

# Metadata – Basal Area Mapping of Trees in Baljurashi Governorate, Al Bahah Region, Saudi Arabia

## Part 1: Basic Metadata (Mandatory)

### 1.01 Thumbnail

Prepare small thumbnail that represents this dataset. Create and save thumbnail. Insert thumbnail in the space provided and indicate the file name.

Create and save thumbnail	Enter file name

### 1.02 – Title

Descriptive title for this data. Should provide sufficient information to external users.

Enter Data Title

**Basal Area Mapping of Trees in Baljurashi Governorate, Al Bahah Region, Saudi Arabia**

### 1.03 – Abstract

Provide a short and concise abstract which summarizes what this data is about. Similar to the abstracted provided in a scientific paper.

Enter data abstract

**This map presents the spatial distribution of tree basal area ( $m^2/ha$ ) across Baljurashi Governorate. Basal area values were derived from field-measured diameter at breast height (DBH) data and calculated per plot using standard forestry equations. The dataset highlights variations in stand density and forest structure, with mapped averages ranging from sparse to dense tree cover. The data supports biomass estimation, forest monitoring, and land management decisions by providing a measure of stand occupancy and growth potential.**

### 1.04 – Date type

Provide all three type of dates - Creation date, Publication date, and Revision date.

Identification of when a given event occurred

<b>Creation</b>	<b>2024</b>
<b>Publication</b>	<b>2025</b>
<b>Revision</b>	<b>2023</b>
<b>relevant date</b>	<b>2023</b>

### 1.05 – Group

The group, department or unit to which this data belongs.

**Enter group name**

**Registered Members,**  
**FAO Spatial Data Group,**  
**Natural Resources Management Component NRM - FAO KSA**

### 1.06 – Category

Provide one primary category to which this data belong.  
Select from the list provided. Possible categories related to the SRADP project are highlighted in green color.

**Field declared Mandatory by the Metadata Schema**

**Select one of the following : (highlighted by Yellow)**

Imagery Base Maps Earth Cover	Basal Area
Society	Al Bahah, Baljurashi
Economy	Governorates
Utilities Communication	Vegetation cover
<b>Environment</b>	Remote sensing
Oceans	Forestry
<b>Biota</b>	Natural resources
Health	Environment
Elevation	-
Geoscientific Information	-
Planning Cadastre	-
Inland Waters	-
Boundaries	-
Structure	-
Transportation	-
Intelligence Military	-
Location	-
Climatology Meteorology Atmosphere	-
Farming	-
Population	-

### 1.07 – Free-text Keywords

Keywords helps Search Engines such as Google find data requested by users. Use FAO AGRIS to select the most appropriate keywords for this data. To make the data discoverable, provide a minimum of 5 keywords.

A space or comma-separated list of keywords. Use the Widget to select from Hierarchical tree.

**REQUIRED:** Common-use word or phrase used to describe the subject of the data set. **(Provide 5 keyword minimum)**

## Part 2: Location and Licenses (Mandatory)

### 2.01 Language

*Provide data language*

*Language used within the dataset*

**Enter data language**

**English**

### 2.02 License

*Provide the type of license under which this data is published and intended to be used.*

*License of the Dataset*

**Select one of the following License: (highlighted by Yellow)**

NextView

**Not Specified**

Open Data Commons Open Database License / OSM

Public Domain

Public Domain / USG

Varied / Derived

Varied / Original

### 2.03 Attribution

*Identify the entity or agency with authority and responsibility over this data.*

*Authority or function assigned, as to a ruler, legislative assembly, delegate, or the like.*

**\*Field declared Mandatory by the Metadata Schema**

**Enter attribution for this data**

**The Geospatial Department of the Food and Agriculture Organization (FAO) of the United Nations in Saudi Arabia, in collaboration with the NCVC, produced this dataset. Tree density data were provided by NCVC. No reproduction, modification, or redistribution is permitted without prior approval from FAO and NCVC.**

### 2.04 Regions

*Identify the region that the data covers. You can provide several regions.*

**Enter global or specific regions**

**Al Bahah Region, Kingdom of Saudi Arabia**

## 2.05 Data quality statement

*Statement on the data quality. This allows any known issue about the data quality to be documented and shared with data user so that they can use the data appropriately.*

**Provide data quality statement**

**Basal area values were computed from DBH field data and verified with GIS-based spatial interpolation. Results are approximate and suitable for reference and management planning. Official adoption requires FAO–NCVC approval.**

## 2.06 Restrictions

*Indicate any know restriction on this data. You could consideration the following when assessing data restriction:*

- (1) Exclusive right to the publication, production, or sale of the rights to a literary, musical, or artistic work, or to the use of a commercial print or label, granted by law for a specified period of time to an author, composer, artist, distribution*
- (2) Rights to financial benefit from and control of distribution of non-tangible property that is a result of creativity*
- (3) Formal permission to do something*
- (4) Government has granted exclusive right to make, sell, use or license an invention or discovery*
- (5) Produced or sold information awaiting a patent*
- (6) Withheld from general circulation or disclosure*
- (7) Name, symbol, or other device identifying a product, officially registered and legally restricted to the use of the owner or manufacturer*
- (8) Other restrictions*

*Limitations Placed upon the access or use of the data*

*\* Field declared Mandatory by the Metadata Schema*

**Enter any know data use restriction information**

**(3) Formal permission to do something**

***This data can be used for presentation and View, if there is any kind of modification, coordination with the GIS Department in organization's office in Saudi Arabia is required.***

## 2.07 Other constraints

*Identify any other constrains on this data that would be important to document and share with the data users*

**Enter other constrains on this data**

*Basal area values are aggregated per polygon and may not capture seasonal or interannual variability.*

### Part 3: Other Data Description (Optional)

#### 3.01 Edition

*If the data is linked or resulting from work that has editions, indicate the edition for this dataset.*

*Version of the cited resource*

**Enter Edition**

*Version 1*

#### 3.02 DOI

*The DOI (Digital Object Identifier) will be assigned by the Metadata Administrator.*

*DOI will be added by Admin before publication*

**Create and enter the data DOI**

### 3.03 Purpose

*The purpose for which this dataset and related studies were undertaken.*

**Provide data purpose**

*To map and quantify forest basal area in Baljurashi, supporting carbon stock estimation, forest management, and sustainable land-use planning.*

### 3.04 Maintenance frequency

*The frequency for data update.*

*Frequency with which modifications and deletions are made to the data after it is first produced*

**Select one of the following : (highlighted by Yellow)**

*Frequency of maintenance for the data is not known*

*Data is repeatedly and frequently updated*

*There are no plans to update the data*

*Data is updated each day*

*Data is updated every year*

***Data is updated as deemed necessary***

*Data is updated each month*

*Data is updated every two weeks*

*Data is updated in intervals that are uneven in duration*

*Data is updated on weekly basis*

*Data is updated twice each year*

*Data is updated every three months*

### 3.05 Spatial representation type

*How the spatial data is presented, Method used to represent geographic information in the dataset*

**Select one of the following : (highlighted by Yellow)**

*Grid data is used to represent geographic data*

*Three-dimensional view formed by the intersecting homologous rays of an overlapping pair of image*

*Textual or tabular data is used to represent the geographic data*

*Triangulated irregular network*

***Vector data is used to represent geographic data***

*Scene from a video recording*

### 3.06 Supplemental information (Remarks)

*Provide any additional supplemental information about this data that could help the user when using this data*

**Enter supplemental information / Remarks**

- $< 5 \text{ m}^2/\text{ha}$  (Low)
- $5\text{--}15 \text{ m}^2/\text{ha}$  (Medium)
- $15 \text{ m}^2/\text{ha}$  (High)

### 3.07 Temporal extent Start and End

Provide temporal extent start and end that may have bearing on this data.

Temporal extent start		Temporal extent end	
Date	Time	Date	Time
Enter temporal start date	Enter temporal start time	Enter temporal end date	Enter temporal end time

### 3.08 Responsible Parties / Point of Contact

Who can be contacted about this data? This is usually the metadata administrator.

**Admin Name**

Enter Metadata Admin

Dr. Njeru Jeremiah – Chief Technical Advisor of Natural Re Management NRM – FAO KSA

Dr. Ouerchefani, Dalel - TECHNICAL ADVISER, FAOSA

Mr. Gabriel Vincent Sanya - GISRS and Land Cover Mapping Expert -FAOSA

Mr. Haitham Abdullah – GIS Specialist – FAO KSA

### 3.09 Responsible and Permissions / Owner

Who is the responsible over this data? This is usually the person that led or supported the creation of the data

**Data Responsible / Owner**

Enter data owner

FAO

NCVC Geo-Spatial Unit

MoEWA

### 3.10 Metadata Author

Who is the author of the metadata? This is usually the person that led or supported the creation of the data.

**Data Responsible / Owner**

Enter Metadata Admin

GIS Department in Food and Agriculture Organization of the United Nations (FAO) in Saudi Arabia

## Part 4: Part 4 - Data Attributes (Optional)

### 4.01 Key data features and attributes

Detailed description of the data layer features and attributes will be provide in a separate custom template for data features and attributes description. Here, the key features and attributes (objects) for this data are provided.

#### Description of key features and attributes

Attribute / Feature	Description
<i>Enter the attributes of this Layer</i>	<i>Enter the description of the attributes</i>
<i>OBJECTID</i>	<i>Unique identifier for each record</i>
<i>x</i>	<i>Longitude in decimal degrees (WGS84)</i>
<i>y</i>	<i>Latitude in decimal degrees (WGS84)</i>
<i>BasalArea</i>	<i>Calculated basal area of trees at the sampling point, expressed in square meters (m<sup>2</sup>). Represents the cross-sectional area of tree stems at breast height.</i>
<i>fld_name</i>	<i>Field code (BasalArea)</i>
<i>fld_title</i>	<i>Field title (Basal Area)</i>
<i>fld_unit</i>	<i>Measurement unit: m<sup>2</sup></i>
<i>min_val</i>	<i>Minimum observed basal area in the dataset (0 m<sup>2</sup>)</i>
<i>max_val</i>	<i>Maximum observed basal area in the dataset (0.20305 m<sup>2</sup>)</i>
<i>data_pt</i>	<i>Total number of field plots (418) used for calculations</i>
<i>region</i>	<i>Albaha (Baljurashi Governorate)</i>
<i>country</i>	<i>Saudi Arabia</i>