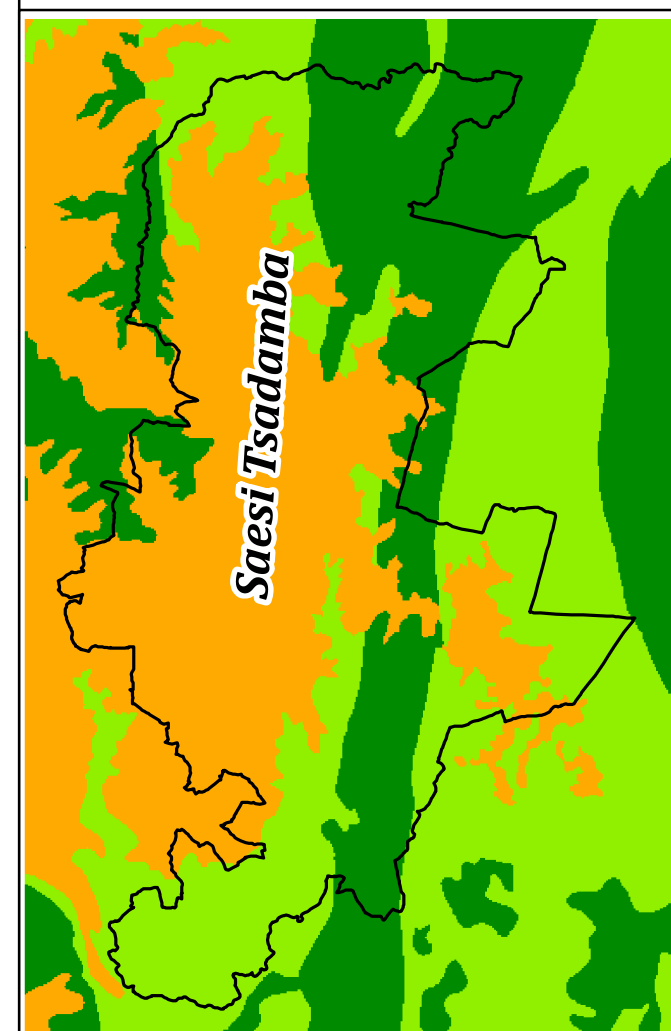
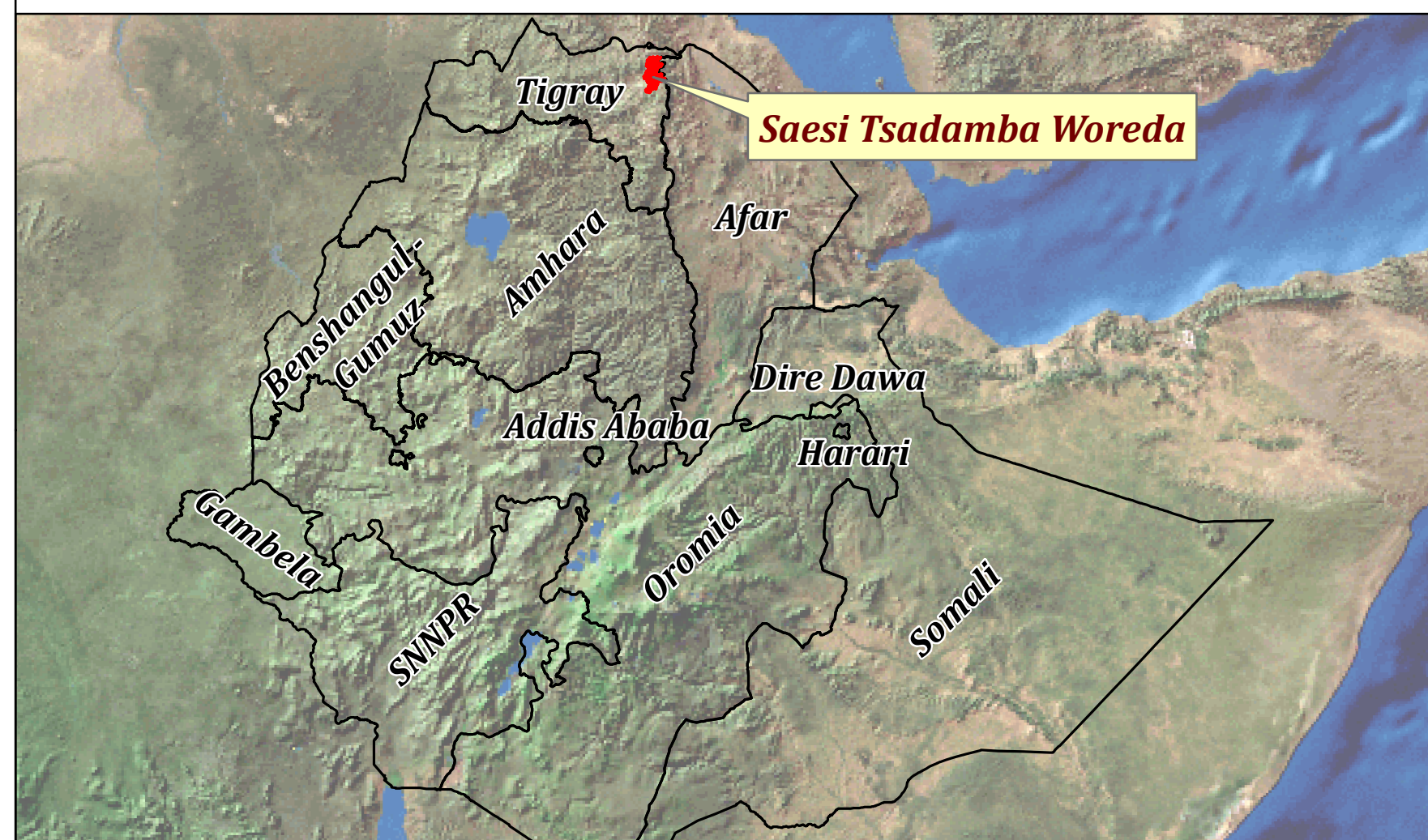


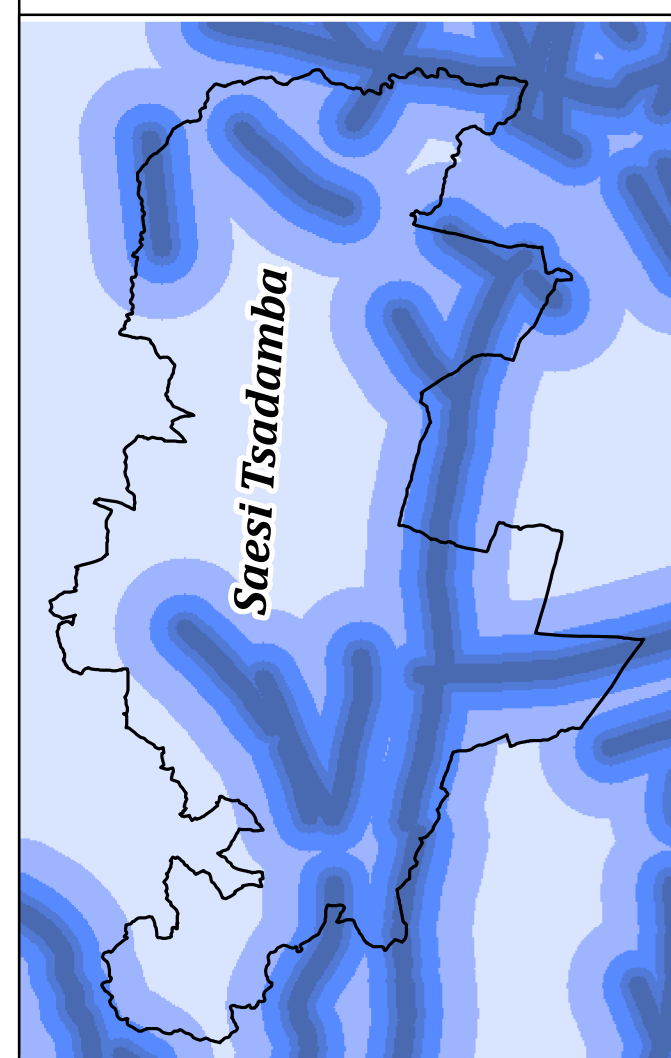
## INSET MAPS



### Aquifer Class Map

#### Aquifer Class

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

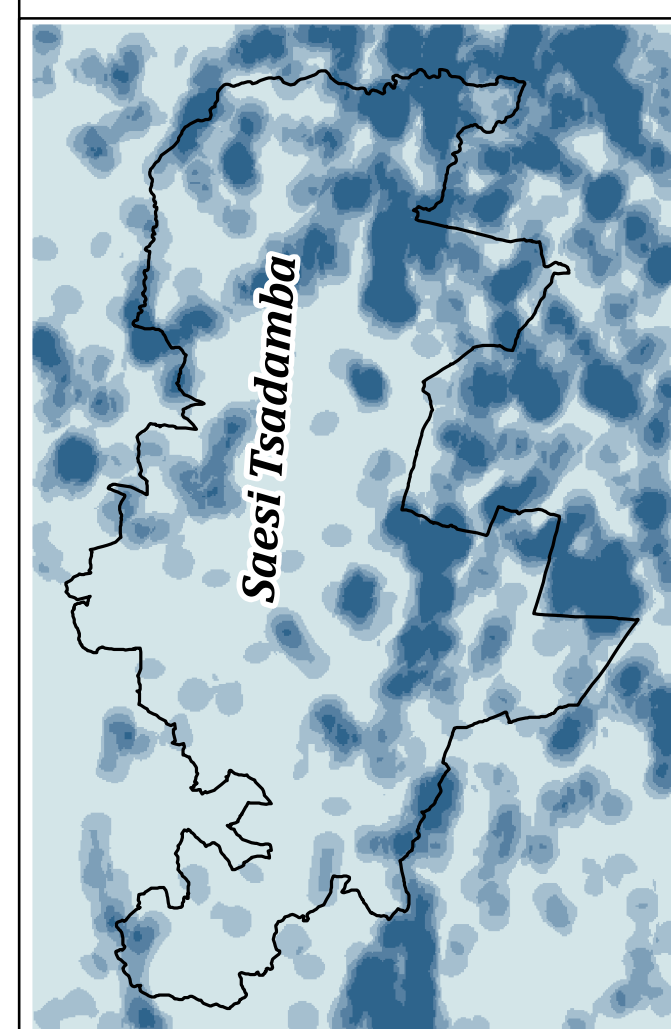


### Lineament Proximity Map

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

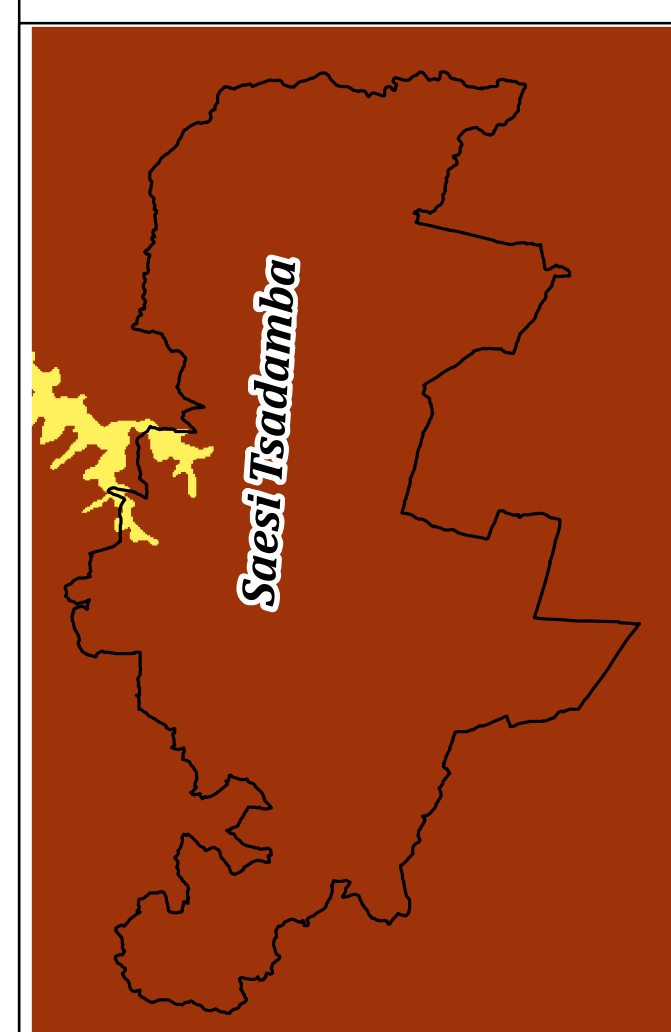


### Lineament Density Map

Suitability increases with higher lineament, joint and fault densities

#### Lineament Density (km/km2)

- 0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- 1.2 - 4.2



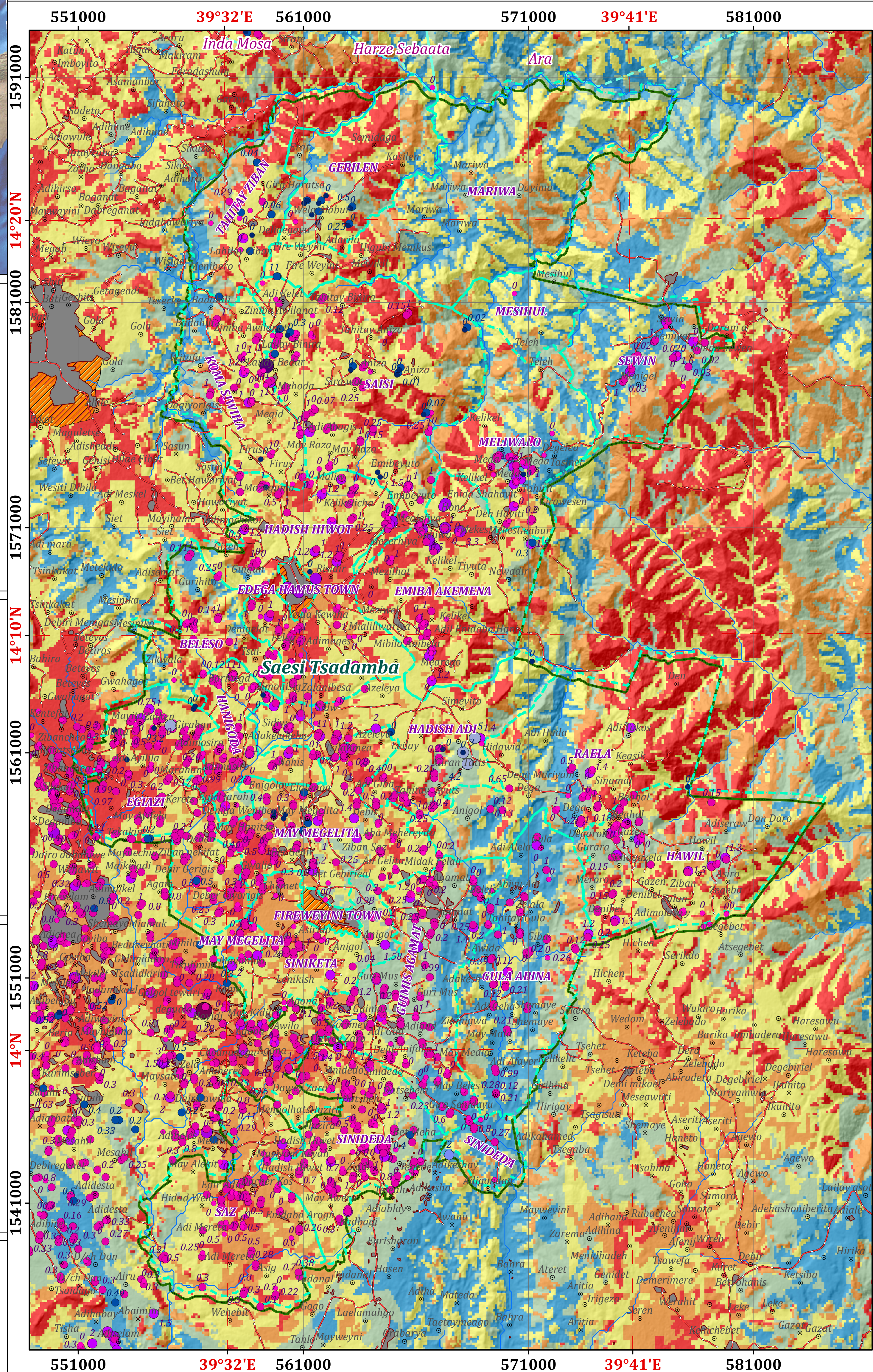
### Recharge Map

Suitability increases with increasing recharge.

#### Recharge (mm/y)

- 30.2 - 50
- 50 - 74.7

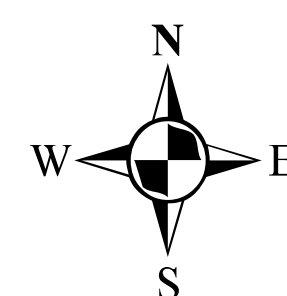
## GROUNDWATER POTENTIAL MAP OF SAESI TSADAMBA WOREDA



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



## Legend

### Groundwater Suitability Index

- Unsuitable
- Very Low
- Low
- Moderate
- High

### Other Symbols

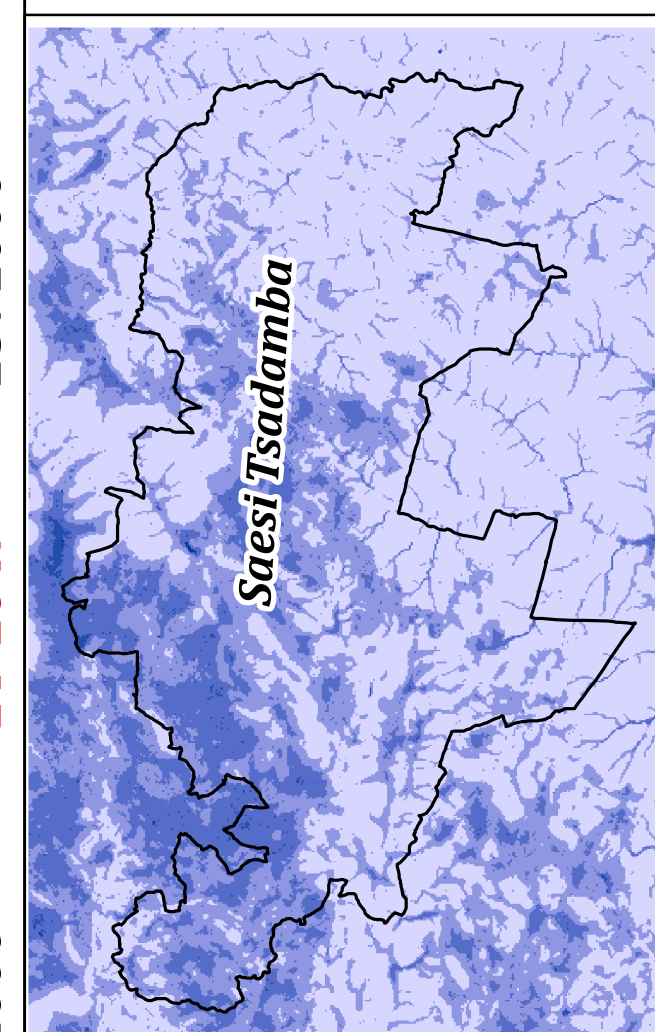
- Locality
- Main Road
- Drainage
- Woredas Boundary
- Town
- Built-Up Areas
- Kebele Boundary

### Well Yield (l/s)

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

### Spring Yield (l/s)

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

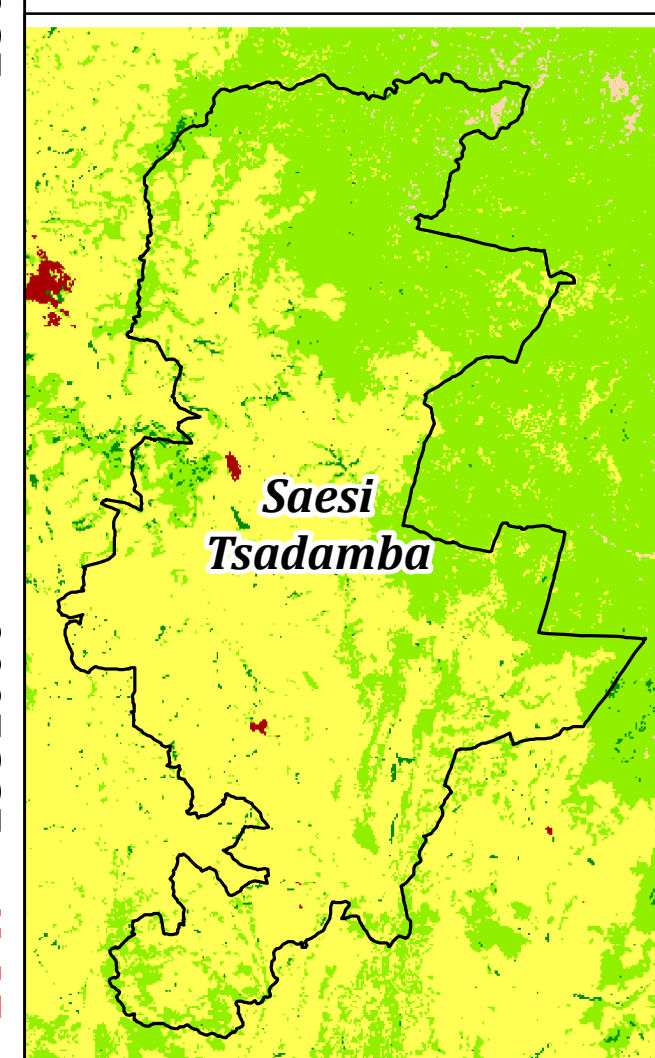


### Topographic Wetness Index Map

Suitability increases with increasing TWI

#### TWI Value

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

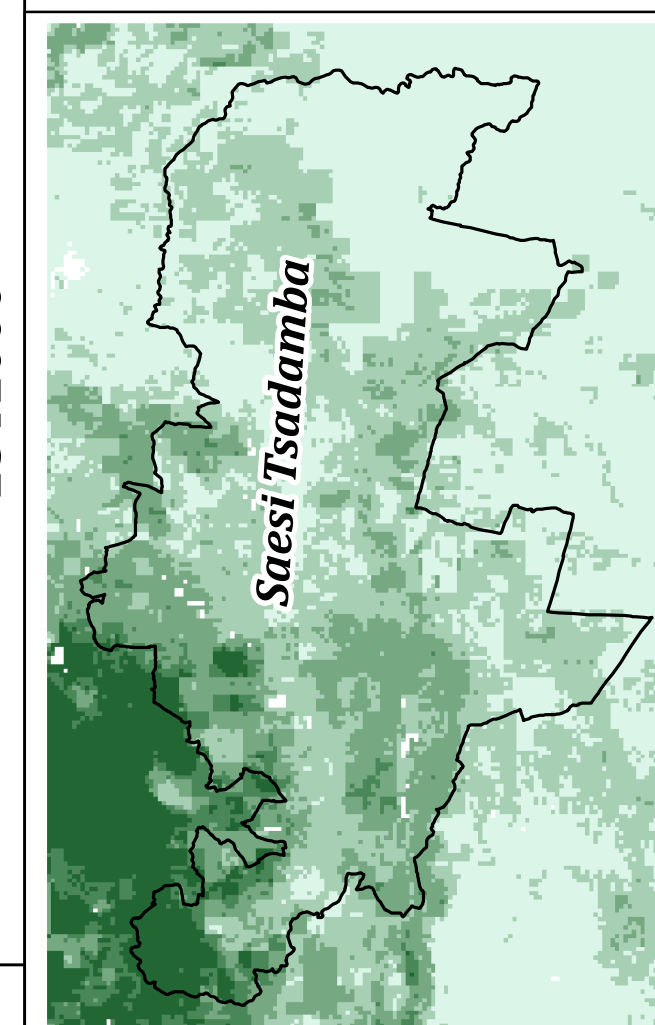


### Landuse/Land Cover Map

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

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



Cartography By:- Assaminew Gebeyehu

December, 2021