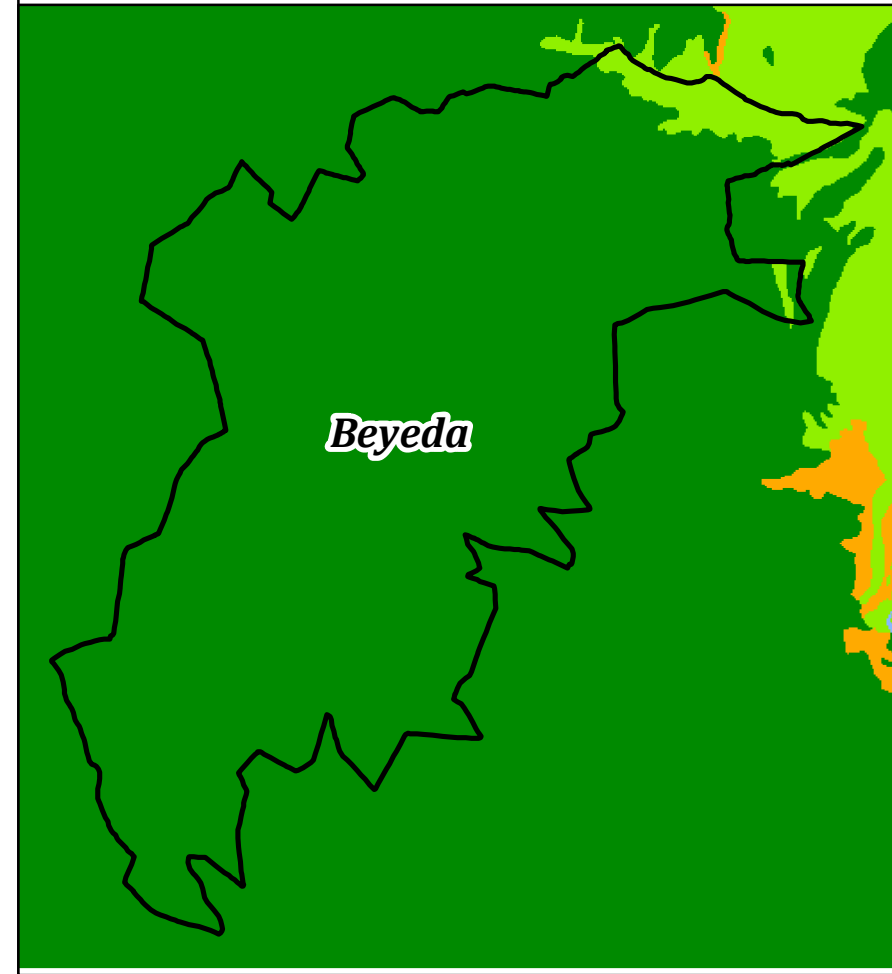
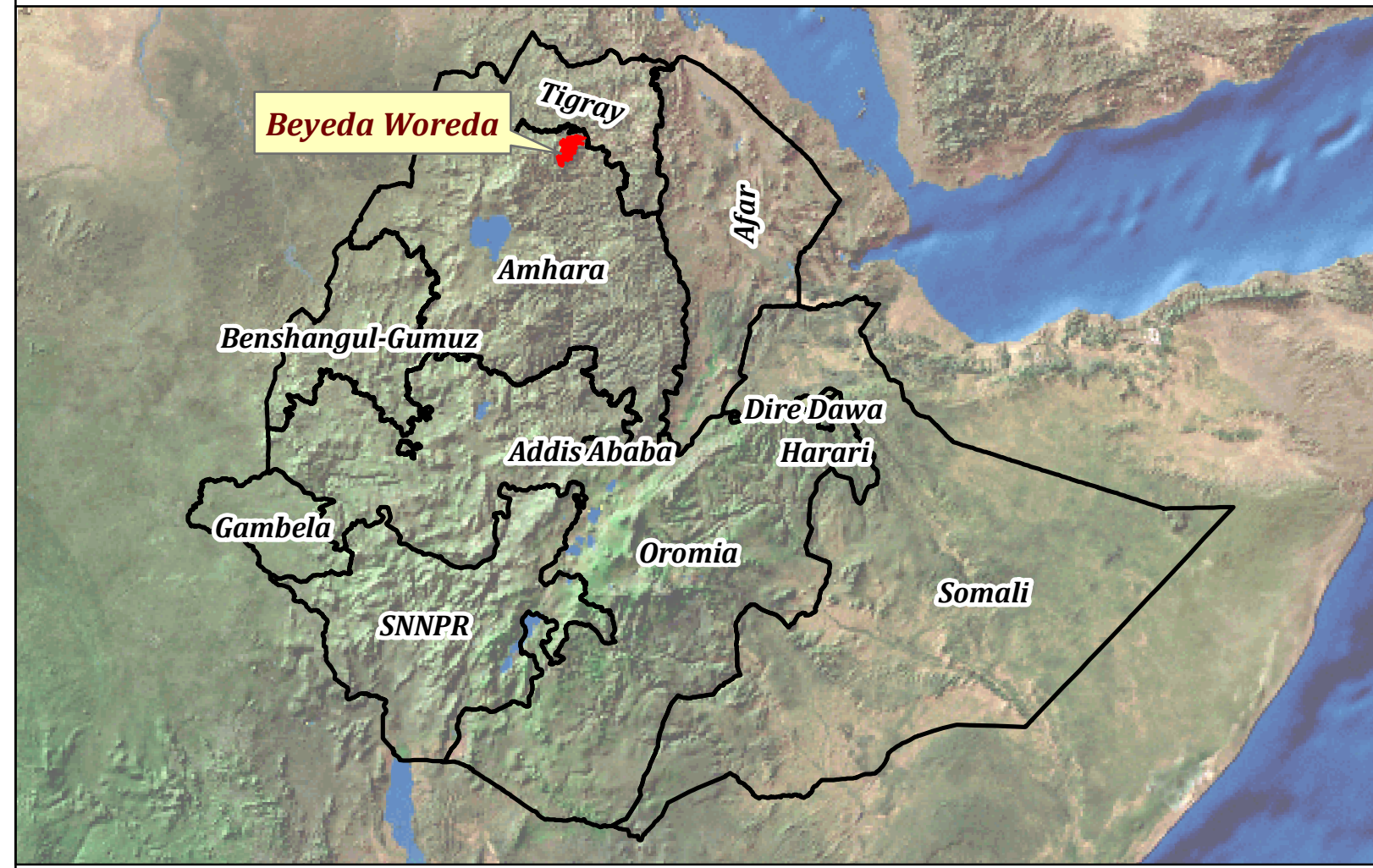


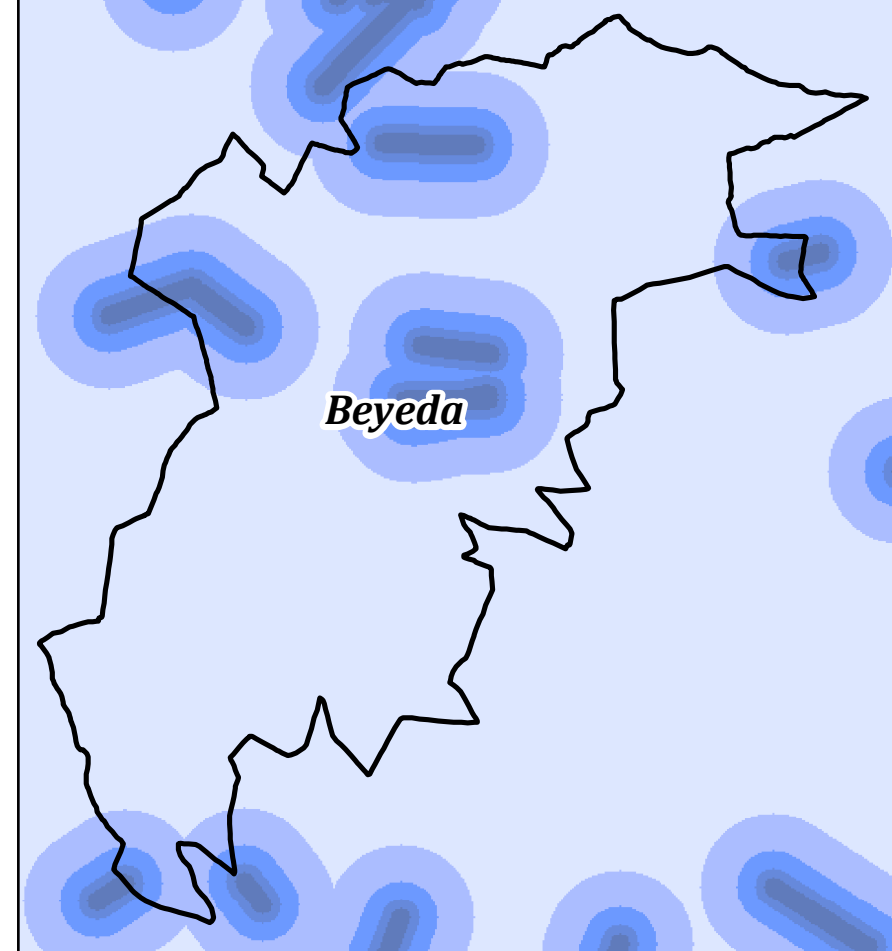
**INSET MAPS**



**Aquifer Class Map**

**Aquifer Class**

- Intergranular aquifers, moderately productive
- Fissured aquifers, moderately productive
- Fissured aquifers, low productive
- Minor aquifers

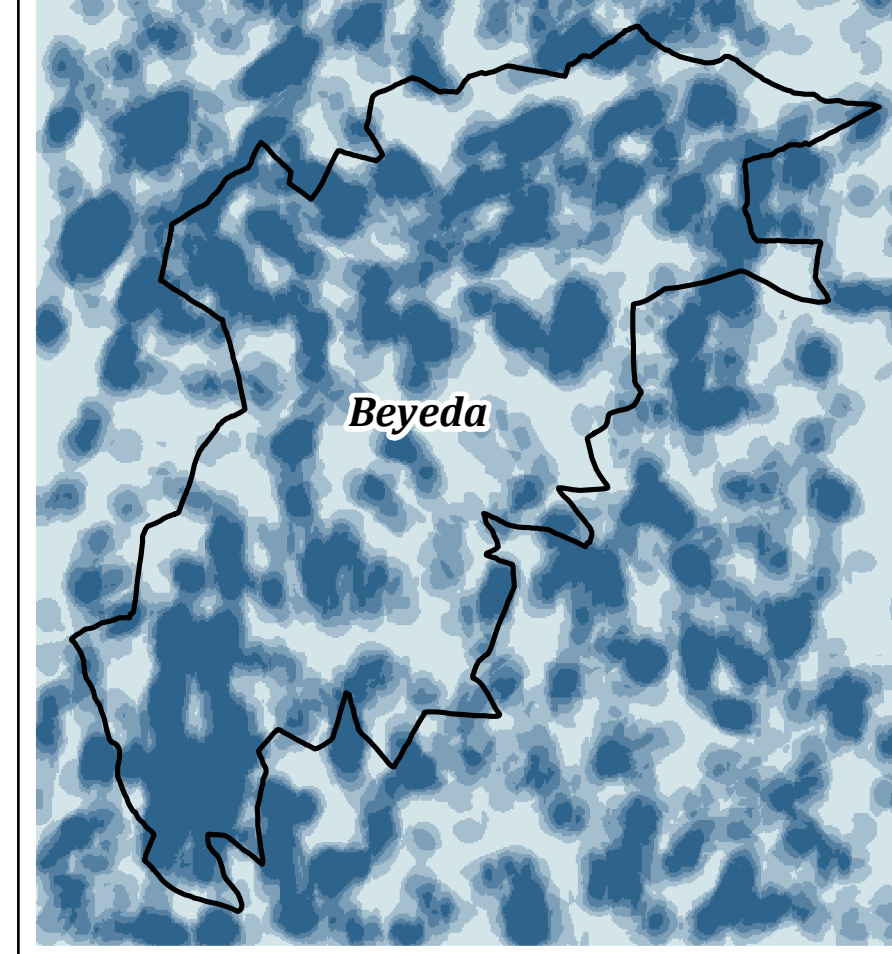


**Lineament Proximity Map**

Suitability increases with higher proximity to lineaments (Open spaces holding and transmitting groundwater).

**Proximity (m)**

- 0 - 500
- 500 - 1,000
- 1,000 - 2,000
- 2,000 - 4,000
- > 4,000

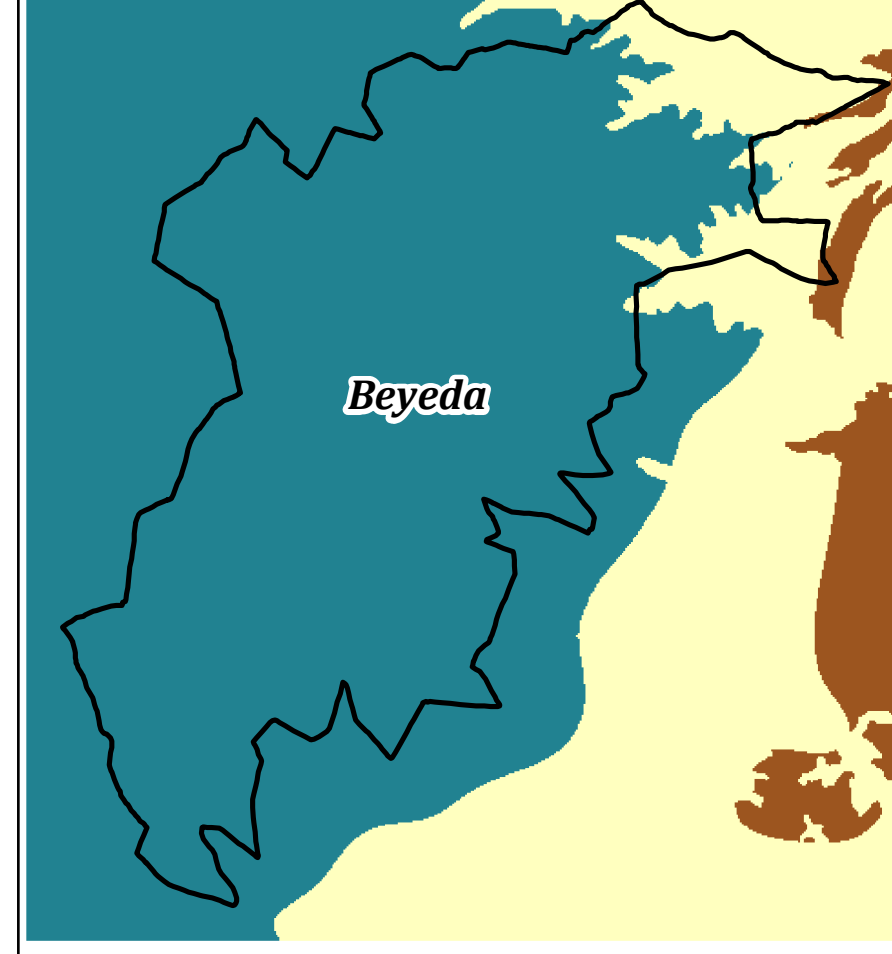


**Lineament Density Map**

Suitability increases with higher lineament, joint and fault densities

**Lineament Density (km/km<sup>2</sup>)**

- 0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- 1.2 - 5.6



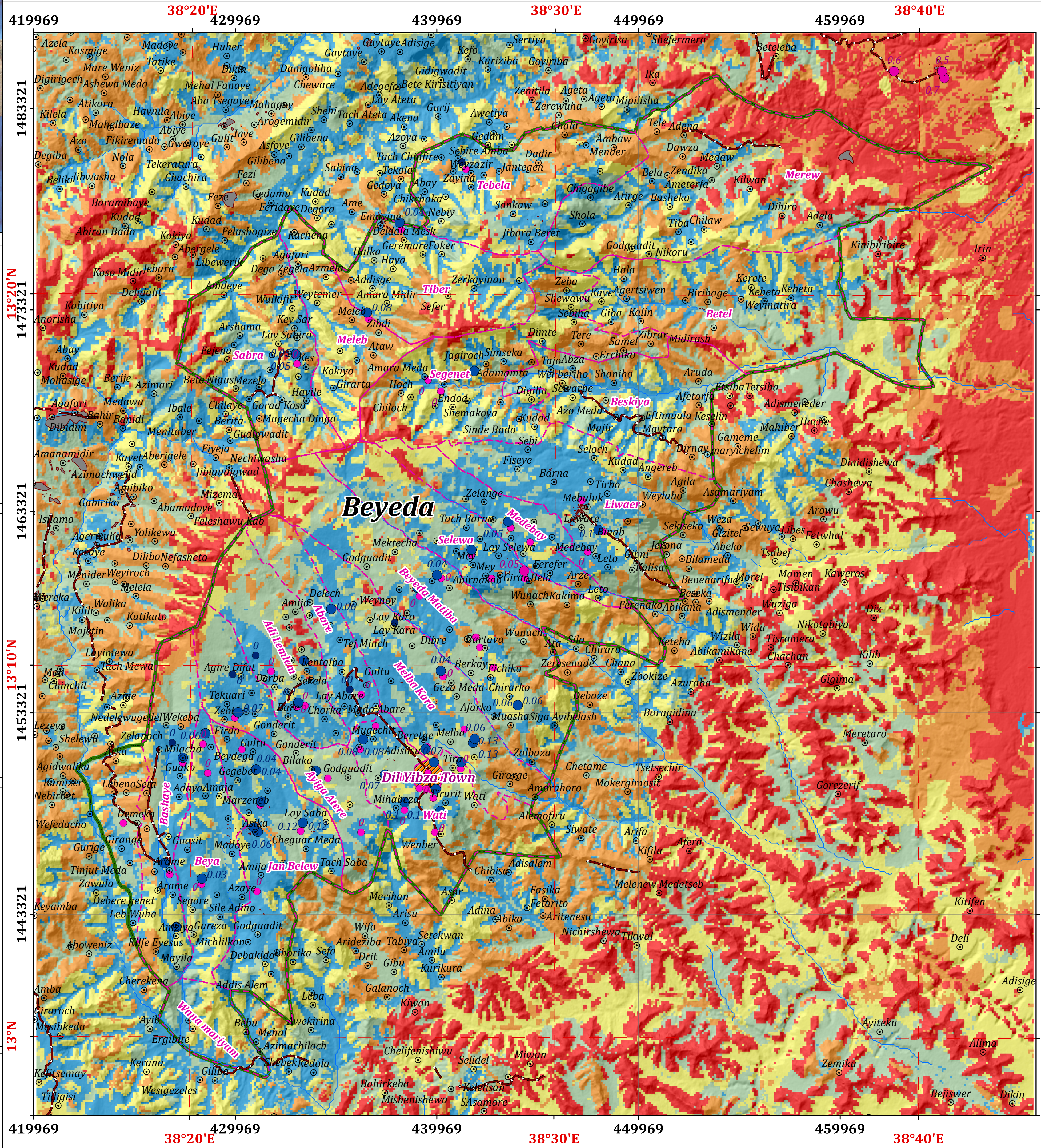
**Recharge Map**

Suitability increases with increasing recharge.

**Recharge (mm/y)**

- 44.1 - 50
- 50 - 100
- 100 - 185.6

**GROUNDWATER POTENTIAL MAP OF BEYEDA WOREDA**



**Legend**

**Groundwater Suitability Index**

- Unsuitable
- Low
- High
- Very Low
- Moderate

**Other Symbols**

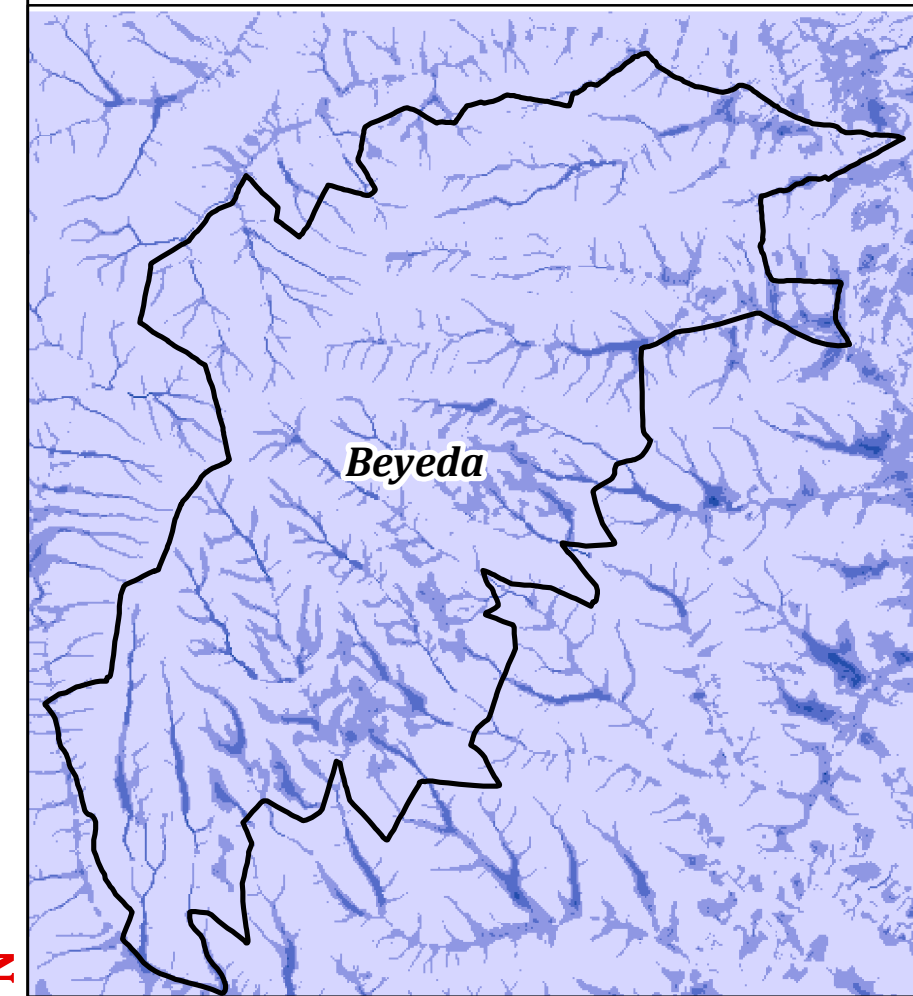
- Locality
- Main Road
- Drainage
- Woredas Boundary
- ▨ Town
- Built-Up Areas
- - - Kebele Boundary

**Well Yield (l/s)**

- No data
- 2 - 5
- < 1
- 5 - 10
- 1 - 2
- > 10

**Spring Yield (l/s)**

- No data
- 2 - 5
- < 1
- 5 - 10
- 1 - 2
- > 10

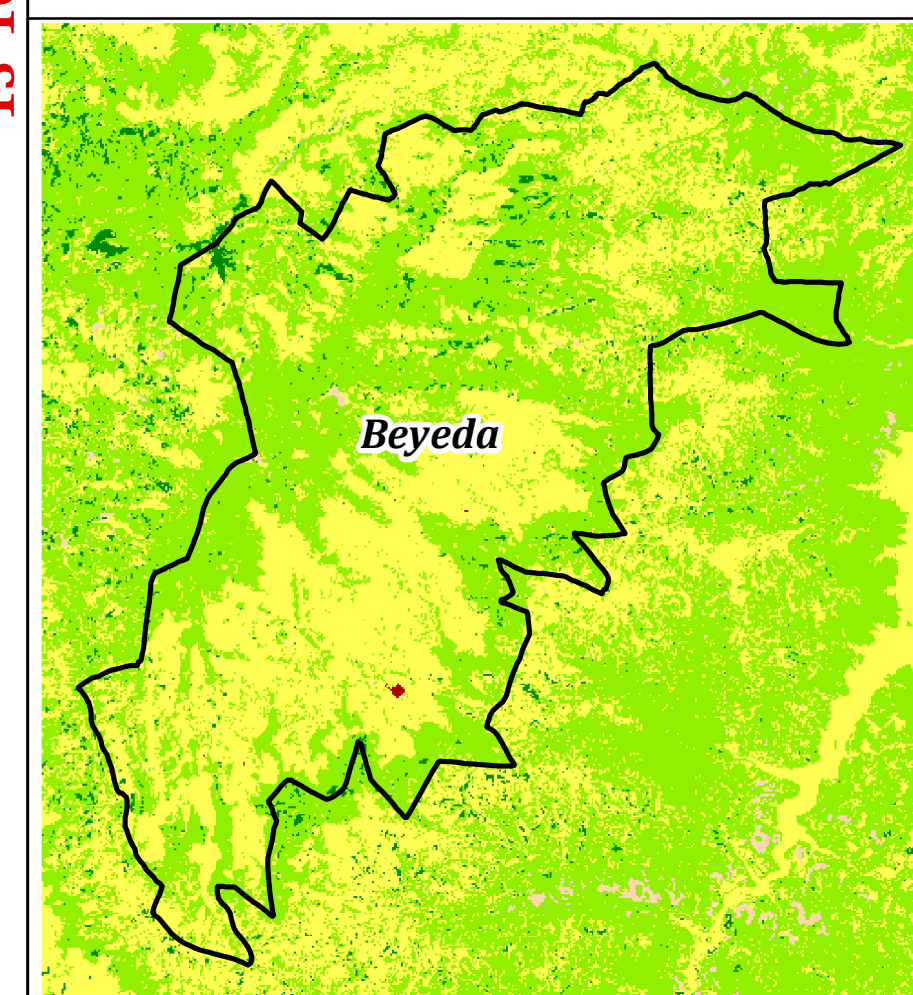


**Topographic Wetness Index Map**

Suitability increases with increasing TWI

**TWI Value**

- <= 12
- 12 - 14
- 14 - 16
- 16 - 18
- > 18

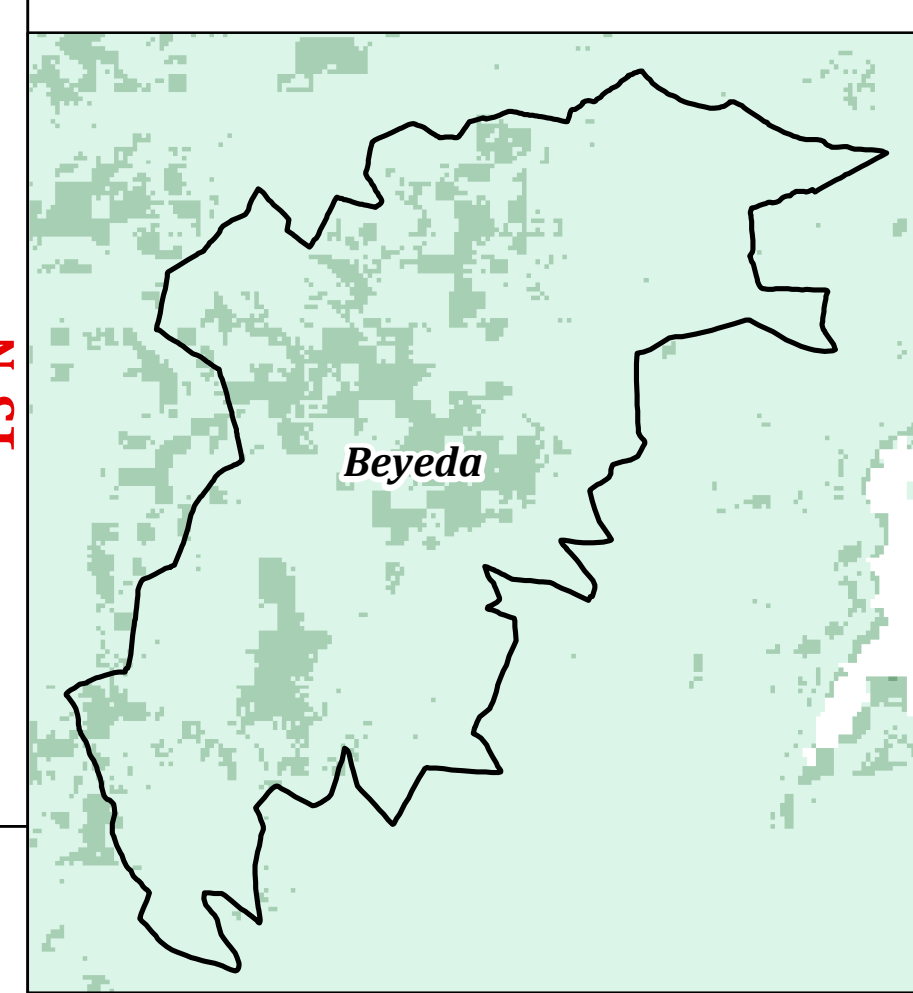


**Landuse/Land Cover Map**

Areas covered by crop land are more contributory to suitability with bush land and forest classified as moderate while urban and degraded lands are poorly contributory.

**LULC**

- Urban/Built up areas
- Irrigated Land
- Forest
- Degraded land/Bare Land
- Cropland
- Bush/rangeland



**Saturated Conductivity Soil Map**

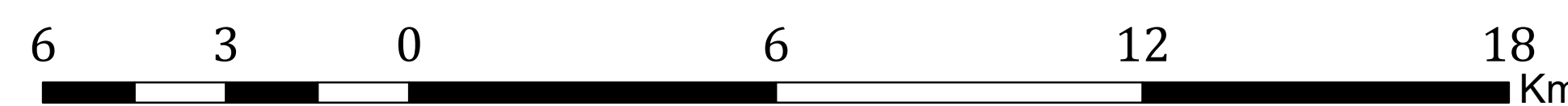
Suitability increases with increasing saturated conductivity of soil

**ksat (cm/d)**

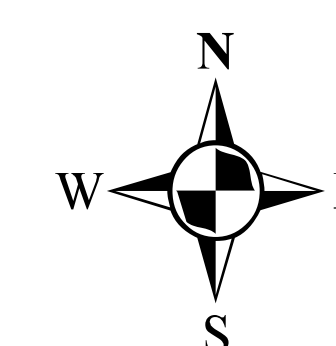
- <= 29
- 29 - 31
- 31 - 34
- 34 - 36
- > 36

Horizontal Datum: WGS 1984  
Vertical Datum: Mean sea level  
Projection: Universal Transverse Mercator, Zone 37N

Administrative boundaries: CSA 2007  
Built-up areas: Sentinel-2, Openstreetmap 2021



Scale: 1: 100,000



**HYDROGEOLOGICAL MAPPING FOR CLIMATE RESILIENT WASH IN ETHIOPIA - LOT-1**

