

STATISTICAL DATA REPORT

Region: Balochistan

Introduction

- 1. Forest extent, characteristics and changes
- 2. Forest growing stock, biomass and carbon
- 3. Forest disturbances
- 4. Emissions and Removals from Forests
- 5. Timber and Fuelwood supply
- 6. Forest designation, management and ownerships
- 7. Forestry Students and Employees

1. Forest extent, characteristics and changes

1a. Extent of forest and other wooded land

Forest Cover Area (ha)

Categories	2016	2020
Forest (a)	541450	546897
Non-forest land (b=c-a)	34177550	34172103
Total Land area (c)	34719000	34719000

Data Sources

Year: 2004
References: FREL (2020), National REDD+ Office
Methods Used: Pixel based classification of Landsat Imageries

1b. Annual forest expansion, deforestation and net change

Forest Cover Area (ha) · 2016 - 2020

Categories	2016 - 2020
Forest Expansion (a)	9495.9
...Afforestation	306.6
...Natural regeneration	9189.3
Deforestation (b)	261.4
Forest area net change (a-b)	9234.5

Data Sources

Year: 2012 - 2016
References: a. State of Forest (2016), Pakistan Forest Institute, b. FREL (2020), National REDD+ Office
Methods Used: a. Official Records of Chief Conservator of Forests, b. Time Series Analysis

Year: 2016 - 2020
References: a. State of Forest (2016), Pakistan Forest Institute, b. FREL (2020), National REDD+ Office
Methods Used: a. Official Records of Chief Conservator of Forests, b. Time Series Analysis

1c. Annual reforestation

Forest Cover Area (ha)

Categories	Forest Cover Area (ha)
Reforestation	

Data Sources

Year: 2004 - 2008
References: N/A
Methods Used: N/A
Additional comments: Data of annual reforestation was missing for reference years

Year: 2008 - 2012
References: N/A

Methods Used: N/A

Additional comments: Data of annual reforestation was missing for reference years

1d. Other land with tree cover

Forest Cover Area (ha)

Categories	Forest Cover Area (ha)
Fruit Orchards (a)	
Agroforestry (b)	
Trees in urban settings (c)	
Other (specify in comments) (d)	
Total a+b+c+d	

1e. Degradation

Degradation Area (ha/year) · 2016 - 2020

Categories	2016 - 2020
Degradation	27477.25

2. Forest growing stock, biomass and carbon

2a. Growing stock

Growing stock per hectare (m³/ha (over bark))

Categories	Growing stock per hectare (m ³ /ha (over bark))
Natural Forests	
Irrigated Plantations / Man-made forest	
Other land with tree cover (1f)	

Total growing stock (million m³ over bark)

Categories	Total growing stock (million m ³ over bark)
Natural Forests	
Irrigated Plantations / Man-made forest	
Other land with tree cover (1f)	

2b. Growing stock composition by Tree

Natural Forests (million m³ over bark)

Categories	Scientific name	Common name	Growing stock
#1 Ranked in terms of volume	Pinus roxburghii Sargent	Chandan	
#2 Ranked in terms of volume	Prunus fasciculata	Ber	
#3 Ranked in terms of volume	0	0	
#4 Ranked in terms of volume	0	0	
#5 Ranked in terms of volume	0	0	
Total volume of tree species			N.A

Irrigated Plantations / Man-made forest (million m³ over bark)

Categories	Scientific name	Common name	Growing stock
#1 Ranked in terms of volume	0	0	
#2 Ranked in terms of volume	0	0	
#3 Ranked in terms of volume	0	0	
#4 Ranked in terms of volume	0	0	
#5 Ranked in terms of volume	0	0	

Total volume of tree species	N.A
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Other Land with Tree Cover (million m³ over bark)

Categories	Scientific name	Common name	Growing stock
#1 Ranked in terms of volume	0	0	
#2 Ranked in terms of volume	0	0	
#3 Ranked in terms of volume	0	0	
Total volume of tree species			N.A

2c. Biomass stock

Natural Forest Biomass (tonnes/ha)

Categories	Natural Forest Biomass (tonnes/ha)
Above-ground biomass	
Below-ground biomass	
Dead wood	
Soil Carbon	
Litter	
Total	

2d. Carbon stock

Natural Forest Carbon (tonnes/ha)

Categories	Natural Forest Carbon (tonnes/ha)
Carbon in above-ground biomass	
Carbon in below-ground biomass	
Carbon in Dead wood	
Soil Carbon	
Litter	
Total	

2e. Forest Volume

Forest Volume (cu ft.)

Categories	Forest Volume (cu ft.)
Above-ground Volume	

3. Forest designation, management and ownerships

3a. Forest area with management plans

Forest Management Plans (ha)

Categories	Forest Management Plans (ha)
Forest area within protected areas	
Forest area with long-term forest management plan	
of which in protected areas	

Data Sources

Year: 2020

References: State of Forest (2016), Pakistan Forest Institute

Methods Used: Official Records of Chief Conservator of Forests

Additional comments: Data of Forest are within Protected Area is missing for reference years

3b. Forest ownership and management rights

Forest Ownership (ha)

Categories	Forest Ownership (ha)
A. Government Owned	
...State	
...Demarcated	
...Undemarcated	
...Reserved	
...Protected	
...Unclassed	
...Resumed	
B. Private / Community	
...Guzara	
...Communal	
...Section 38	
...Section 14b	
...Chos Act	
...Misc	
C. Private / Individual	
...Misc	
Total A + B + C	

Data Sources

Year: 2016

References: State of Forestry in Pakistan (2016), Pakistan Forest Institute Peshawar

Methods Used: Official Records of Chief Conservator of Forests

Additional comments: Data on records of Private Forests is missing

4. Forest disturbances

4a. Disturbances

Forest Disturbances (ha)

Categories	Forest Disturbances (ha)
Forest Fire (a)	
Insects (b)	
Diseases (c)	
Natural disasters (d)	
Other (specify in comments) (e)	
Total (a+b+c+d+e)	

4b. Degraded forests

Forest Degradation by Canopy Cover (ha/year)

Categories	Forest Degradation by Canopy Cover (ha/year)
Forest Degradation	
...10-30% Canopy Cover	
...31-50% Canopy Cover	
...51-70% Canopy Cover	
...>70% Canopy Cover	

5. Emissions and Removals from Forests

5a. Emissions

Average Annual Emissions (tco2e/year) · 2016 - 2020

Categories	2016 - 2020
Deforestation	12680.5
Forest Degradation	1471630
Disturbances	N.A
Total A+ B + C	1484310.5

Data Sources

Year: 2004 - 2008

References: FREL (2020), National REDD+ Office

Methods Used: Pixel based classification of Landsat Imageries

Additional comments: Data of Removals was not calculated for reference years

Year: 2008 - 2012

References: FREL (2020), National REDD+ Office

Methods Used: Pixel based classification of Landsat Imageries

Additional comments: Data of Removals was not calculated for reference years

5b. Removals

Average Annual Removals (tco2e/year) · 2016 - 2020

Categories	2016 - 2020
Enhancement	392157.5
SFM	N.A
Conservation	N.A
Total A+ B + C	392157.5

Data Sources

Year: 2004 - 2008

References: N/A

Methods Used: N/A

Additional comments: Data of Removals was not calculated for reference years

Year: 2008 - 2012

References: N/A

Methods Used: N/A

Additional comments: Data of Removals was not calculated for reference years

5c. Net Emissions/Removals

Net average annual emissions / removals (tco2e/year) · 2016 - 2020

Categories	2016 - 2020
A. Total Emissions	1484310.5
B. Total Removals	392157.5
Net A-B	1092153

6. Timber Fuelwood Supply

6a. Timber and Fuelwood Supply

Timber and Fuelwood Supply (Million (m3))

Categories	Timber and Fuelwood Supply (Million (m3))
Share of State Forests	
...Industrial Wood Timber	
...Fuel Wood (domestic + commercial + industrial)	

Share of Farmlands
...Industrial Wood Timber
...Fuel Wood (domestic + commercial + industrial)
Imports
...Industrial Wood Timber
...Fuel Wood (domestic + commercial + industrial)
Total A+B+C

6b. Forest products and value

Non Woody Forest Products

Year	Product	Key species	Quantity	Unit	Rate
	Total				

7. Forestry Students and Employees

7a. Graduation of students in forest-related education

Student Graduation

Categories	Total	Female	Male
Doctoral degree			
Master's degree			
Bachelor's degree			
Technician certificate / diploma			
Total			