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Crop Storage Location Score: Fruits and Nuts (Nepal - ~ 1Km)

The raster dataset consists of a 1km score grid for fruits and nuts storage location, produced under the scope of FAO's Hand-in-Hand Initiative, Geographical Information Systems - Multicriteria Decision Analysis for value chain infrastructure location.

The location score is achieved by processing sub-model outputs that characterize logistical factors for selected crop warehouse location:
• Supply: Crop.
• Demand: Human population density, Major cities population (national and bordering countries).
• Infrastructure/accessibility: main transportation infrastructure.

It consists of an arithmetic weighted sum of normalized grids (0 to 100):
("Crop Production" * 0.4) + ("Human Population Density" * 0.2) + ("Major Cities Accessibility" * 0.3) + ("Regional Cities Weighted Accessibility" *0.1)
Completed

Download and links

NPL_Score_FruitsandNuts.zip

Zipped TIF raster file for fruits and nuts location score (Nepal - ~ 1Km)

https://storage.googleapis.com/fao-maps-catalog-data/projects/HIH/MCDA/Nepal/NPL_Score_FruitsandNuts.zip

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WMS

npl_score_fruitsandnuts

Crop storage location score: Fruits and nuts (Nepal)

This dataset is published in the view service (WMS) available at https://data.apps.fao.org/map/gsrv/edit/npl_hih_mcda/wms.

Add service layer to map

Associated resources

Crop Storage Final Location: Fruits and Nuts (Nepal - ~ 1Km)

The 1km raster dataset represents top location score areas filtered by exclusive criteria: access to finance, distance to major roads and access to IT. The layer is produced under the scope of FAO's Hand-in-Hand Initiative,... more...

Child record

About this resource

Categories	Maps & graphics Datasets Transportation Economy Farming
Continents, countries, sea regions of the world.	• Asia • Nepal
Other keywords	• Accessibility • Logistics • Infrastructure • Warehouse • Crops • GIS • MCDA • Hand-in-Hand
Language	• English
Legal constraints	Creative Commons Attribution 4.0 https://creativecommons.org/licenses/by/4.0/legalcode
Contact for the resource	*FAO-UN* • *Author:* *Andry Rajaoberison*
Status	• Completed

Technical information

Update frequency	Not planned
Representation type	• Grid
Resolution	• 1 km
Coordinate reference system	• WGS 1984
Format	TIF
Lineage	Major data sources, FAO GIS platform Hand-in-Hand and OpenStreetMap (open data) including the following datasets: 1. Human Population Density 2020 – WorldPop2020 - Estimated total number of people per grid-cell 1km. 2. Global Agro-Ecological Zones V4 (GAEZ) - Actual Yields and Production 2010 3. OpenStreetMap.

Source datasets

Accessibility: Travel Time-Cost to Cities (Nepal ~ 1Km)

Accessibility to cities dataset is modeled as raster-based travel time/cost analysis. The model travel time/cost from/to cities is defined as the OpenStreetMap national capital, cities, and towns within Nepal. This 1km resolution raster dataset is... more...

Source dataset

Accessibility: Travel Time-Cost to Regional Cities (Nepal ~ 1Km)

Accessibility to regional cities dataset is a raster-based analysis to calculate the travel time/cost to regional cities. Regional cities are defined as OpenStreetMap cities within a 500km radius, within the Nepal border. This 1km resolution... more...

Source dataset

Crop Production (derived from GAEZ v4 for 2015)

This dataset is one derivative product from GAEZ v4 for year 2015 that includes gridded (5-arcminute resolution) irrigated and rainfed crop harvested area and crop yield for 26 different crops/crop categories (please see GAEZ_2015_Dimension_crops.csv for... more...

Source dataset

Human Population Density (Global - Annual - 1 km)

Estimated density of people per grid-cell. The units are number of people per Km² per pixel. The mapping approach is Random Forest-based dasymetric redistribution. The WorldPop project was initiated in October 2013 to combine the... more...

Source dataset

Metadata information

Download metadata

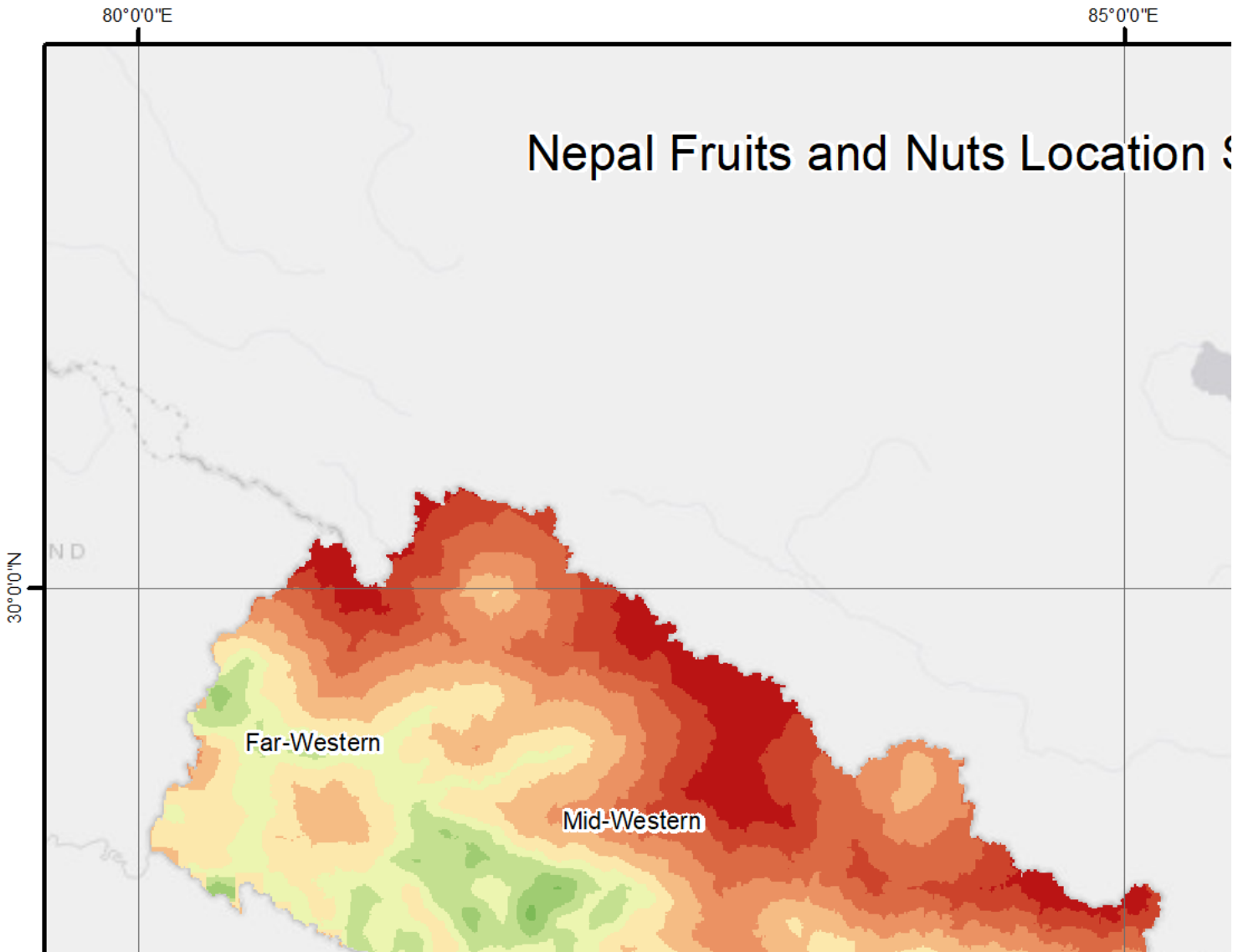|	**FAO-UN**
Contact	• *Point of contact:* *FAO-Data*
Metadata language	• English
Identifier	8268b59c-9ea7-47fa-a05e-14e745452f7d

Overview

West

Central

UTTAR PRADESH

BIHA

Location Score

High

Low

25°0'0"N

Layers:
Fruits and Nuts Production (0.4)
Accessibility to cities (0.3)
Accessibility to regional cities (0.1)
Population Density (0.2)

ESRI, C

80°0'0"E   85°0'0"E
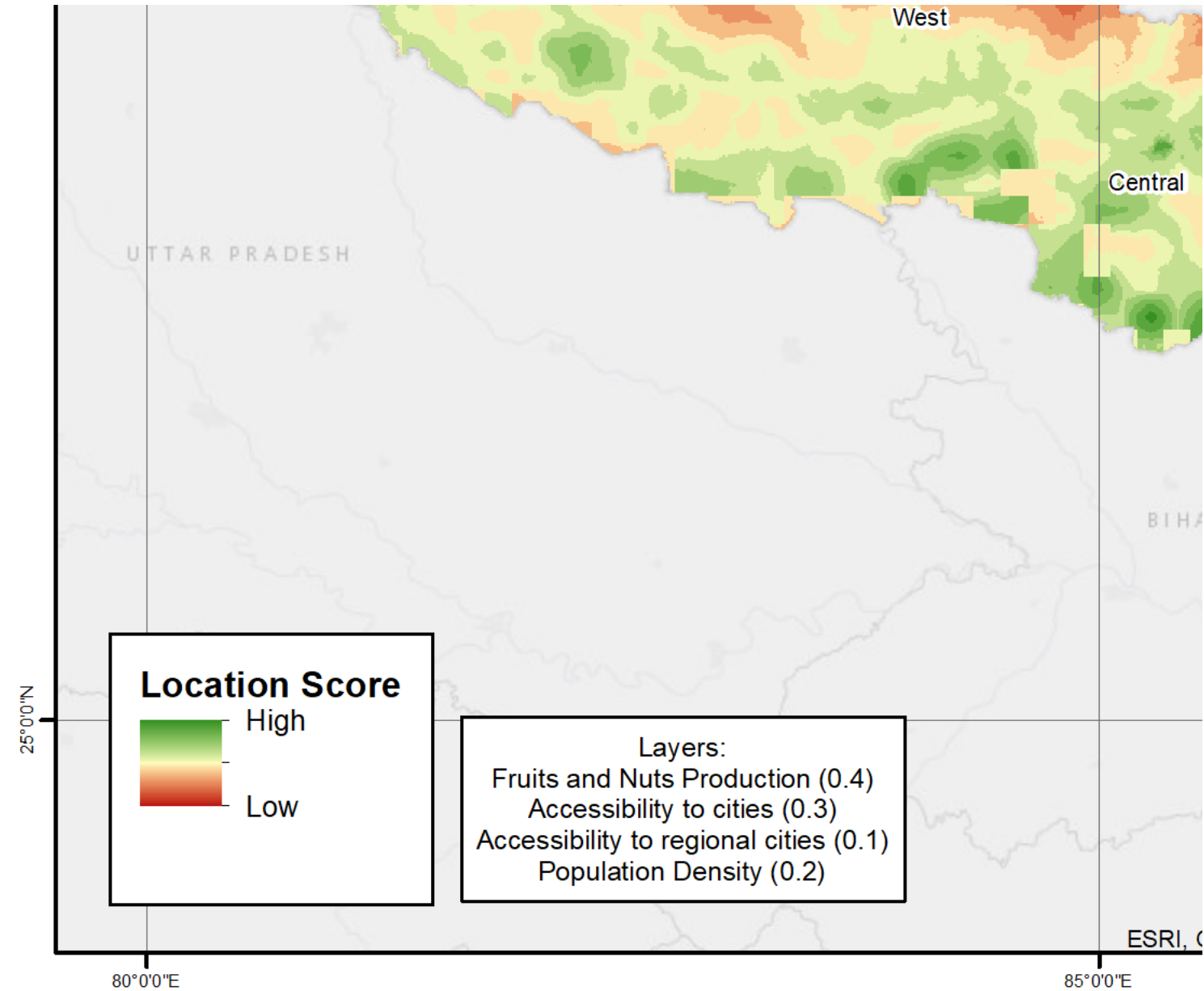
Thumbnail: Crop Storage Location Score: Fruits and Nuts (Nepal - ~ 1Km)

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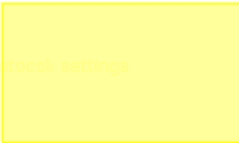☐ Show my username in reviews and ratings

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