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## Slaughterhouse Location Score: Goat and Sheep (Tajikistan - ~ 1Km)

The raster dataset consists of a 1km score grid for slaughter house industry facilities siting, produced under the scope of FAO's Hand-in-Hand Initiative, Geographical Information Systems - Multicriteria Decision Analysis for value chain infrastructure location.

The analysis is based on goat and sheep production intensification potential defined using crop production, livestock production systems and goat and sheep herd density.

The score is achieved by processing sub-model outputs that characterize logistical factors:

1. Supply - Feed, livestock production systems, dairy herd distribution.
2. Demand - Human population density, large cities, urban areas.
3. Infrastructure - Transportation network (accessibility)

It consists of an arithmetic weighted sum of normalized grids (0 to 100):

(“Crop Production” \* 0.2) + (“Human Population Density” \* 0.2) + (“Major Cities Accessibility” \* 0.3) + (“goat and sheep Intensification” \* 0.3)

Completed

### Download and links

WMS

[tjk\\_score\\_slaughterhouse\\_goatandsheep](#)

Slaughter House Location Score: Goat and Sheep (Tajikistan - ~ 1Km)

This dataset is published in the view service (WMS) available at [https://data.apps.fao.org/map/gsrv/edit/hih\\_analysis/wms](https://data.apps.fao.org/map/gsrv/edit/hih_analysis/wms) with layer name [tjk\\_score\\_slaughterhouse\\_goatandsheep](#).

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Slaughter House Location Score: Goat and Sheep (Tajikistan - ~ 1Km)

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### Associated resources

<https://data.apps.fao.org/map/catalog/srv/eng/catalog.search#/metadata/1ac25a36-1dc6-48cf-a5f5-2e7c84fb7653>

## Slaughterhouse Final Location: Goat and Sheep (Tajikistan - ~1Km)

The 1km raster dataset represents selected top location score areas filtered by exclusive criteria: access to finance, distance to major roads, access to IT, and distance to urban areas. The layer was produced under the... [more...](#)

[Child record](#)

### About this resource

#### Categories

[Maps & graphics](#) [Datasets](#) [Transportation](#) [Economy](#) [Farming](#)

#### Continents, countries, sea regions of the world.

- Tajikistan
- Asia

#### Other keywords

- Logistics
- Infrastructure
- Slaughter house
- Livestock
- GIS
- MCDA
- Hand-in-Hand

#### Language

- English

#### Legal constraints

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#### FAO-UN

#### Contact for the resource

- Author:  
[Daria Nesterenko](#)

#### Status

- Completed

### Technical information

#### Update frequency

Not planned

#### Representation type

- Grid

#### Resolution

- 1 km

#### Coordinate reference system

- WGS 1984

#### Format

TIF

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. Mapspam Production – IFPRI's Spatial Production Allocation Model (SPAM) estimates of crop distribution within disaggregated units.

3. GLW Gridded Livestock of the World - Gridded Livestock of the World (GLW 3 and GLW 2)

4. Global Livestock Production Systems v.5 2011.

5. OpenStreetMap.

### Source datasets

#### Accessibility: Travel Time-Cost to Major Cities (Tajikistan - ~1Km)

Accessibility to major cities dataset is modelled as raster-based travel time/cost analysis, computed for the 11 largest cities (>40k habitants) in the country. The following cities are included: City - Population Dushanbe - 831,400 Hissar... [more...](#)

[Source dataset](#)

#### Global Livestock Production Systems v.5 2011

The global livestock sector is rapidly changing in response to globalization and growing demand for animal-source foods, driven by population growth and increasing wealth in much of the developing world. As well as the many... [more...](#)

[Source dataset](#)

## GLW: The Gridded Livestock of the World Project

The Gridded Livestock of the World (GLW) is a global livestock mapping project by the Food and Agriculture Organization's Animal Production and Health Division (FAO-AGA). It describes the global spatial distribution of cattle, buffaloes, sheep,... [more...](#)

[Source dataset](#)

## Human Population Density (Global - Annual - 1 km)

Estimated density of people per grid-cell. The units are number of people per Km<sup>2</sup> 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](#)

## Production by crop - MapSPAM (Global)

This dataset is one of the key indicators of the Global Spatially-Disaggregated Crop Production Statistics Data (MapSPAM) for 2010, which includes physical area, harvest area and yield, for 42 crops — disaggregated at the input-levels... [more...](#)

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## Metadata information

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**Metadata language**

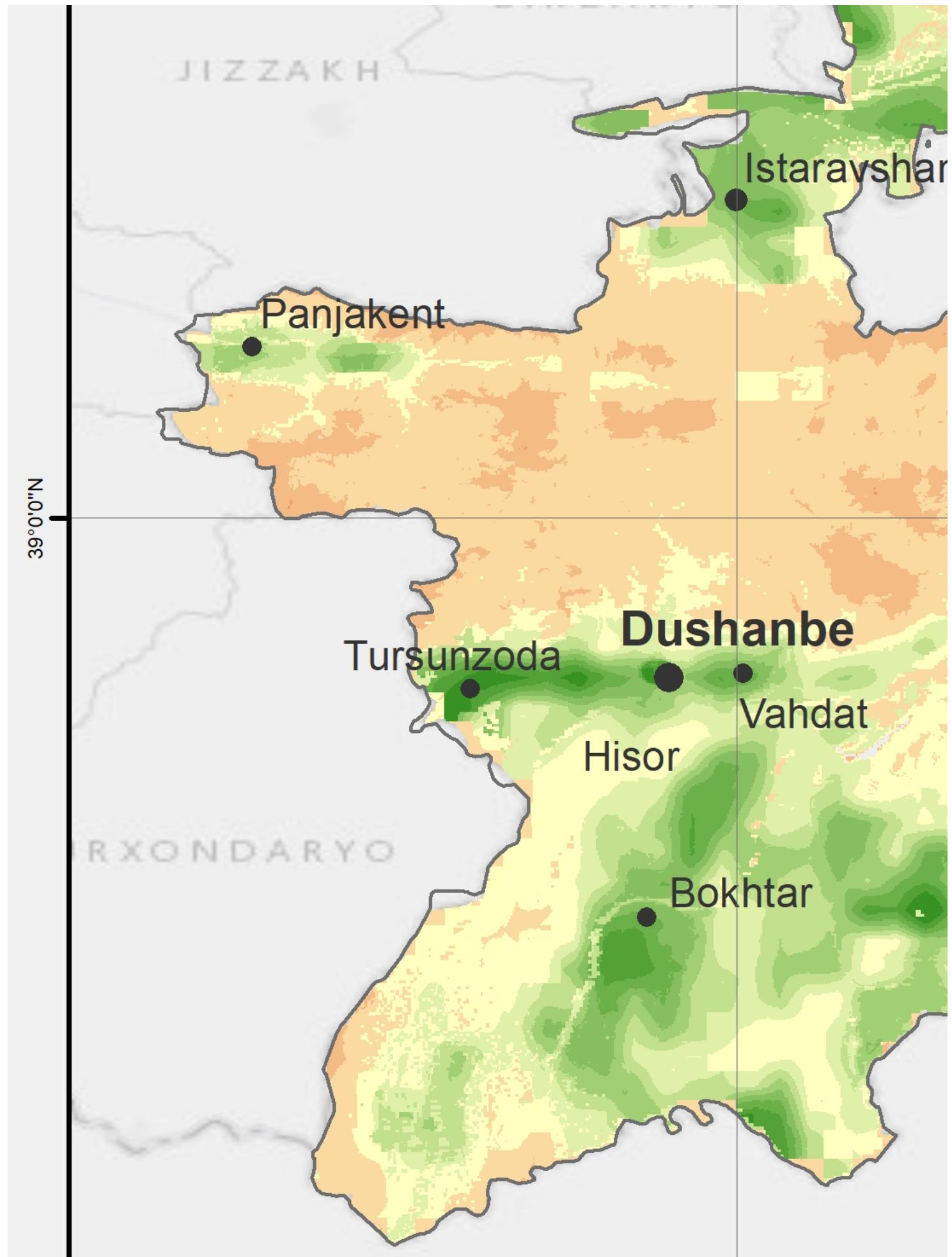
- English

**Identifier**

1ac25a36-1dc6-48cf-a5f5-2e7c84fb7653

## Overview







0 25 50 100 Kilometers

69°0'0"E

Sources: UN Map, MapSpam, OpenStreetMap, WorldPop, Gridded Liv  
Production Systems. Creation date: September 2021

Thumbnail: Slaughter House Location Score: Goat and Sheep (Tajikistan- ~ 1Km)

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## Temporal extent

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