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Food and Agriculture Organization of the United Nations

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The Forest Resources Assessment Programme

Sustainably managed forests have multiple environmental and socio-economic functions important at the global, national and local scales, and play a vital part in sustainable development. Reliable and up-to-date information on the state of forest resources - not only on area and area change, but also on such variables as growing stock, wood and non-wood products, carbon, protected areas, use of forests for recreation and other services, biological diversity and forests' contribution to national economies - is crucial to support decision-making for policies and programmes in forestry and sustainable development at all levels.

FAO, at the request of its member countries, regularly monitors the world's forests and their management and uses through the Forest Resources Assessment Programme. This country report forms part of the Global Forest Resources Assessment 2005 (FRA 2005), which is the most comprehensive assessment to date. More than 800 people have been involved, including 172 national correspondents and their colleagues, an Advisory Group, international experts, FAO staff, consultants and volunteers. Information has been collated from 229 countries and territories for three points in time: 1990, 2000 and 2005.

The reporting framework for FRA 2005 is based on the thematic elements of sustainable forest management acknowledged in intergovernmental forest-related fora and includes more than 40 variables related to the extent, condition, uses and values of forest resources. More information on the FRA 2005 process and the results - including all the country reports - is available on the FRA 2005 Web site (www.fao.org/forestry/fra2005).

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The Global Forest Resources Assessment 2005 Country Report Series is designed to document and make available the information forming the basis for the FRA 2005 reports. The Country Reports have been compiled by officially nominated country correspondents in collaboration with FAO staff. Prior to finalisation, these reports were subject to validation by forestry authorities in the respective countries.

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1 Table T1 – Extent of Forest and Other wooded land

1.1 FRA 2005 Categories and definitions

Category	Definition
Forest	Land spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of more than 10 percent, or trees able to reach these thresholds <i>in situ</i> . It does not include land that is predominantly under agricultural or urban land use.
Other wooded land	Land not classified as “Forest”, spanning more than 0.5 hectares; with trees higher than 5 meters and a canopy cover of 5-10 percent, or trees able to reach these thresholds <i>in situ</i> ; or with a combined cover of shrubs, bushes and trees above 10 percent. It does not include land that is predominantly under agricultural or urban land use.
Other land	All land that is not classified as “Forest” or “Other wooded land”.
Other land with tree cover (Subordinated to “Other land”)	Land classified as “Other land”, spanning more than 0.5 hectares with a canopy cover of more than 10 percent of trees able to reach a height of 5 meters at maturity.
Inland water bodies	Inland water bodies generally include major rivers, lakes and water reservoirs.

1.2 National data

1.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Forests GIS Project http://gis.esri.com/library/userconf/proc99/proceed/papers/pap251/p2514.gif	H	Natural forest, Planted forest	1995	With an Information Assistance by Other GIS Projects.
UNECE/FAO, 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand	H	Other wooded land	1990 1997	
Statistical abstract of Israel http://www.cbs.gov.il/shnaton53/st01_09.pdf	H	Forests managed by the Jewish National Fund (excl. natural forests)	1990, 2000, 2001, 2002, 2003	
FAOSTAT	H	Country area, Land area, Inland water bodies	1990 2000	

1.2.2 Original data

FAOSTAT country area	Land area (1000 ha)	Inland water (1000 ha)	Total area (1000 ha)
Israel	2062	44	2106

1995

REGION	Planted Forest (ha)	Natural Forest ¹ (ha)	Non-forested land (ha)	Total (ha)
North	27300	27400	3200	57900
Central	31000	24700	4000	59700
South	24200	17900	1300	43400
Total	82500	70000	8500	161000

Statistical abstract of Israel

Forests managed by the Jewish National Fund-excluding natural forests (1000 Dunams)					
National class	1990	2000	2001	2002	2003
Afforested area	756	865	853	850	838
Path and firebreaks	66	30	47	50	53
Other area	14	46	75	71	92
Total	836	941	975	971	983

UNECE/FAO, 2000.

National class	Area ('000 ha)	
	1992	1997
Other Wooded Land	25	48

1.3 Analysis and processing of national data**Statistical abstract of Israel**

1 Dunam = 0.1 hectares. Using this conversion factor, the original data in hectares becomes:

Forests managed by the Jewish National Fund-excluding natural forests (1000 ha)					
National class	1990	2000	2001	2002	2003
Afforested area	75.6	86.5	85.3	85	83.8
Path and firebreaks	6.6	3	4.7	5	5.3
Other area	1.4	4.6	7.5	7.1	9.2
Total	83.6	94.1	97.5	97.1	98.3

1.3.1 Calibration

Not needed, the total forest area is deducted from total land area (FAOSTAT) in order to calculate Other land area.

¹ Does not include natural forest not under Forest Department responsibility

1.3.2 Estimation and forecasting

The area of Natural forest is reported for 1995 only. This is assumed to be unchanged and is added to the yearly estimates of other forest categories in the original to give the total forest area as shown in the table below:

National class	Area in Hectares ('000)				
	1990	2000	2001	2002	2003
Natural Forest	70	70	70	70	70
Forests managed by the Jewish National Fund (excl. natural forests)	83.6	94.1	97.5	97.1	98.3
Total	153.6	164.1	167.5	167.1	168.3

The 2005 forest area is then calculated by linear extrapolation.

Other wooded land has been calculated by linear intrapolation and extrapolation.

1.4 Reclassification into FRA 2005 classes

Natural forest and Forests managed by the Jewish National Fund (excl. natural forests) have been reclassified as 100% forest.

1.5 Data for National reporting table T1

FRA 2005 Categories	Area (1000 hectares)		
	1990	2000	2005
Forest	154	164	171
Other wooded land	16	62	85
Other land	1 893	1 836	1 806
...of which with tree cover ¹⁾			
Inland water bodies	44	44	44
TOTAL	2 106	2 106	2 106

1) Area of "Other land with tree cover" is included in the area reported under "Other land" and should therefore be excluded when calculating the total area for the country.

1.6 Comments to National reporting table T3

From the 1995 data, only the values of natural forests have been used to carry out the estimates.

2 Table T2 – Ownership of Forest and Other wooded land

According to the National Correspondent: “No accurate data was made in the 1990's. The Part of private ownership's area (By **2005 FRA** Classifications) in the forest and other wooded land area (together) may be reach up to 5-7 percent .”

3 Table T3 – Designated function of Forest and Other wooded land

3.1 FRA 2005 Categories and definitions

Types of designation

Category	Definition
Primary function	A designated function is considered to be primary when it is significantly more important than other functions. This includes areas that are legally or voluntarily set aside for specific purposes.
Total area with function	Total area where a specific function has been designated, regardless whether it is primary or not.

Designation categories

Category / Designated function	Definition
Production	Forest / Other wooded land designated for production and extraction of forest goods, including both wood and non-wood forest products.
Protection of soil and water	Forest / Other wooded land designated for protection of soil and water.
Conservation of biodiversity	Forest / Other wooded land designated for conservation of biological diversity.
Social services	Forest / Other wooded land designated for the provision of social services.
Multiple purpose	Forest / Other wooded land designated to any combination of: production of goods, protection of soil and water, conservation of biodiversity and provision of social services and where none of these alone can be considered as being significantly more important than the others.
No or unknown function	Forest / Other wooded land for which a specific function has not been designated or where designated function is unknown.

3.2 National data

3.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Forests GIS Project http://gis.esri.com/library/userconf/proc99/proceed/papers/pap251/p251.htm	H		2003	With an Information Assistance by Other GIS Projects.
UNECE/FAO, 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand	H	Managed for soil protection	1997 1997	Secondary data source

3.2.2 Original data

1997

National class	Other wooded land ('000) ha
Managed for soil protection	3

2003

National Classification	Area (ha)
Protection of soil and water	22
Conservation of biodiversity	7

3.3 Analysis and processing of national data

3.3.1 Estimation and forecasting

1997 data has been reported as data for 2000 while 2003 data has been reported as data for 2005

3.4 Reclassification into FRA 2005 classes

Areas not accounted for in the original data have been reclassified as “multiple purpose”

3.5 Data for National reporting table T3

FRA 2005 Categories / Designated function	Area (1000 hectares)					
	Primary function			Total area with function		
	1990	2000	2005	1990	2000	2005
Forest						
Production	id	Id	id	55	67	60
Protection of soil and water	id	id	22	id	id	id
Conservation of biodiversity	id	id	7	id	id	id
Social services	id	id	id	id	id	id
Multiple purpose	id	id	142	not appl.	not appl.	not appl.
No or unknown function	id	id	0	not appl.	not appl.	not appl.
Total - Forest	154	164	171	not appl.	not appl.	not appl.
Other wooded land						
Production	id	id	id	0	0	0
Protection of soil and water	id	3	id	0	0	0
Conservation of biodiversity	id	id	id	0	0	0
Social services	id	id	id	id	id	id
Multiple purpose	id	59	85	not appl.	not appl.	not appl.
No or unknown function	id	id	0	not appl.	not appl.	not appl.
Total – Other wooded land	16	62	85	not appl.	not appl.	not appl.

3.6 Comments to National reporting table T3

1) The data under " Protection of soil and water" Category (22,000 ha.) concerns the areas located in the planted forests only.

2) there are forests areas, which might have been considered under some categories, without an accurate definition to a specific category.

4 Table T4 – Characteristics of Forest and Other wooded land

4.1 FRA 2005 Categories and definitions

Category	Definition
Primary	Forest / Other wooded land of native species, where there are no clearly visible indications of human activities and the ecological processes are not significantly disturbed.
Modified natural	Forest / Other wooded land of naturally regenerated native species where there are clearly visible indications of human activities.
Semi-natural	Forest / Other wooded land of native species, established through planting, seeding or assisted natural regeneration.
Productive plantation	Forest / Other wooded land of introduced species, and in some cases native species, established through planting or seeding mainly for production of wood or non wood goods.
Protective plantation	Forest / Other wooded land of native or introduced species, established through planting or seeding mainly for provision of services.

4.2 National data

4.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Statistical abstract of Israel 2004 http://www.cbs.gov.il/shnaton53/st0109.pdf	H	Forests managed by the Jewish National Fund (excl. natural forests)	1990, 2000, 2001, 2002, 2003	

4.2.2 Original data

Forests managed by the Jewish National Fund-excluding natural forests (1000 ha)					
National class	1990	2000	2001	2002	2003
Afforested area	75.6	86.5	85.3	85	83.8
Path and firebreaks	6.6	3	4.7	5	5.3
Other area	1.4	4.6	7.5	7.1	9.2
Total	83.6	94.1	97.5	97.1	98.3

4.3 Analysis and processing of national data

1 Dunam = 0.1 hectares. Using this conversion factor, the original data in hectares becomes:

National class	Area in Hectares ('000)				
	1990	2000	2001	2002	2003
Forests managed by the Jewish National Fund (excl. natural forests)	83.6	94.1	97.5	97.1	98.3
• Afforested area	57.6	86.5	85.3	85	83.8
• Path and firebreaks	6.6	3	4.7	5	5.3
• Other area	1.4	4.6	7.5	7.1	9.2

4.3.1 Estimation and forecasting

Forests managed by the Jewish National Fund were estimated by linear extrapolation

4.4 Reclassification into FRA 2005 classes

Forests managed by the Jewish National Fund (excl. natural forests)= 100% protective plantations.

All natural forest = 100% Modified natural

All Other wooded land = 100 % Modified natural.

4.5 Data for National reporting table T4

FRA 2005 Categories	Area (1000 hectares)					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Primary						
Modified natural	70	70	70	16	62	85
Semi-natural						
Productive plantation						
Protective plantation	84	94	101			
TOTAL	154	164	171	16	62	85

4.6 Comments to National reporting table T4

5 Table T5 – Growing stock

5.1 FRA 2005 Categories and definitions

Category	Definition
Growing stock	Volume over bark of all living trees more than X cm in diameter at breast height (or above buttress if these are higher). Includes the stem from ground level or stump height up to a top diameter of Y cm, and may also include branches to a minimum diameter of W cm.
Commercial growing stock	The part of the growing stock of species that are considered as commercial or potentially commercial under current market conditions, and with a diameter at breast height of Z cm or more.

5.2 National data

5.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
UNECE/FAO, 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand			1997	Secondary data source

5.2.2 Original data

Total Growing stock in 1997 = 6 000 000 m³

Growing stock available for wood supply (GSAWS) in 1997 = 4 200 000 m³

5.3 Analysis and processing of national data

5.3.1 Estimation and forecasting

Using interpolation between 1990 and 2000 figures of forest area from table T1, the total forest area for 1997 was estimated at 161 597 ha

Total Growing stock/hectare (1997) = 6 000 000/161 597 = 37.13 m³/ha

GSAWS/hectare = 4 200 000 m³/161 597 ha = 25.99 m³/ha

The growing stock per hectare is then multiplied with the forest areas from table T1 to get the growing stock for each reporting year.

5.4 Reclassification into FRA 2005 classes

Total Growing stock = 100% Growing stock

GSAWS = 100 % Commercial growing stock

5.5 Data for National reporting table T5

FRA 2005 Categories	Volume (million cubic meters over bark)					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Growing stock	5.70	6.09	6.34	id	id	id
Commercial growing stock	3.99	4.27	4.44	id	id	id

Specification of country threshold values	Unit	Value	Complementary information
1. Minimum diameter at breast height of trees included in Growing stock (X)	cm	id	id
2. Minimum diameter at the top end of stem (Y) for calculation of Growing stock	cm	id	id
3. Minimum diameter of branches included in Growing stock (W)	cm	id	id
4. Minimum diameter at breast height of trees in Commercial growing stock (Z)	cm	id	id
5. Volume refers to “Above ground” (AG) or “Above stump” (AS)	AG / AS	id	id
6. Have any of the above thresholds (points 1 to 4) changed since 1990	Yes/No	id	id
7. If yes, then attach a separate note giving details of the change	Attachment	id	id

5.6 Comments to National reporting table T5

6 Table T6 – Biomass stock

No Data Available.

7 Table T7 – Carbon stock

No Data is Available

8 Table T8 – Disturbances affecting health and vitality

8.1 FRA 2005 Categories and definitions

Category	Definition
Disturbance by fire	Disturbance caused by wildfire, independently whether it broke out inside or outside the forest/OWL.
Disturbance by insects	Disturbance caused by insect pests that are detrimental to tree health.
Disturbance by diseases	Disturbance caused by diseases attributable to pathogens, such as a bacteria, fungi, phytoplasma or virus.
Other disturbance	Disturbance caused by other factors than fire, insects or diseases.

8.2 National data

8.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Forest Department, KKL	M		1990	Applies to Disturbance by fire Data
Forest Department, KKL	H		2000	Applies to Disturbance by fire Data
Forest Department, KKL	M		2004	Applies to Disturbance by Insects and diseases Data

8.2.2 Original data

National Categories	Forests Area (ha)	
	1990	2000
Disturbance by fire	1 700	1 500
Disturbance by insects	Id	22 700
Disturbance by diseases	330	40

8.3 Data for National reporting table T8

FRA-2005 Categories	Average annual area affected (1000 hectares)			
	Forests		Other wooded land	
	1990	2000	1990	2000
Disturbance by fire	1.7	1.5	id	id
Disturbance by insects	Id	22.7	id	id
Disturbance by diseases	0.33	0.04	id	id
Other disturbance	id	id	id	id

8.4 Comments to National reporting table T8

The data under the term "Forests" in table T8 refers to disturbances occurred in the areas of planted forests and natural forests.

According to its National Forestry Department, Israel has witnessed other types of forest disturbances: snow storms damages (350 ha) in 1992 and dryness in planted forests (2 340 ha). However, these do not occur regularly and so have not been included in the table above.

9 Table T9 – Diversity of tree species

9.1 FRA 2005 Categories and definitions

Category	Definition
Number of native tree species	The total number of native tree species that have been identified within the country.
Number of critically endangered tree species	The number of native tree species that are classified as “Critically endangered” in the IUCN red list.
Number of endangered tree species	The number of native tree species that are classified as “Endangered” in the IUCN red list.
Number of vulnerable tree species	The number of native tree species that are classified as “Vulnerable” in the IUCN red list.

9.2 National data

9.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
IUCN			2000	
Forest department, KKL	H	Native tree species	2004	

9.2.2 Original data

The IUCN database has no information on Israel as regards this table.

9.3 Data for National reporting table T9

FRA 2005 Categories	Number of species (year 2000)
Native tree species	70
Critically endangered tree species	0
Endangered tree species	0
Vulnerable tree species	0

9.4 Comments to National reporting table T9

The Society of the Protection of Nature in Israel provides the information in the table below:

FRA 2005 Categories	Number of species (year 2004)
Native tree species	70
Critically endangered tree species	13
Endangered tree species	28

10 Table T10 – Growing stock composition

No growing stock data in forests is available. The four most common species are:
Pinus brutia, *Pinus halepensis*, *Eucalyptus sempervirens* and *Cupressus sempervirens*.

11 Table T11 – Wood removal

11.1 FRA 2005 Categories and definitions

Category	Definition
Industrial wood removal	The wood removed (volume of roundwood over bark) for production of goods and services other than energy production (woodfuel).
Woodfuel removal	The wood removed for energy production purposes, regardless whether for industrial, commercial or domestic use.

11.2 National data

11.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Forest Department, KKL	H		Relevant To Data	

11.2.2 Original data

FRA 2005 Categories	Volume in 1000 cubic meters of roundwood over bark					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Industrial roundwood	61	65	20	id	id	id
Woodfuel	id	id	id	id	id	id
TOTAL for Country						

11.3 Data for National reporting table T11

FRA 2005 Categories	Volume in 1000 cubic meters of roundwood over bark					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Industrial roundwood	61	65	20	id	id	id
Woodfuel	id	id	id	id	id	id
TOTAL for Country						

11.4 Comments to National reporting table T11

Closing of the factory, which was the main consumer of KKL industrial woods, was the reason of reduction on the volume of industrial roundwood by 2005.

12 Table T12 – Value of wood removal

No data is available.

13 Table T13 – Non-wood forest product removal

No data is available.

14 Table T14 – Value of non-wood forest product removal

No data is available.

15 Table T15 – Employment in forestry

15.1 FRA 2005 Categories and definitions

Category	Definition
Primary production of goods	Employment in activities related to primary production of goods, like industrial roundwood, woodfuel and non-wood forest products.
Provision of services	Employment in activities directly related to services from forests and woodlands.
Unspecified forestry activities	Employment in unspecified forestry activities.

15.2 National data

15.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Forest department, KKL	L		2004	

15.2.2 Original data

FRA 2005 Categories	Employment (persons)	
	1990	2000
Primary production of goods	id	3000
Provision of services	1800	1000
Unspecified forestry activities	Id	id
TOTAL		

15.3 Data for National reporting table T15

FRA 2005 Categories	Employment (1000 person-years)	
	1990	2000
Primary production of goods	id	3.0
Provision of services	1.8	1.0
Unspecified forestry activities	id	id
TOTAL	1.8	4.0

15.4 Comments to National reporting table T15

All Data on table T15 is estimated.