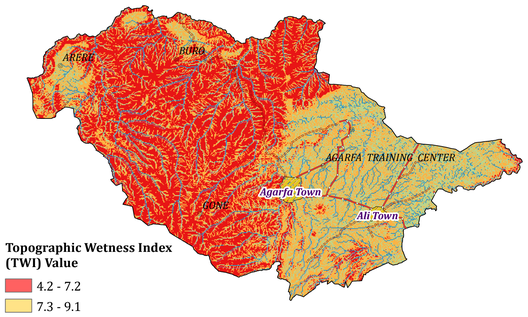
GROUNDWATER POTENTIAL ZONES INDEX MAP OF AGARFA WOREDA

Inset Maps

Topographic Wetness Index Map



Topographic Wetness Index (TWI) Value

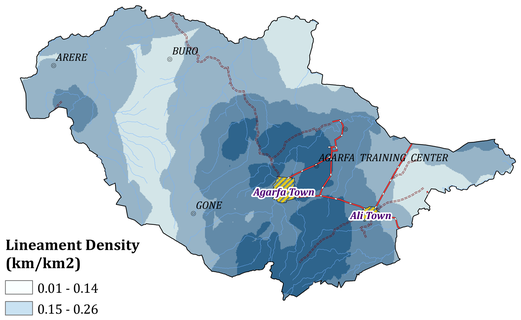
- 4.2 - 7.2
- 7.3 - 9.1
- 9.2 - 11.6
- 11.7 - 18.1

Major Geological Map

MAJOR LITHOLOGICAL UNITS

- Tertiary volcanics of plateau basalt and Alaji basalt
- Tertiary volcanics of lower and highland basaltic flows, and upper Hamanilie limesone Formation

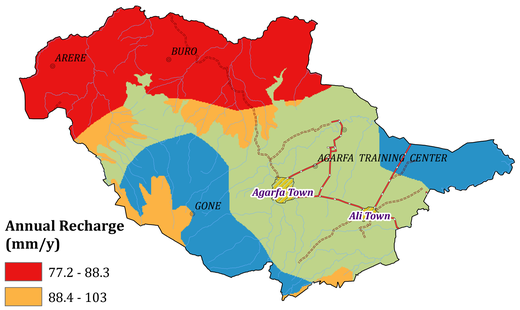
Lineament Density Map



Lineament Density (km/km2)

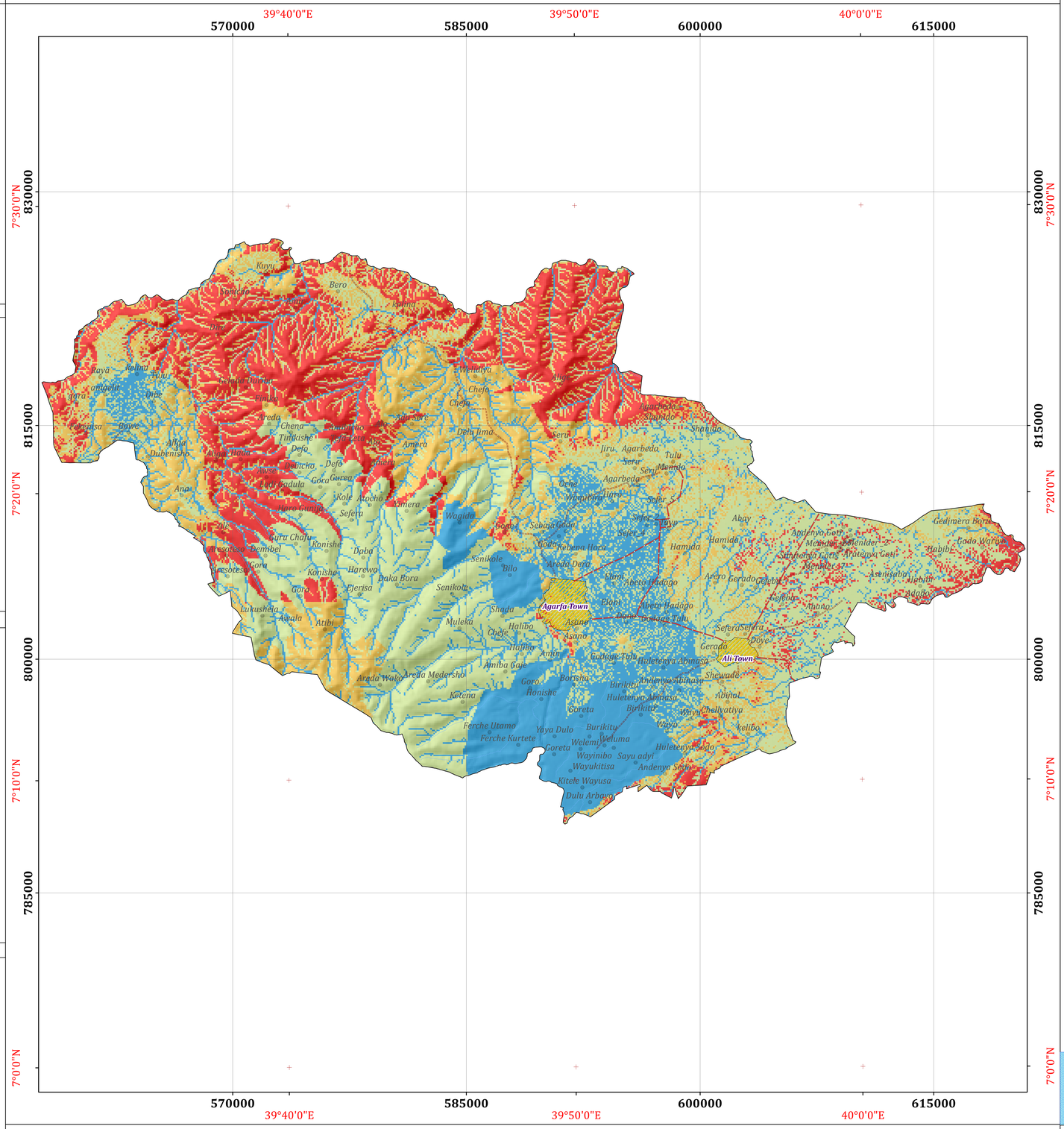
- 0.01 - 0.14
- 0.15 - 0.26
- 0.27 - 0.39
- 0.4 - 0.51

Annual Recharge Map



Annual Recharge (mm/y)

- 77.2 - 88.3
- 88.4 - 103
- 104 - 145
- 146 - 158



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

Scale: 1:100,000

8 4 0 8 16 24 Km

N W E S

GroundWater Mapping

Legend

Groundwater Potential Zones

- Low (Yield: < 4 l/s)
- Moderate (Yield: 4 - 6 l/s)
- High (Yield: 6 - 10 l/s)
- Very High (Yield: >10 l/s)

OTHER SYMBOLS

- Village
- Drainage
- All Weather Road
- Dry Weather Road
- Town

HYDROGEOLOGICAL MAPPING USING REMOTE SENSING, GIS AND GEOPHYSICAL SURVEYING

" Delivering Climate Resilient Water, Sanitation and Hygiene in Ethiopia (DCRW)"

DFID Department for International Development | MoWE | DH Consult | GOLDER

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