service vehicles, 3,379 construction and protection machines and 1,085 production machines, and 39% of the existing vehicles are service vehicles, 46% are construction and protection machines and 15% are production machines.³

Table 2: Number of Vehicles in the Machinery Park, 2019

	Special Budget	Revolving Fund	TOTAL
	Number	Number	Number
Service Vehicles	2,893	7	2,900
4x2 Automobiles	25		25
4x4 Station Wagons	143	1	144
Minibuses	41		41
4x4 Pick-ups	2,679	6	2,685
Midibuses	3		3
Buses	1		1
Funeral Vehicles	1		1
Construction and Protection Machines	2,972	407	3,379
Dozers	83	97	180
Graders	85	155	240
Trailers	82	3	85
Water Supply Vehicles	281		281
Excavators	36	79	115
Mini Excavators	57	35	92
Fire Extinguishing Vehicles	1,073		1,073
Fire Command Vehicles	9		9
First Response Vehicles	586		586
Heavy-Tonnage Trucks	1		1
Loaders	12	8	20
Mini Loaders	1	5	6
Motorcycles	600	1	601
ATV Motorcycles	32	17	49
Electric Motorcycles		4	4
Tankers	7		7
Cylinders		3	3
Mobile Repair Vehicles	27		27
Production Machines	780	305	1,085
Loaders and Stackers	9	6	15
4x2 Tractors	200	19	219
4x4 Tractors	229	83	312
Garden Tractors	67	17	84
Dumper Trucks	57		57
Cargo Trucks	38		38
Skidders/Skidder Tractors	32	12	44
4x4 Bucket Mounted Tractors	107	156	263
4x2 Bucket Mounted Tractors	13	1	14
Air Lines	6	4	10
Rotary Snowplow and Rotary Snowplough	1		1
Tree Diggers and Planters	4		4
Sapling Diggers and Planters	17	7	24
TOTAL	6,645	719	7,364

³ Some of the various vehicles, machinery and equipment purchased within the scope of the projects included in the 2019 investment programme were not received. In this regard, 1,650 first response vehicles and some machinery and equipment could not be reflected in the machinery park summary table.

Chart 1: Numeric Distribution of Vehicles and Machines in the Machinery Park, 2015-2019**Chart 2: Distribution of Vehicles and Machines in the Machinery Park by Age Group, 2018-2019**

71% of the service vehicles, 66% of construction and protection machines, 46% of production machines are in the age group of 10 and above. It is planned to periodically renew vehicles aged 10 and above in order to reduce operating costs and increase efficiency. In 2019, TRY 269,169,978 was spent from the appropriations of forestry services for which service vehicles and production and protection machines were operated for operating, repair and maintenance expenses.

Table 3: Machinery Park Operating Expenses, 2015-2019

	Unit	2015	2016	2017	2018	2019
Operating Time	Hour	721,166	697,726	775,196	1,850,044	898,419
	Kilometer	87,419,386	99,766,964	112,464,249	102,684,566	94,565,843
Consumed Fuel	Liter	22,604,774	36,049,933	28,821,334	34,838,932	27,577,415
	TRY	72,309,021	73,399,497	93,289,916	226,453,058	176,484,106
Consumed Oil	Liter	170,287	173,305	231,163	167,004	152,762
	TRY	1,474,363	1,741,510	2,149,806	13,054,298	3,473,521
Consumed Grease Oil	Liter	5,658	5,496	8,579	12,640	15,439
	TRY	45,513	54,176	80,616	184,337	982,397
Consumed Antifreeze	Liter	10,144	9,707	10,189	10,445	9,270
	TRY	64,844	62,502	88,513	121,713	157,670
Tire Expenses	TRY	3,648,116	3,522,997	3,367,682	6,044,364	6,995,608
Spare Parts Expenses	TRY	23,697,601	27,327,826	41,827,851	45,994,239	57,067,399
Labor Costs	TRY	7,738,035	10,143,919	12,054,295	16,018,613	24,009,277
TOTAL	TRY	108,977,493	116,252,427	152,858,679	307,870,622	269,169,978

Within the scope of the projects included in the 2019 investment programme, various vehicles, machinery and equipment were purchased, and a total of TRY 443,075,756 was spent, including TRY 59,708 from the special budget and TRY 443,016,048 from the revolving fund.

Table 4: Number of Machinery-Equipment Purchased, 2019

Revolving Fund	Number	TRY	Special Budget	Number	TRY
First Response Vehicles	1,650	302,775,000	Various		59,708
Graders	23	26,050,800	TOTAL		59,708
Sprinklers	25	24,997,900			
Dozers	12	23,409,800			
Backhoe Loaders	44	16,491,200			
Digital Radio System	1	8,894,000			
Excavator (with Crusher	10	8,406,200			
Trailers	6	5,511,000			
Excavator (22 and 30 tonnes)	8	4,889,500			
Mini Excavators	10	3,446,400			
Transporter with Short Trailer	4	3,527,600			
Various		14,616,648			
TOTAL		443,016,048			

2. Organizational Structure

The central organization of the General Directorate of Forestry consists of the service units. The central organization has a Department of Inspection Board, Department of Legal Consultancy, Department of Internal Audit, 18 departments and a total of 118 branch directorates affiliated to these departments. The provincial organization is directly connected to the center with 28 Regional Directorates of Forestry and consists of 12 Research Institute Directorates, 9 of which operate on general forestry issues and at the regional level, and 3 of which operate on a subject basis and throughout the country.

REGIONAL DIRECTORATES OF FORESTRY

01 ADANA	07 BALIKESİR	13 ESKİŞEHİR	19 KASTAMONU	25 KONYA
02 SAKARYA	08 BOLU	14 GİRESUN	20 MERSİN	26 KAYSERİ
03 AMASYA	09 BURSA	15 ISPARTA	21 MUĞLA	27 ŞANLIURFA
04 ANKARA	10 DENİZLİ	16 İSTANBUL	22 TRABZON	28 ÇANAKKALE
05 ANTALYA	11 ELAZIĞ	17 İZMİR	23 ZONGULDAK	
06 ARTVİN	12 ERZURUM	18 KAHRAMANMARAŞ	24 KÜTAHYA	

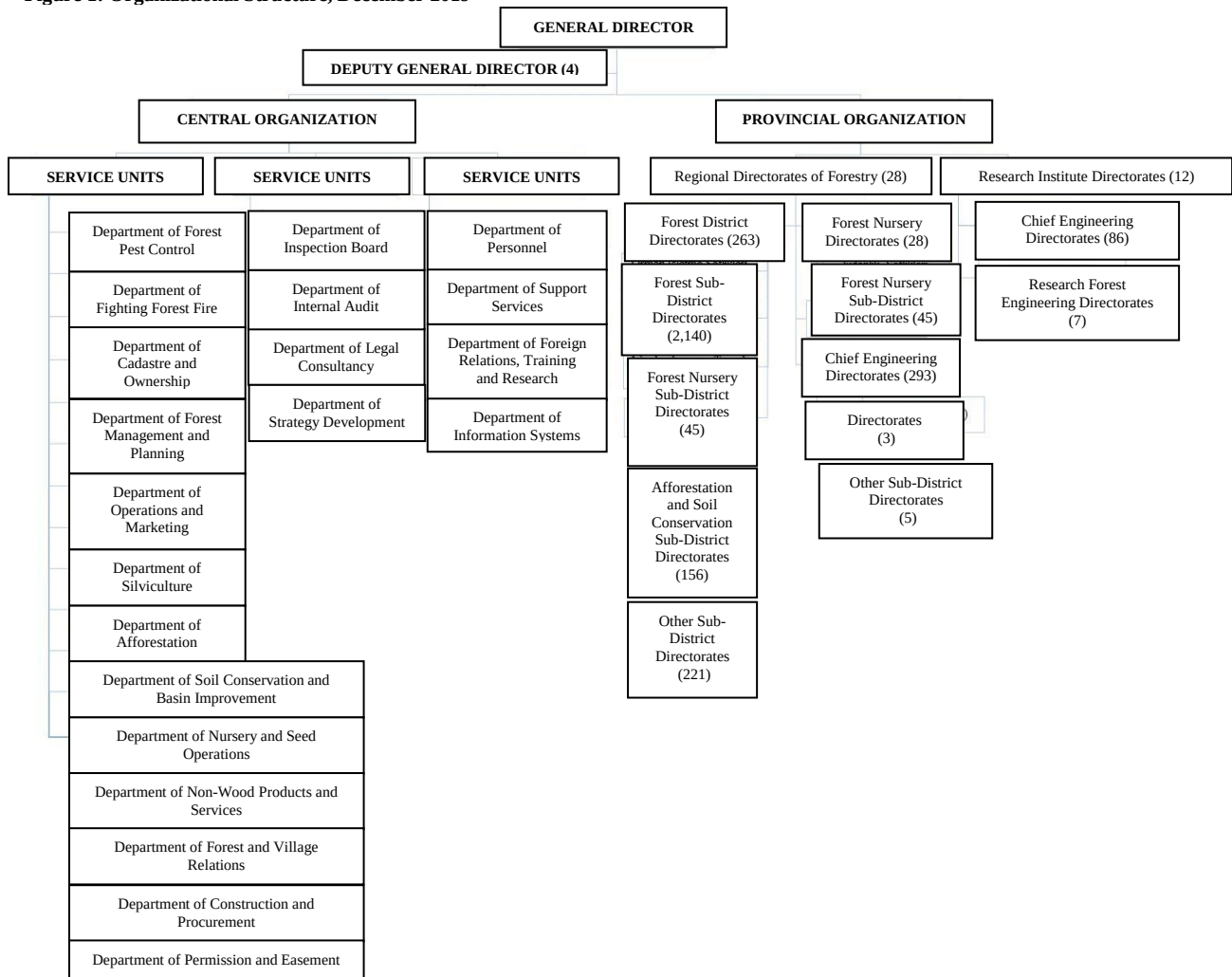
FORESTRY RESEARCH INSTITUTE DIRECTORATES

Research Institute Directorates operating on a subject basis and throughout the country

01 Research Institute Directorate for Poplars and Fast-Growing Forest Trees	İZMİT/KOCAELİ
02 Research Institute Directorate for Improvement of Forest Tress and Seeds	ANKARA
03 Research Institute Directorate for Forest Soil and Ecology	ESKİŞEHİR

Research Institute Directorates operating on general forestry issues and at the regional level

01 Western Mediterranean Forestry Research Institute Directorate	ANTALYA
02 Western Black Sea Forestry Research Institute Directorate	BOLU
03 Eastern Mediterranean Forestry Research Institute Directorate	TARSUS/MERSİN
04 Eastern Anatolian Forestry Research Institute Directorate	ERZURUM
05 Eastern Black Sea Forestry Research Institute Directorate	TRABZON
06 Aegean Forestry Research Institute Directorate	URLA/İZMİR
07 Southeastern Anatolian Forestry Research Institute Directorate	ELAZIĞ
08 Central Anatolian Forestry Research Institute Directorate	ANKARA
Marmara Forestry Research Institute Directorate	İSTANBUL

Figure 1: Organizational Structure, December 2019

The summary information regarding the changes made in the organizational structure of the General Directorate in 2019 is provided below.⁴

1. In the provincial organization of the General Directorate of Forestry, 17 forest district directorates, 715 forest sub-district directorates and 1 real estate sub-district directorate were established, and the Forest Fires Worker Training Center affiliated to the İzmir Regional Directorate of Forestry, 2 afforestation and soil conservation sub-district directorates and 1 research forest engineering directorate were closed.
2. The name of the Menderes Forest Sub-District Directorate affiliated to the İzmir Regional Directorate of Forestry, which is in the provincial organization of the General Directorate of Forestry, was changed to Gaziemir Forest Sub-District Directorate, the borders of 72 forest sub-district directorates, the names of 6 forest sub-district directorates and a total of 127 sub-district directorates, 123 of which are forest sub-district directorates, were changed.
3. The land with a surface area of 13,938.8 hectares, which was affiliated to the 6th and 8th regional directorates of the Ministry of Agriculture and Forestry and excluded from the borders of Kızıldağ National Park and Beyşehir Lake National Park by the Presidential Decree dated 26/11/2018 and numbered 378, was included in the borders of Eğirdir Forest District Directorate of Isparta Regional Directorate of Forestry, and thus a border change was made between the regional directorates.
4. The land with a surface area of 16,667.3 hectares, which was affiliated to the 6th and 8th regional directorates of the Ministry of Agriculture and Forestry and excluded from the borders of Kızıldağ National Park and Beyşehir Lake National Park by the Presidential Decree dated 26/11/2018 and numbered 378, was included in the borders of Beyşehir Forest District Directorate of Konya Regional Directorate of Forestry, and thus a border change was made between the regional directorates.

3. Information and Technological Resources

The Forest Information System (ORBIS) Project, which will realize the aims of establishing the IT infrastructure of the General Directorate of Forestry, carrying out the processes and procedures electronically, improving the economic and social conditions, and implementing electronic business methods in accordance with the strategic plan, and was included in the investment programme, was put into practice as 4 main projects (1- Forest Inventory Management Information System, 2- Network Infrastructure Development Project, 3- Institutional Service Inventory Management and Dissemination, 4- Institutional Resource Planning) and sub-components

⁴ The changes made in the organizational structure of the General Directorate of Forestry have been reflected in the Electronic Public Administration Information System (KAYSİS).⁵

GENERAL DIRECTORATE OF
Table 5: Information about the Network Infrastructure and System Room, 2019

Unit Name	Network Infrastructure and System Room		Network Key (Switch)	Firewall
	Number of Units	Scope	Number of Units	Number of Units
General Directorate of Forestry (Center)	1	1,250 Modules	216	2
Regional Directorates of Forestry	28	10,890	291	
Research Institute Directorates of Forestry	7	329 Modules	8	
Forest District Directorates	229	10,570	309	
Forest Nursery Directorates	21	233 Modules	24	

Table 6: Information about the Inventory of Hardware and Peripherals, 2019

Hardware	Number	Server Name	Number	Current Storage Capacity	Capacity (TB)
Laptop Computers	4,566	Physical Server	20	General Capacity	1,228
Desktop Computers	14,094	Virtual Server	330		
Tablets	1,966				
Photocopy Machines	501				
Printers	7,709				

4. Human Resources

The number of officers, contract employees, permanent workers and temporary workers employed in the central and provincial units of the General Directorate of Forestry is 34,054 as of December 2019.

Table 7: Statutes and Numbers of Employees, 2015-2019

	Officers	Contract Employees	Permanent Workers	Temporary Workers	Temporary Employees	TOTAL
2015	18,073	161	13,413	8,537	733	40,917
2016	17,843	165	11,954	8,325	741	39,028
2017	17,116	156	10,959	8,158	709	37,098
2018	16,494	816	10,667	8,129		36,106
2019	15,908	786	9,385	7,975		34,054

As compared to 2015, the total number of employees increased by 17%, the number of officers, permanent workers and temporary workers decreased by 12%, 30% and 7% respectively.

Table 8: Status of Occupied-Vacant Positions, 2019

	Special Budget				Revolving Fund				TOTAL			
	Center		Provincial		Center		Provincial		Center		Provincial	
	Occupied	Vacant	Occupied	Vacant	Occupied	Vacant	Occupied	Vacant	Occupied	Vacant	Occupied	Vacant
Officers	761	998	13,134	8,092	165	846	1,848	15,095	926	1,844	14,982	23,187
Contract			648				138	5,061			786	5,061
Permanent	36		7,328	4,326	201		1,820	5,008	237		9,148	9,334
Temporary			2,119				5,856				7,975	
Temporary Employees												

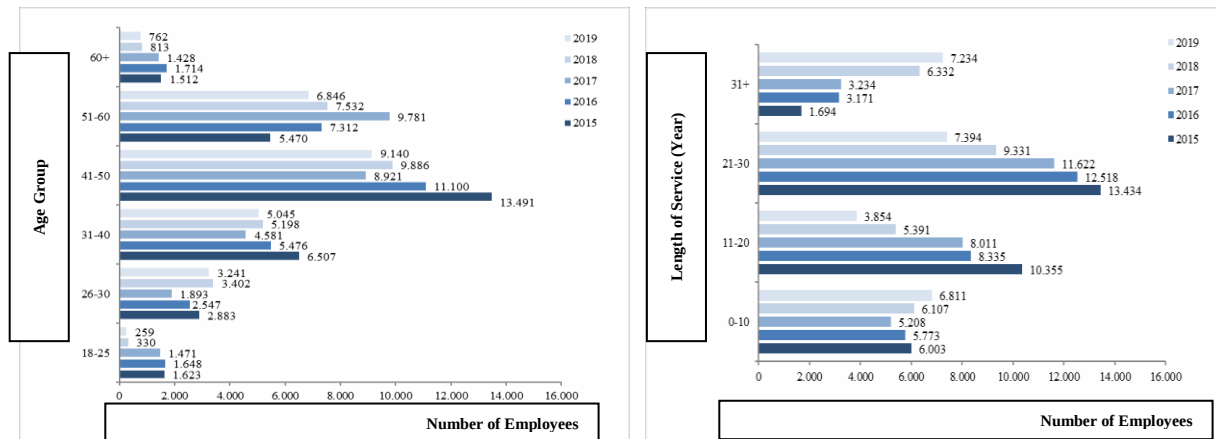
⁵ The “ORBIS Project (2011-2016) Closing Report” was evaluated and the necessity of proceeding with phase 2 of the Project arose and in this process, the “ORBIS Dissemination Project (2017-2019)” prepared for the development and integration of the required additional modules and the provision of the necessary equipment was included in the investment programme.

Table 9: Budget and Title Distributions of Occupied Positions, 2019

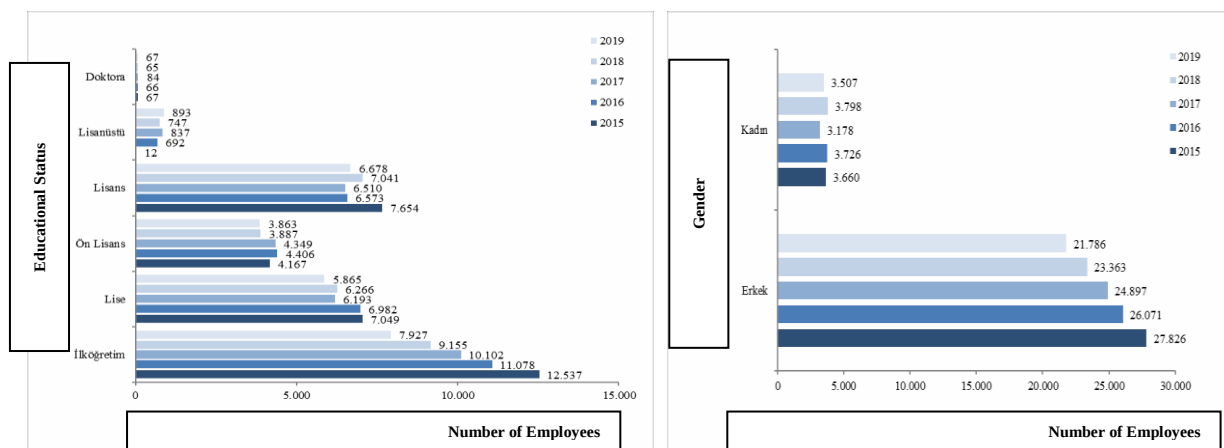
	Special Budget		Revolving Fund		Total		GRAND TOTAL
	Center	Provincial	Center	Provincial	Center	Provincial	
General Director	1				1		1
Deputy General Director	1				1		1
First Legal Counsels	1				1		1
Legal Counsels	4				4		4
Department Heads	10				10		10
Internal Auditors	8				8		8
Chief Inspectors	64				64		64
Inspectors	37				37		37
Regional Directors		22				22	22
Deputy Regional Directors		80				80	80
District Directors		110				110	110
Deputy District Directors		113				113	113
Director, Spare Parts		1				1	1
Deputy Director, Spare Parts		1				1	1
Training Center Director		1				1	1
Institute Directors		10				10	10
Deputy Institute Directors		12				12	12
Nursery Directors		20				20	20
Deputy Nursery Directors		12				12	12
Chief Engineers		189				189	189
Branch Directors	104	343			104	343	447
Engineer	215	2,996	35	377	250	3,373	3,623
Lawyers	6	99	11	40	17	139	156
Financial Services Specialists	7				7		7
Assistant Financial Services Specialists	1				1		1
Specialists	2	1	1		3	1	4
Research, Planning and Training Specialists	6				6		6
Civil Defense Specialists	11				11		11
Researchers		7				7	7
Researchers	3	58			3	58	61
Accountants		25	7		7	25	32
Property Accountants		5				5	5
Operations Accountants				26		26	26
Chief Officers	21	153		1	21	154	175
Technicians	20	468	12	85	32	553	585
Technicians	50	433	24	36	74	469	543
Computer Operators	112	2,207	42	299	154	2,506	2,660
Forest Guards		3,909		219		4,128	4,128
Others	77	1,859	33	765	110	2,624	2,734
TOTAL	761	13,134	165	1,848	926	14,982	15,908
Contract Employees		648		138		786	786
Permanent Workers	36	7,328	201	1,820	237	9,148	9,385
Temporary Workers		2,119		5,856		7,975	7,975
Temporary Employees							
GRAND TOTAL	797	23,229	336	9,662	1,163	32,891	34,054

Approximately 47% of the current employees are employed as officers, and 53% are employed as contract employees, permanent workers and temporary workers.⁶

⁶ In accordance with Article 4 (B) of Law No. 657, the recruitment process for a total of 4,996 contract employees from various titles was started in 2019. In addition, 2,097 employees applied for title change examination, 1,743 employees were entitled to take a written examination, 1,297 employees were entitled to take an oral examination.

Chart 3: Distribution of Employees by Age Group and Length of Service, 2015-2019

36% of officers and permanent workers are between the ages of 41-50, and the number of personnel aged 51 and over constitutes 30% of the total officers and permanent workers. The ratio of the number of officers and permanent workers with more than ten years of public service experience to the total number of officers and permanent workers is 73%. 83% of the 7,927 employees with an educational level below high school are employed as permanent workers, and 98% of the 6,678 employees with a bachelor's degree are employed as officers and 2% are employed as permanent workers.

Chart 4: Distribution of Officers and Permanent Workers by Educational Status and Gender, 2015-2019

During the year, a total of 2,273 employees, including 830 officers, 1,287 permanent workers and 156 temporary workers, left the institution, and a total of 251 employees, including 244 officers, 5 permanent workers and 2 temporary workers, started to work in the institution.

Table 10: Number of Employees Leaving the Institution, 2019

	Retirement	Death	Resignation	Transporting	Others	TOTAL
Officers	715	37	7	63	8	830
Permanent	1,239	24	11		13	1,287
Temporary Workers	117	5	14		20	156

Table 11: Number of Employees Employed in the Institution, 2019

	Extra Appointment	Interinstitutional Transition	Others	TOTAL
Officers	146	26	72	244
Permanent Workers	5			5
Temporary Workers			2	2

5. Activities, Products and Services Offered

Our country's forest assets cover approximately 29.2% of the country's surface area with 22,740,297 hectares. Within this area, the area of forests with normal crown closure constitutes 57.53% of the total forest area with 13,083,510 hectares, and the area of forests with low crown closure constitutes 42.47% with 9,656,787 hectares.⁷

Table 12: Status of Forest Areas by Different Inventory Years

Inventory Year	Forest Type	Forests with Normal Crown Closure		Forests with Low Crown Closure		Total	
		Hectare	Percent	Hectare	Percent	Hectare	Percent
1973	Groves	6,176,899	30.58	4,757,708	23.55	10,934,607	54.13
	Coppice	2,679,558	13.27	6,585,131	32.60	9,264,689	45.87
	Total	8,856,457	43.85	11,342,839	56.15	20,199,296	100.00
2012	Groves	10,281,728	47.43	6,978,864	32.19	17,260,592	79.62
	Coppice	1,276,940	5.89	3,140,602	14.49	4,417,542	20.38
	Total	11,558,668	53.32	10,119,466	46.68	21,678,134	100.00
2015	Groves	11,919,061	53.35	7,700,657	34.47	19,619,718	87.81
	Coppice	785,087	3.51	1,938,130	8.67	2,723,217	12.19
	Total	12,704,148	56.86	9,638,787	43.14	22,342,935	100.00
2019	Groves	12,733,660	55.99	8,806,471	38.73	21,540,131	94.72
	Coppice	349,850	1.54	850,316	3.74	1,200,166	5.28
	Total	13,083,510	57.53	9,656,787	42.47	22,740,297	100.00

94.72% of the forests are operated as groves and 5.28% as coppices, and the change in forest areas also affects the distribution of growing stock. The growing stock of standing trees in our country's forests increased by approximately 744 million m³ between 1973 and 2019. This increase is caused by the establishment of new forests and the increase in the share of grove areas due to the decrease in areas of coppices and forests with low crown closure.

Table 13: Growing Stock Status of Forest Areas by Different Inventory Years

Inventory Year	Forest Type	Forests with Normal Crown Closure		Forests with Low Crown Closure		Total	
		Cubic meter	Percent	Cubic meter	Percent	Cubic meter	Percent
1973	Groves	758,732,197	81.10	54,349,847	5.81	813,082,044	86.91
	Coppice	88,300,818	9.44	34,129,288	3.65	122,430,106	13.09
	Total	847,033,015	90.54	88,479,135	9.46	935,512,150	100.00
2012	Groves	1,365,186,239	92.80	59,319,695	4.03	1,424,505,934	96.83
	Coppice	34,864,000	2.37	11,768,000	0.80	46,632,000	3.17
	Total	1,400,050,239	95.17	71,087,695	4.83	1,471,137,934	100.00
2015	Groves	1,506,131,410	93.45	59,996,731	3.72	1,566,128,141	97.17
	Coppice	33,692,118	2.09	11,953,934	0.74	45,646,052	2.83
	Total	1,539,823,528	95.54	71,950,665	4.46	1,611,774,193	100.00
2019	Groves	1,595,828,101	95.03	64,790,641	3.86	1,660,618,742	98.89
	Coppice	14,013,759	0.83	4,723,709	0.28	18,737,468	1.11
	Total	1,609,841,860	95.86	69,514,350	4.14	1,679,356,210	100.00

⁷ The National Forest Inventory is published every five years. The next inventory will be published in 2020, and annual data has been determined by taking into account the areas with management plans renewed.

Forestry practices not only change area and growing stock levels, but also affect the age components of trees constituting forests and therefore their increment.

Table 14: Current Annual Increment of Forest Areas by Different Inventory Years

Inventory Year	Forest Type	Forests with Normal Crown Closure		Forests with Low Crown Closure		Total	
		Cubic meter	Percent	Cubic meter	Percent	Cubic meter	Percent
1973	Groves	20,791,672	74.09	1,343,744	4.79	22,135,416	78.88
	Coppice	4,813,197	17.15	1,114,592	3.97	5,927,789	21.12
	Total	25,604,869	91.24	2,458,336	8.76	28,063,205	100.00
2012	Groves	37,300,713	90.92	1,411,640	3.44	38,712,353	94.36
	Coppices	1,814,000	4.42	499,000	1.22	2,313,000	5.64
	Total	39,114,713	95.34	1,910,640	4.66	41,025,353	100.00
2015	Groves	42,322,876	92.20	1,484,455	3.23	43,807,331	95.43
	Coppice	1,511,561	3.29	585,191	1.27	2,096,752	4.57
	Total	43,834,437	95.49	2,069,646	4.51	45,904,083	100.00
2019	Groves	44,447,096	94.17	1,713,433	3.63	46,160,529	97.80
	Coppice	762,981	1.61	276,490	0.59	1,039,471	2.20
	Total	45,210,077	95.78	1,989,923	4.22	47,200,000	100.00

The total annual increment in forests was 28 million m³ in 1973 and as a result of forestry implementations, the annual increment reached 47.2 million m³ in 2019. Although the increase in the share of area of groves has an impact on this result, the acquisition of new forest areas and the maintenance activities carried out in the forests have a great impact.

Table 15: Status of Forests by Tree Species

Characteri	Crown Closure	Groups of Tree Species		TOTAL
		Coniferous	Deciduous	
Area (Hectare)	Normal	8,603,043	4,480,467	13,083,510
	Low Crown Closure	5,278,982	4,377,805	9,656,787
	Total	13,882,025	8,858,272	22,740,297

Characterist	Crown Closure	Groups of Tree Species		TOTAL
		Coniferous	Deciduous	
Growing Stock (Cubic meter)	Normal	1,095,229,994	514,611,866	1,609,841,860
	Low Crown Closure	42,912,341	26,602,009	69,514,350
	Total	1,138,142,335	541,213,875	1,679,356,210
Annual Increment (Cubic meter)	Normal	30,402,836	14,807,241	45,210,077
	Low Crown Closure	982,926	1,006,997	1,989,923
	Total	31,385,762	15,814,238	47,200,000

When the areal distribution, growing stock and increment status of forests are classified according to tree species, it is seen that the number of coniferous species is higher than the number of deciduous species in terms of area, growing stock and increment.

5.1 Protection of Forests and Forest Resources

It includes the protection of forests and forest resources against fires and biotic and abiotic pests. In addition, information and awareness-raising activities planned to improve forest-public relations are also included in the group of forest protection activities.

5.1.1 Protection of Forests against Fires

In our country, which is located in the Mediterranean climate zone due to its geographical location, a large part of our forests is under fire threat, and 60% of the total forest area consists of the areas sensitive to first- and second-degree fires. Therefore, forest fires are among the priority issues for our country's forestry. Our primary and important activities⁸ include taking any physical and human precautions to prevent the occurrence and spread of forest fires, developing and strengthening forest firefighting techniques, minimizing fire losses by shortening the duration of responding to fires and training the personnel working in forest fires. The **“Project for Rehabilitation of Burned Areas and Establishment of Fire Resistant Forests”**, which was shortly named YARDOP, was put into effect in 2010 in order to restore the forest areas affected by fires to forest cover and reduce the impact of possible forest fires, and it was revised and put into effect again as Circular No. 6976 in 2014.

5.1.2 Forest Pest and Disease Control

Insect damage has an important place among the damages caused by insects, fungi and other organisms in our country's forests. In this regard, insect control comes to the fore for forest pest control. Due to global warming and climate change, the method of biological control is primarily used in the forest pest control. For this purpose, an average of 500 thousand/year beneficial predatory insects and beneficial parasites, parasitoids, viruses, etc. are produced in 46 laboratories⁹ in 26 provinces and released into areas where harmful insects are densely populated, 50 thousand bird nests/year are hung in designated forest areas to re-establish the natural balance, and 100 ant nests/year are transplanted.

5.1.3 Fighting Forest Crimes and Grazing Management

Our country's forest assets are under various threats and the source of these threats is largely human. The main illegal interventions of people in forests are excessive and irregular exploitation, illegal transportation of forest goods, deforestation and settlement for acquisition of farming and residential areas, and uncontrolled and excessive grazing. The efforts to identify areas with higher forest crime rates and establish protection teams in sensitive areas, to activate the protective measures by supporting the teams with vehicles and forest guards, to demolish unlicensed buildings and facilities in forest areas, to protect the surrounding forests through cooperation and protocols with village legal entities, and to transfer resources to villagers living here and ensure that the people protect the forests are continued uninterruptedly. In addition, the activities initiated to complete grazing plans¹⁰ in regions that are sensitive to fire and where flammable materials are abundant are ongoing.

5.1.4 Monitoring of the Health of Forest Ecosystems

In order to monitor forest ecosystems in sustainable natural resource management, permanent observation plots (Level I and Level II) were established in Europe in 1985 within the scope of the “International Cooperative Programme for Monitoring and Assessment of the Effects of Air Pollution” (ICP Forests).

⁸ Preventive measures in fighting forest fires, and training and awareness-raising activities carried out to eliminate the causes of fires are developed and managed by the “Action Plan for Fighting Forest Fires” prepared every year. Activities carried out to increase the capacity to fight forest fires are planned and implemented with the “Forest Protection and Fire Fighting Project” included in the investment programme.

⁹ In 44 of 46 laboratories in 26 provinces, only predatory insects are produced; in 1 laboratory, both predatory insects and beneficial viruses against chestnut branch cancer are produced; and in 1 laboratory, only beneficial viruses against chestnut branch cancer are produced.

¹⁰ The “Regulation on the Principles and Procedures Regarding Animal Grazing in Forests and in Grasslands, Summer Pastures and Winter Pastures Located in Forests” prepared within the scope of the revision made in Article 19 of the Forest Law No. 6831 was published in the Official Gazette dated July 11, 2012 and numbered 28350 and entered into force.

In our country, the “Project for Monitoring of Forest Ecosystems” was initiated in 2006 under the coordination of the General Directorate of Forestry and in cooperation with the Department of Research and Development of the former Ministry of Environment and Forestry, and since 2007, the **“Programme for Monitoring of Forest Ecosystems”** was put into practice in order to determine the problems that will occur with the health of the forests of our country due to the effects of air pollution and climate change.

5.1.5 Determination of Forest Boundaries and Permissions

Determination of the boundaries of forests, application works for the application of forest limitation or cadastral procedures to the land in accordance with the new laws, applications in Article 2 of Law No. 1744 and applications in Article 2/B of Law No. 3302, and registration of the places with finalized boundaries with the land registry are carried out within the framework of the prepared programmes.¹¹ Permission activities and processes are carried out for areas regarded as forests in accordance with Articles 16, 17, 18 and 57 of the Forest Law No. 6831, and also, they are allocated to the Ministry of Culture and Tourism to be used for tourism purposes in accordance with Article 8 of the Law No. 2634 for the Encouragement of Tourism.

5.1.6 Development and Support of Forest Villagers

The main element of the activity group for supporting forest villagers is composed of the cooperative loans provided to individual forest villagers and the cooperative associations established by these villagers among themselves. Forest villagers are supported economically and socially through development of alternative business models and projects with the loans provided.¹²

5.1.7 Regulation of Forest-Public Relations and Raising Public Awareness

Raising public awareness is of utmost importance in the sustainable management of natural resources. Stakeholders are informed about the products and services offered and in this context, events such as fairs, symposiums and meetings are organized and/or participation in the organized events is ensured. In addition, efforts are being made to have the prepared documentaries and/or introductory films broadcast by national or local broadcasting organizations, and theater performances are being organized to increase love and awareness of forests.

5.2 Development and Expansion of Forests

Developing existing forests and increasing their productivity and expanding forest areas by establishing new forests on suitable lands constitute the second basic activity group of our forestry.

5.2.1 Forest Maintenance, Regeneration and Rehabilitation

Forest maintenance measures are silvicultural practices that require different technical interventions depending on the stage of stand development. The main purpose of the practices is to ensure that the economic, ecological and social functions enabled by the current ecological conditions are produced in forests at the lowest cost, in the highest quality and quantity, in a way that constantly meets the needs of the society, and to create forests that are resistant to external effects and that can fulfill these functions in the best way. The work programmes prepared within this scope were put into practice, Forest Trees Pruning Action Plan (2015-2019),

¹¹ Due to the technical and legal problems arising from the separate conduct of forest cadastral studies and land cadastral studies, a revision was made in the Cadastre Law No. 3402, and the studies were brought together and started to be carried out simultaneously.

¹² 6,800,000 people live in 22,912 forest villages/neighborhoods, and villages with state forests within their territorial borders and neighborhoods in metropolitan cities with state forests within their territorial borders are defined as forest villages.

Cedar Forests Rehabilitation Action Plan II (2015-2019) and Chestnut Action Plan (2013-2017) were implemented.¹³

5.2.2 Afforestation

The implementation process of the “Industrial Afforestation Action Plan (2013-2053)”, which was prepared for the sustainable management of our country’s forest resources and to meet the wood raw materials required by the forest industry, is ongoing, and the activities carried out for the purpose of diversifying the income sources of the rural population and contributing to the country’s economy are planned and finalized within the framework of the prepared action plans and work programmes.

5.2.3 Sapling and Seed Production

Saplings are produced in 138 forest nurseries established on an area of 3,290 hectares, and 854 different types of saplings are produced, consisting of ornamental plants and coniferous and deciduous forest tree species, especially black pine, yellow pine, red pine and stone pine, etc. The seeds needed for sapling production are obtained from seed stands and seed orchards consisting of high-quality trees, and throughout the country, 319 genetically conserved forests with an overall area of 42,647.7 hectares and a core area of 22,178.7 hectares from 60 tree species, 315 seed stands from 33 tree species with an overall area of 41,670.9 hectares and a core area of 18,152.2 hectares, a total of 20 seed plantations from 16 tree species with an area of 54.3 hectares, 182 seed orchards from 11 tree species with a total area of 1,410.8 hectares, and a total of 23 clone parks from 6 tree species with an area of 59.4 hectares were established.¹⁴

5.2.4 Conservation, Development and Effective Use of Soil Resources

The “Çoruh River Basin Rehabilitation Project” and the “Murat River Basin Rehabilitation Project”, which were prepared based on the experiences gained from the “Eastern Anatolian Water Basins Rehabilitation Project” and “Anatolian Water Basins Rehabilitation Project”, which handled the rehabilitation of natural resources, especially erosion control activities, within the basin integrity, were put into practice in 2012. Erosion control and flood/avalanche/landslide control activities carried out within the scope of both integrated basin improvement projects and action plans prepared and implemented with relevant institutions and organizations under the coordination of the Ministry are included in the scope of activities.¹⁵

5.3 Management of Forests

Addressing the economic, ecological, social and cultural functions of forests within an ecosystem integrity and managing forests according to sustainable forest management principles constitute another activity group of our forestry.

5.3.1 Planning of Forests

According to the Forest Law No. 6831, all forests are managed and operated according to management plans. In order to meet the society’s demand for forest products and to ensure sustainable management of forests by taking into account silvicultural requirements of forests, the priority functions of forests and forest resources should be determined with participatory approaches and the continuity of utilization should be ensured; first of all, it depends on the continuity of forest resources, and the continuity of forests depends on a planned forest management

¹³ Programme data regarding the activities and/or projects determined by the Chestnut Action Plan were expanded to include the year 2019.

¹⁴ Considering the ecological situation of our country and the distribution of nurseries, there are Seed Stock Centers with a capacity of approximately 310 tonnes in 20 Regional Directorates of Forestry.

¹⁵ Avalanche control activities were included in the scope of the activities since 2009 and landslide control activities, since 2012, and the activities carried out within the scope of the “Protocol on Soil Conservation Activities to be Carried Out in Pasture Areas for Afforestation Mobilization” were also evaluated within the scope of the activity. The implementation process of the Erosion Control Action Plan, prepared with the relevant institutions and organizations under the coordination of the Ministry, was completed in 2018, and the programme data regarding the activities and/or projects determined by the Dam Basins Green Belt Afforestation Action Plan and the Upper Basin Flood Control Action Plan were expanded to cover the year 2019.

In this respect, making forest management plans or having them made, monitoring and controlling the implementation process, as well as preparing inventory data required by forestry services are among the priority areas of activity of the General Directorate of Forestry.

5.3.2 Production and Marketing of Wood-Based Forest Products

As a result of forestry activities carried out in forest areas within the framework of forest management plans, forest products such as logs, utility poles, mine poles, industrial wood, pulpwood, fiber-chip wood, stakes, sticks and firewood are supplied and these products are used for construction, furniture, mining, fiberboard and chipboard and paper industries and other wood-based industries. Annual wood consumption in our country is 32 million m³. Approximately 26.3 million m³ of this is produced by the General Directorate of Forestry, the remaining 5 million m³ is supplied by the private sector and 1.5 to 2 million m³ is supplied through import.

In previous years, the annual average industrial wood production of 7 million m³ reached 22.1 million m³ as a result of intensive maintenance interventions in forests in parallel with the increase in capacity in the sector.¹⁶ One of the applications adopted in the international process is the certification initiative of forests and forest products. Attention is paid to the principles of sustainable forest management with certification on the one hand, the way is paved for the wood products sector in international trade on the other. Efforts to expand the “Forest Management Certification” in our country have been started in 2010 and the efforts are ongoing.

5.3.3 Production and Marketing of Non-Wood Forest Products

Our forests, which have a rich biodiversity, also have a significant potential in terms of non-wood forest products. Necessary studies are carried out in order to ensure sustainable production of non-wood forest products and to protect biodiversity in forest areas, and action plans prepared in this context are implemented.

5.3.4 Strengthening the Forestry Infrastructure

Forest roads provide services for the performance of many forestry activities such as protection, production and maintenance, and the activities for building of new forest roads, construction of superstructures and engineering structures needed to keep the forest roads accessible, maintenance and repair of the forest roads and standardization of nonstandard forest roads are carried out within the framework of the programmes prepared every year.

5.3.5 Other Products

The functional benefits obtained from wood-based and non-wood products produced from forests are increasingly being recognized by wider segments of society. Also, activities on water production, which is derived as an output and is considered as an increasingly important topic on the agenda recently, water quality improvement, and functions related to biomass and carbon storage in forests and oxygen production are important topics.

In addition, planning activities for the spread of ecotourism, and identification and planning of recreational areas, completion of infrastructure and superstructure facilities and making them available for public use are also among the activity elements.

¹⁶ Communiqué No. 288, which regulates the production process of wood-based forest products, was repealed as of 01.01.2020, and Communiqué No. 310 was put into effect. By the Communiqué No. 310, the work-time tables used in production processes were recreated by taking into account the current conditions, the developments and new approaches, technological developments and the methods applied, and new arrangements were made according to new needs.

6. Management and Internal Control System

The principles and procedures regarding the establishment, organization, duties and authorities of the General Directorate of Forestry are regulated by the “Presidential Decree on the Organization of the Institutions and Organizations Associated, Related and Affiliated to the Ministries and Other Institutions and Organizations”. The duties assigned to the General Directorate of Forestry are carried out by the units and sub-units specified in the organizational structure, under the responsibility of the spending authorities.

In the process of establishing and implementing the internal control system, the studies summarized below were concluded in 2019.

- 1- The Strategic Plan 2019-2023 of the General Directorate of Forestry, prepared in accordance with the Regulation on the Procedures and Principles Regarding Strategic Planning in Public Administrations, was put into effect on 01.01.2019.¹⁷
- 2- The Implementation Guide on Sustainable Forest Management Criteria and Indicators was prepared, 40 quantitative indicators, 116 sub-indicators and more than 200 variables were associated with the relevant criteria. In addition, a total of 11 qualitative indicators were detailed under the main headings of plan-programme, financing, organization, information technology and institutional framework as well as separate political and institutional tools for 6 criteria.¹⁸
- 3- The Action Plan for Compliance with Internal Control Standards of the General Directorate of Forestry was revised to cover the period 2019-2023.¹⁹
- 4- A survey was conducted among the units for the evaluation of the internal control system and an “Internal Control System Evaluation Report” was prepared.
- 5- Considering the Corporate Risk Management Directive, the risks for each target in the strategic plan were identified and control activities were determined.
- 6- The annual evaluation process for sensitive tasks identified on a unit basis was completed considering the Guidance on Determining Sensitive Tasks.
- 7- The internal control portal application was launched, the Spending Units Guide and the Glossary of Internal Control Terms were prepared.
- 8- The “Directive on Internal Control and Preliminary Financial Control of the General Directorate of Forestry”, which was prepared and put into practice within the framework of the Regulation on the Procedures and Principles Regarding Internal Control and Preliminary Financial Control, was revised and updated.
- 9- Apart from the controls carried out within the framework of the Regulation on the Procedures and Principles Regarding Internal Control and Preliminary Financial Control, the high-risk documents of the central and provincial expenditure units to be subject to preliminary financial control were re-evaluated in 2019 and the necessary actions/procedures were carried out on the documents to be subject to control, and 20 commitment documents and draft contracts, 46 progress payment order documents, 555 payment order documents and 43 staff distribution tables were checked and found appropriate and/or approved, and also 46 preliminary tender permission procedures were carried out.
- 10- Quality Management System ISO 9001:2015 was updated and in this process, “ISO 9001 Quality Management System Training” was provided. In addition, the Quality Manual, Procedures, Forms and Risk-Based Processes were evaluated and the surveillance audit was successfully completed and the system was approved.
- 11- Within the scope of the Mitigation of Bureaucracy and Digital Türkiye Project, the list of services offered to citizens, private sector, non-governmental organizations or other public institutions and identified electronically with the service inventory number and general information regarding them were updated and the “2018 Forestry Statistics” were published within the framework of the Official Statistics Programme carried out by the Turkish Statistical Institute and the Ministry of Agriculture and Forestry.

As a result of administrative and technical inspections carried out to ensure that forestry activities are carried out effectively, efficiently and in accordance with economic management principles, a total of 318 reports of different types were prepared and implemented.

¹⁷ With the Presidential Government System, the ministries were restructured, and the announced Presidential 100-Day Executive Programme includes the renewal of strategic plans to cover the period “2019-2023”. Within the scope of Law No. 5018, the relevant Regulation and the Presidential 100-Day Performance Program, the Strategic Plan 2017-2021 of the General Directorate of Forestry has been revised to cover the period 2019-2023.

¹⁸ In line with the principles included in the prepared implementation guide, it is aimed to prepare the “Türkiye Sustainable Forest Management Criteria and Indicators Report 2019”.

¹⁹ With the Public Internal Control Standards Communiqué published in the Official Gazette dated 26.12.2007 and numbered 26738, 18 standards and 79 general conditions required for these standards were determined for the establishment, implementation, monitoring and development of the internal control system in public administrations. In the process of establishment, implementation, monitoring and development of the Public Internal Control System by the General Directorate of Forestry, the Action Plan for Compliance with Internal Control Standards was prepared and the Plan was revised in 2013-2017 and 2019.

Table 16: Number of Inspection Reports Issued and Implemented, 2015-2019

	Unit	2015	2016	2017	2018	2019
Inspection Reports	Number	100	103	115	76	106
Disciplinary Investigation/Investigation Reports	Number	36	50	59	62	54
Preliminary Inspection Report	Number	23	8	20	17	12
Inspection Reports with Response	Number	109	73	100	82	130
Consignment Reports	Number	4	11	13	11	9
Judicial Investigation/Investigation/Regulation Reports	Number			10	9	7

Also, Internal Audit Plan for the Period 2019-2021 and Internal Audit Programme 2019 have been prepared, and 2 system and 14 compliance audits included in the programme as well as 1 non-programme inspection have been carried out.

Table 17: Number of Internal Audits Performed, 2015-2019

	Unit	2015	2016	2017	2018	2019
Compliance Audits	Number		3	1	6	15
Financial Audits	Number		3	1		
System Audits	Number	12	6	2	6	2

Table 18: Number of Internal Audit Reports Issued, 2015-2019

	Unit	2015	2016	2017	2018	2019
Internal Audit Reports	Number	12	12	4	12	17
Inspection Reports	Number	1	1	1	1	1
Consulting Reports	Number		1		1	

17 internal audit reports and 1 inspection report were prepared, application errors were evaluated within the framework of the legislation, and suggestions for improvement were reflected in the reports. An internal evaluation for 2018 was made within the framework of the Quality Assurance and Development Programme, and it was stated in the review report that it was “Generally Compliant with Public Internal Audit Standards”.

During the 2018 Performance Audit process conducted by the Court of Accounts, the Strategic Plan 2017-2021, the Performance Programme 2018 and the Administrative Activity Report 2018 of the General Directorate of Forestry were examined in terms of compliance criteria (availability, timeliness, presentation) with reporting requirements and as a result of this examination, it was determined that the strategic plan, performance programme and activity report met the criteria of availability, timeliness and presentation.

In addition, the strategic plan and performance programme were evaluated in terms of relevance, measurability and good definition of the content of performance information, and the activity report was examined in terms of consistency, verifiability, validity/persuasiveness of the content of performance information and as a result of these evaluations and examinations, it was concluded that the plan, programme and report were in compliance with the criteria, except for the issues in the findings summarized below.

Basis for Audit Opinion	Activities Initiated and/or Concluded for Detection
Not retrieving the information in the activity report from an integrated data recording system There is no integrated data system to monitor the activities related to the indicators in the strategic plan and performance programme of the institution.	The report analyzing the progress in all modules on the Forest Information System, the problems encountered and the priority issues was updated. The necessary actions are being developed for the implementation of the modules on the system.

For the examined data recording system, it was considered that the performance information reflects the realizations accurately and completely, except for the issues in the findings, that it does not include issues that are not related to the realizations based on the definition of the indicator, and therefore the examined data recording system is partially appropriate for the target of measuring and reporting performance in terms of targets and indicators.

II. GOALS AND TARGETS

1. Goals and Targets of the Administration

The **mission** of the General Directorate of Forestry in the 2019-2023 Strategic Plan is “to protect forests and forest resources, to develop them with an understanding close to nature, and to manage them in a way that is sustainable and provides multifaceted benefits to the society within the integrity of the ecosystem”, and its **vision** is “to be a leading institution in sustainable forest management practices”, and the following strategic goals and targets have been determined.

STRATEGIC GOAL (G1): TO PROTECT FORESTS AND FOREST RESOURCES AGAINST BIOTIC AND ABIOTIC PESTS

Target (T1.1): Preventive actions will be increased for fight against forest fires and response capacity will be strengthened.

Target (T1.2): The health of forest ecosystems will be monitored, and forest existence and health will be protected by taking natural or nature-friendly preventive actions for disease and pest control.

Target (T1.3): The registration of forest areas with finalized cadastre will be ensured and ownership problems will be resolved.

Target (T1.4): Socio-economic development in forest villages will be supported.

STRATEGIC GOAL (G2): TO DEVELOP FORESTS, INCREASE THEIR PRODUCTIVITY AND EXPAND THEIR AREAS

Target (T2.1): Wood quality and seed and fruit productivity will be increased, and silvicultural maintenance measures for the establishment of healthy forests will be increased.

Target (T2.2): Productive forest area will be increased to 14,000,000 hectares.

Target (T2.3): The implementation rate will be increased from 9% to 100% in a total potential area of 330,000 hectares determined to be suitable for industrial afforestation.

Target (T2.4): Our forest presence will be increased to 30% of the total area of the country.

Target (T2.5): Erosion will be controlled and pasture improvement activities will be developed to reduce soil loss.

STRATEGIC GOAL (G3): TO ENSURE THAT THE SOCIETY BENEFITS FROM THE GOODS AND SERVICES PRODUCED BY FORESTS AT THE OPTIMUM LEVEL

Target (T3.1): In accordance with the multi-purpose utilization of 6,868,000 hectares of forest area, inventory will be prepared and the management plan will be renewed.

Target (T3.2): Quality and productivity of wood-based forest products will be increased, costs will be reduced and sustainable competition will be ensured in domestic and foreign markets.

Target (T3.3): Ecotourism services will be expanded, and non-wood forest product diversity and production will be increased.

Target (T3.4): Considering national conditions and international developments, a standardization and certification system will be developed for forest products, and the area of certified forests will be increased.

Target (T3.5): Forestry infrastructure will be strengthened, and pilot applications will be carried out to improve road standards in forests whose main function is production.

STRATEGIC GOAL (G4): TO IMPROVE INSTITUTIONAL CAPACITY

Target (T4.1): Research and development projects will be prepared and implemented to solve problems in the field of forestry, to develop new techniques and to ensure effective governance. -

Target (T4.2): In order to ensure institutionalization in strategic management, financial, legal, administrative and human resources will be developed.

Target (T4.3): Information systems and technology infrastructure will be completed, and forest information system will be developed and expanded.

2. Basic Policies and Priorities

Basic policies, priorities and targets related to forestry and forest resources management are included in the ongoing development plans and programmes and national, regional and sectoral strategy documents as summarized below.

High-Level Policy Document**Policies and Measures, Targets, Actions and Projects**

Eleventh
Development Plan
(2019-2023)

Completing the National Forest Inventory study

Strengthening the capacity to fight diseases and pests and fires in forestry.

Continuing to support forest villagers within certain programmes, and increasing professionalization through training activities to ensure increased quality production and labor productivity in forestry

Enabling establishment of industrial plantations with fast-growing species in order to meet the need for wood raw materials

Expanding the use of wood and identifying its standards

National Forestry
Programme of
Türkiye (2004-2023)

Protecting forests and their areas, biological diversity and natural structures and protecting them against biotic and abiotic pests

Development of the existing forests

Establishment of forests on suitable areas other than forests and expansion of forest areas

Sustainable provision of ecological, economic, social and cultural multifaceted benefits from forests at local, national and global levels, equitable sharing of these benefits and offering for the benefit of society

Climate Change
Strategy of Türkiye
(2010-2023)

Taking effective measures against possible insects, fungi and similar pests that may increase in number in forest areas in parallel with the increase in temperatures

Developing and expanding efforts to combat desertification and erosion

Giving priority to erosion and sediment control projects in all basins, especially dam and pond basins

Accelerating the efforts to prevent forest fires that will increase due to the adverse impacts of climate change and to protect sink areas that decrease due to deforestation and to protect and develop natural forests and the afforestation activities

Evaluation of the impacts of climate change on our country's forests

High-Level Policy Document	Policies and Measures, Targets, Actions and Projects
Climate Change Action Plan of the Republic of Türkiye (2011-2023)	Developing new methods and techniques to increase effectiveness in combating disease and pest damage Increasing preventive measures in fighting forest fires, improving existing early warning systems Ensuring that European applications on the Forest Ecosystems monitoring Level I and Level 2 Programme are carried out in an integrated way with the National Forest Inventory Identifying the sites transformed from forest areas into meadows, pastures, grasslands, settlement lands, wetlands, agricultural lands and other lands Establishing a monitoring system that will facilitate and guide combat against forest damage, integrating it to the proposed Forest Inventory and Monitoring System Developing a decision support mechanism for classification of land use in accordance with IPCC standards, and for monitoring the changes Educating forest villagers on the importance of forests and protection of forests in climate change Delivering training and awareness raising activities for villagers, especially women, on ensuring economic use of energy and heat insulation in forest villages Conducting preliminary evaluation studies that take into consideration the biodiversity, wildlife, hydrology and carbon storage functions in afforestation or improvement activities in non-forest or forestside pasture areas and in-forest clearings Integration of data related to natural disasters such as floods, overflows, avalanches, landslides, etc, into the Forest Inventory and Monitoring System Preparing the necessary technical and administrative guidelines to increase the number of short-rotation coppice enterprises Ensuring that energy forestry activities are science based, and determining the potential for energy forestry in our country Encouraging energy forestry in lands that are not ecologically or economically suitable for agricultural use Identifying the industrial plantation areas for wood production, and the production capacities of these areas as well as the tree species to be used Establishing an afforestation monitoring system and integrating it to the Forest Inventory and Monitoring System Making an assessment on keeping records of the sectors and utilization areas of the cut timber Conducting R&D studies to identify and monitor the effects of climate change on steppe ecosystems (indicative species, sensitive ecosystems) Conducting R&D studies to identify and monitor the effects of climate change on inland water ecosystems (wetlands, peatlands, lakes, rivers) (indicative species, sensitive ecosystems) Conducting R&D studies to identify and monitor the effects of climate change on marine ecosystems (indicative species, sensitive ecosystems) Conducting R&D studies to identify and monitor the effects of climate change on mountain ecosystems (indicative species, sensitive ecosystems) Identifying the sink potential in forests and making the relevant cost analyses Conducting R&D studies to identify and monitor the effects of climate change on natural, cultural and visual landscapes

High-Level Policy Document**Policies and Measures, Targets, Actions and Projects**

Climate Change Action Plan of the Republic of Türkiye (2011-2023)

Making an assessment to estimate the greenhouse gas sink potential that may arise in LULUCF reporting of the Kyoto Protocol

Identifying the potential of forestry activities to benefit from UNFCCC and KP instruments (Carbon markets, REDD+, etc.), and their respective carbon sequestration potential

Determining the socioeconomic effects of climate change on forest villagers

Developing a financial mechanism under the responsibility of the General Directorate of Forestry to support R&D studies on combating climate change and adaptation to climate change

Identifying and monitoring the impacts of climate change on forestry activities, forest ecosystems and species

Identifying the effects of the temperature increase and change in precipitation regime due to climate change on forest ecosystems and species

Identifying and monitoring the impacts of climate change on forest fires, and incorporating the data onto fire risk maps

Including necessary risk preparation/prevention against forest fires caused by climate change within the scope of local/regional planning activities

Diversifying the livelihood activities of forest villagers, and shifting to other activities if necessary, so as to ensure minimization of the risks of climate change on their livelihoods

Identifying the carbon sequestration potentials of the maquis and steppes lands, which spread across wide areas in our country

Including necessary risk preparation/prevention against forest fires caused by climate change within the scope of local/regional planning activities

Developing and implementing models on carbon cycle and sinks

Measuring the effects of atmospheric pollution, climate change and other factors on forests and evaluating the findings

Allocation of more funds to projects on climate change and forest-pasture-agriculture ecosystems, from existing R&D funding sources, and mainly from the R&D support mechanisms of the General Directorate of Forestry

National Strategy and Action Plan to Combat Desertification (2015-2023)

Developing monitoring and early warning systems based on modern technology to ensure more efficient forest protection and firefighting

Preparing and implementing risk reports within the scope of monitoring forest health

Establishing the necessary technical, administrative and hardware infrastructure for efficient monitoring of forest ecosystems

Developing and implementing a system to monitor biodiversity and ecosystem services in forests and pasture lands

Implementing research projects and sharing results with related institutions to identify possible effects of the climate change on natural habitats, biological diversity and pasture lands as well as necessary harmonization

High-Level Policy Document**Policies and Measures, Targets, Actions and Projects****National Strategy and Action Plan to Combat Desertification (2015-2023)**

Improving income variety, ensuring employment and providing grant and loan supports to decrease dependency and pressure of forest villagers on forests (including non-registered regions) in order to ensure socioeconomic welfare of forest villagers

Implementing legislation based measures to mitigate desertification/land degradation related problems

Carrying out suitable erosion control activities in priority areas under erosion risk

Preparing rehabilitation plans for in-forest pastures, implementing respective rehabilitation practices in line with biological diversity and ecosystem services preservation

Implementing awareness raising studies about sustainable use of forests and pasture lands and preservation of soil and water resources to target women as well

Developing degraded forest areas, especially dryland forests, within the framework of SFM (Sustainable Forest Management) criteria, carrying out afforestation activities with appropriate species and methods in order to increase the forest area

Rehabilitating mining sites

Developing indicators, inventory and assessment methods related to land degradation and hydrological functions for sustainable forest management, preparing functional management plans, making appropriate revisions to forest management planning guidelines and legislation

Implementing activities, particularly integrated basin rehabilitation practices and management plans for holistic and participative preservation and development of natural resources in line with sustainable land management principles

Increasing the amount of forest areas with sustainable forest management certification

Identifying non-wood products and services in forests and in-forest pasture lands, preparing sustainable use plans in line with exploitation and preservation balance

Developing and implementing systems to integrate into forest management of, and monitor biodiversity and ecosystem services in forests and pasture lands

National Biodiversity Strategy and Action Plan (2007)

Monitoring ecosystems, species and populations that are under pressure in a programme integrating biotic and abiotic parameters

Identification of forest ecosystems under pressure and classification according to their threat status

Strengthening administrative and logistic infrastructure for the designation of new protected areas in forest ecosystems starting from the priority ecosystems and hot points, and for the finalization of the management plans of the existing protected areas and their effective

Integration and implementation of forest management plans and application rules to support the sustainable use of forest ecosystems and the conservation of biological diversity

Making research results and the information obtained from the monitoring programme available to decision-makers, users and other stakeholders so that the status and tendencies of forest biological diversity can be better evaluated

High-Level Policy Document**Policies and Measures, Targets, Actions and Projects**

National Basin Management Strategy (2014-2023)

Carrying out erosion control, afforestation and in-forest pasture rehabilitation activities on an area of 1,620,000 hectares by 2023

Ensuring that the amount of sediment carried by erosion, which is currently 250 million tonnes per year, be reduced to 150 million tonnes in 2023 with the erosion control activities

Preparing and implementing basin rehabilitation, flood, avalanche and landslide projects against natural disasters in upper basin areas

Preparing and implementing large-scale integrated and participatory basin rehabilitation projects in suitable basins to carry out basin conservation and rehabilitation activities together with activities to improve the living and income conditions of low-income people who put pressure on natural resources

Increasing the normal/productive forest areas, which currently constitute 50% of the forests in basins, to 75% in 2023 with the rehabilitation and afforestation activities in degraded forest areas

Increasing the sink capacity in forest areas in basins (increasing the carbon sink amount, which is currently 15.5 million tonnes per year, to 16.7 million tonnes in 2015 and 20 million tonnes in 2023)

Developing the utilization of non-wood forest products, increasing the amount of products produced and marketed and the income of local villagers from these products by at least 25%

National Rural Development Strategy (2014-2020)

Development of income-generating activities for forest products

National Strategy for Regional Development (2014-2023)

Support for the construction of ponds for animal drinking water and firefighting

Support for the planting of perennial plants and feed crops within the scope of combating erosion

Creating green development programmes based on sustainability for villages established in mountainous areas and forest villages

Initiating special development programmes for settlements in and around conserved areas

EU Integrated Environmental Approximation Strategy (2007-2023)

Creating the necessary technical infrastructure within the scope of establishment of biodiversity monitoring systems, determining indicators for monitoring

Energy Efficiency Strategy (2010-2023)

Activating efficiency-enhancing practices in buildings and facilities

Forestry Policy Document (2017)

Completing the National Forest Inventory

Developing management systems that include comprehensive information on the dimensions and value of ecosystem services

Revising the legislation based on the experiences of countries that have revised their forest legislations

Establishing a forest advisory body to ensure greater participation and transparency in forest resource management

Establishing new procurement and purchasing structures to increase competitiveness

High-Level Policy Document**Policies and Measures, Targets, Actions and Projects**

Forestry Policy Document (2017)

Analyzing the component processes of the supply chain to obtain an up-to-date view of the current procurement and purchasing costs in the sector

Identifying the current configuration of the supply chain and the resulting efficiency issues regarding the interaction between suppliers (mainly the General Directorate of Forestry), buyers and loggers (including villages and cooperatives)

General Directorate of Forestry's comparing itself with similar public institutions in terms of financial, environmental and social parameters, etc.

Investing in forest roads and making the necessary expansion of harvest infrastructure to increase production

Following a planned and phased approach in cooperation with the wood industry

Increasing the scale of afforestation by ensuring the participation of the private sector and developing the private forestry sector

Planting tree species that are more drought-resistant and conducting studies to fully understand their impacts at the ecosystem level so that all environmental services of forests can be provided without interruption

Expanding national forest inventory studies to the whole country to help monitoring and reporting of biodiversity in forests

Identifying the current status of the resource, identifying the non-wood forest products that offer the best opportunity in terms of harvesting, processing, marketing and export, transferring user rights to forest villages through amendments to the forest law and ensuring that provisions regarding sustainable management be added in order to ensure the sustainable development of non-wood forest products

Developing implementation principles for the harvest of non-wood forest products to prevent overuse, incorrect timing and poor storage conditions

III. INFORMATION AND ASSESSMENTS RELATED TO ACTIVITIES

A. FINANCIAL INFORMATION

1. Budget Implementation Results

In 2019, a total of TRY 3,310,410,000 was allocated to our General Directorate with the Central Administration Budget Law, and the year-end appropriation was increased to TRY 3,708,028,722 as a result of the additions and transfers carried out during the year.²⁰

Table 19: Economic Classification of Budget Expenses, 2019

Expense Type	Budget Appropriation	Transfers		Blocked	Year-End Appropriation	Year-End Expenditure	Balance
		Added	Deducted				
01 Personnel Costs	1,928,812,000	2,282,000			1,931,094,000	1,845,844,648	85,249,352
02 Social Security Institution State Premium Costs	417,561,000	475,000			418,036,000	390,359,912	27,676,088
03 Goods and Services	210,367,000	76,750,700			287,117,700	279,740,445	7,377,255
05 Current Transfers	97,530,000	24,820,000			122,350,000	122,118,827	231,173
06 Capital Expenditure	452,200,000	280,706,022	19,415,000		713,491,022	635,680,534	77,810,487
07 Capital Transfers	42,152,000	16,000,000			58,152,000	56,772,810	1,379,190
08 Loaning	161,788,000	16,000,000			177,788,000	164,114,862	13,673,138
TOTAL	3,310,410,000	417,033,722	19,415,000		3,708,028,722	3,494,632,038	213,396,683

Main service units and implementation units are under the Economic Affairs and Services function, and 99.51% of the total use of appropriation was realized under this functional code.

Table 20: Functional Classification of Budget Expenses, 2019

Function	Budget Appropriation	Transfers		Block	Year-End Appropriation	Year-End Expenditure	Balance
		Added	Deducted				
01 General Public Services	18,272,000	1,638,000			19,910,000	16,940,064	2,969,936
02 Defense Services	472,000				472,000	10,983	461,017
04 Economic Affairs and Services	3,291,666,000	415,395,722	19,415,000		3,687,646,722	3,477,680,991	209,965,730
	3,310,410,000	417,033,722	19,415,000		3,708,028,722	3,494,632,038	213,396,683

The cash realization rate of the Economic Affairs and Services Function was 94% and the same rate was 85% in General Public Services and 2% in Defense Services.

Table 21: Budget Appropriation and Expenditure Amounts by Units, 2019

Expenditure Unit		Budget Appropriation	Year-End Appropriation	Year-End Expenditure	Balance
40.17.00.02	Private Secretarial Services	2,231,000	2,248,000	1,756,435	491,565
40.17.00.04	Department of Support Services	13,918,000	14,778,000	11,130,204	3,647,796
40.17.00.05	Department of Personnel	94,802,000	120,060,000	119,989,573	70,427
40.17.00.10	Department of Information Systems	58,332,000	51,952,000	14,686,895	37,265,105

²⁰ In the new State Accounting Information System, the offset period processes and transactions are continued. In this respect, the special budget financial statements could not be reflected in the activity report. The data under the title Financial Information/Budget Implementation Results were retrieved from the e-budget records. 12/02/2020

Expenditure Unit		Budget Appropriation	Year-End Appropriation	Year-End Expenditure	Balance
40.17.00.12	Department of Foreign Relations, Training and Research	4,798,000	5,275,000	5,170,572	104,428
40.17.00.20	Department of Inspection Board	15,837,000	16,237,400	15,749,534	487,866
40.17.00.23	Department of Strategy Development	3,200,000	3,220,000	3,186,315	33,685
40.17.00.24	Department of Legal Consultancy	1,182,000	1,282,000	1,252,001	29,999
40.17.00.61	Regional Directorates of Forestry-Research Institute Directorates	2,840,154,000	3,089,935,222	2,939,529,043	150,406,179
40.17.31.00	Department of Cadastre and Ownership	41,657,000	126,359,100	122,409,900	3,949,200
40.17.32.00	Department of Forest Management and Planning	9,333,000	13,576,000	13,265,829	310,171
40.17.33.00	Department of Operations and Marketing	1,945,000	2,170,000	2,042,628	127,372
40.17.34.00	Department of Silviculture	1,419,000	1,419,000	1,306,983	112,017
40.17.35.00	Department of Construction and Procurement	2,286,000	2,726,000	2,705,958	20,042
40.17.36.00	Department of Forest Pest Control	6,762,000	11,887,000	9,913,385	1,973,615
40.17.37.00	Department of Fighting Forest Fire	170,124,000	190,324,000	189,063,742	1,260,258
40.17.38.00	Department of Afforestation	4,881,000	6,635,000	5,090,243	1,544,757
40.17.39.00	Department of Soil Conservation and Basin Improvement	13,300,000	24,243,000	19,186,473	5,056,527
40.17.40.00	Department of Forest and Village Relations	16,356,000	15,942,000	9,777,737	6,164,263
40.17.41.00	Department of Non-Wood Products and Services	1,987,000	2,032,000	2,014,434	17,566
40.17.42.00	Department of Nursery and Seed Operations	2,881,000	2,703,000	2,594,674	108,326
40.17.43.00	Department of Permission and Easement	3,025,000	3,025,000	2,809,479	215,521
TOTAL		3,310,410,000	3,708,028,722	3,494,632,038	213,396,685

Table 22: Economic Classification of Budget Expenses, 2017-2019

Expense Type		2017	2018	2019
01	Personnel Costs	1,397,366,238	1,575,626,895	1,845,844,648
02	02 Social Security Institution State Premium Costs	309,108,232	344,380,967	390,359,912
03	Goods and Services Procurement Costs	238,598,254	244,574,261	279,740,445
05	Current Transfers	103,267,217	95,105,008	122,118,827
06	Capital Expenditure	1,057,175,135	903,904,968	635,680,534
07	Capital Transfers	31,558,194	40,714,955	56,772,810
08	Loaning	129,160,937	128,495,737	164,114,862
TOTAL		3,266,234,207	3,332,802,791	3,494,632,038
NET FUNDING		-1,000,000	-1,000,000	-10,000,000

In the initial budget, the total of own revenues is TRY 1,900,000,000 and corresponds to 57% of total expenses. In other words, it was planned to finance 57% of the expenses to be made in 2019 from own revenues; as of the end of the year, own revenues were TRY 2,399,043,448 and expenses were TRY 3,494,632,038, and the coverage ratio of own revenues to expenses was 69%.

Table 23: Economic Classification of Budget Revenues, 2017-2019

Revenues	2017	2018	2019	
			Planned	Realization
03 Revenues from Enterprises and Properties	1,339,326,696	1,395,609,538	1,345,863,000	1,830,230,985
04 Donations and Aids Received and Special	1,495,411,378	1,148,808,273	1,413,627,000	993,251,066
05 Other Revenues	535,665,084	515,086,152	532,914,000	477,543,838
06 Capital Gains	825,954	265,064	726,000	19,275
08 Collection from Receivables	17,529,017	29,144,068	7,280,000	57,836,284
TOTAL	3,388,758,129	3,088,913,095	3,300,410,000	3,358,881,448

The total of own revenues amounted to TRY 2,399,043,448 including:

- Permit revenues from forest areas of TRY 1,789 million,
- State right revenues from mines of TRY 85 million,
- Forest villagers support fund revenues of TRY 150 million,
- Afforestation fund revenues of TRY 60 million,
- Total of other own revenues of TRY 315 million

In addition, TRY 959,838,000 of the total treasury aid of TRY 1,400,410,000 was collected.

2. Revolving Fund Implementation Results

In 2019, the total revenue budget was estimated to be TRY 4,850,000,000 including goods and services revenues of TRY 4,673,783,479, capital income of TRY 548,221 and other revenues of TRY 175,668,300 and a revenue budget of TRY 5,215,000,000 was created with additional budgets made during the year upon positive developments in the market of forest products, and TRY 5,708,003,961 was realized at the end of the year.

Table 24: Revolving Fund Revenues, 2019

Revenues	2019	
	Revised Budget	Realization
Revenues from Forest Products Sales	4,945,148,925	5,270,285,620
Revenues from Sapling Sales	33,696,479	113,904,901
Non-Wood Revenues	47,132,075	63,929,386
Other Revenues	189,022,521	259,884,054
TOTAL	5,215,000,000	5,708,003,961

In return for projected revenues, an expense budget of TRY 5,215,000,000 was projected, including investment expenses of TRY 563,873,562 and current expenses of TRY 4,651,126,438.

Table 25: Revolving Fund Expenses, 2019

Expenses	2019	
	Revised Budget	Realization
01 Personnel Costs	1,206,457,321	1,191,623,703
01.01 Officers	478,101,114	463,267,496
01.02 Contract Employees	14,357,261	14,357,261
01.03 Workers	708,876,867	708,876,867

01.04 Temporary Employees	5,122,079	5,122,079
02 Social Security Institution State Premium Costs	168,680,622	158,597,706
02.01 Officers	21,933,841	21,933,841
02.02 Contract Employees	2,191,953	2,191,953
02.03 Workers	144,476,270	134,393,354
02.04 Temporary Employees	78,558	78,558
03 Goods and Services Procurement Costs	2,781,457,109	2,781,457,109
03.01 Goods and Materials Procurement for Production	2,326,277	2,326,277
03.02 Goods and Materials Procurement for Consumption	244,401,668	244,401,668
03.03 Travel Expenses	29,376,699	29,376,699
03.04 Mission Expenses	50,124,759	50,124,759
03.05 Service Procurement	2,110,691,569	2,110,691,569
03.06 Representation and Promotional Expenses	20,500,893	20,500,893
03.07 Movable Goods and Intangible Rights Purchase, Maintenance and Repair Expenses	158,461,395	158,461,395
03.08 Real Estate Maintenance and Repair Expenses	165,573,849	165,573,849
05 Current Transfers	333,229,386	333,229,386
05.01 Mission Losses	4,619,971	4,619,971
05.03 Aid to Non-Profit Organizations	982,282	982,282
05.08 Shares from Revenues and Profits	317,589,684	317,589,684
05.09 Other Transfers	10,037,449	10,037,449
06 Capital Expenditure	725,175,562	680,208,850
06.01 Finished Goods Procurement	466,058,275	466,058,276
06.02 Securities Production Expenses	90,200,208	90,200,208
06.03 Purchases of Intangible Rights	15,361,227	15,361,227
06.05 Real Estate Capital Production Expenses	137,233,218	92,266,505
06.07 Real Estate Major Repair Expenses	16,322,634	16,322,634
TOTAL	5,215,000,000	5,145,116,754

3. Descriptions regarding Key Financial Statements

The 2019 year-end special budget appropriation used was TRY 3,494,632,038, and the ratio of budget expenditure to the initial budget was 106% and the ratio to the year-end budget was 94%.

A transfer was made in the necessary economic codes as of the first level during the year. In this context, the expenditure rate in personnel costs was 96%, in state premium expenses paid to social security institutions

93%, in goods and services procurement expenses 97%, in current transfers 100%, in capital expenditure 89%, in capital transfers 98% and in loaning 92%. In order to cover some expenses, revenue surplus possibilities were evaluated, and again, budgetary transfers were made to transfer appropriations that could not be used to the compositions needed. Except for conditional donations and transfers;

- An appropriation of a total of TRY 417,033,722 was added to the budget, including TRY 2,282,000 for personnel costs, TRY 475,000 for state premium expenses paid to social security institutions, TRY 76,750,700 for goods and services procurement expenses, TRY 24,820,000 for current transfers, TRY 280,706,022 for capital expenditure, TRY 16,000,000 for capital transfers, and TRY 16,000,000 for loaning, upon on the approval of the authority and an appropriation of TRY 19,415,000 was deducted from capital expenditure upon on the approval of the competent authority.

Information on important expenditure items to which appropriations were added during the year is provided below.

- Appropriation of TRY 102,500,000 was added to the Forest Development and Expansion Project, resulting in a 98% year-end cash realization rate of the project.

- Appropriation of TRY 15,000,000 was added to the Erosion Control Project, resulting in a 99% year-end cash realization rate of the project.
- Appropriation of TRY 84,700,000 was added to the Forest Cadastre and Registration Project, resulting in a 97% year-end cash realization rate of the project.
- Regarding the goods and services procurement expenses, an appropriation of TRY 76,750,700 was added to the relevant budget arrangement and the year-end realization rate was 97%.
- Regarding the capital expenditure, an appropriation of TRY 280,706,022 was added to the relevant budget arrangement and the year-end realization rate was 89%.
- Regarding the mission losses, an appropriation of TRY 24,120,000 was added to the relevant budget arrangement and the year-end realization rate was 100%.

Conditional donations received for afforestation are primarily recorded as revenues in table “B” and an appropriation record is entered in the budget upon approval of the relevant Authority. The unused portions are transferred to the appropriation in accordance with the legislation. First of all, the amount of TRY 3,763,101, which was not used in 2018, was transferred as the appropriation in 2019, and the conditional donation of TRY 44,527,920.50 during the year was duly appropriated. In this context, the total amount recorded as an appropriation for afforestation in 2019, although not proposed in the budget, was TRY 48,291,021.50. Of the aforesaid amount, TRY 32,710,399.45 was used in afforestation activities, and the remaining TRY 15,580,622.05 was transferred to 2020.

Table 26: Budget and Activity Distributions of Expenses, 2019

Activities	Special Budget		Revolving Fund		TOTAL		
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure	%
1 Fighting forest fires	467,840,000	465,895,075	457,217,000	457,216,633	925,057,000	923,111,708	99.8
2 Protection of forests against unlawful interference and forest pest control	212,149,000	211,892,220	484,389,000	484,388,730	696,538,000	696,280,950	100.0
3 Broadcasting, promotion and information	4,823,000	4,724,978	33,787,000	33,786,092	38,610,000	38,511,070	99.7
4 Forest cadastre, registration and 2/B applications	125,599,600	122,409,900			125,599,600	122,409,900	97.5
5 Loan and grant supports	206,016,000	204,425,264			206,016,000	204,425,264	99.2
6 Regeneration and maintenance of forests	1,419,000	1,306,982	251,355,000	251,354,315	252,774,000	252,661,297	100.0
7 Rehabilitation Industrial	16,170,000	15,417,000	26,456,000	26,455,322	42,626,000	41,872,322	98.2
8 afforestation	93,200,000	92,584,000	90,000,000	89,853,664	183,200,000	182,437,664	99.6
9 Afforestation Sapling and seed production	153,140,000	152,006,000			153,140,000	152,006,000	99.3
10	23,644,000	20,442,611			23,644,000	20,442,611	86.5
11 Erosion control and pasture improvement	139,243,000	133,237,533			139,243,000	133,237,533	95.7
12 Management plan	13,576,000	13,265,829			13,576,000	13,265,829	97.7
13 Wood production and quality improvement	2,170,000	2,042,628	1,854,996,000	1,854,955,766	1,857,166,000	1,856,998,394	100.0
14 Regulation of ecotourism services and inventory and evaluation of non-wood forest products	4,032,000	3,292,218	17,445,000	17,444,660	21,477,000	20,736,878	96.6
15 Certification			1,521,000	1,520,478	1,521,000	1,520,478	100.0
16 Forest roads	2,726,000	2,705,957	158,530,000	158,529,641	161,256,000	161,235,598	100.0

Activities		Special Budget		Revolving Fund		TOTAL		
		Budget	Expenditure	Budget	Expenditure	Budget	Expenditure	%
17	Research projects	55,090,000	42,971,923			55,090,000	42,971,923	78.0
18	Development of international cooperation	452,000	445,594			452,000	445,594	98.6
19	Strategic management and organization	25,124,400	24,139,986			25,124,400	24,139,986	96.1
20	Human resources management	4,262,000	4,195,904			4,262,000	4,195,904	98.4
21	Improvement of physical resources	14,778,000	11,130,204	96,866,000	96,865,075	111,644,000	107,995,279	96.7
22	Information and communication technologies	51,952,000	14,686,895	21,791,000	21,790,773	73,743,000	36,477,668	49.5
TOTAL		1,617,406,000	1,543,218,701	3,494,353,000	3,494,161,149	5,111,759,000	5,037,379,850	98.5
General Administrative Expenses		2,090,622,722	1,951,413,337	1,720,647,000	1,650,955,605	3,811,269,722	3,602,368,942	94.5
GRAND TOTAL		3,708,028,722	3,494,632,038	5,215,000,000	5,145,116,754	8,923,028,722	8,639,748,792	96.8

The total budget resource revised in 2019 was TRY 8,923,028,722, and TRY 3,708,028,722 corresponding to 42% of this amount was covered from the special budget, and TRY 5,215,000,000 corresponding to 58% was covered from the revolving fund. TRY 5,111,759,000, which constitutes 60% of the revised budget resource, was associated with the performance programme and the amount of expenditure made within the scope of the programme was TRY 5,037,379,850 with 99%. The resource allocated to general administrative expenses was TRY 3,811,269,722 and the realization was TRY 3,602,368,942 with 95%.

4. Financial Audit Results

The findings listed below are presented in the “2018 Regularity Audit Report of the General Directorate of Forestry” prepared as a result of the audit carried out by the Court of Accounts in order to determine the compliance of the accounts and transactions of the General Directorate of Forestry with the laws and other legal regulations, to have reasonable assurance that the financial reports and statements accurately and reliably reflect the results of all activities and transactions, and to evaluate the financial management and internal control systems:

Basis for Audit Opinion	Activities Initiated and/or Concluded for Detection
The records of receivables related to the places rented out within the places subject to permission do not reflect the real situation <i>It is evaluated that the relevant accounting records of receivables do not reflect the real financial structure of the institution.</i> The receivables do not reflect the real situation in the financial statements due to the incorrect recording of the receivable permit fees in some regions <i>It is evaluated that the financial statements of the institution do not reflect the real situation in terms of the relevant records of receivables.</i> The fact that the collections for the year 2018 regarding the permission and easement revenues have not been completed and the uncollected amount has been reflected differently in the financial statements <i>It is evaluated that the financial statement does not reflect the real situation due to the unreliable data flow feeding the financial statement or incorrect accounting practices</i> The fact that the afforestation fee has not been collected in some regions and a portion of the collected amount has not been transferred to the special budget <i>It is evaluated that the Institution should carry out the necessary follow-up and</i>	The necessary legal procedures have been initiated for the renting made without permission of the administration in the permitted lands and the accrued fees are being collected. As a result of the implementation of the E-Permit Module of the Forest Information System and its integration with the Integrated Public Financial Management Information System, such differences will be eliminated. As a result of the implementation of the E-Permit Module of the Forest Information System and its integration with the Integrated Public Financial Management Information System, such differences will be eliminated. The conflict has been resolved through transfer to the relevant account in January 2019.

Basis for Audit Opinion	Activities Initiated and/or Concluded for Detection
The records of immovable properties in the financial statements do not reflect the real situation due to the records in the immovable property tables for the immovable properties managed and owned by the General Directorate of Forestry not being consistent with the accounting records	The works initiated to align the records in the immovable property tables with the accounting records are ongoing.

It has been concluded that the financial reports and statements for 2018 contain accurate and reliable information in all essential aspects except for the accounting areas specified in the section “basis for audit opinion”.

As a result of the 2018 Regularity Audit of the General Directorate of Forestry Revolving Fund Enterprise, it has been concluded that the financial reports and statements for 2018 contain accurate and reliable information in all essential aspects except for the accounting areas listed below and specified in the section “basis for audit opinion”.

Basis for Audit Opinion	Activities Initiated and/or Concluded for Detection
The fact that receivables from recreation areas do not reflect the real situation in the financial statements due to the incorrect recording in some regions	Necessary corrections were made in the relevant accounts.
It is evaluated that the accounting records of receivables differ from the executive unit records and therefore do not reflect the real financial structure of the institution.	
The fact that the collections for the year 2018 regarding the revenues from recreation areas have not been completed and the uncollected amount has been reflected differently in the financial statements	Legal action has been initiated by the relevant units for the collection of unpaid receivables.
It is evaluated that the accounting records of the receivables that cannot be collected differ from the executive unit records and therefore the receivables subject to follow-up do not reflect the real financial structure of the institution.	
The fact that the records of receivables from plateau revenues and receivables from previous year are incorrect in the financial statements due to being incorrectly/differently reported to the accounting in some regions.	Plateau rental income will be followed up from the relevant account sections.
It is found that there are incomplete entries in the records of receivables for 2018 due to the fact that accrual records for plateau revenues have been entered differently than they should be, in some regions. Also, it is evaluated that the accounting records of receivables from previous year differ from the executive	
The fact that administrative receivables secured by a court judgment do not reflect the real situation in the financial statements due to the incorrect recording in some regions	Necessary corrections were made in the relevant accounts.
It is evaluated that since the accrual records for administrative receivables secured by a court judgment are inconsistent with the records of the unit that accrue the receivables secured by a court judgment, the relevant accounting records of receivables do not reflect the real financial structure of the institution.	

B. PERFORMANCE INFORMATION

1. Activity and Project Information

1.1 Fighting Forest Fires

In order to fight forest fires effectively, the Action Plan for Fighting Forest Fires was prepared and the activities summarized below were carried out during the pre-fire preparation process.

- In order to provide training to and raise awareness of the public against forest fires in the locations determined as special regions for fire prevention, trainings were provided to various non-governmental organizations, students, military units and forest villagers.
- Legislative arrangements were made to regulate the legal status of volunteers fighting forest fires and to ensure that the works of volunteers fighting forest fires are carried out in a planned, effective and harmonious manner by making arrangements regarding the operating and auditing procedures and principles for volunteers and their qualifications, roles, responsibilities, training, tools and clothing.²¹
- Fire management plans²² were prepared, and plans were made to prevent possible fires and to respond to fires in a way so as to minimize damages, and it was proposed to protect the ecological, biological, landscape and cultural resource values of the area and to ensure the continuity of the ecosystem.
- “Fire Specialist Training” was provided to 98 technical employees, “Forest Fire Fighting Training” to 293 forest guards, “Training on Advanced Driving Techniques” to 113 sprinkler operators and “On-the-Job Training” to 11,507 fire workers.

The physical measures taken for the organization of fighting forest fires and the activities to minimize the damages that will occur both during and after the fires were concluded in accordance with the annual programmes.

- Among the personal protective equipment, 8,727 fire-resistant suits, 3,356 pairs of fire-resistant shoes and 7,340 pairs of fire-resistant boots were procured through open tender and distributed to the relevant units.²³
- 1,650 first response vehicles, 25 sprinklers, 12 dozers, 6 trailers, 23 graders, 1 digital radio system and various machinery and equipment were purchased, 30 helicopters were rented for use in aerial forest fire extinguishing services, and Unmanned Aerial Vehicles (UAVs) were used for 50 hours.
- In order to monitor forest fires and respond to them in a shorter time, the Vehicle Tracking System and Camera Surveillance System were used effectively, and 30 water-throwing firefighting helicopters were fitted with cameras to enable central monitoring of fires.
- The Digital Radio and Camera System tender was organized in the Kumluca, Finike, Kaş, Elmalı and Korkuteli Forest District Directorates of Antalya Regional Directorate of Forestry and the system was made operational. The energy required for the operation of the system in places where there was no electricity network was provided by the fixed solar energy systems established.
- Due to economic reasons, 16 unmanned fire watchtowers were commissioned and 123 manned fire watchtowers were decommissioned. The ALO 177 hotline used as the Forest Fire Hotline was combined with the 112 Emergency Hotline.
- For the camera system to work actively, 30 cameras were repaired and maintained, and licenses for handheld, vehicular and fixed radios and radio links were renewed.
- In fire-sensitive areas, 254 camera systems were installed in 127 towers through a joint project of the General Directorate of Forestry, TÜBİTAK and Bilkent University.
- All information in the Fire Management System was transferred to the new database on ORBIS, and the project design process of the “Fire-Cell System” planned to be made available to personnel was completed.
- The number of T-70 helicopters to be procured within the scope of the Project for Procurement of 20 General Purpose Helicopters, which was initiated in 2005 and coordinated by the Undersecretariat for Defense Industries was decreased from 20 to 3.

By taking physical measures for fighting fires, 2,688 forest fires were responded to and 11,332 hectares of forest area was damaged during the year.

²¹ “Regulation on Volunteers Involved in Forest Fire Fighting” was published in the Official Gazette dated September 11, 2019 and numbered 30885.

²² Fire Management Plans, main purpose of which is to “minimize the potential forest fire risk and danger through training, awareness raising activities and area-specific flammable material applications, to reduce fire-related carbon emissions, to protect biodiversity and to protect the people living within the planning unit against being harmed by fires”, regulate the activities and practices for fire prevention, fire preparedness, firefighting and use of fire as a management tool.

²³ A satisfaction survey was conducted regarding the protective materials distributed in 2019 and technical specifications were revised according to the survey results.

Table 27: Numeric Distribution of Causes of Forest Fires, 2015-2019

Causes of Fire Outbreak	Unit	2015	2016	2017	2018	2019
Deliberate	Number	138	157	151	94	124
Negligence/Carelessness/Accide	Number	794	990	721	676	883
Natural	Number	257	310	259	400	372
Unknown	Number	961	1,731	1,280	997	1,309
TOTAL	Number	2,150	3,188	2,411	2,167	2,688

Table 28: Areal Distribution of Causes of Forest Fires, 2015-2019

Causes of Fire Outbreak	Unit	2015	2016	2017	2018	2019
Deliberate	Hectare	167	240	621	179	686
Negligence/Carelessness/Accide	Hectare	1,198	5,222	7,152	2,120	6,529
Natural	Hectare	95	170	84	142	373
Unknown	Hectare	1,759	3,524	4,136	3,203	3,744
TOTAL	Hectare	3,219	9,156	11,993	5,644	11,332

Within the scope of the “Project for Rehabilitation of Burned Areas and Establishment of Fire-Resistant Forests (YARDOP)” initiated in 2010, a study was carried out on an area of 6,099 hectares, as compared to the programme of 7,099 hectares in 2019. In addition, the Meteorological Early Warning System was provided with a new interface and upgraded to provide 3-day risk forecasts and temperature, wind, humidity and precipitation forecasts on an hourly basis. “Monthly Fire Risk Forecast Maps” were created using long-term fire statistics and average temperature anomalies due to climate change.

1.2 Protection of Forests against Unlawful Interference and Forest Pest Control

In recent years, priority has been given to efforts to combat forest pests, including insects and diseases that have an increasing risk of causing damage to our forests due to climate change, and biological control methods have been predominantly used in these efforts. A fight against harmful species seen in our forests has been carried out on an area of 205,176 hectares in 2019.

Table 29: Forest Pest Control Implementation Areas and Costs, 2015-2019

	Unit 2018	2015	2016	2017	2019		
					Quantity	TRY	
Biological Control	Hectare	76,256	89,570	88,233	88,096	88,835	3,330,110
Biotechnical Control	Hectare	69,550	76,310	87,635	84,521	79,273	2,427,906
Mechanical Control	Hectare	44,813	53,928	57,830	87,438	35,482	1,701,892
Chemical Control	Hectare	5,448	2,785	1,320	1,188	1,586	272,102

As part of biological control, 53,439 bird nests were hung in our forests and 104 ants were transported. In addition, 628,711 predatory insects were produced and released into diseased areas, and 1,054 islets/wire cages were established in areas where pine processionary caterpillars were seen.

In order to provide quality scientific data based on national, long-term, large-scale and intensive monitoring on the health and vitality of forests, 13,856 trees were evaluated in 599 Level I permanent observation plots and 7,637 trees were monitored in 52 Level II observation plots established throughout the country.²⁴

²⁴ As part of the cooperation with the French Forest Agency, service was procured on vegetation and biodiversity in Level II sites through tender and vegetation and biodiversity identification studies were carried out in all 33 Level I sites within the responsibility area of Ankara Regional Directorate of Forestry in the pilot region

Table 30: Number of Permanent Observation Plots (POPs) and Trees Evaluated, 2015-2019

	Unit	2015	2016	2017	2018	2019
Level II Permanent Observation Plots	Number	591	586	598	601	599
Trees Evaluated	Number	13,665	13,547	13,792	13,973	13,856
Level II Permanent Observation Plots	Number	50	52	52	52	52
Trees Evaluated	Number	7,897	7,730	7,681	7,656	7,637

The fight against forest crimes was carried out by forest guards working in 2,180 collective protection teams and 14 sensitive area protection teams established throughout the country, and 12,735 crime reports were prepared.²⁵

Table 31: Change in Forest Crimes, 2015-2019

Year	Cutting Down		Transporting		Possessing	
	Number of Crimes	m3	Number of Crimes	m3	Number of Crimes	m3
2015	2,944	18,326	708	949	540	437
2016	2,891	17,616	658	862	544	680
2017	2,993	20,305	802	1,675	479	798
2018	2,880	26,483	670	1,330	396	813
2019	3,356	33,742	706	1,442	642	1,514
Year	Deforestation-Settlement		Occupation		Grazing	
	Number of Crimes	Decare	Number of Crimes	Decare	Number of Crimes	Number of Animals
2015	1,971	8,563	2,103	9,673	1,005	60,940
2016	2,332	12,444	2,996	15,891	1,032	68,466
2017	2,473	11,475	2,241	9,699	1,067	64,010
2018	3,465	14,362	3,221	11,682	818	45,821
2019	3,550	13,494	3,549	12,864	834	52,385
Year	Consumption		Hunting Crimes		Total	
	Number of Crimes	m3	Number of Crimes	Number of Animals	Number of Crimes	
2015	82	100	5		9,358	
2016	68	149	8		10,529	
2017	68	104	3		10,126	
2018	58	143	2	45	11,510	
2019	96	252	2	150	12,735	

The results obtained from camera traps placed in areas with high grazing pressure were evaluated and 658 new camera traps were installed.

A total of 263 village legal entities were cooperated with for the protection of regeneration maintenance areas and cultivation areas during the year, and resources of TRY 3,965,422 were transferred to the villagers.

1.3 Broadcasting, Promotion and Information

The summary information of the works carried out to raise and spread the love of forests and environmental awareness, to promote our forests and forestry services to the masses, and to continuously inform the society about forests and forestry-related issues is provided below.

. In addition, sedimentation, spill sampling, phenological observations and air quality measurements were carried out at 18 Level II sites with intensive monitoring, and the analysis results will be reported in 2020. Studies on ozone damage and coniferous and deciduous tree sampling were conducted in Level II sites where intensive monitoring was carried out, and no surface ozone damage was found.

²⁵ Due to the changes made in the provincial organization of the General Directorate of Forestry, the number of teams established within the forest sub-district directorates was increased to 2,194.

- Plays about love of nature and forests were performed by the “Sincap Children Forest Theater”, 113,181 elementary school students were reached through theater, and a total of 120,000 magazines were delivered to elementary school children, especially in rural areas. In addition, a total of 2,000 magazines in Braille alphabet were printed and distributed to visually impaired children.
- 176 meetings and introductory trips were held and 1,663 local events and organizations (opening ceremonies, congresses, fairs, exhibitions, meetings, etc.) were attended.
- Forest camps and trips and forest embracing and nature walks were organized and 14,420 “Forest Embracing and Nature Walks” were carried out.
- The forest sports clubs of various branches within the regional directorates of forestry were supported.

1.4 Forest Cadastre, Registration and 2/B Applications

By completing the 2/B application in 2,189 units and revision application in 103 units, 40,000 hectares of area was taken out of the forest boundaries within the scope of application of article 2/B of the Forest Law No. 6831 as amended by the Law No. 3302, and the application of 400,000 hectares of forest area was performed under Law No. 4999 and based on 2/B applications.

Table 32: Forest Cadastre Project Implementation Results, 2019

	Unit	Revision	2/B	Total
Programme of the Year	Number/Unit	150	2,350	2,500
	TRY			124,700,000
Implementation Result	Number/Unit	103	2,189	2,292
	TRY			120,905,574 ²⁶

Permission requests other than forestry activities in areas considered as forests were evaluated during the year and submitted to the Ministry’s committee in accordance with the Presidential Circular No. 2018/8, and requests that are approved were subject to permission.

1.5 Loan and Grant Supports

TRY 204,425,023 of the resources amounting to a total of TRY 206,016,000, including TRY 164,864,000 loaning and TRY 41,152,000 capital transfer (grant), was spent,²⁷ and 72 individual loan type projects and 5 cooperative projects from different project types were approved.

Table 33: Individual and Cooperative Loan Implementations, 2015-2019

	Unit	2015	2016	2017	2018	2019
Individual Loans	Thousand TRY	202,711	244,484	207,048	182,550	201,541
Cooperative Loans	Thousand TRY	5,258		3,235	1,878	2,884
TOTAL	Thousand TRY	207,969	244,484	210,283	184,428	204,425

Table 34: Social and Economic Individual Loan Implementations, 2015-2019

	Unit	2015	2016	2017	2018	2019
Social Loans	Thousand TRY	22,208	32,283	24,731	12,043	15,543
Economic Loans	Thousand TRY	180,503	212,201	182,317	170,507	185,998
TOTAL	Thousand TRY	202,711	244,484	207,048	182,550	201,541

Individual support was provided to 9,341 families through social and economic practices, and a resource of TRY 201,541,449 was provided.

²⁶ TRY 102,500,000 of the appropriation of TRY 120,905,574 used, was transferred to the General Directorate of Land Registry and Cadastre for digitization and registration works.

²⁷ TRY 163,494,765 was spent from the loaning appropriation, including cooperative supports of TRY 2,455,192, and TRY 40,930,258 was spent from the grant appropriation, including cooperative supports of TRY 428,382. Loan amounts were calculated based on the 2019 deflator coefficient.

Table 35: Number of Families Benefiting from Individual Loan Implementations, 2015-2019

	Unit	2015	2016	2017	2018	2019
Social Loans	Number	4,297	5,367	4,089	2,216	2,163
Economic Loans	Number	6,124	6,942	6,214	6,303	7,178
TOTAL	Number	10,421	12,309	10,303	8,519	9,341

Table 36: Number of Families Benefiting from Individual Loan Implementations by Loan Types, 2015-2019

	Unit	2015	2016	2017	2018	2019
Roof Covering	Number	1,215	1,878	886	960	958
Heating and Cooking	Number	726	1,299	1,160	589	911
Solar Water Heating System	Number	2,356	2,142	1,936	667	221
Technical Beekeeping	Number	1,040	776	340	311	312
Livestock Breeding	Number	4,567	5,882	5,722	5,896	5,806
Handicrafts and Domestic Crafts	Number	169	67	15	30	77
Facility Acquisition and Conversion	Number	348	217	137	66	218
Indoor Electrical Installation	Number		40	107		73
Production Mechanization ²⁸	Number					765
2 KWP Cap. Electricity Generation	Number		8			
TOTAL	Number	10,421	12,309	10,303	8,519	9,341

5 cooperative projects were implemented, including 2 construction machinery projects, 1 olive pickling project, 1 natural cold storage project and 1 sapling tubing project and resources of TRY 2,883,574 were used.

Table 37: Distribution of Cooperative Loans by Year, 2015-2019

	Unit	2015	2016	2017	2018	2019
Number of Projects	Number	12		7	4	5
Cooperative Loans	Thousand TRY	5,258		3,235	1,878	2,883

1.6 Regeneration, Maintenance and Rehabilitation of Forests

Activities were carried out on a total area of 628,511 hectares, including young stands maintenance activities of 617,165 hectares and Pruning Action Plan of 11,346 hectares.

Table 38: Results of Young Stands Maintenance Activities, 2015-2019

	2015	2016	2017	2018	2019			
					Programme		Implementation	
					Hectare	TRY	Hectare	TRY
Regeneration	123,358	126,653	130,664	153,339	162,484	60,929,708	165,022	60,929,708
Frequent Maintenance	203,097	192,450	182,658	171,138	175,900	38,198,151	171,712	38,198,151
Pruning	14,395	13,227	12,951	12,638	11,276	4,614,384	11,346	4,614,384
Initial Thinning	68,363	66,747	67,222	71,549	79,908		77,536	
Transformation of	87,275	79,867	73,206	77,448	75,718	7,868,753	75,647	7,868,753
Cultivation	177,990	159,634	139,900	138,682	126,354	38,632,532	127,248	38,632,532
Maintenance								

330 silviculture plans have been prepared, 225 of which have been revised, and natural regeneration of 24,652 hectares and artificial regeneration of 8,786 hectares have been completed.

²⁸ In order to meet the demands for production mechanization of forest villagers actually working for the production of forest products, support of projects such as log handling cranes (drums), tractors and chain saws, etc. was started in 2019.

Table 39: Results of Regeneration Activities, 2015-2019

	2015	2016	2017	2018	2019			
					Programme		Implementation	
					Hectare	TRY	Hectare	TRY
Natural Regeneration	18,166	25,475	30,547	30,735	23,646	59,321,573	24,652	59,321,573
Artificial Regeneration	9,197	8,885	7,790	10,102	7,855	37,889,394	8,786	37,889,394

During the ongoing rehabilitation activities, a total area of 73,248 hectares was rehabilitated including 2 hectares of rehabilitation of mining areas.²⁹

Table 40: Realizations in Rehabilitation Activities, 2015-2019

	2014	2015	2016	2018	2019			
					Programme		Implementation	
					Hectare	TRY	Hectare	TRY
Rehabilitation	94,411	106,267	112,100	112,273	67,648	27,706,879	73,248	27,656,979
Rehabilitation Maintenance	40,890	44,556	42,736	58,152	33,877	15,008,000	39,768	14,026,268

1.7 Afforestation

Within the scope of the projects included in the investment programme 2019, a survey-project of 180,684 hectares, 17,871 hectares of afforestation and 153,428 hectares of afforestation maintenance activities were carried out.³⁰

Table 41: Results of Afforestation Activities, 2015-2019

	2015	2016	2017	2018	2019			
					Programme		Implementation	
					Hectare	TRY	Hectare	TRY
Survey-Project	226,974	409,712	493,666	356,029	145,832	3,140,000	180,684	2,093,000
Afforestation	38,986	48,230	46,934	45,015	16,080	125,675,500	17,871	112,854,502
Afforestation Maintenance	118,522	146,558	162,921	165,126	142,879	119,214,000	153,428	130,788,568

For special afforestation activities, a grant of TRY 16,826,375 was allocated to the projects of village legal entities and a loan of TRY 948,717 was allocated to the projects of natural and legal entities, and 3,692 hectares of special afforestation activities were completed.

Table 42: Results of Special Afforestation Activities, 2015-2019

	Unit	2015	2016	2017	2018	2019
Special Afforestation	Hectare	3,012	3,245	1,361	2,468	3,692
Grants	Thousand TRY	775	511	1,827	9,244	16,826
Loans	Thousand TRY	10,466	11,599	10,017	2,113	949

²⁹ A total of 1,840 hectares of rehabilitation activities including 2 hectares of mine sites and a total of 34,437 hectares of rehabilitation maintenance activities including 4,692 hectares of mine sites were completed as part of the Forest Development Project, 71,124 hectares of rehabilitation activities were completed as part of the silvicultural practices, and 84 hectares of rehabilitation activities and 834 hectares of rehabilitation maintenance activities were completed as part of the Murat River Basin Rehabilitation Project, and 200 hectares of rehabilitation activities and 4,497 hectares of rehabilitation maintenance activities were completed as part of the Çoruh River Basin Rehabilitation Project.

³⁰ A total of 17,775 hectares of afforestation activities including 12,077 hectares of industrial afforestation, and 151,380 hectares of afforestation maintenance activities including 15,321 hectares of industrial afforestation maintenance were completed for the Forest Development Project, and 2,048 hectares of afforestation maintenance activities and 96 hectares of other institutional afforestation activities were completed for the Murat River Basin Rehabilitation Project.

The 2019 implementation results of the prepared action plans are given below, and within the scope of special area afforestation, 688,695 tall saplings were planted in 2,878 university and school gardens, 443,902 tall saplings were planted in 1,196 worship place gardens and 1,030 cemeteries, 94,501 tall saplings were planted in 339 hospital and health center gardens, and 767,790 tall saplings were planted along 624 km of highways and village roads.

Industrial Afforestation Action Plan, 2019

Targeted 5,750 hectares of industrial afforestation will be carried out.

Realized 12,077 hectares of industrial afforestation was carried out.

Walnut Action Plan, 2019

Targeted 786 hectares of walnut plantation will be carried out.

Realized 364.6 hectares of walnut plantation was carried out and approximately 120 thousand walnut saplings

Almond Action Plan, 2019

Targeted 935 hectares of almond plantation will be carried out.

Realized 687.8 hectares of almond plantation was carried out and approximately 390 thousand almond saplings

Mulberry Action Plan, 2019

Targeted 37 hectares of mulberry plantation will be carried out.

Realized Approximately 31 thousand mulberry saplings were planted in an area of 17.1 hectares.

Wild Olive (Delice) Rehabilitation Action Plan, 2019

Targeted 309,697 wild olive (delice) saplings will be grafted, 13,948 grafted olive saplings will be planted.

Realized 109,795 wild olive (delice) saplings were grafted, 96,487 grafted olive saplings were planted.

Roadside Afforestation Action Plan, 2019

Targeted 500 km of roadside afforestation will be carried out.

Realized 624 km of roadside afforestation was carried out and approximately 768 thousand saplings were planted.

Action Plan for Afforestation of Five Thousand Species Generating Income for Five Thousand Villages, 2019

Targeted 1,000 village forests will be established.

Realized 835 village forests were established.

Hawthorn Action Plan, 2019

Targeted Works will be carried out on an area of 355 hectares.

Realized Works were carried out on an area of 322.8 hectares.

Wild Pear Action Plan, 2019

Targeted Works will be carried out on an area of 241 hectares.

Realized Works were carried out on an area of 154 hectares.

Silverberry Action Plan, 2018

Targeted Works will be carried out on an area of 534 hectares.

Realized Works were carried out on an area of 177.2 hectares.

Jujube Action Plan, 2018

Targeted Works will be carried out on an area of 120 hectares.

Realized Works were carried out on an area of 37.4 hectares.

1.8 Sapling and Seed Production

Sapling production is carried out in 138 forest nurseries established on an area of 3,290 hectares and new nurseries are established according to needs.

Table 43: Production and Use Capacity of Nurseries, 2015-2019

	Unit	2015	2016	2017	2018	2019
Number of Nurseries	Number	128	129	131	137	138
	Hectare	3,420	3,264	3,264	3,290	3,290
Sapling Production and Maintenance	Thousand (pcs)	333,200	338,000	322,250	320,350	242,436
Seed Production	Tonne	495.3	280.6	273.4	222.7	132.6

In 2019, 162.6 million saplings were produced (new production)³¹ and 242.4 million saplings were maintained (transferred and new production), and 132.6 tonnes of seeds were produced from ornamental plants and coniferous and deciduous forest tree species, especially black pine, yellow pine, red pine, Oriental beech, mahaleb, silverberry, oak, almond, etc.

Table 44: Sapling and Seed Production, 2019

	Unit	2019			
		Programme		Implementation	
		Quantity	Thousand TRY	Quantity	Thousand TRY
Sapling Production (New Production)	Thousand (pcs)	153,000	84,469	162,680	73,440
Sapling Maintenance (Transferred and New)	Thousand (pcs)	239,400	29,807	242,436	26,081
Seed Production	Tonne	177	6,675	133	4,283
Seed Maintenance	Tonne	90	277	92	195
Forest and Seed Improvement	Hectare	46	400	41	208
Forest and Seed Improvement Maintenance	Hectare	1,637	2,458	1,642	1,545
Encirclement of Tree and Seed	Km	19	248	14	149
Sapling Rootstock Production	Number	19,000	57	18,000	39
Grafted Sapling Production	Number	9,000	54	6,800	54

Forest tree sapling sales revenue amounted to TRY 96,944,815, ornamental plant sales revenue amounted to TRY 15,516,210 and seed sales revenue amounted to TRY 1,443,876, and 10,738,625 saplings were distributed free of charge to schools, universities, military units, municipalities, public institutions and organizations and our citizens.³²

1.9 Erosion Control and Pasture Improvement

As part of the projects included in the investment programme 2019, 16,538 hectares of soil conservation activities, 283,577 hectares of soil conservation maintenance activities and 8,088 hectares of pasture improvement activities were completed.³³

Table 45: Erosion Control and Pasture Improvement Activities, 2015-2019

	Unit	2015	2016	2017	2018	2019			
						Programme		Implementation	
						Quantity	TRY	Quantity	TRY
Erosion Control	Hectare	75,009	97,056	91,049	86,758	17,165	38,208,000	16,538	39,778,354
Pasture Improvement	Hectare	23,843	12,778	15,167	20,518	6,900	3,450,000	8,088	3,712,101

The summary information about the developments and realizations achieved with the Murat River Basin Rehabilitation Project and Çoruh River Basin Rehabilitation Project included in the investment programme are provided below and the results summarized below were obtained during the 2019 implementation process of the action plans.

³¹ Production of income-generating sapling species was increased and 7.25 million walnut and 5.2 million almond saplings were produced.

³² In accordance with the Law No. 4122 on National Afforestation and Erosion Control Mobilization and the Decree No. 2013/4777 of the Council of Ministers, dated 06.05.2013 published in the Official Gazette No. 28688 dated 25.06.2013, saplings are distributed free of charge to public institutions, military units, educational institutions and non-governmental organizations.

³³ 12,630 hectares of soil conservation activities including 90 hectares of avalanche control and 1,250 hectares of flood control, and 262,749 hectares of soil conservation maintenance activities including 50 hectares of avalanche control maintenance, and 6,188 hectares of pasture improvement activities were completed for the Erosion Control Project, 635 hectares of soil conservation activities and 9,610 hectares of soil conservation maintenance activities and 300 hectares of pasture improvement activities were completed for the Murat River Basin Rehabilitation Project, and 3,273 hectares of soil conservation activities, 11,218 hectares of soil conservation maintenance activities and 1,600 hectares of pasture improvement activities were completed for the Çoruh River Basin Rehabilitation Project.

Table 46: Results of Murat River Basin Rehabilitation Project Implementation, 2019

	Unit	Programme		Implementation	
		Quantity	TRY	Quantity	TRY
Afforestation	Hectare	792	1,195,000		
Afforestation Maintenance	Hectare	2,048	605,000	2,048	1,147,809
Rehabilitation	Hectare	351	370,000	84	98,350
Rehabilitation Maintenance	Hectare	834		834	
Erosion Control	Hectare	2,375	2,709,000	635	964,638
Erosion Control Maintenance	Hectare	9,610	961,000	9,610	2,474,373
Rehabilitation of Pasture/Grazing Areas	Hectare	300	2,460,000	300	410,278
Investments to Improve Living Conditions			10,601,000		5,062,080
Vehicle Rental Expenses			70,000		74,236
Nursery Infrastructure Investment Costs			100,000		96,237
Technical Assistance, Training, Courses, Workshops			2,754,000		2,186,795

Table 47: Results of Çoruh River Basin Rehabilitation Project Implementation, 2019

	Unit	Programme		Implementation	
		Quantity	TRY	Quantity	TRY
Soil Conservation	Hectare	3,450	4,088,000	3,273	4,110,592
Soil Conservation Maintenance	Hectare	11,218	944,000	11,218	889,673
Pasture Improvement	Hectare	1,600	1,115,000	1,600	1,088,600
Technical Examination and Training	Number	5	800,000	5	750,618
Hiring Experts, Monitoring and Evaluation			666,000		457,088
Rehabilitation	Hectare	200	15,000	200	
Rehabilitation Maintenance	Hectare	4,497	118,000	4,497	103,553
Procurement of Construction Machines	Number	37	9,342,000	31	6,965,385
Improvement of Nurseries			1,457,000		1,423,622
ORKÖY Activities			2,583,000		2,538,592

Upper Basin Flood Control Action Plan, 2019

Targeted Afforestation, erosion control and rehabilitation activities will be carried out in 55 flood basins.

Realized Afforestation, erosion control and rehabilitation activities were carried out in 38 flood basins.

Dam Basins Green Belt Afforestation Action Plan, 2019

Targeted Afforestation and erosion control activities will be carried out in 80 dam and pond basins.

Realized Afforestation and erosion control activities were carried out in 30 dam and pond basins.

1.10 Management Plans

In 2019, a management plan was made for a total area of 957,019 hectares including 426,460 hectares by our chief engineering directorates and 530,559 hectares through service procurement, and resources of TRY 11,812,874 were used.³⁴

Table 48: Forest Areas with Forest Management Plan, 2015-2019

	2015	2016	2017	2018	2019
Hectare	3,014,966	1,762,000	1,244,000	1,329,408	957,019

³⁴ Within the scope of the GEF 5 Project, biodiversity inventory was prepared in 11 forest sub-district directorates in Andırın and Pos Forest District Directorates and integrated into management plans. In addition, "Operating Class of Research Forests" was separated under the name of "scientific function", and carbon calculation formulas were renewed and included in the plans.

Table 49: Forest Management Project Implementation Status, 2019

Investment Programme		Implementation					
		Delegations		Tender		Total	
		Hectare	TRY	Hectare	TRY	Hectare	TRY
		957,019	12,235,000	426,460	2,279,331	530,559	9,533,543
						957,019	11,812,874

In addition, an appropriation of TRY 3,000,000 was included in the annual programme, including TRY 2,500,000 for the procurement of services and provision of various aerial photographs, satellite images and maps and TRY 500,000 for the procurement of machinery and equipment within the scope of mapping and photogrammetry studies, and resources of a total of TRY 2,159,725 was used, and a total of 5,440,902 hectares of forest mapping and photogrammetry studies were carried out, including draft stand maps for 3,281,177 hectares and ortho images for 2,159,725 hectares.³⁵

1.11 Wood Production and Quality Improvement

The production programme 2019 was prepared considering the production capacity of the forests and market demands, and 22,113,249 m³ of industrial wood and 5,589,798 steres of firewood were produced.

Table 50: Wood Production Programme and Realizations, 2015-2019

		Unit	2015	2016	2017	2018	2019	
							Programme	Realization
Standing Tree Mark	M ₃		21,240,509	21,128,942	20,196,476	24,437,797	30,000,000	28,662,997
Industrial Wood	M ₃		16,637,597	17,009,998	15,521,622	19,080,137	24,000,000	22,113,249
Firewood	Stere		5,022,986	4,877,067	4,359,646	4,890,455	5,850,000	5,589,798

Table 51: Industrial Wood Production Figures, 2015-2019

		Unit	2015	2016	2017	2018	2019	
							Programme	Realization
Logs	M ₃		5,904,015	5,786,107	5,474,260	7,152,776	8,000,000	8,514,026
Utility Poles	M ₃		54,257	57,574	60,610	71,147	60,000	58,333
Mine Poles	M ₃		663,689	632,168	561,967	731,604	1,000,000	929,259
Industrial Wood	M ₃		764,010	835,157	752,253	875,403	1,400,000	1,008,952
Pulpwood	M ₃		2,375,172	2,486,595	2,169,059	2,874,882	3,925,000	3,175,505
Fiber-Chip Wood	M ₃		6,866,356	7,201,462	6,494,371	7,361,714	9,600,000	8,417,096
Stakes	M ₃		10,098	10,935	9,102	12,611	15,000	10,078
TOTAL	M₃		16,637,597	17,009,998	15,521,622	19,080,137	24,000,000	22,113,249

Efforts to increase the sales of standing trees were continued in terms of efficient and rational management, 9,308 m³ of standing trees, 13,606 m³ of industrial wood and 4,396 steres of firewood were sold, and revenues of a total of TRY 5,273,621,000 was obtained.

³⁵ The study on ortho images in an area of 2,159,725 hectares was carried out by the General Directorate, and the portion of 2,663,653 hectares of the studies on the draft stand map in an area of 3,281,177 hectares was carried out through service procurement and the portion of 617,524 hectares was carried out by the General Directorate.

Table 52: Wood Sales Quantities, 2015-2019

	Unit 2018	2015	2016	2017		2019	
						Quantity	Thousand TRY
Industrial Wood	Thousand M ₃	12,402	13,452	12,294	12,679	13,606	3,515,204
Firewood	Thousand	2,363	2,206	4,270	3,888	4,396	161,298
Standing Tree Sales	Thousand M ₃	4,163	4,606	4,087	8,006	9,308	1,597,119

1.12 Expansion of Ecotourism Services and Inventory and Evaluation of Non-Wood Forest Products

A total of 7 “Ecotourism Management Plans”³⁶ were prepared in İzmir, Eskişehir, Muğla, Zonguldak and İstanbul Regional Directorates of Forestry, and the activities summarized below were completed in 2019.

- Within the scope of the cooperation programme conducted with the French National Forest Office, the Nazarköy and Göktepe Ecotourism Management Plans were implemented in Kemalpaşa District of İzmir Province and Yenice District of Zonguldak Province.
- Within the scope of the Project for Integrated Management of Mediterranean Forests (GEF-5), Ecotourism Development Programme, the land work was completed in Muğla Köyceğiz Forest District Directorate, the Köyceğiz Sığla Ecotourism Area Management Plan was prepared, and trainings on “Ecotourism Entrepreneurship” were organized in Yeşilüzümlü Village of Fethiye. In addition, the land work was completed in Adana Pos Forest District Directorate, and the Pos Ecotourism Area Management Plan was approved.
- An “Ecotourism Workshop” was organized with the participation of relevant institutions and organizations and a document titled ‘Ecotourism Workshop’ was prepared, including the decisions taken. In addition, the “Ecotourism Action Plan” was completed and brought to the approval phase, and training of trainers on the preparation and implementation of ecotourism management plans and a workshop on “Ecotourism in Forest Areas & Ecotourism Action Plan” were held.
- The identification of ecotourism criteria and the preparation of the management plan were initiated for suitable areas, for which Kahramanmaraş, Antalya, Amasya and Kütahya Regional Directorates of Forestry are responsible, 20 forest villages were identified according to ecotourism criteria in Ankara, Konya, Eskişehir and Kütahya Regional Directorates of Forestry, a final report was prepared and trainings on “Ecotourism” were provided.

Non-wood forest products sales revenue was TRY 12,649,826³⁷, and as a result of inventory studies, 258,381 tonnes of non-wood forest products were identified in an area of 570,362 hectares.

Table 53: Production Quantities of Non-Wood Forest Products, 2014-2019

	Unit	2015	2016	2017	2018	2019
Production Quantities	Tonne	349,421	429,015	586,540	701,092	771,000
Sales Revenues	Thousand TRY	8,286	7,470	7,723	8,104	12,650

On the other side, in order to ensure that the public can benefit from the social functions of forests to the maximum extent, to meet the needs for sports, ecotourism, picnics, recreation and entertainment, and to regulate forest-public relations, the establishment of urban forests and recreation areas was continued, 65 recreation areas and 3 urban forests were registered during the year, and the registration of 55 recreation areas and 4 urban forest was cancelled, and 2 urban forests were re-registered as recreation areas, and the results summarized below were obtained during the 2019 implementation process of the prepared action plans.

Truffle Forest Action Plan, 2019

Targeted A truffle forest will be identified and developed in an area of 77 hectares.

Realized A truffle forest was identified and developed in an area of 77 hectares.

³⁶ “Communiqué No. 308 on Procedures and Principles for the Management of Ecotourism Areas” was put into effect on 07.02.2017.

³⁷ The sales of non-wood forest products are carried out according to the tariff price determined each year. Payments for the productions caused by the administration to be carried out at a unit price are made from the item of general production costs and released to the market through the tenders of the relevant Forest District Directorate.

Gum Action Plan, 2019

Targeted A gum forest will be established in an area of 49 hectares.

Realized A gum forest was established in an area of 49 hectares.

Blueberry Action Plan, 2019

Targeted A model blueberry garden will be established and operated on an area of 115 hectares, and 18 hectares of area will

Realized A model blueberry garden was established on an area of 115 hectares, and 23 hectares of area was rehabilitated.

Laurel Action Plan, 2019³⁸

Targeted Laurel rehabilitation will be carried out in an area of 322 hectares.

Realized Laurel rehabilitation was carried out in an area of 340 hectares.

Honey Forest Action Plan, 2019

Targeted 54 honey forests will be established.

Realized 61 honey forests were established.

Resin Action Plan, 2019

Targeted 275 tonnes of raw resins will be produced and sold.

Realized 290 tonnes of raw resins were produced and sold.

1.13 Certification

In the period between 2010 and 2019, forest management certification (FSC) was obtained for 4,276,219 hectares of forest area covering 51 forest district directorates.

Table 54: Number of Forest Areas with Forest Management Certification, 2015-2019

	Unit	2015	2016	2017	2018	2019
Area of Certified Forests (Cumulative)	Hectare	2,367,000	2,367,000	2,367,000	2,367,000	4,276,219

1.14 Forest Roads

298 forest road network plans were completed and a total of 2,707 km of road work was carried out including 109 km of applications.

In addition, cultural structures, bridges, superstructures and maintenance-repair works were carried out in accordance with the annual programme, and 196,967 km of construction, maintenance and repair works, 873 km of cultural structures and 12 meters of bridge construction were completed.

Table 55: Results of Forest Road Construction Programme Implementation, 2015-2019

	Unit	2015	2016	2017	2018	2019			
						Programme		Implementation	
						Quantity	TRY	Quantity	TRY
Forest Road Network	Numbe	44	126	140	143	298	9,677,500	298	8,769,619
New Roads	Km	1,624	1,852	2,542	2,902	1,256	37,196,000	1,324	33,974,415
Application	Km	5,717	6,188	7,721	8,826			109	455,438
Fire Safety Road	Km	382	324	125	169	125	434,000	113	339,331
Tower Hut Road	Km	11	4	2	3				
Tractor Road	Km	511	751	684	969	1,026	7,547,800	1,025	6,790,929
Internal Warehouse Path	Km	114	171	139	147	145	1,812,500	136	1,543,052

³⁸ A workshop titled "Laurel" was held with the participation of 80 academicians, researchers, sector representatives and experts in the field from universities and public institutions and organizations, 40 decisions were taken under the topics "Laurel Utilization Management, Training, Value Added Industrial Product Production and Marketing Strategies, Development of the Domestic Market and Promotional Activities.

Table 56: Results of Maintenance, Restoration, Cultural Structure and Bridge Programme Implementation, 2015-2019

	Unit	2015	2016	2017	2018	2019			
						Programme		Implementation	
						Quantity	TRY	Quantity	TRY
Major Repair	Km	1,753	2,276	2,768	3,184	1,383	17,433,100	1,389	14,552,821
Superstructure	Km	2,261	2,142	2,520	2,843	508	9,141,000	515	8,777,321
Bridges	M	256	323	190	111	12	80,000	12	79,000
Cultural Structure	Km	2,823	3,131	3,210	3,696	900	17,132,000	873	15,869,388
Maintenance of Fire Safety Roads	Km	19,871	23,675	23,765	24,584	25,002	7,475,500	24,911	6,668,295
Tower Hut Road Maintenance	Km	1,531	1,628	1,579	1,605	1,582	395,500	1,562	338,684
Production Path Maintenance	Km	136,216	154,260	157,891	169,293	170,567	63,971,500	168,590	60,356,128

1.15 Research Projects

In 2019, 208 research projects, 34 of which were new, were carried out by the Research Institute Directorates, 42 projects were finalized,³⁹ approximately 140 thousand soil, water and plant analyses were conducted, and 1,832 seed quality control tests were carried out.

Table 57: Number of Research Projects Conducted and Completed, 2015-2019

	Unit	2015	2016	2017	2018	2019
Number of Projects Conducted	Number	224	230	220	220	208
Number of Projects Completed	Number	25	42	39	40	42

In order to increase capacity in the Institute Directorates, improve physical infrastructure and finance projects, TRY 5,956,782 of an appropriation of TRY 6,300,000 allocated in 2019 was spent.

1.16 Development of International Cooperation

In the process of sharing the experiences gained throughout the country in forestry on an international scale and developing cooperation in the implementation of scientific/technical developments, the studies summarized below were carried out.

- The sessions of the Intergovernmental Panel on Climate Change (IPCC), which prepared the scientific infrastructure and reporting guidelines of the United Nations Framework Convention on Climate Change (UNFCCC), were followed and the National Greenhouse Gas Inventory Accounting and the National Greenhouse Gas Inventory Report (NIR) LULUCF section were prepared for the years 1990 to 2017.
- The sessions of the Intergovernmental Panel on Climate Change (IPCC) on climate change were followed⁴⁰; and in the process of the Ministerial Conference on the Protection of European Forests (FOREST EUROPE), 3 Forest Europe meetings (GCC Meeting, Workshop and Expert Group) were hosted in accordance with the work programme.
- The processes related to the United Nations Forum on Forests (UNFF10) were followed and opinions were presented on the forestry activities carried out in our country within the scope of the International Forestry Strategy for 2017-2030.
- The Session 23 of the Silva Mediterranea Committee established within FAO to solve the problems related to Mediterranean forests and the Mediterranean Forests Week 6 were attended and side events were organized.
- The Session 24 of the Near East Forestry and Range Commission was held in our country and in accordance with the recommendations taken at the Session 23 of SilvaMed, 3rd annual meeting of the “Forest Invasive Species Network for Europe and Central Asia (REUFIS), of which we are a member as of 2019, was hosted by the General Directorate and held in cooperation with FAO.

³⁹ Interim results of 4 ongoing projects were received, and the duration of 19 projects was extended.

⁴⁰ The Session 49 of the IPCC was held in Kyoto, Japan in May 2019 and a study on “2019 Update and Improvement” of 2006 guidelines was conducted.

The Session 50 of the IPCC was held in Geneva, Switzerland in August 2019 and “IPCC Special Report on Climate Change, Desertification, Land Degradation, Food Safety, Sustainable Land Management and Greenhouse Gas Emissions in Terrestrial Ecosystems” was discussed.

- FOREST2019- Joint Session of the Committee on Forests and the Forest Industry of the European Economic Commission and FAO European Forestry Commission held in Geneva, Switzerland was attended and the position and practices of circular economy in European forestry were discussed.
- 53 people from 7 different countries visited the General Directorate, and 175 employees from 9 different countries were trained on forestry under 6 different topics. In addition, 31 employees from the General Directorate visited 4 different countries to conduct studies on forestry.
- 25 thousand lavender saplings were donated to TRNC, 260 tall plane trees were donated to Albania, and management plans were prepared for 2 forest sub-district directorates in Azerbaijan.
- A cooperation agreement was signed with France and Mongolia in the field of forestry.

The summary information on the developments and realizations achieved in 2019 in outsourced projects implemented with the aim of encouraging the implementation of an integrated management approach in the management of forests and contributing to the sustainable management of forest ecosystems is provided below.

Project for Integrated Management of Mediterranean Forests of High Conservation Value in Türkiye (GEF 5), 2014-2018⁴¹

- The Steering Committee Meeting was held, 2019 work plan and budget information were evaluated, and also a forest management team was sent to USA for a technical trip organized within the scope of the project for the preparation of an integrated forest management plan.
- New models and approaches developed within the scope of the project were integrated into forest management plans on the basis of pilot areas. Identifications regarding pests were compiled into reports, pest distribution maps and prescriptions (28 forest sub-district directorates under the Project) were prepared and integrated into management plans. Fire prevention trainings were provided to local people and primary school students in the pilot regions identified.
- The training of forest sub-district directors on the implementation of integrated forest management plans, and the training of Chief Forest Management Engineers and Auditors within the private sector and the General Directorate on integrated planning were completed.
- Muğla Köyceğiz Forest Sub-District Directorate delivered “Ecotourism Entrepreneurship Training” to forest villagers in order to reveal the ecotourism potential, and a “Widely Attended Ecotourism Workshop” was held to Reveal Ecotourism Potential.
- Development of non-wood forest products: A “Laurel Sector” visit was performed and workshops regarding the Laurel Value Chain were organized for the strengthening of the position of Andırın laurel collectors on the laurel value chain and the improvement of transportation means.
- In the workshop titled “Ecotourism in Forest Areas and Ecotourism Action Plan”, action plans regarding ecotourism were evaluated, and ecotourism activities of Adana Pos Forest District Directorate and Muğla Köyceğiz Forest District Directorate were completed.
- For the implementation guide on Sustainable Forest Management criteria indicators, a glossary of terms and definitions were created, and the printing of brochures, booklets and similar materials on climate change and protection of biodiversity were completed.

Project for Adaptation of the Mediterranean Forests to Climate Change⁴²

- Through modeling studies, the changes predicted for black pine and fir tree species in the pilot region during the climate change process were revealed and modeling results were evaluated together with regional risks and implementation proposals were developed.
- The climate change adaptation studies initiated together with universities are ongoing and a curriculum was developed on climate change adaptation within the scope of this studies.
- The method of climate change adaptation studies was revealed and a guiding document was created for the studies to be carried out in new regions.
- Awareness-raising activities were continued with visual and printed materials and a brochure was prepared on old oaks.

Project for Financing Mechanism for Electricity Production from Solar Energy in Forest Villages (GEF5-PV Project)

- A “Sustainable Energy Finance Unit” was established within the General Directorate and training was provided to the relevant personnel in order to build the capacity.
- An independent interim evaluation of the project was performed and an application was made for the extension of the project period in accordance with the decision of the Steering Committee.

⁴¹ Executive Organization: General Directorate of Forestry, Implementing Organization: United Nations Development Programme (UNDP), It is aimed to promote the implementation of an integrated management approach in the management of forests in Türkiye in order to demonstrate the multifaceted benefits of forests of high conservation value and guarantee biodiversity and carbon storage in the Mediterranean forest region. The Project was extended until the end of 2019 in accordance with the decision taken at the Steering Committee meeting.

⁴² Executive Organization: General Directorate of Forestry, Implementing Organization: The World Wildlife Conservation Foundation (WWF) aims to contribute to the survival of Mediterranean forests against the effects of climate change and to the preservation of their capacity to provide ecosystem services that are of importance for the people of the region.

- 2 100 kW PV power plants were installed, feasibility studies were conducted for the installation of a grid-connected rooftop PV system in forest villages in 4 provinces (Bolu, Çorum, Elazığ and Manisa) and the tender process was completed for Bolu Province.

Integration of Best and Innovative Practices in the European Union - Ecotourism Action Plan - Ecoact Project

- A study was conducted to contribute to ecotourism enterprises' carrying out their activities at European standards and to pave the way for these enterprises to be included in the European Ecotourism Network and to create a roadmap regarding the Ecotourism certification system.
- The project pilot areas were identified as Kastamonu, Bolu, Artvin and Giresun provinces, "European Ecotourism Standards Türkiye Implementation Guide" and "ECOACT Project Good Practice Examples Manual", which includes good practice examples related to ecotourism, were prepared.

1.17 Human Resources Management

The General Directorate of Forestry training programmes are planned and implemented as continuous training at all levels, effective awareness-raising and vocational training for the target audience, as well as training for the personal development of employees. In this process, 48 trainings were carried out⁴³ and a total of 4,077 employees participated in these trainings.

Table 58: Trainings Conducted and Number of Participants, 2015-2019

	Unit	2015	2016	2017	2018	2019
Number of Trainings Planned	Number	56	84	87	63	38
Number of Trainings Conducted	Number	44	51	79	61	48
Number of Employees Trained	Number	4,475	3,994	7,083	4,410	4,077

In addition, a total of 17,799 employees participated in 470 training programmes and/or activities organized by regional directorates of forestry, and internship requests of 12,854 students were responded positively.

1.18 Information and Communication Technologies

In 2019, 12 video conferencing devices were renewed and all existing devices were maintained. In addition, 3,272 electronic signatures were procured and renewed⁴⁴, and the total number of 1,290 REM addresses procured for use in notifications to be made to companies in accordance with the "Regulation on Registered Electronic Notification" for central and provincial units was reduced to 275, including 1 for the center, 28 for regional directorates and 246 for forest district directorates.

In addition, the National Electronic Notification System (NENS) was introduced and 247 NENS addresses, including 1 for the center and 246 for forest district directorates, were procured and put into use.

⁴³ 38 trainings were planned with in-service training programme and a total of 48 trainings, including 13 non-programme trainings, were delivered.

⁴⁴ A total of 5,096 electronic signatures are used. In addition, 9 mobile signatures are used for senior management and renewed annually.

2. Table of Performance Results

STRATEGIC GOAL (G1): TO PROTECT FORESTS AND FOREST RESOURCES AGAINST BIOTIC AND ABIOTIC PESTS

Target (T1.1): Preventive actions will be increased for fight against forest fires and response capacity will be strengthened.

Target (T1.1) Performance 70.0%

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG1.1.1: Ratio of the number of man-made fires to the total number of fires	Percent	15	87.0	86.0	86.0	100.0
The targeted indicator value has been reached. In our country, which is located in the Mediterranean climate zone due to its geographical location, a large part of our forests is under fire threat, and 60% of the total forest area consists of the areas sensitive to first- and second-degree fires. Rapid population growth and residential areas put forests in jeopardy in terms of fire. In order to reduce this risk, pre-fire education and awareness-raising activities will be prioritized.						
PG1.1.2: Area per fire	Hectare	30	2.6	2.4	4.21	-805.0
The targeted indicator value could not be reached. Extreme meteorological weather conditions and climate change are among the important risk factors. For forest protection and firefighting, it is aimed to increase the effectiveness with augmented virtual reality and artificial intelligence applications and to improve the performance indicator value by developing monitoring, surveillance, coordination, communication and early warning systems based on modern technology.						
PG1.1.3: Duration of first response to fire-sensitive areas of the first degree	Minute	55	15.0	14.0	12.0	300.0
The targeted indicator value has been reached. The development of monitoring and early warning systems based on modern technology will be continued to increase the effectiveness in forest protection and firefighting by increasing preventive measures for fighting forest fires.						

Target (T1.2): The health of forest ecosystems will be monitored, and forest existence and health will be protected by taking natural or nature-friendly preventive actions for disease and pest control.

Target (T1.2) Performance 74.5%

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG1.2.1: Number of observation plots where the health of forest ecosystems will be monitored	Number	30	661	661	651	98.5
The targeted indicator value could not be reached. In the Southeastern Anatolia region, monitoring could not be carried out in 10 Level I sites due to security reasons.						
Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG1.2.2: Number of laboratories established	Number	25	8	8	8	100.0
The construction of 8 new laboratories was completed in Antalya, Bolu, Izmir and Ankara Regional Directorates of Forestry in 2016, and in Adana, Zonguldak, Trabzon and Bursa Regional Directorates of Forestry in 2017.						

PG1.2.3: Number of unmanned protection systems installed

Number	25	1	2	1	0.0
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The targeted indicator value could not be reached. Unmanned surveillance systems are planned to cover forest areas outside of residential areas. 1 unmanned protection system planned to be installed in 2019 was cancelled due to economic reasons.

PG1.2.4: Number of camera traps for preventing grazing damage

Number	20	569	1,077	1,227	129.5
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The targeted indicator value has been reached. The procurement process of 658 camera traps included in the programme in 2019 was completed, and the scope of the indicator, which aims to protect forests from grazing damage by utilizing developing technological opportunities, was expanded to aim the protection of forests and forest resources against biotic and abiotic pests.

Target (T1.3): The registration of forest areas with finalized cadastre will be ensured and ownership problems will be resolved.

Target (T1.3) 85.0%
Performance

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG1.3.1: Area of registered forests	Thousand	25	20,000	21,250	20,500	40.0

The targeted indicator value could not be reached. The digitization tender of the cadastral bases was completed in 2,000 units out of 3,506 units awaiting registration for the digitization of the cadastral bases, and the necessary appropriation was transferred to the relevant accounts for the digitization tender of the remaining units to be carried out by the General Directorate of Land Registry and Cadastre. However, reasons such as lawsuit processes that interrupted the registration processes during the announcement phase affected the monitoring period realization value. A protocol was arranged between the General Directorate of Land Registry and Cadastre and the General Directorate of Forestry for digitization and registration of the cadastral bases, and the amendment to Article 4 of the Cadastre Law No. 3402 has paved the way for the registration process to be carried out quickly.

PG1.3.2: Number of units for which 2/B work is performed

Number	75	17,415	19,415	19,604	109.5
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The targeted indicator value has been reached. Since the 2/B programme was generally selected from the digital units of the forest cadastre according to the Cadastre Law No. 3402, the realization was above the targeted indicator, and determination of the boundaries of forests, application works for the application of forest limitation or cadastral procedures to the land in accordance with the new laws, applications in Article 2 of Law No. 1744 and applications in Article 2/B of Law No. 3302, and registration of the places with finalized boundaries with the land registry are carried out within the framework of the prepared programme.

Target (T1.4): Socio-economic development in forest villages will be supported.

Target (T1.4) 94.6%
Performance

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
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PG1.4.1: Employment provided by economic supports

Person/year	30	72,472	74,760	74,667	95.9
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The targeted indicator value could not be reached. The 2019 production programme was increased to 30 million m³, and in to meet the demands for production mechanization of forest villagers actually working for the production of forest products and to implement it, support of projects such as log handling cranes (drums), tractors and chain saws, etc. was decided. The work programme prepared accordingly was put into practice and 765 families were provided with supports. In the ongoing process, projects for production mechanization will be increased and diversified.

PG1.4.2: Wood savings provided by social supports

Thousand Steres	30	3,379	3,402	3,407	121.7
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The targeted indicator value has been reached. The loan and grant supports provided to forest villagers will be increased and the amount of wood savings ensured through social supports will be increased.

PG1.4.3: Number of families and cooperatives supported

Thousand (pcs)	40	497.0	507.5	506.4	89.5
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The targeted indicator value could not be reached. The 2019 production programme was increased to 30 million m³, and in to meet the demands for production mechanization of forest villagers actually working for the production of forest products and to implement it, support of projects such as log handling cranes (drums), tractors and chain saws, etc. was decided. The work programme prepared accordingly was put into practice. The change in the amount of resources and demands has a positive and/or negative impact on the targeted indicator value and the targeted indicator value could not be reached because the project costs were higher or weighted than other project types. The loan and grant support provided to the forest villagers will be increased and the change in demands will be monitored.

STRATEGIC GOAL (G2): TO DEVELOP FORESTS, INCREASE THEIR PRODUCTIVITY AND EXPAND THEIR AREAS

Target (T2.1): Wood quality and seed and fruit productivity will be increased, and silvicultural maintenance measures for the establishment of healthy forests will be increased.

Target (T2.1) 100.0%
Performance

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG2.1.1 Growing stock of trees per hectare ⁴⁵	M ³	50	73.3	73.7	73.8	125.0
The targeted indicator value has been reached. 94.72% of the forests are operated as groves and 5.28% as coppices, and the change in forest areas also affects the distribution of growing stock. The growing stock of standing trees in our country's forests increased by approximately 744 million m ³ between 1973 and 2019. This increase is caused by the establishment of new forests and the increase in the share of grove areas due to the decrease in areas of coppices and forests with low crown closure.						
Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG2.1.2 Total amount of increments in forests ⁴⁶	Thousand m ³	50	47,000	47,200	47,200	100.0
The targeted indicator value has been reached. Forestry practices not only change area and growing stock levels, but also affect the age components of trees constituting forests and therefore their increment. The total annual increment in forests was 28 million m ³ in 1973 and as a result of forestry implementations, the annual increment reached 47.2 million m ³ in 2019. Although the increase in the share of area of groves has an impact on this result, the acquisition of new forest areas and the maintenance activities carried out in the forests have a great impact.						

Target (T2.2): Productive forest area will be increased to 14,000,000 hectares.

Target (T2.2) 183.0%
Performance

⁴⁵ The National Forest Inventory is published every five years. The next inventory will be published in 2020, and annual data has been determined by taking into account the areas with management plans renewed.

⁴⁶ The National Forest Inventory is published every five years. The next inventory will be published in 2020, and annual data has been determined by taking into account the areas with management plans renewed.

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG2.2.1: Productive forest area ⁴⁷	Thousand hectares	100	12,900	13,000	13,083	183.0
The targeted indicator value has been reached. The area of forests with normal crown closure (productive) constitutes 57.53% of the total forest area with 13,083,510 hectares, and the area of forests with low crown closure (degraded) constitutes 42.47% of the total forest area with 9,656,787 hectares.						
Target (T2.3): The implementation rate will be increased from 9% to 100% in a total potential area of 330,000 hectares determined to be suitable for industrial afforestation.						
Target (T2.3) Performance 20.0%						
Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG2.3.1: Implementation rate for industrial afforestation in potential areas	Percent	100	9.0	27.0	12.6	20.0
The targeted indicator value could not be reached. As a result of ground studies carried out in 13 regional directorates of forestry in 2013, an area of 164,922 hectares that can be subject to industrial afforestation was identified, and this figure was increased to 330,000 hectares during the 2019-2023 strategic plan preparation process. During the year, studies were carried out on an area of 12,077 hectares due to economic reasons, and to date, the studies were completed on a total area of 41,645 hectares.						
Target (T2.4): Our forest presence will be increased to 30% of the total area of the country.						
Target (T2.4) Performance 100.0%						
Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG2.4.1: Ratio of forest presence to the total area of the	Percent	100	29.0	29.2	29.2	100.0
The targeted indicator value has been reached. Our country's forest assets cover approximately 29.2% of the country's surface area with 22,740,297 hectares.						
Target (T2.5): Erosion will be controlled and pasture improvement activities will be developed to reduce soil loss.						
Target (T2.5) Performance 100.0%						
Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG2.5.1: Size of area with soil loss controlled	Thousand hectares	90	1,534	1,547	1,550	123.1

⁴⁷ The National Forest Inventory is published every five years. The next inventory will be published in 2020, and annual data has been determined by taking into account the areas with management plans renewed.

⁴⁸ The National Forest Inventory is published every five years. The next inventory will be published in 2020, and annual data has been determined by taking into account the areas with management plans renewed.

The targeted indicator value has been reached. Giving priority to erosion and sediment control projects in all basins, especially dam and pond basins. Also, the implementation of basin rehabilitation, flood, avalanche and landslide projects prepared against natural disasters in the upper basin areas and large-scale integrated and participatory basin rehabilitation projects will be continued.

PG2.5.2: Improved pasture area	Thousand hectares	10	242	247	250	160.0
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The targeted indicator value has been reached. It is aimed to prevent soil losses in pastures by improving pastures in the forest, on the forestside and on the upper forest border, which are used as pastures, however cannot be transformed into forest area, and to support forest villagers economically by increasing pasture productivity.

STRATEGIC GOAL (G3): TO ENSURE THAT THE SOCIETY BENEFITS FROM THE GOODS AND SERVICES PRODUCED BY FORESTS AT THE OPTIMUM LEVEL

Target (T3.1): In accordance with the multi-purpose utilization of 6,868,000 hectares of forest area, inventory will be prepared and the management plan will be renewed.

Target (T3.1) Performance 100.0%

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG3.1.1: Number of plans renewed using geographic information systems	Number	100	415	517	517	100.0

The targeted indicator value has been reached. Management plans were renewed in 101 forest sub-district directorates within the boundaries of 15 forest district directorates affiliated to 5 regional directorates of forestry and forest management plans were prepared/caused to be prepared on a total area of 957,019 hectares, 426,460 hectares of which were by our chief engineering directorates and 530,559 hectares of which were through service procurement.

Target (T3.2): Quality and productivity of wood-based forest products will be increased, costs will be reduced and sustainable competition will be ensured in domestic and foreign markets.

Target (T3.2) Performance 30.0%

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG3.2.1: Rate of productivity in industrial wood production	Percent	40	79.0	80.0	77.1	-190.0
PG3.2.2: Ratio of logs of Classes I and II to total log production	Percent	30	11.0	11.3	11.8	266.7

The targeted indicator value could not be reached. In 2019, industrial wood production was increased in line with the capacity percentage in the sector and as a result of intensive maintenance interventions in forests. Due to the increase in production of mainly thin-diameter stands and the restrictions related to both logistics and human resources, the yield percentage remained below the targeted level.

Depending on the increase in the production programme, the capacity of logistics and human resources will be strengthened and the indicator value will be improved.

The targeted indicator value has been reached. In our country, the supply of quality products to meet the need for wood raw materials continues increasingly, and the contraction of imports due to problems in raw material imports and the increase in exchange rates increases the demand for wood raw materials.

PG3.2.3: Ratio of standing tree sales to total Standing Barked Stem

Indicator	Unit	Target	2018	2019	2020	2021
PG3.2.3: Ratio of standing tree sales to total Standing Barked Stem	Percent	30	33.0	34.0	32.0	-100.0

The targeted indicator value could not be reached. The quantity of standing trees sold in 2018 was at the level of 8 million m³ and this figure resulted in 9.3 million m³ in 2019. However, due to the increase in the production programme, the standing tree sales rate remained below the targeted level.

Target (T3.3): Ecotourism services will be expanded, and non-wood forest product diversity and production will be increased.

Target (T3.3) 100.0%
Performance

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
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PG3.3.1:

Ecotourism management area

Number	40	5	10	12	140.0
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The targeted indicator value has been reached. The number of completed ecotourism management plans were increased to 12 and an "Ecotourism Action Plan" was prepared in accordance with the "Communiqué No. 308 on Procedures and Principles for the Management of Ecotourism Areas".

PG3.3.2: Number of Honey Forests

Number	15	450	500	533	166.0
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The targeted indicator value has been reached and the number of honey forests reached 533 with 70,389 hectares.

PG3.3.3:

Laurel rehabilitation

Hectare	15	511	850	961	132.7
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The targeted indicator value has been reached. In the implementation process of the prepared Laurel Action Plan (2016-2020), a total of 961 hectares of land was rehabilitated, including 34 hectares in 2019.

PG3.3.4: Truffle forests

Hectare	15	245.0	325.0	384.8	174.8
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The targeted indicator value has been reached. . In the implementation process of the prepared Truffle Forest Action Plan (2014-2019), 322.8 hectares of natural and 62 hectares of artificial truffle forests were developed and/or created.

PG3.3.5:

Amount of resin produced

Tonne	15	205	480	508	110.2
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The targeted indicator value has been reached. In the implementation process of the prepared Resin Action Plan (2017-2021), a total of 508 tonnes of raw resin was produced, including 290 tonnes in 2019.

Target (T3.4): Considering national conditions and international developments, a standardization and certification system will be developed for forest products, and the area of certified forests will be

Target (T3.4) 100.0%
Performance

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
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PG3.4.1: Area of certified forests

Million hectares	100	2.4	4.3	4.3	100.0
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The targeted indicator value has been reached. In the period between 2010 and 2019, forest management certification (FSC) was obtained for 4,276,219 hectares of forest area covering 51 forest district directorates in Muğla, Kastamonu, Zonguldak, Bolu, Bursa, İstanbul, Adana and Antalya Regional Directorates of Forestry.

Target (T3.5): Forestry infrastructure will be strengthened, and pilot applications will be carried out to improve road standards in forests whose main function is production.

**Target (T3.5)
Performance**

100.0%

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG3.5.1: Amount of forest roads with standards developed with pilot application	Km	40	380	760	760	100.0
PG3.5.2: Number of pilot forest sub-district directorate	Number	30	8	16	16	100.0
The targeted indicator values have been reached, and the list of forest district directorates where a pilot application was carried out in 2019 and the amount of forest roads with standards developed with the application are given below. Amasya Regional Directorate of Forestry/Kargı Forest District Directorate/Erenlerkös Forest Sub-District Directorate (50 km), Vezirköprü Forest District Directorate/Kunduz Forest Sub-District Directorate (50 km) Bolu Regional Directorate of Forestry/Aladağ Forest District Directorate/Sarıalan Forest Sub-District Directorate (47 km), Bolu Forest District Directorate/Abant Forest Sub-District Directorate (53 km) Kastamonu Regional Directorate of Forestry/Kastamonu Forest District Directorate/Bostan Forest Sub-District Directorate (40 km), Tosya Forest District Directorate/Yeşilgöl Forest Sub-District Directorate (50 km) Zonguldak Regional Directorate of Forestry/Yenice Forest District Directorate/Karaka Forest Sub-District Directorate (45 km), Bakraz Forest Sub-District Directorate (45 km)						

PG3.5.3: Ratio of roads constructed by excavator to the total amount of roads

Percent

30

60

60

60

100.0

The targeted indicator value was reached, and the ratio of roads constructed by excavator to the total amount of roads in the forest sub-district directorates, where a pilot application was carried out, resulted at a level of 60%.

STRATEGIC GOAL (G4): TO IMPROVE INSTITUTIONAL CAPACITY

Target (T4.1): Research and development projects will be prepared and implemented to solve problems in the field of forestry, to develop new techniques and to ensure effective governance.

Target (T4.1) Performance 60.0%

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG4.1.1: Number of research projects completed	Number	60	179	209	221	140.0
The targeted indicator value has been reached. In 2019, 208 research projects, 34 of which were new, were carried out by the Research Institute Directorates, 42 projects were finalized. The general economic situation and changes in the external environment, such as climate change, indicate that research on cost-effective forestry activities and climate change-compatible forestry activities should be encouraged.						
PG4.1.2: Number of outsourced projects	Number	40	19	22	19	0.0

The targeted indicator value has not been reached. In the strategic plan preparation process, it was estimated that 2 projects would be completed by the end of 2018, and in this respect, the plan period initial value was determined to be 19. However, the periods for these projects were extended and the projects were completed in 2019.

Target (T4.2): In order to ensure institutionalization in strategic management, the financial, legal, administrative and human resources will be developed.

Target (T4.2) Performance 95.3%

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG4.2.1: Coverage ratio of own revenues to	Percent	40	57.0	58.0	68.9	1,190
The targeted indicator value has been reached. The targeted indicator value has been reached. It was planned that 58% of the expenses planned to be realized in 2019 would be financed from own revenues, and depending on the permissions granted pursuant to Articles 16, 17 and 18 of the Forest Law No. 6831, there was a significant increase in the "Land Permit Fee Income for Forestry Activities", the delay interests from the permissions granted in previous years, the conditional donations made by institutions and persons for afforestation, the repayments of the loans granted in previous years and the fund revenues.						
PG4.2.2: Rate of completion in standard position	Percent	10	48	50	51	150.0
The targeted indicator value has been reached. In accordance with Article 4 (B) of Law No. 657, the recruitment process for a total of 4,996 contract employees from various titles was started in 2019. In addition, 2,097 employees applied for title change examination, 1,743 employees were entitled to take a written examination, 1,297 employees were entitled to take an oral examination. The targeted performance value varies depending on the number of positions to be allocated by the Department of Strategy and Budget of the Presidency and the Ministry of Treasury and Finance to the General Directorate.						
PG4.2.3: Number of risk-based audits	Number	15	146	161	163	113.3
The targeted indicator value has been reached. Internal Audit Plan for the Period 2019-2021 and Internal Audit Programme 2019 have been prepared, and 2 system and 14 compliance audits included in the programme as well as 1 non-programme inspection have been carried out						
PG4.2.4: In-service training programme realization rate	Percent	20	66	100	92	76.5
The targeted indicator value has not been reached. 38 trainings were planned with the in-service training programme and 35 of them were completed. In addition, 13 non-programme trainings were delivered. Orientation trainings and in-service trainings, seminars, conferences and practices other than system and legislation changes were not delivered in accordance with the savings measures taken.						
PG4.2.5: Amount of area per forest sub-district directorate	Hectare	15	15,874	15,800	10,626	7,091.9
The targeted indicator value has been reached. During the year, the establishment of 715 forest sub-district directorates was completed and the number of forest sub-district directorates was increased to 2,140.						

Target (T4.3): Information systems and technology infrastructure will be completed, and forest information system will be developed and expanded.

Target (T4.3) Performance 46.4%

Strategic Performance Indicators	Criterion	Impact on Target (%)	Plan Period Initial Value	Year-End Target Value in Monitoring Period	Monitoring Period Performance Value	Performance (%)
PG4.3.1: Number of employees trained in information security	Person	15	9,000	18,000	18,000	100.0

The targeted indicator value has been reached. With the “Information and Communication Security Measures” announced by the Presidency’s Circular No. 2019/12, the curriculum of the information security training to be given to the employees of the General Directorate was completed, the renewal and auditing processes for certification on information security were completed and awareness trainings were organized.

Changes occurred in national and international standards and information security criteria, and these changes caused the update of the measures to be taken to reduce and neutralize security risks and to ensure the security of critical types of data that may threaten national security or disrupt public order. Therefore, development of the trainings in terms of curriculum was needed and the curriculum update, training preparations and planning studies were completed.

PG4.3.2: Number of software developed and/or procured

Number	55	34	41	38	57.1
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The targeted indicator value could not be reached. Within the scope of the Forest Information System (ORBIS) Dissemination Project, 4 (four) software modules were completed and put into use as of the end of the year. The targeted indicator value could not be reached due to the needs of the units that would use the modules and the changes in the information and data exchange between the software development teams.

PG4.3.3: Number of Disaster Recovery Centers established

Number	30	0	1	0	0.0
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The targeted indicator value could not be reached. Within the scope of the Disaster Recovery Center Project, all preliminary preparations and feasibility studies were completed, and the “Common Data Center” planned to be established by the Ministry is awaited. In the transition process, critical data produced will be backed up in the system planned to be established within the Kayseri Regional Directorate of Forestry.

Target Performance: It is equal to the sum of the values obtained by multiplying the performance value calculated for each performance indicator listed under the targets by the level of impact on the target.

In order to correctly calculate the impact of performance indicators on the target, the target performance was calculated and if the performance of the indicator was above 100%, it was regarded as “100”, and if it was a negative value, it was regarded as “0”. In cases where there was only one performance indicator below the target, the performance figure of the performance indicator was regarded as is in the target performance calculation.

Monitoring Period: 2019

Performance (%): It is the ratio of the difference between the monitoring period realization value and the plan period initial value to the difference between the year-end target value in the monitoring period and the plan period initial value.

3. Assessment of Performance Results

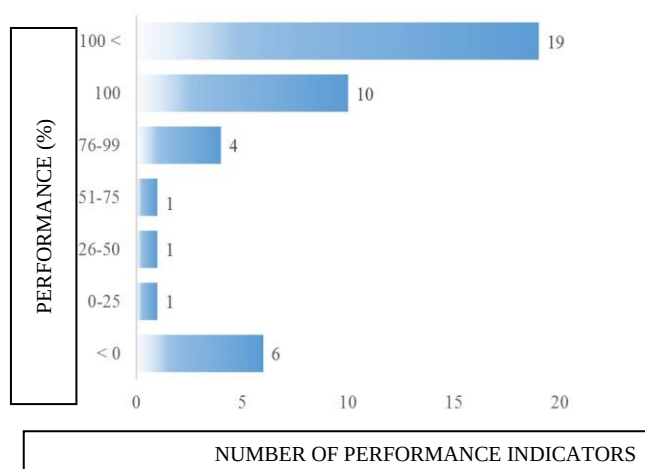
The **mission** of the General Directorate of Forestry in the 2019-2023 Strategic Plan is “to protect forests and forest resources, to develop them with an understanding close to nature, and to manage them in a way that is sustainable and provides multifaceted benefits to the society within the integrity of the ecosystem”, and its **vision** is “to be a leading institution in sustainable forest management practices”, and 17 strategic targets, 48 strategies and 42 performance indicators were determined under 4 strategic goals for the period 2019-2023.

The 2019 programme was presented with the 2019 performance programme prepared in line with the priorities of the strategic goals in the plan, and the prepared programme was supported by investment and revolving fund work programmes that were implemented by making local distributions on the basis of sectors, budgets and projects.

As of the end of 2019;

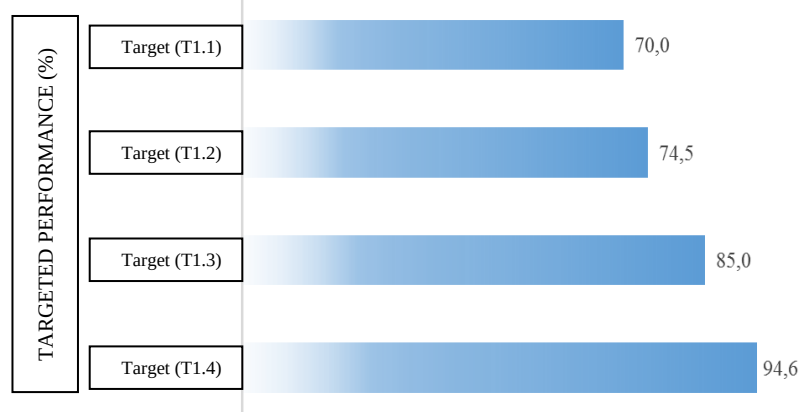
Out of the performance indicators in the plan, 19 resulted in a performance value above the target values, 10 resulted in a performance value at the target value, and 13 resulted in a performance value below the target values.

There is no need to update the targets and performance indicators that are expected to be realized over the years, and necessary precautions are taken against emerging risks.



Following the evaluation made on the performance indicators determined for the strategic targets, progress was achieved above 100% in 1 strategic target, at 100% in 7 strategic targets and below the targeted level in 9 strategic targets.

STRATEGIC GOAL (G1): TO PROTECT FORESTS AND FOREST RESOURCES AGAINST BIOTIC AND ABIOTIC PESTS



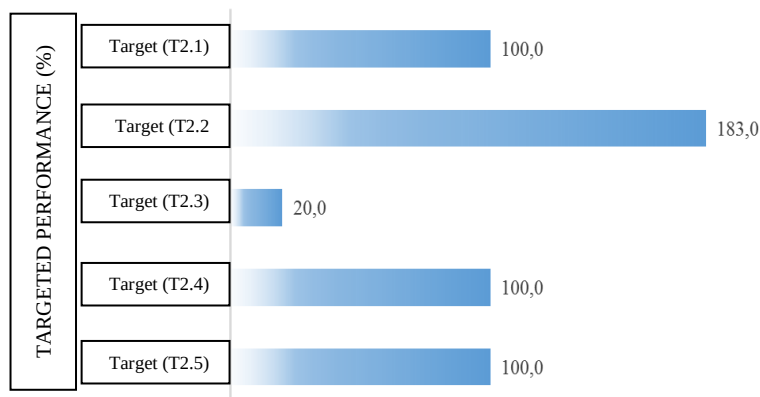
Target (T1.1): Preventive actions will be increased for fight against forest fires and response capacity will be strengthened.

Target (T1.2): The health of forest ecosystems will be monitored, and forest existence and health will be protected by taking natural or nature-friendly preventive actions for disease and pest control.

Target (T1.3): The registration of forest areas with finalized cadastre will be ensured and ownership problems will be resolved.

Target (T1.4): Socio-economic development in forest villages will be supported.

STRATEGIC GOAL (G2): TO DEVELOP FORESTS, INCREASE THEIR PRODUCTIVITY AND EXPAND THEIR AREAS



Target (T2.1): Wood quality and seed and fruit productivity will be increased, and silvicultural maintenance measures for the establishment of healthy forests will be increased.

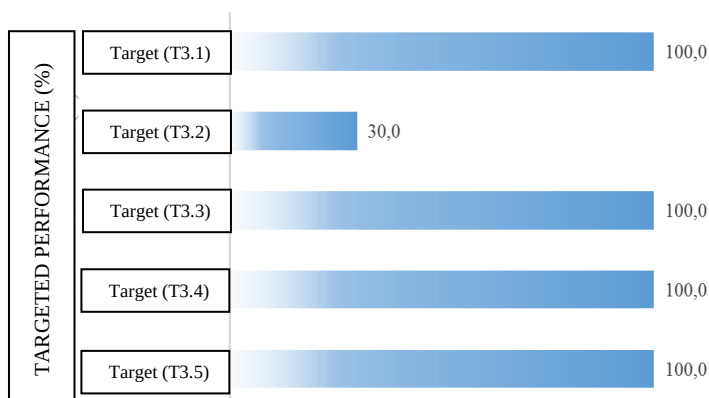
Target (T2.2): Productive Forest Area will be increased to 14,000,000 hectares.

Target (T2.3): The implementation rate will be increased from 9% to 100% in a total potential area of 330,000 hectares determined to be suitable for industrial afforestation

Target (T2.4): Our forest presence will be increased to 30% of the total area of the country.

Target (T2.5): Erosion will be controlled and pasture improvement activities will be developed to reduce soil loss.

STRATEGIC GOAL (G3): TO ENSURE THAT THE SOCIETY BENEFITS FROM THE GOODS AND SERVICES PRODUCED BY FORESTS AT THE OPTIMUM LEVEL



Target (T3.1): In accordance with the multi-purpose utilization of 6,868,000 hectares of forest area, inventory will be prepared and the management plan will be renewed.

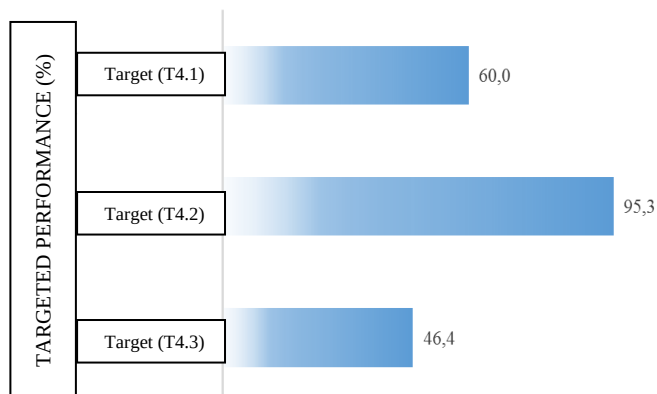
Target (T3.2): Quality and productivity of wood-based forest products will be increased, costs will be reduced and sustainable competition will be ensured in domestic and foreign markets.

Target (T3.3): Ecotourism services will be expanded, and non-wood forest product diversity and production will be increased.

Target (T3.4): Considering national conditions and international developments, a standardization and certification system will be developed for forest products, and the area of certified forests will be increased.

Target (T3.5): Forestry infrastructure will be strengthened, and pilot applications will be carried out to improve road standards in forests whose main function is production.

STRATEGIC GOAL (G4): TO IMPROVE INSTITUTIONAL CAPACITY



Target (T4.1): Research and development projects will be prepared and implemented to solve problems in the field of forestry, to develop new techniques and to ensure effective governance.

Target (T4.2): In order to ensure institutionalization in strategic management, financial, legal, administrative and human resources will be developed.

Target (T4.3): Information systems and technology infrastructure will be completed, and forest information system will be developed and expanded.

The total resource required for 2019 was determined to be TRY 8,110,410,000 with the strategic plan, and the amount of appropriation spent at the end of the year was TRY 8,639,748,792.

Deviation Rate 6.5%



The 2019 implementation results of the activities and/or projects carried out for the targets determined with the strategic plan and of the action plans are given below.

Resources Used (TRY) Cost Estimate (TRY)

1. In the period between 2015 and 2019, an average of 2,521 forest fires were responded to and a forest area of 8,269 hectares/year was damaged. Duration of first response to fire-sensitive areas of the first degree was 12.0 minutes.
2. For the fight against forest pests, the biological, mechanical and biotechnical control rate, which was 97.2% in 2015, reached 99.2%

. In the implementation process of the “Forest Ecosystems Monitoring Programme”, which was initiated with the aim of obtaining quality scientific data based on national, long-term, large-scale and intensive monitoring on the health and vitality of forests, the number of evaluated observation plots was 651 and the number of evaluated trees was 21,493.

The number of forest crimes in 2019 increased by approximately 11% compared to the previous year. This rate resulted as 16% for the crime of illegal cutting down, 5% for the crime of transporting, 62% for the crime of possession, 65% for the crime of consumption, 2% for the crime of deforestation-settlement, 10% for the crime of occupation-utilization and 2% for the crime of grazing.

3. The forest cadastre of our country’s forests was completed and the cadastre of 24,500,000 hectares of area and the registration of 20,500,000 hectares of area were completed. Efforts were accelerated to ensure the registration of 4,000,000 hectares of forest area, which could not be registered despite the completion of the cadastre.
4. Employment of a total of 110,060 persons/month was ensured in the last five years in addition to the economic loans allocated to forest villagers.
5. 94.72% of the forests are operated as groves and 5.28% as coppices, and the change in forest areas also affects the distribution of growing stock. The growing stock of standing trees in our country’s forests increased by approximately 744 million m³ between 1973 and -2019.

Forestry practices not only change area and growing stock levels, but also affect the age components of trees constituting forests and therefore their increment. The total annual increment in forests was 28 million m³ in 1973 and as a result of forestry implementations, the annual increment reached 47.2 million m³ in 2019.

6. The area of forests with normal crown closure (productive) reached 57.53% of the total forest area with 13,083,510 hectares, and the area of forests with low crown closure (degraded) decreased to 42.47% of the total forest area with 9,656,787 hectares.
7. As a result of ground studies carried out in 13 regional directorates of forestry in 2013, an area of 164,922 hectares that can be subject to industrial afforestation was identified, this figure was increased to 330,000 hectares during the 2019-2023 strategic plan preparation process, and to date, the studies were concluded on a total area of 41,645 hectares.
8. According to the results of forest management inventory evaluation, the forest asset, which was 20,199,296 hectares in 1973, reached 22,740,297 hectares in 2019. ⁴⁹
9. Priority was given to erosion and sediment control projects in all basins, especially dam and pond basins and works were carried out in a total of 346 flood basins within the scope of the Upper Basin Flood Control Action Plan. In addition, within the scope of the Dam Basins Green Belt Afforestation Action Plan, a total of 516 green belts were created around dams and ponds to date.
10. Functional forest management plans of all forests were completed and the number of plans renewed using geographic information systems reached 517.

⁴⁹ The National Forest Inventory is published every five years. The next Inventory will be published in 2020, and annual data has been determined by taking into account the areas with management plans renewed.

11. Industrial wood production increased by 15.9% and firewood production by 14.3% compared to the previous year. Productivity in industrial wood production was 77.1% and the ratio of wood production of classes I and II to the total production was 11.8%. In addition, the share of standing tree sales in wood production was 32%.
12. A total of 134 urban forests and 1,453 recreation areas were arranged in order to make the health, sports, aesthetic, cultural and social functions of forests available to the public. Also, the number of ecotourism management plans reached 12 and the number of honey forests reached 533 with 70,389 hectares as completed in accordance with the “Communiqué No. 308 on Procedures and Principles for the Management of Ecotourism Areas”.
13. The certification studies, which were initiated as a pilot study in Bolu Aladağ Forest Sub-District Directorate in 2010, were completed in 2011, and as of the end of 2019, a forest management certificate (FSC) was obtained for 4,276,219 hectares of forest area covering 51 forest district directorates.
14. The amount of forest roads planned for the realization of all kinds of forestry activities was revised as 320,000 km, and 196,087 km of this was completed Together with 77,960 km of village roads, highways and other roads (mining roads, plateau roads...) passing through the forest, the total length of roads that can be used in forestry services reached 274,047 km.
15. Between 2015 and 2019, 188 projects have been concluded on tree improvement, plantation forestry, protection and development of natural forests, non-wood forest products, combating erosion, pasture improvement, biodiversity, social forestry, etc. and the results have been presented to the implementation units.
16. In accordance with Article 4 (B) of Law No. 657, the recruitment process for a total of 4,996 contract employees from various titles was started in 2019 and during the year, the establishment of 715 forest sub-district directorates was completed and the number of forest sub-district directorates was increased to 2,140.
17. Within the scope of the Forest Information System (ORBIS) Project, user tests of the developed application modules were completed, trainings were delivered and they were put into use. The ORBIS 2017-2019 Feasibility Report prepared for the provision of development, integration, hardware and system needs regarding the phase 2 of the project was approved by the relevant administrations and the Project was included in the 2017 investment programme.

Within the scope of the ORBIS Dissemination Project, general and detailed analysis studies were completed and 14 modules were developed, and testing and dissemination activities, development activities for the remaining 3 modules and digitization activities are ongoing.

4. Assessment of Performance Information System

The Forest Information System (ORBIS) Project, which was included in the investment programme in 2011 in order to establish the IT infrastructure of the General Directorate of Forestry, carry out all processes and procedures electronically, improve the economic and social conditions, and implement business processes in accordance with the strategic plan, was put into practice as 4 main projects and sub-components. Within the scope of the Project, user tests of the developed application modules were completed, trainings were delivered and they were put into use. The ORBIS 2017-2019 Feasibility Report prepared for the provision of development, integration, hardware and system needs regarding the phase 2 of the project was approved by the relevant administrations and the Project was included in the 2017 investment programme . Within the scope of the ORBIS Dissemination Project, general and detailed analysis studies were completed and 4 modules were developed, and testing and dissemination activities, development activities for the remaining 3 modules and digitization activities are ongoing. In addition, 1,000 personnel security devices, 2,000 drivers and identification devices, 4 integrated servers and 12 video conferencing devices were purchased and efforts were maintained to digitize 3,151,682 documents and maps.

All internal and external correspondence processes are managed through the Electronic Document Management System, and in the monitoring process of activities related to indicators included in strategic plans and performance programmes, the Electronic Document Management System (EDMS) and data recording systems (Activity Tracking System) where information technology is integrated into the process are used.

IV. ASSESSMENT OF INSTITUTIONAL ABILITY AND CAPACITY

A SWOT Analysis was carried out in line with the opinions and suggestions of stakeholders, considering the current situation of our country's forestry and future trends and expectations. In this context, the outputs of the stakeholders survey study 2016 and the PESTLE Analysis study completed in 2018 were evaluated together, and the strengths and weaknesses of the Institution, as well as the opportunities and threats, were determined with target criteria.

A. STRENGTHS

1. Organizational structure, adequate equipment, infrastructure and communication systems
2. Corporate culture, strong and dynamic financial structure
3. Planning awareness and management system
4. Orientation to information technology and speed and mobilization in actions and processes
5. Qualified human resources

B. WEAKNESSES

1. Personnel employment policy, specialization and career planning system
2. Professional structure in workforce and production
3. Corporate effectiveness, promotion, information and awareness
4. Monitoring and evaluation system
5. Integration of information technology into business processes
6. Determining the value of ecosystem services

C. OPPORTUNITIES

1. Fast decision-making mechanisms
2. Increased awareness on the strengthening of civil society movements, the protection of natural resources and the importance of sustainable management
3. Increased importance of forests and forestry sector in international agreements related to forestry to which the European Union and our country are parties
4. Research partnerships and experience sharing between agricultural, forestry and livestock sectors
5. Greater cooperation with the agricultural sector, harmonization of conflicting and overlapping issues, effective organizational structuring, ease of expansion of agrosilvopastoral systems
6. Development of research methods, widespread use of information and communication technologies and increased ease of use of technology
7. Development of green economy approach and participatory planning techniques
8. Increased demand for products and services produced with Sustainable Forest Management (SFM)
9. Richness of forests in terms of species, structures, genetic diversity and ecosystem diversity
10. Increased demand for domestic wood and non-wood forest products and ease of marketing

D. THREATS

1. Climate change, air pollution and industrial waste
2. Diseases and harmful organisms originating from abroad subject to quarantine
3. Rural poverty and low income and educational levels of forest villagers
4. Increased labor and production costs and decreased young population in forest villages
5. Inefficiency in policy, plan, program and implementation hierarchy
6. Occupational accidents and rapid change in information technology

V. RECOMMENDATIONS AND MEASURES

The “Strategic Plan 2010-2014 of the General Directorate of Forestry” prepared in accordance with the transition schedule included in the annex to the Regulation on Procedures and Principles regarding Strategic Planning in Public Administrations has been renewed to cover the periods “2013-2017” and “2017-2021” in line with the procedures and principles determined by the relevant Regulation.

With the Presidential Government System, the ministries were restructured, and the announced Presidential 100-Day Executive Programme includes the renewal of strategic plans to cover the period “2019-2023”.

Within the scope of the relevant Law, Regulation and the Presidential 100-Day Performance Programme, the Strategic Plan of the General Directorate of Forestry was revised to cover the period 2019-2023. In this process, the basic policies, priorities, targets and measures proposed in the international agreements to which our country is a party, the Development Plan, the National Forestry Programme of Türkiye, the New Economy Programme, the Medium Term Financial Plan and other high-level policy documents and national or regional strategy documents and/or action plans have been considered.

The primary goal of the General Directorate, which is responsible for protecting, developing and expanding forests and forest resources, and managing them in a sustainable manner within the integrity of the ecosystem and so as to provide multifaceted benefits to the society, is to be a leading institution in sustainable forest management practices.

Considering the biological and technical characteristics and ecological, economic, social, cultural and managerial dimensions of forest management within an ecosystem integrity taking into consideration the demands of society and the structure of the country’s forests is the basic approach of today’s forestry understanding.

Legal assurance of forests, effective protection against various factors, especially fires and pests, multipurpose and efficient management, afforestation for industrial and soil conservation purposes, rehabilitation works, development of special afforestation and raising public awareness on these issues, improvement of forest-public relations, benefiting from products and services provided by forests in a sustainable manner, and building of institutional capacity are among our priority goals. In addition, despite the increase in demand for forest products, public demands for functional services of natural forests other than wood production, potential afforestation areas and industrial afforestation are considered to be increasingly important in closing the future wood supply gap.

VI. ANNEXES

Annex 1: Statement of the Financial Services Unit Manager

I hereby state within the limits of my power as a financial services unit manager that:

In this Administration, activities are carried out in accordance with the financial management and control legislations and other legislations, internal control processes are conducted and monitored to ensure that public resources are used effectively, economically and efficiently, and my opinions and suggestions are reported to the senior manager in a timely manner so that the necessary measures be taken.

I hereby confirm that the information in the section “III/A- Financial Information” in the Activity Report 2020 of the Administration is reliable, complete and accurate.

25/02/2020 ANKARA

-Signed-

Zekeriyya NANE
Head of Department

Annex 2: Internal Control Assurance Statement of the Senior Manager

I hereby state within the limits of my power as a senior manager that:

The information contained in this report is reliable, complete and accurate.

I hereby declare that the resources allocated with the budget for the activities described in this report is used for the intended purposes and in accordance with the principles of good financial management and the internal control system provides adequate assurance regarding the legality and regularity of the processes.

This assurance is based on the matters within my knowledge, such as information and evaluations I have as a senior manager, internal controls, internal auditor reports and reports of the Court of Accounts.

I hereby state that I have no knowledge of any matter not reported here that would harm the interests of the Administration.

26/02/2020 ANKARA

-Signed-
Bekir KARACABEY
General Director

Annex 3: Consolidated Balance Sheet of Revolving Fund Enterprises of the General Directorate of Forestry, 2017-2019

ASSETS		2017	2018	2019
CURRENT ASSETS				
A	LIQUID ASSETS	60,994,545.89	20,728,877.11	118,796,006.82
1	Cash Account	17,303.57	15,634.49	23,372.23
2	Checks Received Account			
3	Banks Account	60,831,480.91	20,505,697.95	118,481,543.48
4	Checks Given and Sending Orders			
5	Other Liquid Assets Account	145,761.41	207,544.67	291,091.11
B	TRADE RECEIVABLES	1,545,291,170.94	1,921,036,229.67	2,383,977,632.76
1	Buyers Account	1,031,428,157.77	1,239,595,112.80	1,495,185,644.33
2	From Bank Credit Cards	486,825,207.83	651,934,183.79	842,354,274.11
3	Deposits and Guarantees Given	1,182,763.88	1,300,163.88	1,327,916.64
4	Other Trade Receivables	3,852,990.85	5,202,368.93	16,786,412.77
5	Doubtful Trade Receivables	22,002,050.61	23,004,400.27	28,323,384.91
6	Doubtful Trade Receivables			
C	OTHER RECEIVABLES	136,619,023.90	145,410,537.89	304,577,995.00
1	Business to Business Financial Liabilities			
2	Receivables from Personnel	60,119.75	75,483.77	3,306,297.66
3	Other Miscellaneous Receivables	131,417,971.05	140,340,830.40	298,922,991.53
4	Other Doubtful Receivables	5,140,933.10	4,994,223.72	2,348,705.81
5	Other Doubtful Receivables			
D	STOCKS	145,071,489.02	175,613,763.59	431,587,972.30
1	Raw Materials and Supplies	11,166,426.89	14,991,412.52	20,273,461.82
2	Finished Goods	133,331,457.13	157,683,889.50	301,062,144.67
3	Other Stocks Account	39,485.43	36,950.43	36,950.43
4	Decrease in Value of Stocks			
5	Advances Given for Purchase Orders	534,119.57	2,901,511.14	110,215,415.38
E	CONSTRUCTION AND REPAIR COSTS OVER THE YEARS			
1	Construction and Repair Costs over the Years			
2	Advances Given to Subcontractors			
F	EXPENSES AND REVENUES FOR THE FUTURE MONTHS	11,235,109.41	17,265,080.79	560,707.65
1	Expenses for the Future Months	11,235,109.41	17,265,080.79	560,707.65
2	Income Accruals Account			
G	OTHER CURRENT ASSETS	12,982,522.89	31,697,121.01	30,386,324.46
1	Deferred Value Added Tax	12,413,245.78	31,196,161.13	29,996,740.17
2	Deductible Value Added Tax			
3	Other Value Added Tax			
4	Prepaid Taxes and Funds			
5	Work Advances Account			
6	Personnel Advances Account		60,000.00	
7	Count and Delivery Surplus	435,470.37	440,959.88	389,584.29
8	Other Miscellaneous Current Assets			
9	Other Current Assets	133,806.74		
TOTAL CURRENT ASSETS		1,912,193,862.05	2,311,751,610.06	3,269,886,638.99

ASSETS		2017	2018	2019
FIXED ASSETS				
H	TRADE RECEIVABLES	2,948,553.11	3,510,266.62	3,927,763.00
1	Buyers Account	100,805	38,250.51	83,048.97
2	Deposits and Guarantees Given	2,847,748.11	3,472,016.11	3,844,714.03
3	Other Trade Receivables			
4	Doubtful Trade Receivables			
I	OTHER RECEIVABLES	4,244,228.44	4,208,494.03	4,060,370.77
1	Business to Business Financial Liabilities			
2	Receivables from Personnel	1,020,036.12	833,508.92	859,294.34
3	Other Miscellaneous Receivables	3,224,192.32	3,374,985.11	3,201,076.43
4	Other Doubtful Receivables			
J	FINANCIAL FIXED ASSETS			
1	Other Financial Fixed Assets			
2	Other Financial Fixed Assets			
K	TANGIBLE FIXED ASSETS (-)	473,329,540.67	706,305,837.12	1,680,571,070.24
1	Lands and Parcels Account	82,721,277.95	84,233,804.38	881,826,952.35
2	Underground and Overground Structures	247,068,710.74	276,897,756.87	77,204,635.81
3	Buildings Account	488,691,496.48	541,725,739.65	672,082,926.36
4	Facilities, Machines and Devices	98,130,186.47	219,328,229.79	307,949,766.75
5	Vehicles Account	10,217,438.60	15,505,748.43	7,739,626.94
6	Fixtures Account	109,052,214.75	132,904,331.75	161,537,595.14
7	Other Tangible Fixed Assets			
8	Accumulated Depreciations	-576,826,583.37	-604,206,660.88	-473,225,831.71
9	Ongoing Investments	14,272,917.05	39,914,905.13	45,453,516.60
10	Advances Given Account	1,882.00	1,982.00	1,882.00
L	INTANGIBLE FIXED ASSETS	234,317.99	208,466.49	18,095.77
1	Rights Account	1,058,283.03	1,079,404.30	1,067,741.76
2	Other Intangible Fixed Assets			
3	Accumulated Depreciations	-823,965.04	-870,937.81	-1,049,645.99
4	Advances Given Account			
M	SPECIAL ASSETS SUBJECT TO DEPLETION			
1	Exploration Expenses Account			
2	Preparation and Development			
3	Accumulated Depletion			
4	Advances Given Account			
N	EXPENSES FOR FUTURE YEARS AND INCOME ACCRUALS	173.25	24,417.76	12,563,173.90
1	Expenses for the Future Years	173.25	24,417.76	12,563,173.90
2	Income Accruals Account			
O	OTHER FIXED ASSETS	0.00	0.00	0.00
1	Stocks Needed for the Future Years			
2	Stocks to Be Disposed	39,672.93	67,203.42	39,672.93
3	Prepaid Taxes and Funds			
4	Other Miscellaneous Fixed Assets			
5	Decrease in Value of Stocks			
6	Accumulated Depreciations	-39,672.93	-67,203.42	-39,672.93
TOTAL FIXED ASSETS		480,756,813.46	714,257,482.02	1,701,140,473.68
TOTAL ASSETS		2,392,950,675.51	3,026,009,092.08	4,971,027,112.67

LIABILITIES	2017	2018	2019
SHORT-TERM LIABILITIES			
A FINANCIAL PAYABLES			
1 Business to Business Financial Liabilities			
B TRADE PAYABLES	160,822,579.57	320,327,442.11	189,644,310.67
1 Sellers Account	1,302,971.83	703,895.22	453,350.62
2 Deposits and Guarantees Received	76,275,628.63	91,911,041.97	100,639,500.79
3 Other Trade Payables Account	83,243,979.11	227,712,504.92	88,551,459.26
C OTHER PAYABLES	531,095,449.29	611,934,521.31	1,191,575,686.04
1 Payables to Personnel Account	3,682,601.32	7,198,779.45	6,651,916.97
2 Other Miscellaneous Payables Account	527,412,847.97	604,735,741.86	1,184,923,769.07
D ADVANCES RECEIVED	14,645,437.77	19,054,803.27	30,613,162.59
1 Advances Received for Purchase Orders	11,183,437.08	15,225,202.03	26,304,935.94
2 Other Advances Received Account	3,462,000.69	3,829,601.24	4,308,226.65
E CONSTRUCTION AND REPAIR REVENUES OVER THE YEARS			
1 Construction and Repair Revenues over the Years			
2 Construction and Repair Revenues over the Years			
F OTHER LIABILITIES TO BE PAID	171,104,073.69	182,986,937.76	246,457,703.11
1 Taxes and Funds Payable	75,483,115.07	79,066,359.78	130,163,971.64
2 Social Security Premiums Payable	7,212,101.44	12,900,861.99	8,467,174.94
3 Revolving Fund Payable	61,506,170.01	51,123,213.77	68,073,502.01
4 Revolving Fund Contribution Payable			
5 Overdue, Deferred or Restructured Taxes and Other Fiscal	162,218.35	24,029.58	
6 Other Liabilities to Be Paid	26,740,468.82	39,872,472.64	39,753,054.52
G PROVISIONS FOR LIABILITIES AND EXPENSES	-86,177,283.74	-196,808,928.76	-213,063,866.79
1 Provision for Period Profit, Taxes and Other Fiscal Liabilities			
2 Prepaid Taxes and Other Liabilities on Period Profit	-88,310,708.91	-198,486,392.14	-214,600,488.97
3 Provision for Severance Payment	2,133,425.17	1,677,463.38	1,536,622.18
4 Provision for Cost Expenses			
5 Provision for Other Debts and Expenses			
H REVENUES AND EXPENSES FOR THE FUTURE MONTHS	534,635,354.03	450,450,702.81	
1 Revenues for the Future Months	534,635,354.03	450,450,702.81	
2 Expense Accruals Account			
I OTHER SHORT-TERM LIABILITIES	133,806.74		
1 Calculated Value Added Tax			
2 Other Value Added Tax	133,806.74		
3 Current Account for Head Office and Branch Offices			
4 Count and Delivery Surplus			
5 Other Miscellaneous Short-Term Liabilities			
TOTAL SHORT-TERM LIABILITIES	1,326,259,417.35	1,387,945,478.50	1,445,226,995.62
LONG-TERM LIABILITIES			
J FINANCIAL PAYABLES			
1 Business to Business Financial Liabilities			
K TRADE PAYABLES	7,753,399.94	10,651,238.69	15,755,384.10
1 Sellers Account			
2 Deposits and Guarantees Received	7,753,399.94	10,651,238.69	15,755,384.10
3 Other Trade Payables Account			
L OTHER PAYABLES	3,100,404.92	3,102,962.11	3,084,999.50
1 Other Miscellaneous Payables Account	3,100,404.92	3,102,962.11	3,084,999.50
2 Delayed or Deferred Public Debts to Pay by Installments			
M ADVANCES RECEIVED			
1 Advances Received for Purchase Orders			
2 Other Advances Received Account			
N PROVISIONS FOR LIABILITIES AND EXPENSES	283,992,891.47	325,141,828.03	338,602,043.12
1 Provision for Severance Payment	283,992,891.47	325,141,828.03	338,602,043.12
O REVENUES FOR FUTURE YEARS AND EXPENSE ACCRUALS	127,549.00		248,263,081.93
1 Revenues for the Future Years	127,549.00		248,263,081.93
2 Expense Accruals Account			
TOTAL LONG-TERM LIABILITIES	294,974,245.33	338,896,028.83	605,705,508.65

LIABILITIES		2017	2018	2019
LIABILITIES				
P	PAID UP CAPITAL	311,149,334.39	387,997,502.44	730,660,014.00
1	Capital Account	500,000,000.00	500,000,000.00	1,000,000,000.00
2	Unpaid Up Capital Account (-)	-188,850,665.61	-112,002,497.56	-269,339,986.00
Q	CAPITAL RESERVES			754,840,706.34
1	Tangible Fixed Assets			754,840,706.34
2	Value Increases Account			
R	RESERVES	335,733,060.09	337,660,221.78	340,155,053.01
1	Special Funds Account	335,733,060.09	337,660,221.78	340,155,053.01
S	ACCUMULATED PROFITS			
1	Accumulated Profits Account			
T	ACCUMULATED LOSSES			
1	Accumulated Losses Account			
U	NET PROFIT/LOSS FOR THE PERIOD	124,834,618.35	573,509,860.53	1,094,438,835.05
1	Net Profit for the Period	124,834,618.35	573,509,860.53	1,094,438,835.05
2	Net Loss for the Period (-)			
TOTAL EQUITIES		771,717,012.83	1,299,167,584.75	2,920,094,608.40
TOTAL LIABILITIES		2,392,950,675.51	3,026,009,092.08	4,971,027,112.67

Annex 4: Income Statement of Revolving Fund Enterprises of the General Directorate of Forestry, 2017-2019

		2017		2018		2019	
		Amount	Total	Amount	Total	Amount	Total
A-GROSS SALES			3,199,107,038.68		4,396,668,637.66		5,483,493,424.3
1	Domestic Sales Account	3,150,368,421.34		4,394,538,786.54		5,479,375,649.35	
2	Foreign Sales Account						
3	Other Revenues	48,738,617.34		2,129,851.12		4,117,774.95	
B-SALES DISCOUNTS			1,726,594.54		15,409,788.97		8,357,404.58
1	Sales Returns Account (-)	635,394.87		14,386,853.53		7,490,532.97	
2	Sales Discounts Account (-)	1,091,199.67		1,022,935.44		866,871.61	
3	Other Discounts (-)						
C-NET SALES			3,197,380,444.14		4,381,258,848.69		5,475,136,019.72
D-COST OF SALES			1,086,550,864.98		1,266,888,517.43		1,659,575,640.88
1	Cost of Goods Sold (-)	1,086,550,864.98		1,266,888,517.43		1,659,575,640.88	
2	Cost of Commercial Goods Sold (-)						
3	Cost of Services Sold						
4	Cost of Other Sales (-)						
GROSS SALES PROFITS AND LOSSES			2,110,829,579.16		3,114,370,331.26		3,815,560,378.84
E-OPERATING EXPENSES			2,069,400,755.05		2,727,138,149.83		2,942,730,171.28
1	Research and Development Expenses (-)	485,747,416.51		666,922,936.95		613,862,530.23	
2	Service Production Cost Expenses (-)						
3	Marketing, Sales and Distribution	1,864,540.12		2,539,480.31		4,850,725.86	
4	General Administrative Expenses (-)	1,581,788,798.42		2,057,675,732.57		2,324,016,915.19	
OPERATING PROFITS AND LOSSES			41,428,824.11		387,232,181.43		872,830,207.56
F-REVENUES AND PROFITS FROM OTHER			59,389,124.46		137,761,102.65		192,215,892.92
1	Dividend Income from Affiliates						
2	Dividend Income from Subsidiaries						
3	Interest Income	49,148,662.05		129,983,971.93		183,480,778.77	
4	Commission Revenues						
5	Provisions No Longer Required						
6	Inflation Adjustment Profits Account						
7	Profits on Sale of Securities						
8	Foreign Exchange Gains						
9	Rediscounted Interest Income						
10	Revenues and Profits from Operations	10,240,462.41		7,777,130.72		8,735,114.15	
G-EXPENSES AND LOSSES FROM OTHER ORDINARY OPERATIONS			1,935,888.83		2,182,126.43		3,289,048.29
1	Commission Expenses						
2	Provision Expenses						
3	Inflation Adjustment Losses Account						
4	Losses on Sale of Securities (-)						
5	Foreign Exchange Losses (-)						
6	Rediscounted Interest Expenses (-)						
7	Other Ordinary Expenses and Losses	1,935,888.83		2,182,126.43		3,289,048.29	

	2017		2018		2019	
	Amount	Total	Amount	Total	Amount	Total
I-EXTRAORDINARY REVENUES AND PROFITS		38,704,772.82		54,535,237.00		40,652,048.83
1 Revenues and Profits of the Previous Period	5,108,676.33		1,842,070.47		224,429.86	
2 Other Extraordinary Revenues and Profits	33,596,096.49		52,693,166.53		40,427,618.97	
J-EXTRAORDINARY EXPENSES AND LOSSES		12,752,214.21		3,836,534.12		7,970,265.97
1 Idle Capacity Expenses and Losses (-)						
2 Expenses and Losses of the Previous Period (-)	9,820,573.87		2,521,276.64		4,853,558.48	
3 Other Extraordinary Expenses and Losses (-)	2,931,640.34		1,315,257.48		3,116,707.49	
PROFIT OR LOSS FOR THE PERIOD		124,834,618.35		573,509,860.53		1,094,438,835.05

Annex 5: Distribution of Forest Areas by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	GENERAL FOREST AREA			GROWING STOCK			INCREMENT		
	Hectare			Cubic meter			Cubic meter		
	Normal Crown Closure	Low Crown Closure	Total	Normal Crown Closure	Low Crown Closure	Total	Normal Crown Closure	Low Crown Closure	Total
1 ADANA	496,698	255,641	752,339	54,662,849	2,350,010	57,012,859	1,690,749	43,906	1,734,655
2 AMASYA	924,451	604,824	1,529,275	79,971,072	4,501,816	84,472,888	2,343,329	111,259	2,454,588
3 ANKARA	460,237	328,647	788,884	44,880,789	1,761,151	46,641,940	1,188,782	65,243	1,254,025
4 ANTALYA	664,810	481,252	1,146,062	98,655,399	4,536,725	103,192,124	2,500,758	93,322	2,594,080
5 ARTVİN	221,532	182,163	403,695	56,359,150	1,352,668	57,711,818	1,226,199	31,852	1,258,051
6 BALIKESİR	427,902	204,136	632,038	61,629,151	1,621,200	63,250,351	1,678,037	52,174	1,730,211
7 BOLU	503,243	125,305	628,548	118,937,863	1,212,762	120,150,625	2,885,824	33,962	2,919,786
8 BURSA	543,705	229,753	773,458	71,636,357	1,553,710	73,190,067	1,873,275	52,701	1,925,976
9 ÇANAKKALE	433,329	106,453	539,782	56,934,766	1,044,962	57,979,728	1,929,956	34,341	1,964,297
10 DENİZLİ	453,094	359,074	812,168	40,130,950	3,034,377	43,165,327	1,116,205	65,200	1,181,405
11 ELAZIĞ	381,874	971,479	1,353,353	13,869,860	4,808,871	18,678,731	658,514	228,699	887,213
12 ERZURUM	191,927	348,442	540,369	23,813,982	2,836,732	26,650,714	552,718	64,128	616,846
13 ESKİŞEHİR	324,134	313,702	637,836	24,541,223	2,248,059	26,789,282	685,639	63,040	748,679
14 GİRESUN	405,961	154,849	560,810	72,768,725	1,508,205	74,276,930	2,090,864	34,951	2,125,815
15 İSPARTA	397,136	371,680	768,816	30,643,752	2,408,619	33,052,371	772,916	40,538	813,454
16 İSTANBUL	542,194	97,828	640,022	55,753,011	686,259	56,439,270	1,984,858	16,020	2,000,878
17 İZMİR	543,371	474,888	1,018,259	43,283,959	2,607,660	45,891,619	1,564,386	115,560	1,679,946
18 KAHRAMANMARAŞ	418,964	450,165	869,129	37,107,211	2,936,456	40,043,667	1,191,430	78,931	1,270,361
19 KASTAMONU	989,205	250,293	1,239,498	194,389,165	2,241,065	196,630,230	5,672,145	55,319	5,727,464
20 KAYSERİ	294,136	518,440	812,576	18,985,495	2,904,379	21,889,874	396,516	75,400	471,916
21 KÜTAHYA	412,079	234,473	646,552	49,096,334	2,008,435	51,104,769	1,384,782	48,264	1,433,046
22 KONYA	357,806	467,951	825,757	14,447,031	2,595,952	17,042,983	495,735	77,054	572,789
23 MERSİN	468,129	367,405	835,534	44,722,826	3,521,534	48,244,360	924,305	80,855	1,005,160
24 MUĞLA	749,122	406,792	1,155,914	73,896,513	3,979,499	77,876,012	2,146,944	95,805	2,242,749
25 SAKARYA	311,335	40,118	351,453	35,420,296	309,055	35,729,351	1,217,645	8,245	1,225,890
26 ŞANLIURFA	235,627	1,006,074	1,241,701	7,880,590	5,863,425	13,744,015	386,823	241,296	628,119
27 TRABZON	404,247	225,914	630,161	70,432,854	2,177,750	72,610,604	1,798,322	54,069	1,852,391
28 ZONGULDAK	527,262	79,046	606,308	114,990,688	903,013	115,893,701	2,852,421	27,789	2,880,210
TOTAL	13,083,510	9,656,787	22,740,297	1,609,841,861	69,514,349	1,679,356,210	45,210,077	1,989,923	47,200,000

Annex 6: Distribution of Forest Cadastre Project Implementation Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	2/B IMPLEMENTATION CONDUCTED UNDER FOREST LAW NO. 6831			CORRECTING THE TECHNICAL MISTAKES OF THE UNITS WITH FOREST CADASTRE AND MAKING THEM READY FOR REGISTRATION ACCORDING TO FOREST LAW NO. 6831			IMPLEMENTATION RESULT	
	PROGRAMME		IMPLEMENTATION	PROGRAMME		IMPLEMENTATION		
	Number/Unit	TRY	Number/Unit	Number/Unit	TRY	Number/Unit	Number/Unit	TRY
1 ADANA	32	240,000	26				26	234,391
2 AMASYA	160	1,200,000	174				174	668,000
3 ANKARA	48	240,000	34				34	338,571
4 ANTALYA	24	180,000	37	44	330,000	32	69	368,235
5 ARTVİN	32	240,000	21				21	123,260
6 BALIKESİR	16	120,000	16				16	578,457
7 BOLU	48	240,000	25				25	343,306
8 BURSA	32	240,000	28	18	135,000	10	38	826,965
9 ÇANAKKALE	32	240,000	25				25	228,447
10 DENİZLİ	32	240,000	16				16	227,172
11 ELAZIĞ	288	2,160,000	347				347	1,609,900
12 ERZURUM	288	2,160,000	301				301	1,639,031
13 ESKİŞEHİR	48	360,000	33				33	349,817
14 GİRESUN	112	840,000	109				109	1,242,586
15 ISPARTA	16	120,000	7	20	150,000	11	18	160,538
16 İSTANBUL	48	360,000	58				58	708,473
17 İZMİR	64	480,000	54				54	718,150
18 KAHRAMANMARAŞ	48	360,000	28				28	434,171
19 KASTAMONU	112	960,000	116				116	1,075,000
20 KAYSERİ	288	2,160,000	312				312	1,161,250
21 KONYA	64	480,000	52				52	438,000
22 KÜTAHYA	32	240,000	30				30	242,210
23 MERSİN	16	120,000	6	18	135,000	13	19	352,000
24 MUĞLA	80	600,000	48				48	538,072
25 SAKARYA	16	120,000	4	36	270,000	27	31	551,438
26 ŞANLIURFA	272	2,160,000	192				192	2,021,326
27 TRABZON	80	600,000	74				74	666,391
28 ZONGULDAK	22	165,000	16	14	105,000	10	26	560,417
TOTAL	2,350	17,625,000	2,189	150	1,125,000	103	2,292	18,405,574
CENTRAL		107,075,000						
DIRECTORATE OF LAND REGISTRY AND CADASTRE								102,500,000
GRAND TOTAL	2,350	124,700,000	2,189	150	1,125,000	103	2,292	120,905,574

Annex 7: Distribution of Forest Management Project Implementation Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	PROGRAMME		IMPLEMENTATION					
			Chief Engineering Directorates		Services Procurement		TOTAL	
	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY
1 ADANA							0	0
2 AMASYA							0	0
3 ANKARA	114,998	875,000	114,998	869,004			114,998	869,004
4 ANTALYA	15,651	7,000	15,651	6,990			15,651	6,990
5 ARTVİN							0	0
6 BALIKESİR							0	0
7 BOLU							0	0
8 BURSA							0	0
9 ÇANAKKALE							0	0
10 DENİZLİ							0	0
11 ELAZIĞ							0	0
12 ERZURUM							0	0
13 ESKİŞEHİR							0	0
14 GİRESUN							0	0
15 İSPARTA							0	0
16 İSTANBUL							0	0
17 İZMİR	115,877	650,000	115,877	594,132			115,877	594,132
18 KAHRAMANMARAŞ							0	0
19 KASTAMONU	52,960	51,000	52,960	20,733			52,960	20,733
20 KAYSERİ							0	0
21 KONYA							0	0
22 KÜTAHYA							0	0
23 MERSİN							0	0
24 MUĞLA							0	0
25 SAKARYA							0	0
26 ŞANLIURFA							0	0
27 TRABZON	126,974	990,000	126,974	788,472			126,974	788,472
28 ZONGULDAK	530,559	9,662,000			530,559	9,533,543	530,559	9,533,543
TOTAL	957,019	12,235,000	426,460	2,279,331	530,559	9,533,543	957,019	11,812,874

Annex 8: Distribution of Forest Fire Numbers by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	NEGLIGENCE CARELESSNESS		DELIBERATE		ACCIDENT		UNKNOWN		LIGHTENING		TOTAL	
	Number	Hectare	Number	Hectare	Number	Hectare	Number	Hectare	Number	Hectare	Number	Hectare
1 ADANA	38	39.09	8	9.81	9	4.38	75	99.43	44	6.37	174	159.08
2 AMASYA	20	59.22	2	16.60	4	0.27	55	74.90			81	150.99
3 ANKARA	17	30.34			7	4.11	29	28.26	2	6.89	55	69.60
4 ANTALYA	33	8.60	24	138.62	10	5.10	101	77.95	31	4.59	199	234.86
5 ARTVIN	12	7.19			5	6.04	1	2.00	5	1.47	23	16.70
6 BALIKESİR	37	24.71	5	9.86	2	0.33	22	38.55	5	1.33	71	74.78
7 BOLU	25	29.94			2	0.14	22	10.33	5	1.72	54	42.13
8 BURSA	16	86.36	1	145.80	4	28.40	54	25.30	9	18.54	84	304.40
9 ÇANAKKALE	66	283.07			5	1.10	9	3.75	12	2.51	92	290.43
10 DENİZLİ	4	1.89			2	0.25	15	11.18	3	0.10	24	13.42
11 ELAZIĞ	15	163.44	4	33.10	17	28.50	118	414.38	3	12.95	157	652.37
12 ERZURUM	14	90.48	0	0.00	1	0.02	32	114.00	1	5.00	48	209.50
13 ESKİŞEHİR	21	0.06	3	29.93	0	0.00	6	35.25	5	9.76	35	75.00
14 GİRESUN	28	35.50			2	25.01	34	67.93			64	128.44
15 ISPARTA	10	10.98	1	2.91	2	0.01	38	122.48	16	3.28	67	139.65
16 İSTANBUL	23	12.35	8	5.05	10	6.33	163	30.71			204	54.44
17 İZMİR	157	4,680.59	37	18.77	12	50.92	13	145.35	21	8.36	240	4,903.99
18 KAHRAMANMARAŞ	20	79.60	10	8.81	11	10.74	99	490.35	20	36.83	160	626.33
19 KASTAMONU	12	15.49			7	1.88	74	87.07	5	5.90	98	110.34
20 KAYSERİ	4	3.10			2	0.33	12	31.83			18	35.26
21 KONYA	6	43.81	1	0.01			18	16.33	5	3.63	30	63.78
22 KÜTAHYA	12	6.76			3	0.35	17	101.48	6	3.58	38	112.17
23 MERSİN	40	88.01	2	0.22	7	61.80	4	3.35	37	207.41	90	360.79
24 MUĞLA	20	9.67	15	114.50	11	38.15	124	765.98	132	32.05	302	960.35
25 SAKARYA	39	26.64	0	0.00	1	0.01	25	29.41	1	0.01	66	56.07
26 ŞANLIURFA	14	231.92	2	14.33	10	102.50	95	684.43			121	1,033.18
27 TRABZON	28	76.78	1	138.00	0	0.00	44	229.02			73	443.80
28 ZONGULDAK	3	5.90			3	0.58	10	2.98	4	1.13	20	10.59
TOTAL	734	6,151.49	124	686.31	149	377.24	1,309	3,743.99	372	373.40	2,688	11,332.44
RATE (%)	27.31	54.28	4.61	6.06	5.54	3.33	48.70	33.04	13.84	3.29	100	100.00

Annex 9: Distribution of Forest Crime Numbers by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	CUTTING DOWN		TRANSPORTING		POSSESSING		CONSUMPTION		DEFORESTATION-SETTLEMENT			OCCUPATION		GRAZING		HUNTING CRIMES		TOTAL Number
	Number	M ₃	Number	M ₃	Number	M ₃	Number	M ₃	Number	Decare	M ₃	Number	Decare	Number	Number of Animals	Number	Number of Animals	
1 ADANA	134	1,882	71	119	33	27			170	385	122	250	1,462	74	3,194			732
2 AMASYA	327	1,801	75	45	86	77	19	21	211	713	711	313	936	28	1,030			1,059
3 ANKARA	57	333			11	10	2	13	52	155	1	88	282	77	7,422			287
4 ANTALYA	185	1,935	23	41	24	16	3	3	202	755	372	277	779	69	5,226			783
5 ARTVIN	44	1,330	6	8	1	3	1	1	5	12	25	21	17			1	150	79
6 BALIKESİR	123	3,667	17	11	20	88	1	1	26	196	38	34	100	11	494			232
7 BOLU	95	1,016	20	82	24	80	17	51	47	91	395	66	303					269
8 BURSA	99	2,382	15	122	13	18			60	248	18	124	521	4	59			315
9 ÇANAKKALE	61	1,037	14	122	5	640	3	1	24	91	44	52	394	9	573			168
10 DENİZLİ	53	229	11	14	25				23	71		51	229	28	1,157	1		192
11 ELAZIĞ	50	273	15	52	8		1		59	111	1	70	156	19	1,430			222
12 ERZURUM	96	453	61	73	103	247	11	93	5	19	3	4	3	18	2,215			298
13 ESKİŞEHİR	53	28	18	2	7	2	1	1	74	210		69	265	53	3,258			275
14 GİRESUN	205	1,225	35	79	11	16	1	2	194	295	695	90	190					536
15 ISPARTA	41	128	11	26	12	8	1	1	48	263	5	33	218	149	6,769			295
16 İSTANBUL	111	1,977	14	10	7	2	1		111	336	154	382	663	5	380			631
17 İZMİR	103	476	27	37	10	1			504	1,988	126	261	930	48	2,315			953
18 KAHRAMANMARAŞ	148	322	112	56	48	102	1	1	319	1,468	14	208	884	17	811			853
19 KASTAMONU	225	1,832	3	4	13	12	5	6	32	46	11	80	289					358
20 KAYSERİ	19	34	2		8	3	1	1	44	190		15	13	25	2,140			114
21 KONYA	85	121	4		19	13	3	3	110	499	9	188	730	62	5,138			471
22 KÜTAHYA	84	388	8	3	14	5	11	40	44	158	8	29	78	10	728			200
23 MERSİN	123	614	20	109	12		2	1	359	1,445	105	267	894	83	6,250			866
24 MUĞLA	96	572	14	27	10	1			270	1,695	408	222	1,152	24	875			636
25 SAKARYA	271	2,725	46	103	47	97	5	4	235	662	1,051	174	383	9	471			787
26 ŞANLIURFA	71	367	47	284	1				84	984		62	852	11	361			276
27 TRABZON	198	4,845	3	5	5	20	3	3	122	336	208	62	45	1	89			394
28 ZONGULDAK	199	1,750	14	8	65	26	3	5	116	72	109	57	96					454
TOTAL	3,356	33,742	706	1,442	642	1,514	96	252	3,550	13,494	4,633	3,549	12,864	834	52,385	2	150	12,735

M₃: Cubic meter

NOTE: Quintal values are not included in the amount of property confiscated as a result of forest crimes.

Annex 10 Distribution of Forest Pest and Disease Control Implementation Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	BIOLOGICAL CONTROL		BIOTECHNICAL CONTROL		CHEMICAL CONTROL		MECHANICAL CONTROL		Bird Nests			Ant Transplantation			Production of Predatory Insects			Establishment of Islets/Wire Cages		
	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Number	Hectare	TRY	Number	Hectare	TRY	Number	Hectare	TRY	Number	Hectare	TRY
1 ADANA	7,649	102,139	5,406	106,248			4,411	88,044	6,000	5,452	86,432				27,694	1,150	6,957	85	1,046	8,750
2 AMASYA	819	75,805	302	12,730	577	58,140	1,796	8,000	2,500	477	66,950	8	44	2,455	3,200	299	6,400			
3 ANKARA	808	60,841	11,426	69,382			175	15,511				40	424	24,284	3,600	180		5	204	36,557
4 ANTALYA	4,007	208,739	1,350	25,930			215	600	4,450	890	81,600				58,025	2,901	101,339	1	216	25,800
5 ARTVİN	1,778	151,341	2,185	241,645			381	34,200	1,000	131	27,500				51,750	1,137	74,304			
6 BALIKESİR	639	64,080	7,864	74,725			134	5,130	1,600	363	54,000				4,000	195	10,000	2	81	80
7 BOLU	974	49,792	511	5,500			2,156	41,309	1,200	212	29,200							52	763	20,592
8 BURSA	7,916	488,918	5,209	63,435	105	100,800	411	256,090	2,000	1,185	78,362				41,423	5,101	351,866	65	1,630	58,690
9 ÇANAKKALE	772	40,620	2,290	66,551	248	5,000			1,000	184	31,000				2,000	268		55	320	9,620
10 DENİZLİ	669	63,546	452	24,645			427	153,680	1,000	219	31,000				10,100	450	32,546			
11 ELAZIĞ	100	30,000							1,000	100	30,000									
12 ERZURUM	172						245	44,880	18	172										
13 ESKİŞEHİR	1,921	193,205	146	38,870					3,100	682	91,100	44	36	91,830				61	1,203	10,275
14 GİRESUN	823	107,600	2,391	162,035			23		1,000	366	33,600				10,946	440	18,000	5	17	900
15 İSPARTA	7,401	260,744	1,019	108,370			315	31,325	2,980	596	77,480				12,261	406	24,999	197	6,394	91,370
16 İSTANBUL	2,152	214,792	3,321	147,399	507	53,775	131	20,898	3,500	475	89,400				9,230	1,014	25,800	41	663	99,592
17 İZMİR	32,925	355,023	22,120	368,843			11,353	95,008	2,100	500	38,245	2	2		217,182	10,859	39,636	340	10,285	20,593
18 KAHRAMANMARAŞ	2,260	97,910	1,758	80,238			3,308	276,682	1,941	390	30,049				27,100	1,204	33,985	45	666	33,876
19 KASTAMONU	1,542		4,978	445,950	57	29,637	1,056	230,803							40,500	1,542				
20 KAYSERİ	400	42,750	100	22,100			155	25,575	2,000	400	42,750									
21 KONYA	754	113,500					2,059	26,315	4,500	754	113,500									
22 KÜTAHYA	444	83,590	334	57,711			18	45,000	1,000	215	27,425							9	229	56,165
23 MERSİN	2,070	63,570	1,186	58,575			5,303	11,600	4,000	1,006	48,370				21,000	1,064	15,200			
24 MUĞLA	2,265	35,975	2,796	165,329			47	35,360	1,000	577	27,627				10,300	315	326	30	1,373	8,023
25 SAKARYA	3,124	75,782			92	24,750	263	101,320	1,500	307	40,620	10	10	6,174				45	2,565	28,488
26 ŞANLIURFA	293	27,657							1,400	293	27,657									
27 TRABZON	3,078	224,301	38	7,970					900	191	25,948				65,900	2,887	131,800			
28 ZONGULDAK	1,079	97,890	2,091	73,725			1,099	154,562	750	39	9,750				12,500	715	20,800	16	326	67,340
TOTAL	88,835	3,330,110	79,273	2,427,906	1,586	272,102	35,482	1,701,892	53,439	16,175	1,239,565	104	516	124,743	628,711	32,127	893,958	1,054	27,982	576,711

Annex 11.1: Distribution of Forest Roads Implementation Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	NEW ROADS				MAJOR REPAIR				SUPERSTRUCTURE				BRIDGES				CULTURAL STRUCTURE				PLANNING				APPLICATION				TOTAL OF INVESTMENT			
	Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation	
	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	M	TRY	M	TRY	KM	TRY	KM	TRY	NUMB ER	TRY	NUMB ER	TRY	KM	TRY	KM	TRY	TRY	TRY		
1 ADANA	59	1,770,000	61	1,768,891	48	955,000	51	948,191	17	350,000	18	343,451					7	150,000	7	143,790	14	510,000	14	480,637							3,735,000	3,684,960
2 AMASYA	104	2,592,000	105	2,901,969	43	385,000	43	284,504									4	60,000	4	59,876	14	465,000	14	333,017							3,502,000	3,579,366
3 ANKARA	35	570,000	41	462,314	55	447,000	60	440,113									17	252,000	25	341,009	15	332,000	15	330,639							1,601,000	1,574,075
4 ANTALYA	75	2,550,000	75	2,619,282	40	300,000	40	286,359									100	2,800,000	100	2,590,036	12	380,000	12	303,114				18,291			6,030,000	5,817,082
5 ARTVİN	41	1,450,000	41	1,459,930	30	330,000	30	317,131	30	330,000	30	327,040					16	90,000	16	111,159	4	105,000	4	101,059							2,305,000	2,316,319
6 BALIKESİR	35	918,000	35	776,091	9	122,000	9	121,750	14	251,000	14	247,930					7	220,000	7	172,347											1,511,000	1,318,118
7 BOLU	86	2,778,000	90	2,541,229	179	2,786,000	178	2,157,284	82	1,789,000	82	1,661,412					72	1,261,000	72	1,121,848	8	170,000	8	162,052							8,784,000	7,643,825
8 BURSA	100	2,080,000	103	1,843,643	100	829,000	104	850,123	110	1,839,000	116	1,698,202					120	1,952,000	121	2,274,579	18	540,000	18	557,106							7,240,000	7,223,653
9 ÇANAKKALE	8	254,000	8	200,156	31	220,000	31	205,568	5	90,000	5	87,980					35	425,000	35	370,160	10	225,000	10	173,999							1,214,000	1,037,863
10 DENİZLİ	7	150,000	7	147,360	30	300,000	30	300,485									8	285,000	8	280,935											735,000	728,780
11 ELAZIĞ																	3	120,000	3	120,000											120,000	120,000
12 ERZURUM	9	243,000	9	169,343	8	168,000	8	56,811	8	145,000	8	84,053					10	191,000	10	184,523	1	45,000	1	34,146							792,000	528,876
13 ESKİŞEHİR	40	1,000,000	30	859,902	70	660,000	70	578,927	10	200,000	12	200,207					65	975,000	50	710,560	7	310,000	7	295,016							3,145,000	2,644,612
14 GİRESUN	46	1,974,000	79	1,690,162													18	670,000	18	619,433											2,644,000	2,309,595
15 İSPARTA	43	1,055,000	49	892,442	46	516,000	49	507,289	6	82,000	6	82,000					44	836,000	44	775,678	6	243,000	6	226,874							2,732,000	2,484,283
16 İSTANBUL	5	115,000	3	28,736	101	955,000	101	779,467	39	549,000	39	500,437					16	236,000	12	201,959	10	215,000	10	234,381							2,070,000	1,744,980
17 İZMİR	74	1,840,000	77	1,841,471	71	1,055,000	71	959,881	9	167,000	9	171,140	12	80,000 79,000		12	58	968,000	58	958,956	27	782,000	27	792,003							4,892,000	4,802,451
18 KAHRAMANMARAŞ	5	175,000	5	80,000	15	240,000	5	74,824									2	100,000	2	78,500					5	228,000 0					515,000	461,324
19 KASTAMONU	107	3,100,000	107	2,974,323	85	1,050,000	85	850,415	40	720,000	40	702,467					25	500,000	25	389,764	20	690,000	20	627,339							6,060,000	5,544,308
20 KAYSERİ	38	355,000	39	331,531	16	141,000	17	129,120									8	300,000	8	273,506					54	4,000 0					796,000	738,157
21 KONYA	4	40,000	4	4,967													9	375,000	9	261,388											415,000	266,355
22 KÜTAHYA					45	450,000	45	435,618									8	252,000	8	244,912											702,000	680,530
23 MERSİN	89	2,970,000	104	2,791,332	65	960,000	66	841,179	55	820,000	54	794,431					60	1,100,000	61	1,067,350	5	200,000	5	199,981							6,050,000	5,694,273
24 MUĞLA	80	2,800,000	81	2,414,159	127	1,613,000	126	1,279,791	26	540,000	26	606,409					159	2,820,000	142	2,526,640	23	753,500	23	846,486							8,526,500	7,673,485
25 SAKARYA	25	667,000	25	425,105	59	788,000	59	616,740									5	220,000	5	177,408											1,675,000	1,219,253
26 ŞANLIURFA																	9	280,000	9	284,924											280,000	284,924
27 TRABZON	52	2,250,000	61	2,136,924	30	478,100	31	473,250	47	969,000	46	892,182					50	1,016,000	49	1,009,464	14	420,000	14	335,961							5,133,100	4,847,781
28 ZONGULDAK	89	3,500,000	85	2,613,153	80	1,685,000	80	1,058,001	10	300,000	10	377,980					42	1,500,000	42	1,032,037	13	470,000	13	222,456			50	205,147			7,455,000	5,508,774
TOTAL	1,256	37,196,000	1,324	33,974,415	1,383	17,433,100	1,389	14,552,821	508	9,141,000	515	8,777,321	12	80,000 79,000		12	900	17,132,000	873	15,869,388	298	9,677,500	298	8,769,619	0	0	109	455,438	90,659,600	82,478,000		

Annex 11-2: Distribution of Forest Roads Implementation Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	FIRE SAFETY ROAD CONSTRUCTION				FIRE SAFETY ROAD MAINTENANCE				TOWER HUT ROAD CONSTRUCTION				TOWER HUT ROAD MAINTENANCE				TRACTOR ROAD CONSTRUCTION				PRODUCTION PATH REPAIR AND MAINTENANCE				INTERNAL WAREHOUSE PATH				TOTAL	
	Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme Implementation	
	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	KM	TRY	TRY	TRY
1 ADANA					1,199	299,750	1,199	387,510					106	26,500	106	33,609	57	387,600	57	356,259	6,779	3,094,750	6,779	3,416,912	2	25,000	2	56,650	3,833,600	4,250,940
2 AMASYA	18	50,400	18	50,200	486	121,500	486	110,377					28	7,000	28	4,350	62	421,600	64	399,116	5,885	2,021,250	5,885	1,986,385	3	37,500	3	37,500	2,659,250	2,587,928
3 ANKARA					280	70,000	280	23,516													6,141	2,536,000	4,465	1,565,520	3	37,500	3	38,387	2,643,500	1,627,423
4 ANTALYA					1,314	328,500	1,314	328,500					189	47,250	189	36,197	30	204,000	30	133,342	9,831	3,357,750	9,831	2,908,562					3,937,500	3,406,601
5 ARTVIN																	5	34,000	3	13,600	3,600	900,000	3,600	874,220	1	12,500	1	11,187	946,500	899,007
6 BALIKESİR	5	14,000	5	14,000	1,960	490,000	1,960	529,234					139	34,750	139	33,162	49	333,200	51	316,754	7,535	2,363,750	7,535	1,974,394	15	187,500	12	150,763	3,423,200	3,018,307
7 BOLU					8	2,000	8	2,000					11	2,750	11	2,750	20	136,200	20	96,639	7,273	5,240,250	7,273	3,910,778	8	100,000	8	129,355	5,481,200	4,141,522
8 BURSA					1,345	336,250	1,352	308,665					80	20,000	80	19,138	61	414,800	62	390,117	7,787	2,606,750	7,787	2,618,343	20	250,000	20	157,650	3,627,800	3,493,913
9 ÇANAKKALE					2,415	603,750	2,415	573,837					71	17,750	71	5,648	20	136,000	12	75,357	5,816	2,454,000	5,816	1,428,602	5	62,500	5	61,890	3,274,000	2,145,334
10 DENİZLİ					1,265	316,250	1,265	329,266					63	15,750	63	15,750	65	442,000	65	442,000	9,342	2,335,500	9,342	2,112,772	10	125,000	10	124,999	3,234,500	3,024,787
11 ELAZIĞ	10	28,000	10	26,000													12	81,600	11	64,206	850	212,500	950	167,036					322,100	257,242
12 ERZURUM	3	8,400											15	3,750	15	2,500	18	122,400	15	74,160	3,886	1,071,500	3,078	733,769	4	50,000	4	111,654	1,256,050	922,083
13 ESKİŞEHİR					2,600	650,000	2,600	412,592					41	10,250	41	10,250	15	102,000	15	82,166	2,880	1,170,000	2,880	757,433	2	25,000			1,957,250	1,262,441
14 GİRESUN																	25	170,000	28	222,163	5,579	3,494,750	5,579	5,404,451	5	62,500	5	39,768	3,727,250	5,666,382
15 İSPARTA					777	194,250	777	181,310					68	17,000	68	16,101	33	224,400	23	102,408	6,997	1,849,250	6,997	1,541,830					2,284,900	1,841,649
16 İSTANBUL					2,176	544,000	2,176	424,797					25	6,250	25	2,500	5	34,000			7,486	1,871,500	7,486	1,553,407					2,455,750	1,980,704
17 İZMİR	12	83,600	12	97,588	2,852	1,938,000	2,852	1,504,723					98	24,500	98	34,000	104	1,275,200	104	1,183,030	9,631	4,462,750	9,631	4,014,160	5	62,500	3	28,000	7,846,550	6,861,501
18 KAHRAMANMARAŞ	15	42,000			1,020	255,000	922	251,148					110	27,500	90	21,500	102	693,600	96	650,867	4,848	1,212,000	4,795	1,295,318	6	75,000	6	91,655	2,305,100	2,310,488
19 KASTAMONU	8	22,400	8	16,529	440	110,000	440	109,908					83	20,750	83	17,241	60	408,000	60	335,646	10,750	5,687,500	10,750	6,014,385	29	362,500	29	312,359	6,611,150	6,806,068
20 KAYSERİ													72	18,000	72	6,873	43	292,400	43	184,114	6,150	1,537,500	6,150	1,087,037					1,847,900	1,278,024
21 KONYA					300	75,000	300	42,332					60	15,000	60	5,997	14	95,200	11	18,605	3,059	764,750	3,059	400,276					949,950	467,210
22 KÜTAHYA	10	28,000	10	28,000	752	188,000	752	187,487					13	3,250	13	3,250	32	217,600	32	212,782	6,283	1,570,750	6,283	1,474,057	5	62,500	5	62,434	2,070,100	1,968,010
23 MERSİN	10	28,000	10	28,944	835	208,750	835	208,943					96	24,000	96	22,022	24	163,200	24	128,422	8,305	2,326,250	8,305	2,169,726					2,750,200	2,558,057
24 MUĞLA					1,845	461,250	1,845	443,330					147	36,750	147	35,435	60	408,000	77	774,071	10,619	3,104,750	11,079	4,009,460					4,010,750	5,262,296
25 SAKARYA					851	212,750	851	206,000					30	7,500	30	7,500	30	204,000	30	184,990	4,070	1,017,500	4,070	1,164,939	2	25,000	2	24,465	1,466,750	1,587,894
26 ŞANLIURFA	25	70,000	25	65,459	75	18,750	75	12,500					5	1,250	5	1,250	24	166,000	24	145,916	535	133,750	535	35,687					389,750	260,812
27 TRABZON					7	1,750	7										16	108,800	33	119,531	2,010	2,914,500	2,010	2,614,477					3,025,050	2,734,008
28 ZONGULDAK	9	59,200	15	12,611	200	50,000	200	90,320					32	8,000	32	1,661	40	272,000	35	84,668	6,640	2,660,000	6,640	3,122,192	20	250,000	18	104,336	3,299,200	3,415,788
TOTAL	125	434,000	113	339,331	25,002	7,475,500	24,911	6,668,293	0	0	0	0	1,582	395,500	1,562	338,684	1,026	7,547,800	1,025	6,790,929	170,567	63,971,500	168,590	60,356,128	145	1,812,500	136	1,543,052	81,636,800	76,836,419

KM: Kilometer M: Meter

Annex 12.1: Distribution of Silviculture Implementation Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	REGENERATION MAINTENANCE				FREQUENT MAINTENANCE				CULTIVATION MAINTENANCE				PRUNING				INITIAL THINNING		TRANSFORMATION OF COPPICE			
	Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Programme		Implementation	
	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	Hectare	Hectare	TRY	Hectare	TRY
1 ADANA	10,855	2,427,850	11,024	2,427,850	9,602	1,713,312	10,086	1,713,312	15,168	3,076,206	15,226	3,076,206	836	480,293	940	480,293	2,555	2,473	393	6,544	460	6,544
2 AMASYA	4,758	1,490,401	4,764	1,490,401	15,841	2,958,450	14,213	2,958,450	465	82,702	465	82,702	253	66,899	259	66,899	7,389	8,606	10,119	1,551,509	11,289	1,551,509
3 ANKARA	2,657	1,293,094	2,780	1,293,094	7,186	1,367,443	6,642	1,367,443	2,467	826,602	2,467	826,602	150	82,241	150	82,241	1,076	1,104	2,385	172,197	2,832	172,197
4 ANTALYA	10,400	3,351,161	10,478	3,351,161	9,654	1,877,562	9,386	1,877,562	3,845	1,091,323	3,865	1,091,323	236	141,098	212	141,098	1,713	1,335			23	
5 ARTVİN	748	228,874	748	228,874	300	84,050	335	84,050	2,888	2,720,333	2,926	2,720,333					30	146	20		20	
6 BALIKESİR	6,488	3,656,597	6,733	3,656,597	5,319	1,615,476	6,238	1,615,476	4,572	1,908,799	4,738	1,908,799	1,140	865,226	1,418	865,226	4,965	5,885	2,044	141,400	2,695	141,400
7 BOLU	11,000	4,815,356	11,400	4,815,356	4,600	1,493,367	4,023	1,493,367	890	1,245,455	851	1,245,455	1,000	159,705	990	159,705	4,000	4,083	90			
8 BURSA	5,592	2,088,296	5,790	2,088,296	6,989	1,283,276	6,473	1,283,276	4,444	823,981	4,482	823,981	333	266,388	327	266,388	6,432	5,685	14,210	2,266,864	12,422	2,266,864
9 ÇANAKKALE	5,013	1,928,769	5,331	1,928,769	5,971	984,689	6,143	984,689	2,289	678,499	2,289	678,499	1,067	440,486	1,057	440,486	6,486	6,938	2,357		2,295	
10 DENİZLİ	8,158	3,530,157	8,291	3,530,157	13,460	3,424,600	13,817	3,424,600	5,147	1,683,409	5,148	1,683,409	575	374,775	610	374,775	3,295	3,314	415	66,395	539	66,395
11 ELAZIĞ					415				800	132,985	443	132,985					393	159	636	5,664	101	5,664
12 ERZURUM	1,739	250,002	1,782	250,002	5,013	426,168	2,034	426,168	2,231	237,861	2,091	237,861	50	3,900	20	3,900	1,263	77	1,591		317	
13 ESKİŞEHİR	2,040	893,621	2,061	893,621	3,371	515,761	3,578	515,761	1,370	700,041	1,400	700,041					1,243	1,473	1,370	87,729	1,378	87,729
14 GİRESUN	6,482	3,985,817	6,519	3,985,817	6,048	1,939,382	4,668	1,939,382	3,527	1,574,335	3,572	1,574,335	80		80		2,687	2,710				
15 İSPARTA	7,377	1,985,438	7,541	1,985,438	7,496	898,665	8,054	898,665	13,530	1,962,628	13,551	1,962,628	539	89,705	634	89,705	1,450	1,368				
16 İSTANBUL	4,428	2,183,231	4,444	2,183,231	9,799	1,180,502	9,856	1,180,502	1,004	570,178	1,062	570,178	416	328,423	456	328,423	3,915	3,518	20,416	2,392,786	21,451	2,392,786
17 İZMİR	14,441	4,999,824	14,512	4,999,824	10,237	2,388,988	10,226	2,388,988	11,830	3,298,657	11,768	3,298,657	1,752	680,488	1,807	680,488	1,702	1,355	2,588	120,814	2,199	120,814
18 KAHRAMANMARAŞ	8,940	2,388,722	8,921	2,388,722	4,073	934,322	2,636	934,322	7,333	2,553,697	7,353	2,553,697	190	53,000	209	53,000	1,848	1,460	176		126	
19 KASTAMONU	8,157	5,143,429	8,307	5,143,429	8,234	4,177,532	9,719	4,177,532	867	478,876	867	478,876	185	123,839	206	123,839	3,809	3,383	1,410	294,246	1,402	294,246
20 KAYSERİ	3,113	1,673,385	3,113	1,673,385	1,465	53,299	1,570	53,299	5,800	560,432	5,800	560,432					579	408	4,123	17,725	5,015	17,725
21 KONYA	1,499	275,030	1,383	275,030	4,104	578,159	3,948	578,159	5,553	2,486,240	5,759	2,486,240	15		15		1,245	1,404	5,866	500,737	5,770	500,737
22 KÜTAHYA	4,932	1,665,009	4,932	1,665,009	6,553	1,109,306	6,862	1,109,306	2,936	1,272,976	2,975	1,272,976	10	15,000	10	15,000	4,420	4,302	915	74,167	1,194	74,167
23 MERSİN	7,257	1,599,691	7,649	1,599,691	8,623	2,072,320	9,880	2,072,320	3,933	807,185	4,216	807,185	215	36,656	215	36,656	4,493	4,245				
24 MUĞLA	17,005	3,763,492	17,173	3,763,492	9,332	1,521,109	9,179	1,521,109	11,143	1,515,377	11,156	1,515,377	1,865	232,777	1,431	232,777	3,624	3,203	900	7,730	650	7,730
25 SAKARYA	3,772	1,512,315	3,763	1,512,315	6,963	1,521,323	6,818	1,521,323	2,727	665,012	2,453	665,012	185		76		5,836	4,974	2,854	106,419	2,684	106,419
26 ŞANLIURFA					100				4,535	1,491,641	4,915	1,491,641							300		100	
27 TRABZON	628	355,160	539	355,160	702	361,987	680	361,987	3,332	2,638,116	3,394	2,638,116					255	111	100		240	
28 ZONGULDAK	5,006	3,444,986	5,046	3,444,986	4,450	1,717,100	4,650	1,717,100	1,728	1,548,989	2,015	1,548,989	184	173,487	226	173,487	3,206	3,819	440	55,828	446	55,828
TOTAL	162,484	60,929,708	165,022	60,929,708	175,900	38,198,151	171,712	38,198,151	126,354	38,632,532	127,248	38,632,532	11,276	4,614,384	11,346	4,614,384	79,908	77,536	75,718	7,868,753	75,647	7,868,753

Annex 12.2: Distribution of Silviculture Implementation Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	SILVICULTURAL PLANS				NATURAL REGENERATION				ARTIFICIAL REGENERATION				YARDOP				PROTECTION OF REGENERATION AND CULTIVATION AREAS							
	Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation	
	Number	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	GUARD/AD.	TRY	K.T.K/AD.	TRY	K.T.K/AD.	TRY	K.T.K/TRY	K.T.K/TRY
1 ADANA	8		2,548	5,109,132	5,109,132	2,645	1,095	3,187,642	3,187,642	1,148	2,500	2,500	0	0	0	0	0	0	0	0	0	0	0	0
2 AMASYA	65		129	934,953	379		15	155,867	70	155,867			0	0	0	0	0	0	0	0	0	0	0	0
3 ANKARA	8		729	1,698,118	775		30	285,574	32	285,574			0	0	0	0	0	0	0	0	0	0	0	0
4 ANTALYA				1,698,118			403	758,851	404	758,851	1,881	34,250	34,250	0	0	0	0	0	0	0	0	0	0	0
5 ARTVIN			2,023	5,167,882	2,352		166	1,764,927	164	1,764,927			0	0	0	0	0	0	0	0	0	0	0	0
6 BALIKESİR	58	53,000	95	356,938	97	356,938	481	3,179,727	653	3,179,727	518	518	0	58	1,793,308	1,793,308	0	0	0	0	0	0	65	0
7 BOLU	120		1,340	5,400,747	5,400,747	1,367	60	530,749	65	530,749			10	0	138,054	10	0	138,054	0	0	0	138,054	0	0
8 BURSA							311	2,170,743	485	2,170,743			0	0	0	0	0	0	0	0	0	0	0	0
9 ÇANAKKALE	8		750	1,400,536	281		249	848,195	214	848,195			0	0	0	0	0	0	0	0	0	0	0	0
10 DENİZLİ	5		1,127	1,574,179	814	1,574,179	635	1,707,381	608	1,707,381			0	0	0	0	0	0	0	0	0	0	0	0
11 ELAZIĞ			820	1,465,088	820		17		15				2	0	25,917	3	0	25,917	0	0	0	25,917	0	0
12 ERZURUM			1,438	2,963,557	2,963,557	1,430	39	46,964	36	46,964			16	0	38,862	6	0	38,862	0	0	0	38,862	0	0
13 ESKİŞEHİR							73	447,892	82	447,892			0	0	0	0	0	0	0	0	0	0	0	0
14 GİRESUN	1						418	2,292,250	338	2,292,250			0	67	1,338,478	1,338,478	0	0	0	0	0	0	61	0
15 İSPARTA	5		401	1,204,461	549		58	121,975	58	121,975			41	0	190,228	28	0	190,228	0	0	0	190,228	0	0
16 İSTANBUL			50				500	2,375,141	536	2,375,141			0	0	0	0	0	0	0	0	0	0	0	0
17 İZMİR	16	5,280	865	5,356,935		1,298	1,212	6,469,990	6,469,990	1,229	500		0	0	0	0	0	0	0	0	0	0	0	0
18 KAHRAMANMARAŞ							339	1,208,630	742	1,208,630			8	64	269,995	3	51	0	0	0	0	0	269,995	0
19 KASTAMONU			925	1,437,969	914		320	1,416,790	325	1,416,790			0	0	0	0	0	0	0	0	0	0	0	0
20 KAYSERİ	2	10,000	71	185,153	71	185,153	17	350,031	101	350,031			17	0	167,677	13	0	167,677	0	0	0	167,677	0	0
21 KONYA			1,889	5,936,273	5,936,273	1,885	280	722,592	273	722,592			0	0	0	0	0	0	0	0	0	0	0	0
22 KÜTAHYA	6		1,766	5,139,017	5,139,017	2,174	77	492,035	90	492,035			0	0	0	0	0	0	0	0	0	0	0	0
23 MERSİN							320	608,324	293	608,324			0	0	0	0	0	0	0	0	0	0	0	0
24 MUĞLA	3		745	1,850,334	752		84	1,016,477	235	1,016,477	1,200		0	0	0	0	0	0	0	0	0	0	0	0
25 SAKARYA			34	183,673	34	183,673	12	408,190	96	408,190			0	15	2,903	0	7	0	0	0	0	0	2,903	0
26 ŞANLIURFA			312	348,349	172								16	0	0	16	0	0	0	0	0	0	0	0
27 TRABZON																								
TOTAL	160	199,974	23,646	59,321,573	24,652	59,321,573	7,855	37,889,394	8,706	37,889,394	7,099	34,250	6,099	110	204	3,965,422	79	184	560,738	0	0	0	0	0

**Annex 13.1 : Distribution of Afforestation, Soil Conservation and Integrated Basin Improvement Projects
Implementation Results by Regional Directorates of Forestry, 2019**

REGIONAL DIRECTORATE	SURVEY-PROJECT				AFFORESTATION				AFFORESTATION MAINTENANCE				SPECIAL AFFORESTATION			REHABILITATION				REHABILITATION MAINTENANCE			
	Programme		Implementation		Programme		Implementation		Programme		Implementation		Implementation			Programme		Implementation		Programme		Implementation	
	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	Grants (TRY)	Loans (TRY)	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY
1 ADANA	2,000	14,000	3,971	23,904	854	6,510,000	868	6,369,000	3,180	1,875,000	3,180	1,689,445	2			741	460,595	746	465,517	601	250,000	601	275,863
2 AMASYA	8,614	76,000	10,306	12,323	450	3,457,000	590	2,612,000	8,820	5,383,000	9,002	6,553,265	70	1,978,276	30,805	2,957	222,781	3,605	222,781	1,628	511,000	1,617	234,662
3 ANKARA	6,000	42,000	5,963		100	300,000	259	1,253,000	7,400	6,171,000	7,717	4,123,525	29	624,178	5,768	4,351	743,679	4,928	911,082	3,275	1,181,000	3,372	2,148,130
4 ANTALYA	1,000	7,000	1,210		330	2,675,000	344	2,300,723	820	700,000	820	1,037,584	38	8,807		345	409,235	368	400,235	305	179,000	302	191,191
5 ARTVİN	3,000	21,000	3,441	20,000	5	202,500	5	200,860	100	78,000	100	78,000	2	44,532		800	810,743	917	810,743	1,362	128,000	1,362	113,553
6 BALIKESİR	8,000	55,000	3,919	55,000	800	4,860,000	755	4,820,461	6,460	2,930,000	6,460	2,947,292	86	1,517,428		130	440,681	534	440,681	618	370,000	618	370,000
7 BOLU	550	3,000	286		58	905,000	276	895,343	300	385,000	300	350,000	2	15,334		873	121,445	981	125,810	158	89,000	158	125,635
8 BURSA	3,500	84,000	5,237	76,235	623	5,758,000	627	4,816,036	3,472	2,688,000	3,449	3,797,231	11		6,945	11,817	1,192,339	11,277	1,042,339	490	347,000	490	323,315
9 ÇANAKKALE	1,600	11,000	5,352	11,000	1,600	8,735,000	1,450	7,673,558	5,470	1,575,000	5,400	2,386,000	21	2,802	1,935	234	9,184	246	9,184	149	103,000	149	103,000
10 DENİZLİ	1,570	11,000	2,748		520	5,225,000	542	2,585,275	5,940	4,985,000	5,940	5,598,550	175	1,623,343	47,461	2,464	1,755,759	2,839	1,755,759	527	248,000	527	104,717
11 ELAZIĞ	18,026	159,000	15,530		1,132	6,344,000	340	4,415,839	9,848	8,430,000	9,848	9,888,521	114	1,786,227	28,031	4,355	1,030,658	2,330	759,008	1,927	207,000	1,927	180,217
12 ERZURUM	14,050	96,000	14,422		60	180,000	290	1,305,910	7,800	4,610,000	7,800	3,783,263				2,720	174,074	2,269	174,074	768	258,000	881	23,331
13 ESKİŞEHİR	12,500	85,000	17,191	661,362	100	1,000,000	871	3,037,078	6,800	10,325,000	6,800	9,120,671	28	173,249	1,677	320	107,945	702	107,945	2,603	1,915,000	2,812	428,285
14 GİRESUN	5,000	34,000	5,932				65	189,303	1,500	4,190,000	1,822	4,258,716				2,851	1,352,821	2,959	1,352,821	367	154,000	367	126,000
15 İSPARTA	3,000	21,000	4,555		785	4,268,000	785	3,904,206	5,975	5,477,000	5,975	6,068,475	41	467,632	10,257	871	82,844	1,017	82,844	1,248	1,434,000	1,248	1,215,110
16 İSTANBUL	4,421	1,000	834	1,000	786	7,144,000	797	7,006,217	6,237	5,490,000	6,311	5,625,725	1	263,859	126,017	1,246	266,985	1,278	280,131	669	313,000	661	296,469
17 İZMİR	5,000	34,000	11,001		2,644	16,951,000	2,575	17,265,033	9,830	8,565,000	10,130	8,308,127	379	1,574,821	198,817	2,482	309,547	2,295	309,547	489	248,000	394	161,177
18 KAHRAMANMARAŞ	1,000	7,000	1,116	48,243	1,010	22,355,000	1,291	11,385,873	5,280	5,390,000	14,048	14,406,667	66	143,086	2,076	1,036	516,352	986	516,352	1,074	581,000	4,835	2,314,660
19 KASTAMONU	605	31,000	789	35,256	309	2,492,000	314	1,855,138	2,340	1,632,000	2,340	2,257,778	2	15,752	24,767	2,604	392,785	3,110	392,785	340	414,000	444	414,561
20 KAYSERİ	10,000	86,000	14,440	156,643	173	900,000	669	2,389,251	12,000	7,212,000	12,000	6,510,785	79	155,694	47,515	4,949	1,105,853	5,730	1,339,543	5,193	2,368,000	5,187	2,093,046
21 KONYA	10,000	68,000	9,807	67,850	20	60,000	344	270,112	7,100	8,600,000	7,100	8,504,044	653	635,098	9,690	3,767	3,494,702	5,602	3,494,702	3,294	1,511,000	3,294	1,051,373
22 KÜTAHYA	625	4,000	638		20	60,000	27	60,000	4,100	1,560,000	4,100	1,874,924	6	162,466	1,963	3,934	536,917	3,903	536,917	997	477,000	997	164,985
23 MERSİN	12,500	2,100,000	13,616	736,506	500	2,032,000	454	3,544,756	6,797	6,205,000	6,797	5,926,892	84	1,508,935	34,888	1,000	583,411	1,524	583,411	998	528,000	1,028	462,994
24 MUĞLA	1,071	7,000	1,106		2,361	14,578,000	2,398	16,766,485	5,820	4,915,000	6,482	2,385,920	34	317,111		508	216,366	1,274	338,590	623	292,000	1,252	28,230
25 SAKARYA	200	2,000	1,217	76,950	600	6,132,000	623	2,746,190	2,250	1,625,000	2,250	5,241,450				855	560,674	939	410,674	97	61,000	97	77,000
26 ŞANLIURFA	5,000	34,000	16,901	34,000	120	960,000	193	2,125,329	3,000	3,469,000	3,008	2,895,618	1,746	3,575,074	366,881	6,015	8,409,663	8,061	8,409,663	620	235,000	1,497	330,635
27 TRABZON	4,000	27,000	6,048	38,900	50	220,000	50	300,000	3,200	2,861,000	3,200	2,741,579	5	153,740	3,224	2,400	2,194,578	1,686	2,179,578	3,257	124,000	3,257	146,000
28 ZONGULDAK	3,000	20,000	3,108	38,304	70	1,372,000	70	761,526	1,040	1,888,000	1,049	2,428,522	16	78,931		1,022	204,262	1,145	204,262	200	482,000	393	522,130
TOTAL	145,832	3,140,000	180,684	2,093,476	16,080	125,675,500	17,871	112,854,502	142,879	119,214,000	153,428	130,788,568	3,692	16,826,375	948,717	67,648	27,706,879	73,248	27,656,979	33,877	15,008,000	39,768	14,026,268

Amount of afforestation activities carried out by other institutions: **96 hectares**

Annex 13.2: Distribution of Afforestation, Soil Conservation and Basin Improvement Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	SOIL CONSERVATION				SOIL CONSERVATION AND MAINTENANCE				PASTURE IMPROVEMENT				AVALANCHE CONTROL				AVALANCHE CONTROL MAINTENANCE				FLOOD CONTROL				TOTAL		
	Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation				
	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	Hectare	TRY	TRY	TRY			
1	ADANA	200	460,000	200	348,763	7,000	1,690,000	7,000	1,891,773	200	100,000	200	81,394											2,250,000	2,321,930		
2	AMASYA	800	1,840,000	987	2,584,254	22,650	5,985,000	22,650	4,616,854	350	175,000	900	375,691											8,000,000	7,576,799		
3	ANKARA	600	1,380,000	618	1,700,489	11,200	4,120,000	11,242	3,757,812															5,500,000	5,458,301		
4	ANTALYA					1,700	550,000	1,700	549,721															550,000	549,721		
5	ARTVİN	1,100	1,452,000	1,104	1,390,989	8,044	2,114,000	8,044	2,031,200															3,566,000	3,422,189		
6	BALIKESİR									50		308													0	0	
7	BOLU	10	23,000			160	63,000	160	85,984															86,000	85,984		
8	BURSA	50	115,000	50	151,084	250	95,000	250	58,916															210,000	210,000		
9	ÇANAKKALE																								0	0	
10	DENİZLİ	300	690,000	300	808,769	3,900	925,000	3,900	791,013															1,615,000	1,599,782		
11	ELAZIĞ	3,725	5,814,000	2,195	4,583,042	53,110	13,353,000	53,325	14,077,364	800	310,000	400	58,882	30	600,000	30	853,911					20,077,000	19,573,199				
12	ERZURUM	2,850	3,055,000	3,003	3,034,529	34,727	3,175,000	34,727	2,798,068	3,700	1,940,000	4,439	2,362,674									8,170,000	8,195,271				
13	ESKİŞEHİR	300	690,000	300	1,728,970	11,800	6,800,000	11,800	5,737,419	400	200,000	434	200,846									7,690,000	7,667,235				
14	GİRESUN	420	966,000	420	1,217,930	12,900	5,504,000	12,900	5,234,279	200	100,000	200	95,620									6,570,000	6,547,829				
15	ISPARTA	510	2,670,000	730	1,378,967	6,050	2,200,000	6,150	3,421,278													4,870,000	4,800,245				
16	İSTANBUL																						0	0			
17	İZMİR	200	460,000	200	1,366,405	3,900	2,350,000	3,900	1,429,866					30	3,750,000	30	3,739,128					6,560,000	6,535,399				
18	KAHRAMANM ARAŞ	400	920,000	400	1,448,525	8,260	6,315,000	13,528	5,746,115	100	50,000	100	66,677									7,285,000	7,261,317				
19	KASTAMONU					4,000	1,160,000	4,000	1,156,764													1,160,000	1,156,764				
20	KAYSERİ	2,000	4,600,000	2,222	4,440,216	38,850	9,160,000	38,850	9,313,358	100	50,000	100										13,810,000	13,753,574				
21	KONYA	400	920,000	400	542,892	11,300	4,220,000	11,300	4,892,195	200	100,000	242	40,410									5,240,000	5,475,497				
22	KÜTAHYA					180	50,000	150		100	50,000	100										100,000	0				
23	MERSİN	150	345,000	150	657,207	4,200	2,105,000	4,450	1,754,640	100	50,000	100	30,532									2,500,000	2,442,379				
24	MUĞLA	50	15,000	50	21,806	600	27,000	600	19,853													42,000	41,659				
25	SAKARYA					235	65,000	235	64,999													65,000	64,999				
26	ŞANLIURFA	1,500	3,450,000	1,574	2,936,606	21,500	8,780,000	28,119	9,280,752	100	50,000	65	33,039									12,280,000	12,250,397				
27	TRABZON	210	278,000	210	1,214,611	4,547	1,277,000	4,547	1,228,260	500	275,000	500	366,336	30	1,400,000	30	1,367,782	50	200,000	50	150,000	1,250	1,000,000	1,250	950,000	4,430,000	5,276,989
28	ZONGULDAK	50	1,315,000	85	1,311,479																	1,315,000	1,311,479				
TOTAL		15,825	31,458,000	15,198	32,867,533	271,063	82,083,000	283,527	79,938,483	6,900	3,450,000	8,088	3,712,101	90	5,750,000	90	5,960,821	50	200,000	50	150,000	1,250	1,000,000	1,250	950,000	123,941,000	123,578,938

Annex 14: Distribution of Sapling and Seed Production Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	SAPLING PRODUCTION				SAPLING MAINTENANCE				SEED PRODUCTION				SEED MAINTENANCE			
	Programme		Implementation		Programme		Implementation		Programme		Implementation		Programme		Implementation	
	Thousand (pcs)	Thousand TRY	Thousand (pcs)	Thousand TRY	Thousand (pcs)	Thousand TRY	Thousand (pcs)	Thousand TRY	Tonne	Thousand TRY	Tonne	Thousand TRY	Tonne	Thousand TRY	Tonne	Thousand TRY
1 ADANA	5,600	3,515	5,600	3,600	7,000	907	7,000	892	5	205	5	155	4	17	2	11
2 AMASYA	7,900	3,930	7,900	3,796	14,750	1,440	14,750	1,348	11	341	6	347	5	15	5	3
3 ANKARA	9,800	5,640	9,809	5,531	15,000	1,550	15,000	1,521	9	379	3	264	3	9	3	
4 ANTALYA	4,500	2,100	4,500	803	7,000	620	7,000	651	5	155	2	6	5	15	5	
5 ARTVİN	1,150	600	1,150	223	1,500	157	1,500	148	2	62	1	14				
6 BALIKESİR	8,000	4,000	8,683	3,428	9,000	870	9,000	798	8	248	7	86	7	21	7	10
7 BOLU	2,000	1,120	1,150	1,131	3,000	300	3,000	292	2	62	2	62				
8 BURSA	1,400	1,800	1,506	1,731	2,100	210	2,100	210	4	124	4	124	5	15	5	15
9 ÇANAKKALE	3,250	1,430	3,502	1,420	4,200	545	4,200	234	4	124	2	50				
10 DENİZLİ	3,450	1,120	3,650	825	6,300	640	6,300	607	3	93	3	132	5	15	5	15
11 ELAZIĞ	13,000	7,220	12,850	6,382	16,040	3,637	16,040	3,236	19	789	12	395	2	6	2	1
12 ERZURUM	7,600	2,410	7,600	1,724	12,300	1,130	12,300	849	6	186	3	30	3	9	3	9
13 ESKİŞEHİR	9,000	4,220	9,251	3,479	15,000	1,460	15,000	1,391	10	310	8	310	10	30	10	30
14 GİRESUN	2,600	1,820	2,977	2,019	3,800	495	3,800	420	4	174	2	124	3	9	3	9
15 İSPARTA	4,500	2,140	6,600	1,281	6,500	650	9,160	463	6	186	6	180	3	9	3	9
16 İSTANBUL	5,000	3,100	5,000	3,270	8,500	1,320	8,500	1,389	8	248	4	136				
17 İZMİR	8,250	4,700	12,262	4,533	16,000	1,810	16,700	1,718	7	217	4	217	7	21	11	21
18 KAHRAMANMARAŞ	10,000	5,820	10,743	6,270	15,800	2,360	15,800	1,918	8	348	4		5	15	5	
19 KASTAMONU	2,500	1,370	2,221	1,249	5,030	650	4,900	767	4	169	4	168	1	3	1	3
20 KAYSERİ	10,300	5,610	10,300	4,483	15,700	1,893	15,700	1,554	7	417	6	295				
21 KONYA	6,900	2,520	6,900	2,081	9,530	942	10,120	907	6	186	6	167	8	24	8	24
22 KÜTAHYA	700	650	700	631	1,500	170	1,500	169	1	61	3	80				
23 MERSİN	4,500	2,300	4,507	2,186	8,500	1,000	8,500	994	9	279	2	141				
24 MUĞLA	3,200	2,784	5,421	2,571	5,700	975	7,116	924	6	186	4	145	5	15	5	15
25 SAKARYA	2,000	2,800	2,000	1,852	4,000	420	4,000	171	2	62	1	49				
26 ŞANLIURFA	8,900	5,300	8,900	2,408	13,500	1,850	11,300	1,339	8	248	13	254				
27 TRABZON	4,500	2,740	4,500	2,942	7,650	1,106	7,650	872	6	356	7	160	4	14	4	5
28 ZONGULDAK	2,500	1,710	2,500	1,592	4,500	700	4,500	300	7	460	8	192	5	15	5	15
TOTAL	153,000	84,469	162,680	73,440	239,400	29,807	242,436	26,081	177	6,675	133	4,283	90	277	92	195

Annex 15: Distribution of Loans Provided to Forest Villages and Cooperative Associations by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	INDIVIDUAL LOANS												COOPERATIVE LOANS			
	WORK PROGRAMME						IMPLEMENTATION									
	Social		Economic		TOTAL		Social		Economic		TOTAL		Number of Projects	Amount of Loan Approved	Appropriation Submitted	Realization
	Number of Families	TRY	Number of Families	TRY	Number of Families	TRY	Number of Families	TRY	Number of Families	TRY	Number of Families	TRY				
1 ADANA	191	557,000	352	6,768,010	543	7,325,010	191	557,000	352	6,768,000	543	7,325,000	1	800,000	800,000	800,000
2 AMASYA			237	6,650,000	237	6,650,000			237	6,611,954	237	6,611,954				
3 ANKARA	172	1,461,150	229	6,688,850	401	8,150,000	172	1,460,656	229	6,685,009	401	8,145,665				
4 ANTALYA			77	3,222,000	77	3,222,000			77	3,221,460	77	3,221,460				
5 ARTVİN	324	1,368,350	28	543,150	352	1,911,500	324	1,368,350	28	542,763	352	1,911,113				
6 BALIKESİR			267	5,600,000	267	5,600,000			267	5,595,314	267	5,595,314				
7 BOLU	213	2,453,940	240	5,646,060	453	8,100,000	212	2,440,939	241	5,622,556	453	8,063,495				
8 BURSA	45	138,250	317	8,918,750	362	9,057,000	45	138,250	317	8,866,833	362	9,005,083				
9 ÇANAKKALE			201	4,850,000	201	4,850,000			201	4,848,953	201	4,848,953				
10 DENİZLİ	7	96,000	387	8,334,000	394	8,430,000	7	96,000	386	8,328,335	393	8,424,335	1	1,100,000	1,114,584	1,114,584
11 ELAZIĞ	157	1,802,707	285	8,762,582	442	10,565,289	157	1,802,707	285	8,746,049	442	10,548,756				
12 ERZURUM	15	33,000	252	7,467,000	267	7,500,000	13	28,600	264	7,454,936	277	7,483,536				
13 ESKİŞEHİR			355	9,555,000	355	9,555,000			355	9,178,500	355	9,178,500				
14 GİRESUN	140	1,151,206	324	9,110,794	464	10,262,000	140	1,151,206	324	9,109,850	464	10,261,056				
15 İSPARTA			301	6,761,000	301	6,761,000			301	6,760,999	301	6,760,999				
16 İSTANBUL	32	424,000	278	6,257,000	310	6,681,000	32	424,000	278	6,256,000	310	6,680,000				
17 İZMİR	32	199,750	407	9,187,250	439	9,387,000	32	200,000	404	9,081,571	436	9,281,571				
18 KAHRAMANMARAŞ			235	5,984,000	235	5,984,000			235	5,984,000	235	5,984,000				
19 KASTAMONU	73	365,000	226	11,220,000	299	11,585,000	73	365,000	226	11,213,220	299	11,578,220	1	599,400	599,400	599,400
20 KAYSERİ			347	8,550,000	347	8,550,000			347	8,550,000	347	8,550,000				
21 KONYA			397	9,380,827	397	9,380,827			397	9,380,827	397	9,380,827				
22 KÜTAHYA			144	3,804,500	144	3,804,500			144	3,804,500	144	3,804,500				
23 MERSİN			187	5,026,000	187	5,026,000			187	5,026,000	187	5,026,000				
24 MUĞLA			187	5,249,000	187	5,249,000			187	4,418,661	187	4,418,661				
25 SAKARYA	92	1,033,556	221	5,116,444	313	6,150,000	92	1,033,556	221	5,077,627	313	6,111,184				
26 ŞANLIURFA			184	5,000,300	184	5,000,300			184	5,000,300	184	5,000,300				
27 TRABZON	448	1,557,645	340	8,482,355	788	10,040,000	448	1,557,645	340	8,429,468	788	9,987,113				
28 ZONGULDAK	225	2,919,428	164	5,436,572	389	8,356,000	225	2,919,428	164	5,434,426	389	8,353,854				
TOTAL	2,166	15,560,982	7,169	187,571,444	9,335	203,132,426	2,163	15,543,337	7,178	185,998,112	9,341	201,541,449	5	2,868,990	2,883,574	2,883,574

Annex 16: Distribution of Wood Production and Sales Programme Implementation Results by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	STANDING BARKED STEM VOLUME		PRODUCTION STATUS				SALES STATUS										
			Industrial Wood		Firewood		Programme	Standing		Industrial Wood		Firewood		Stick		SALES REVENUE	
	Programme	Realization	Programme	Realization	Programme	Realization		Tree Sales	Realization	Realization	Realization						
	Thousand M3	Thousand M3	Thousand M3	Thousand M3	Thousand Steres	Thousand Steres		Thousand TRY	Thousand M3	Thousand TRY	Thousand M3	Thousand TRY	Thousand Steres	Thousand TRY	Thousand Steres		Thousand TRY
1	ADANA	1,400	1,399	1,090	1,090	240	276	238,227	371	60,662	730	194,076	210	9,814			264,552
2	AMASYA	1,700	1,516	1,360	1,086	445	435	209,965	235	33,325	874	191,116	425	14,318			238,759
3	ANKARA	750	795	600	599	175	133	142,861	164	29,079	438	107,013	120	2,518			138,610
4	ANTALYA	1,600	1,558	1,350	1,335	340	364	243,595	1,253	229,416	238	57,658	82	4,680			291,754
5	ARTVİN	600	326	450	237	70	92	65,641	236	30,464	56	18,449	69	578			49,491
6	BALIKESİR	1,450	1,404	1,160	1,095	155	324	241,506	435	81,025	715	189,719	195	5,851			276,595
7	BOLU	2,200	2,040	1,740	1,492	250	231	414,291	263	49,678	1,189	388,858	230	4,057			442,593
8	BURSA	1,500	1,515	1,200	1,204	370	372	255,377	416	68,001	812	206,000	349	13,676			287,677
9	ÇANAKKALE	1,100	1,132	870	866	300	279	174,938	433	79,378	482	112,336	178	15,572			207,286
10	DENİZLİ	850	877	700	702	125	111	163,147	250	46,733	488	131,295	86	2,504			180,532
11	ELAZIĞ	80	38	60	9	85	30	8,322	17	1,321	4	524	17	1,241			3,086
12	ERZURUM	400	312	320	198	90	70	85,292	37	5,163	111	37,828	70	2,715			45,706
13	ESKİŞEHİR	450	465	360	355	120	107	62,199	133	20,560	227	43,896	89	4,022			68,478
14	GİRESUN	1,000	995	820	760	125	103	153,644	237	37,204	526	135,329	91	2,498			175,031
15	İSPARTA	600	690	485	568	105	86	119,967	490	90,563	148	34,116	50	1,993			126,672
16	İSTANBUL	1,300	1,278	1,050	1,134	660	433	189,007	508	86,579	543	107,126	367	13,876			207,581
17	İZMİR	1,200	1,663	980	1,285	170	176	234,586	806	138,235	594	119,263	107	3,645			261,143
18	KAHRAMANMARAŞ	750	675	600	514	120	162	122,355	309	46,989	264	70,414	111	6,913			124,316
19	KASTAMONU	3,400	3,083	2,720	2,317	550	423	570,362	608	118,906	1,727	450,969	432	9,985			579,860
20	KAYSERİ	270	320	215	261	50	50	47,077	167	13,870	143	37,340	41	1,412			52,622
21	KONYA	300	310	200	188	90	93	31,355	190	24,584	63	8,990	38	2,545		8	36,127
22	KÜTAHYA	900	904	700	600	180	173	135,848	167	27,836	475	116,470	164	3,254			147,560
23	MERSİN	950	944	780	720	150	159	165,277	541	93,160	288	70,060	43	2,907			166,127
24	MUĞLA	1,450	1,371	1,220	1,105	175	294	249,246	244	48,771	815	226,238	270	5,826			280,835
25	SAKARYA	1,000	901	750	679	290	257	134,614	239	45,671	398	87,623	257	15,964		15	149,273
26	ŞANLIURFA		1		1	110	59	6,624	1	96			59	3,942			4,038
27	TRABZON	700	318	520	217	40	84	75,251	306	41,942	1	340	32	582			42,864
28	ZONGULDAK	2,100	1,833	1,700	1,496	270	214	404,426	252	47,908	1,257	372,158	214	4,387			424,453
TOTAL		30,000	28,663	24,000	22,113	5,850	5,590	4,945,000	9,308	1,597,119	13,606	3,515,204	4,396	161,275	0	23	5,273,621

Annex 17: Distribution of Non-Wood Forest Products and Services by Regional Directorates of Forestry, 2019

REGIONAL DIRECTORATE	NON-WOOD PRODUCTS INVENTORY		SALES REVENUES	URBAN FORESTS			RECREATION AREAS		
	Area	Growing Stock/Yield		Established	Cancelled	Existing	Established	Cancelled	Existing
	Hectare	Tonne		Number	Number	Number	Number	Number	Number
1 ADANA	7,527	345	933,934			1			27
2 AMASYA	25,159	2,376	246,456			9	2	6	56
3 ANKARA	60,091	6,477	109,582		2	8	1	1	22
4 ANTALYA	64,124	8,562	865,135			6		1	134
5 ARTVİN	19,241	1,036	10,021			1	1		15
6 BALIKESİR	7,599	2,909	427,834			1		2	16
7 BOLU	8,743	1,047	72,140			3	4	2	44
8 BURSA	8,229	29,853	530,909			6	2	3	89
9 ÇANAKKALE	5,081	10,900	60,455	1		1	2	1	27
10 DENİZLİ	2,048	479	447,461			6		2	44
11 ELAZIĞ	20,007	5,466	150		1	6	1		15
12 ERZURUM	2,198	463	7,324			7	1	1	21
13 ESKİŞEHİR	30,333	2,673	103,756			6		6	24
14 GİRESUN	33,427	9,974	27,012			4	5	1	48
15 ISPARTA	23,724	4,092	596,362		1	4	2	9	20
16 İSTANBUL	11,969	834	463,094	1		16	7	1	160
17 İZMİR	47,910	8,475	281,121			7	4	4	84
18 KAHRAMANMARAŞ	21,625	18,129	266,916			5	4		45
19 KASTAMONU	37,317	49,353	677,984			3	1	1	30
20 KAYSERİ	13,327	226	20,446			2			11
21 KONYA	12,988	7,009	60,533			7	1		46
22 KÜTAHYA	1,307	1	140,470			2	2		14
23 MERSİN	5,634	5,596	598,420			1	1	1	32
24 MUĞLA	8,771	3,161	485,604			4	9	4	93
25 SAKARYA	20,569	17,863	3,314,216			5	9	3	169
26 ŞANLIURFA	44,201	26,691		1		6		2	9
27 TRABZON	16,064	3,298	3,719			3	2	2	50
28 ZONGULDAK	11,149	31,093	1,898,772			4	4	2	42
TOTAL	570,362	258,381	12,649,826	3	4	134	65	55	1,387

* In 2019, 2 urban forests were re-registered as recreation areas.



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