FIGURES

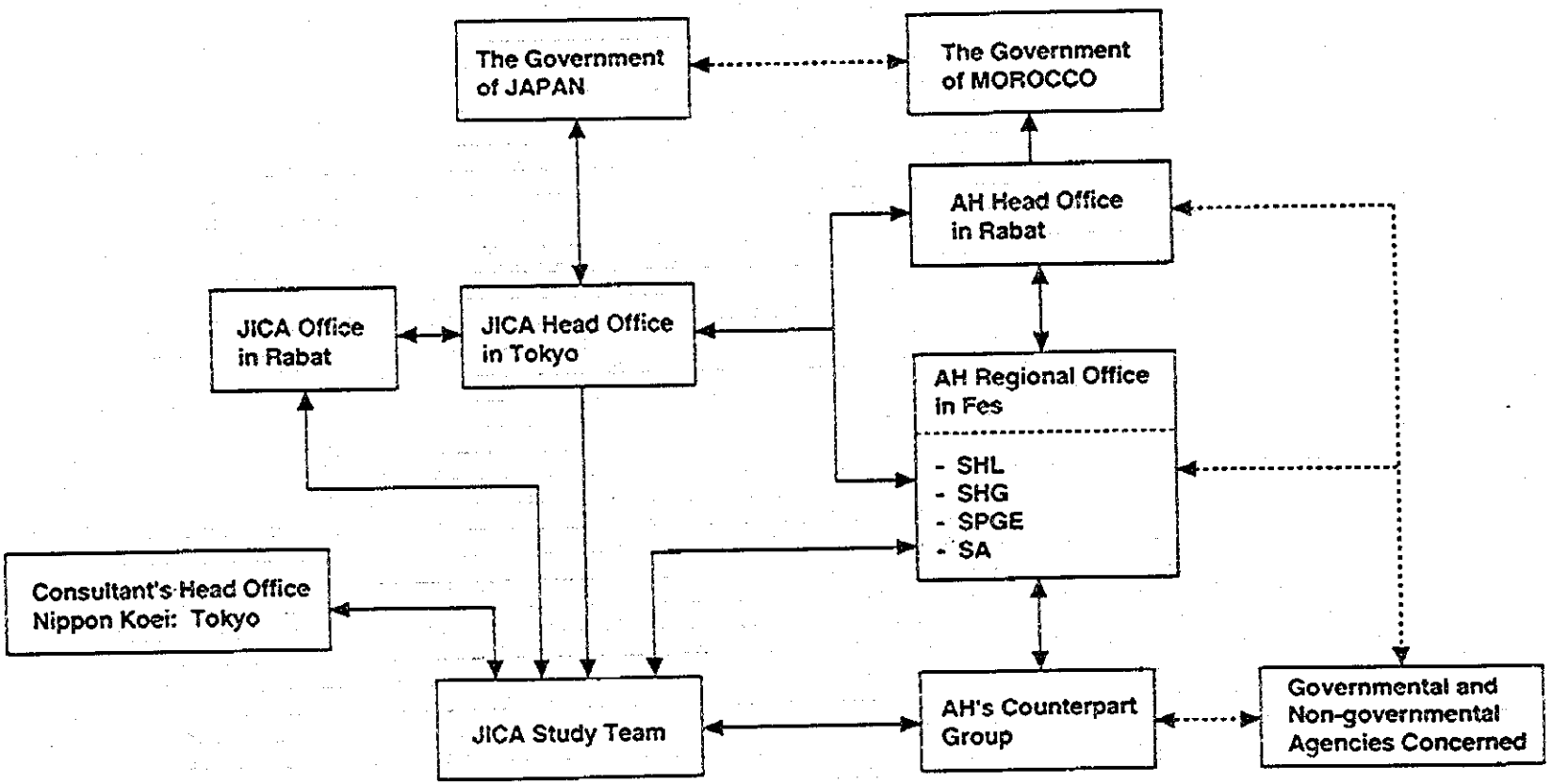


Figure 1.1 Organization of the Study

Source : The Integrated Master Plan on Water Resources Development in the Sebou, Bou Regreg and Oum Er Rbia Basins, 1992, AH

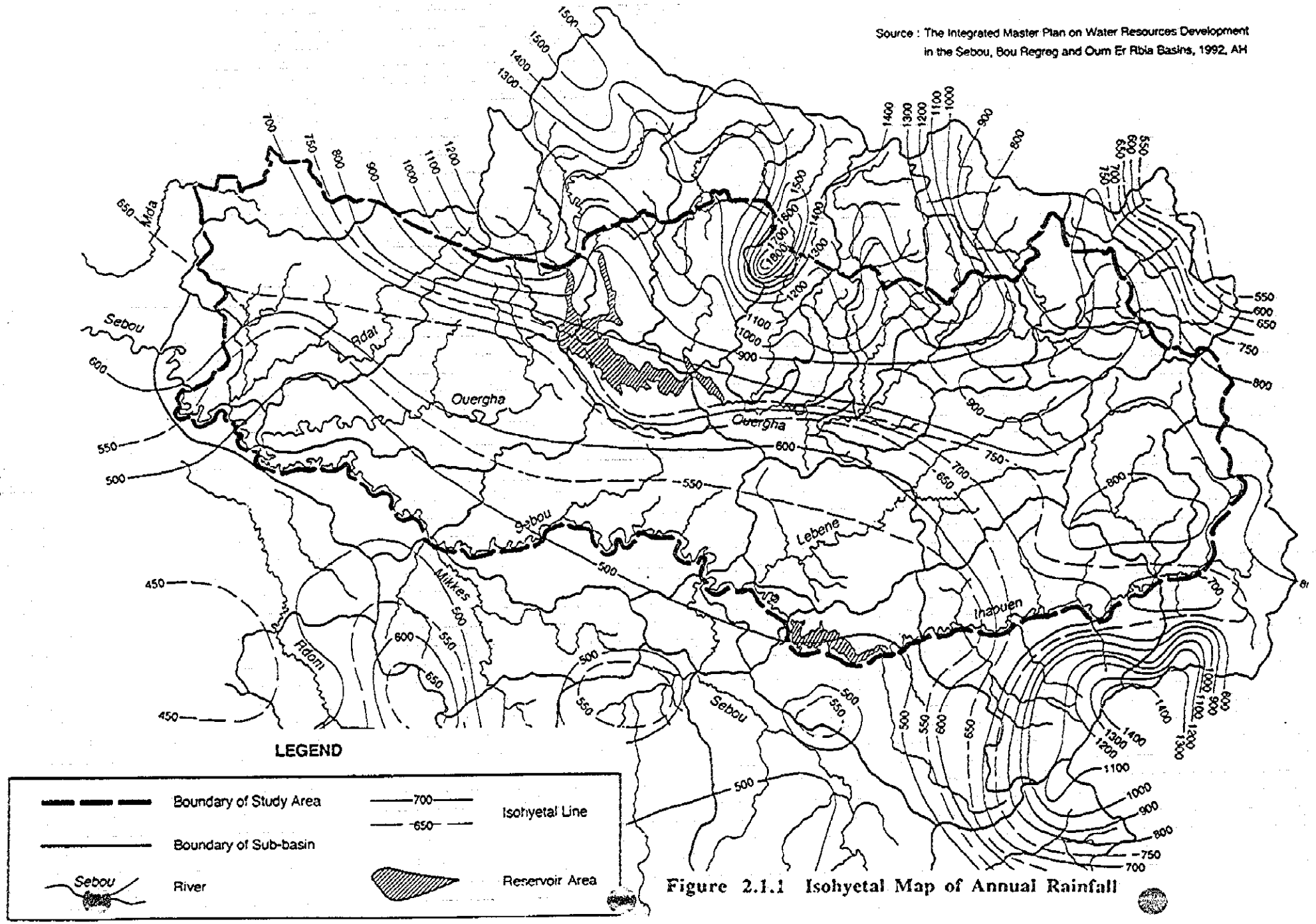


Figure 2.1.1 Isohyetal Map of Annual Rainfall

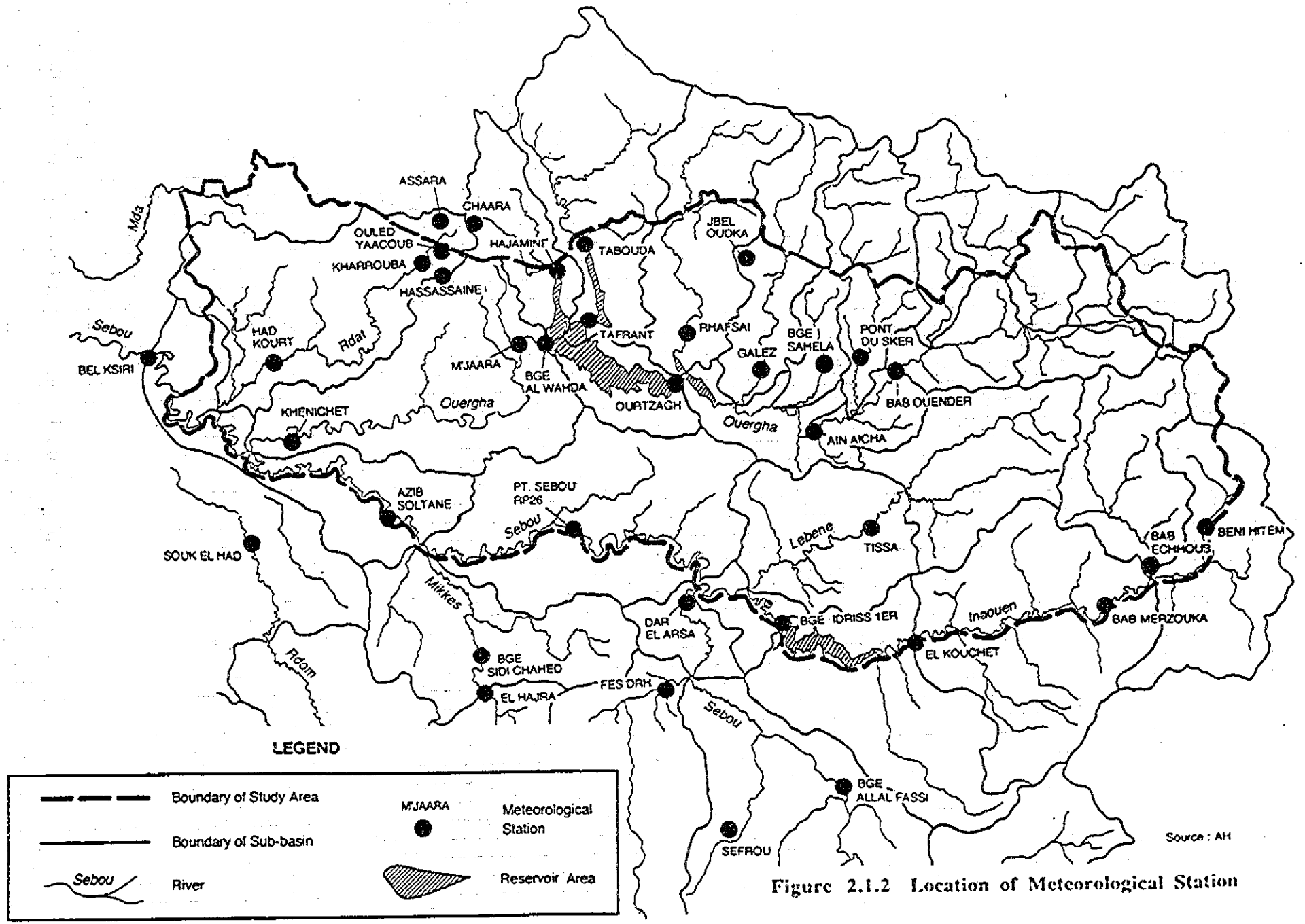
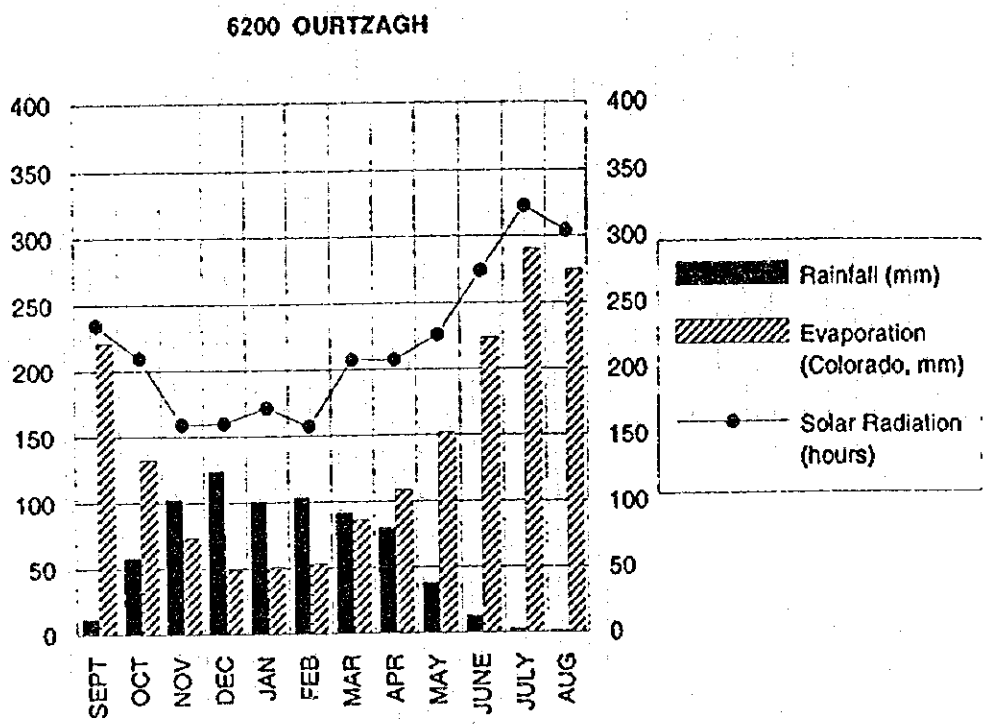
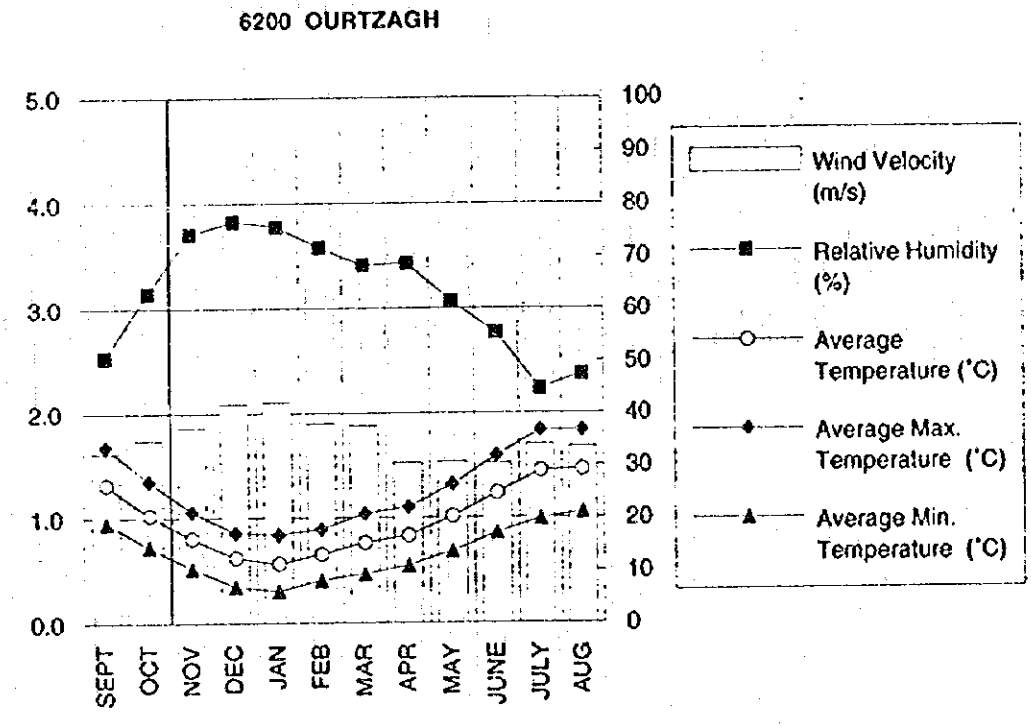


Figure 2.1.2 Location of Meteorological Station





Note : Solar radiation records are quoted from the station Oulad Yaacoub (No. 6153).

Source : AH

Figure 2.1.3 Climatological Summary at Ourtzagh (No. 6200)

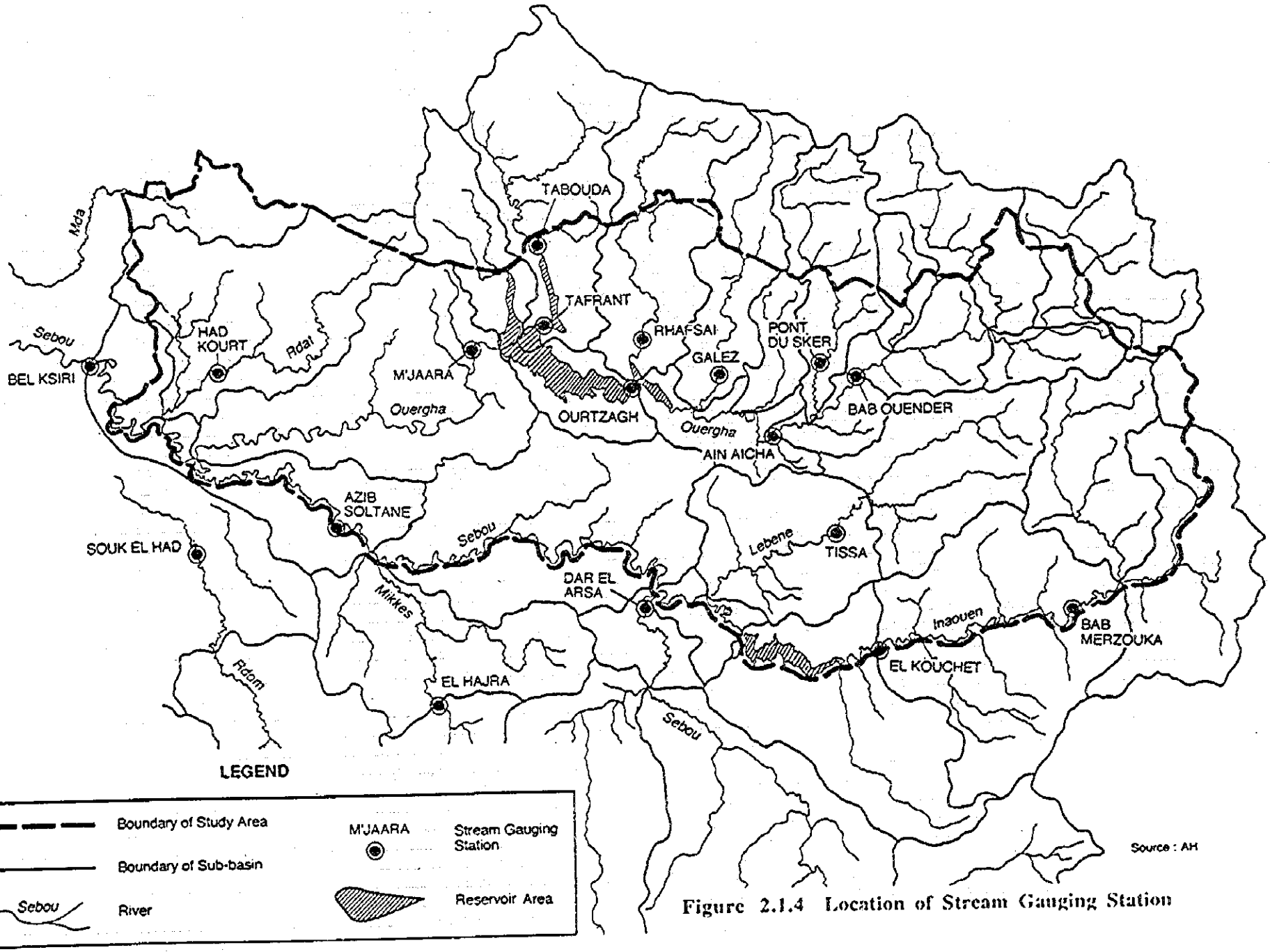


Figure 2.1.4 Location of Stream Gauging Station

Flow Duration Curve

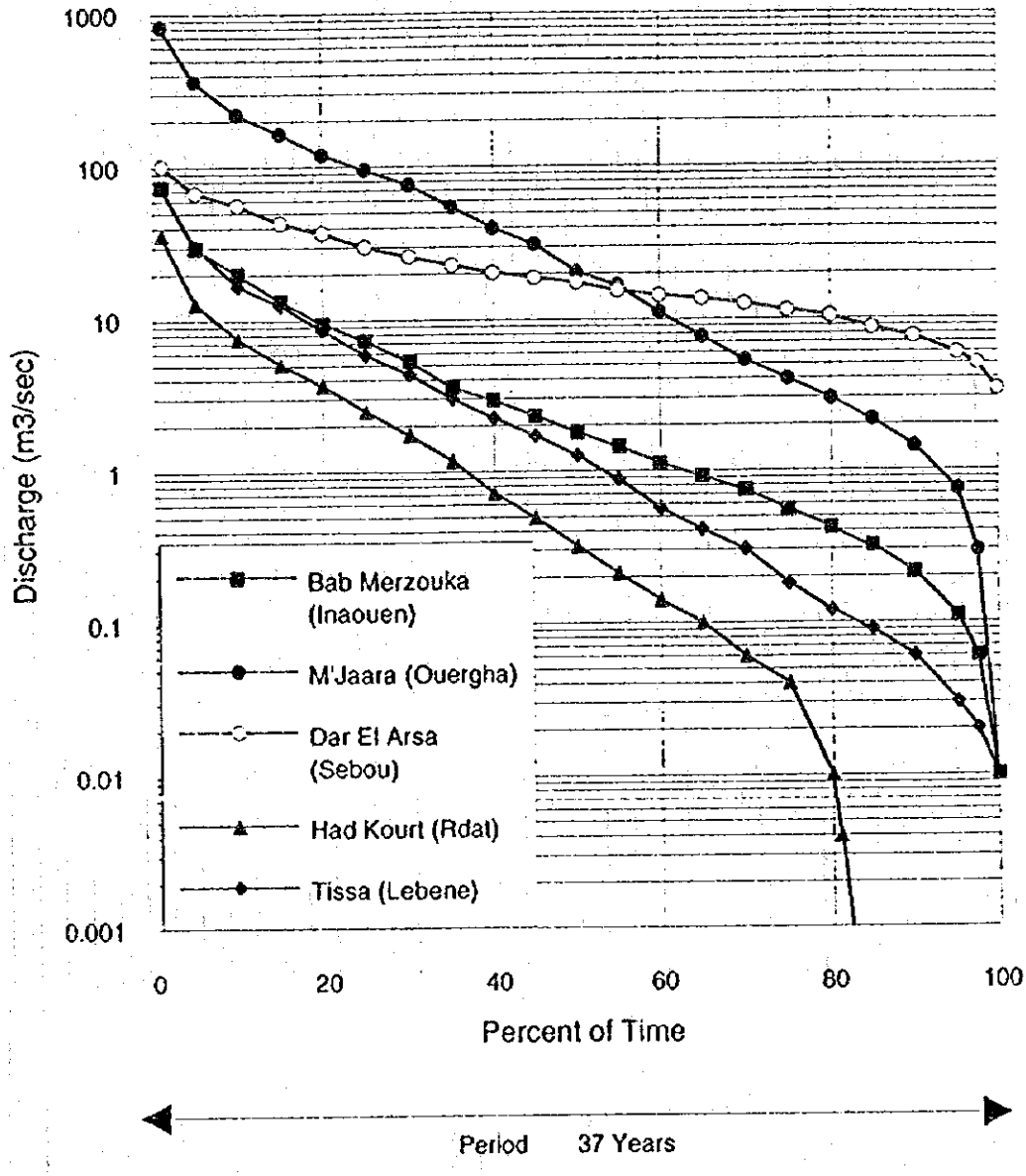


Figure 2.1.5 COMPARISON OF FLOW DURATION CURVE

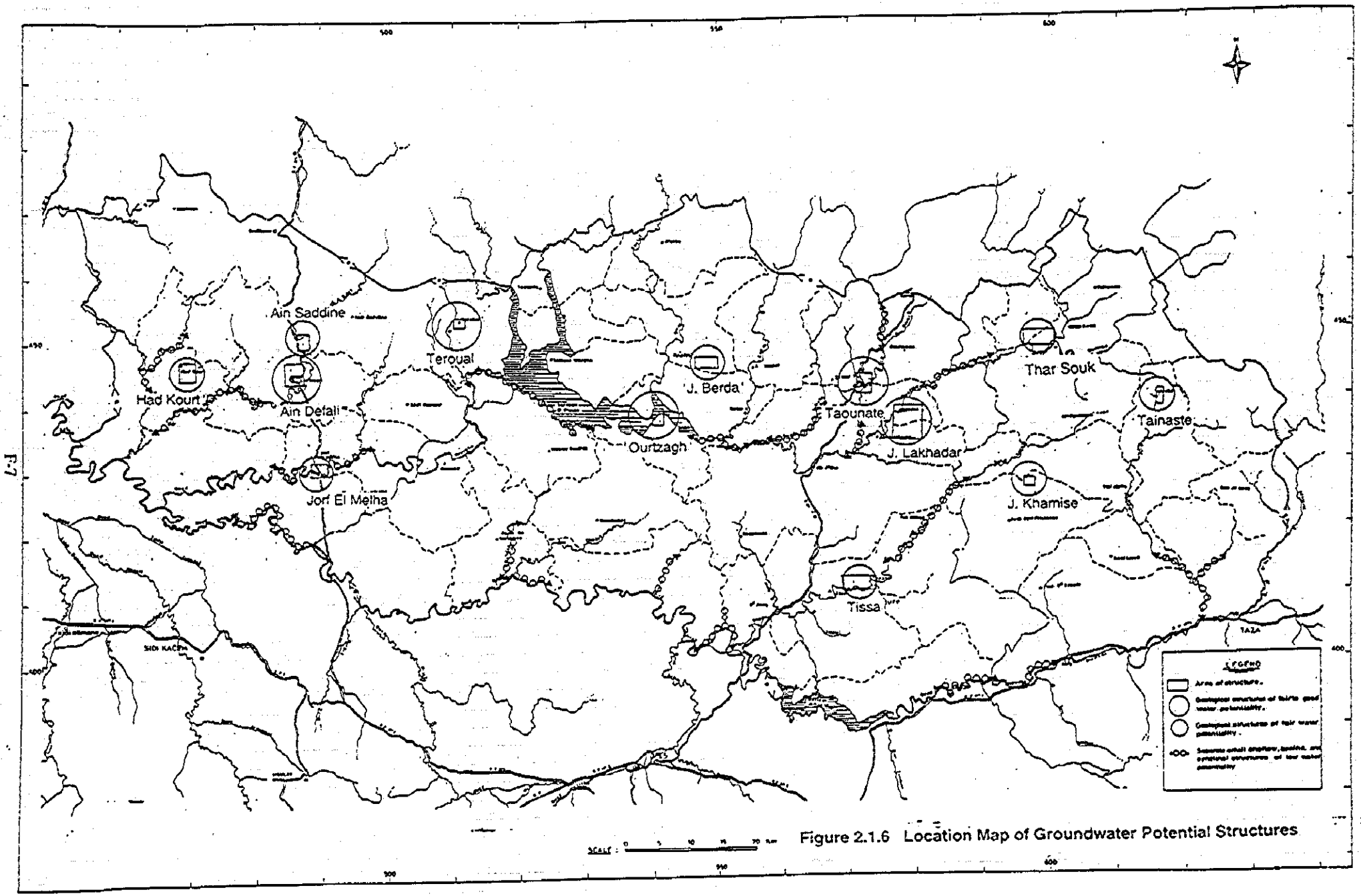


Figure 2.1.6 Location Map of Groundwater Potential Structures

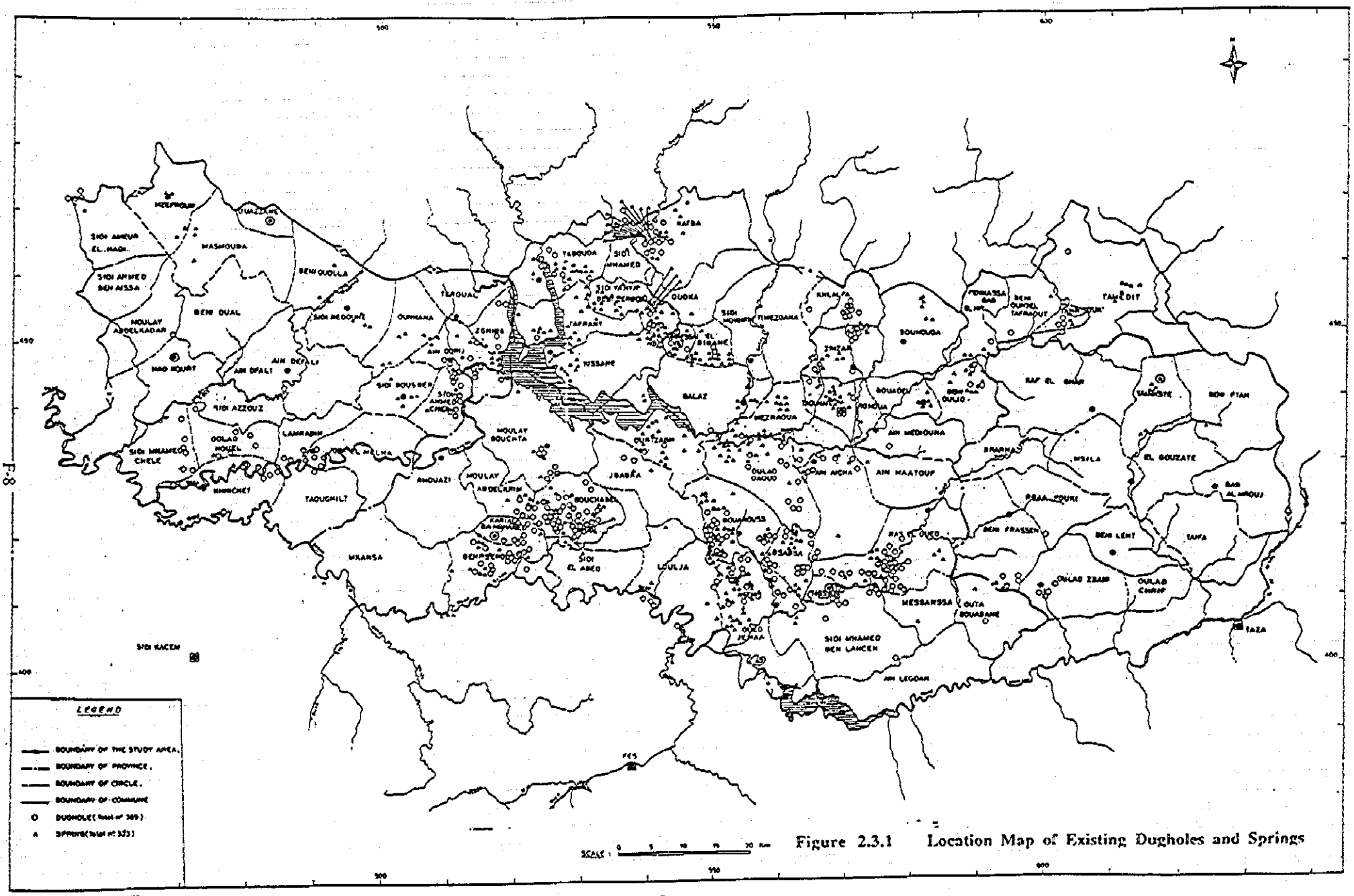


Figure 2.3.1 Location Map of Existing Dugholes and Springs

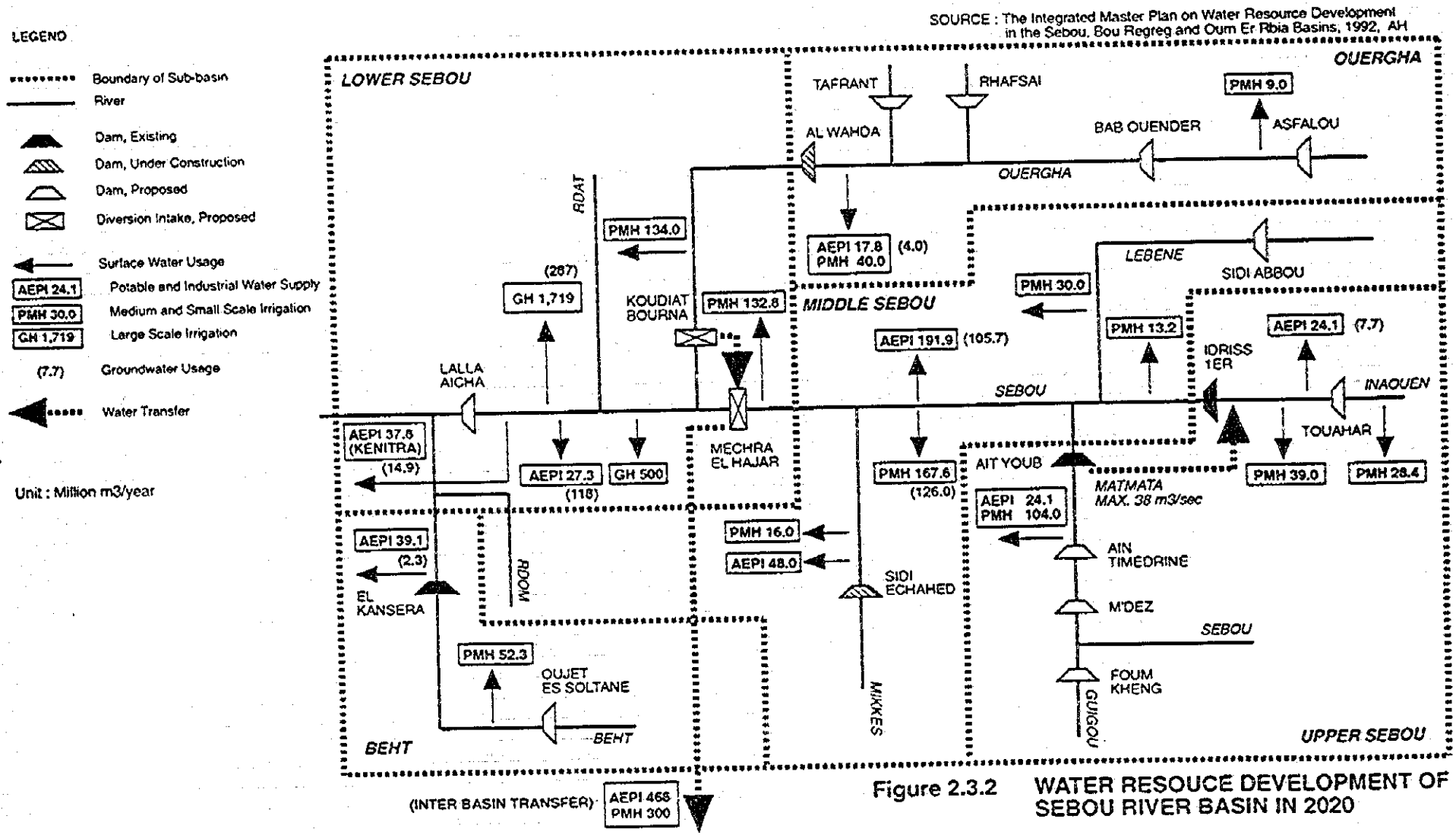


Figure 2.3.2 WATER RESOUCE DEVELOPMENT OF SEBOU RIVER BASIN IN 2020

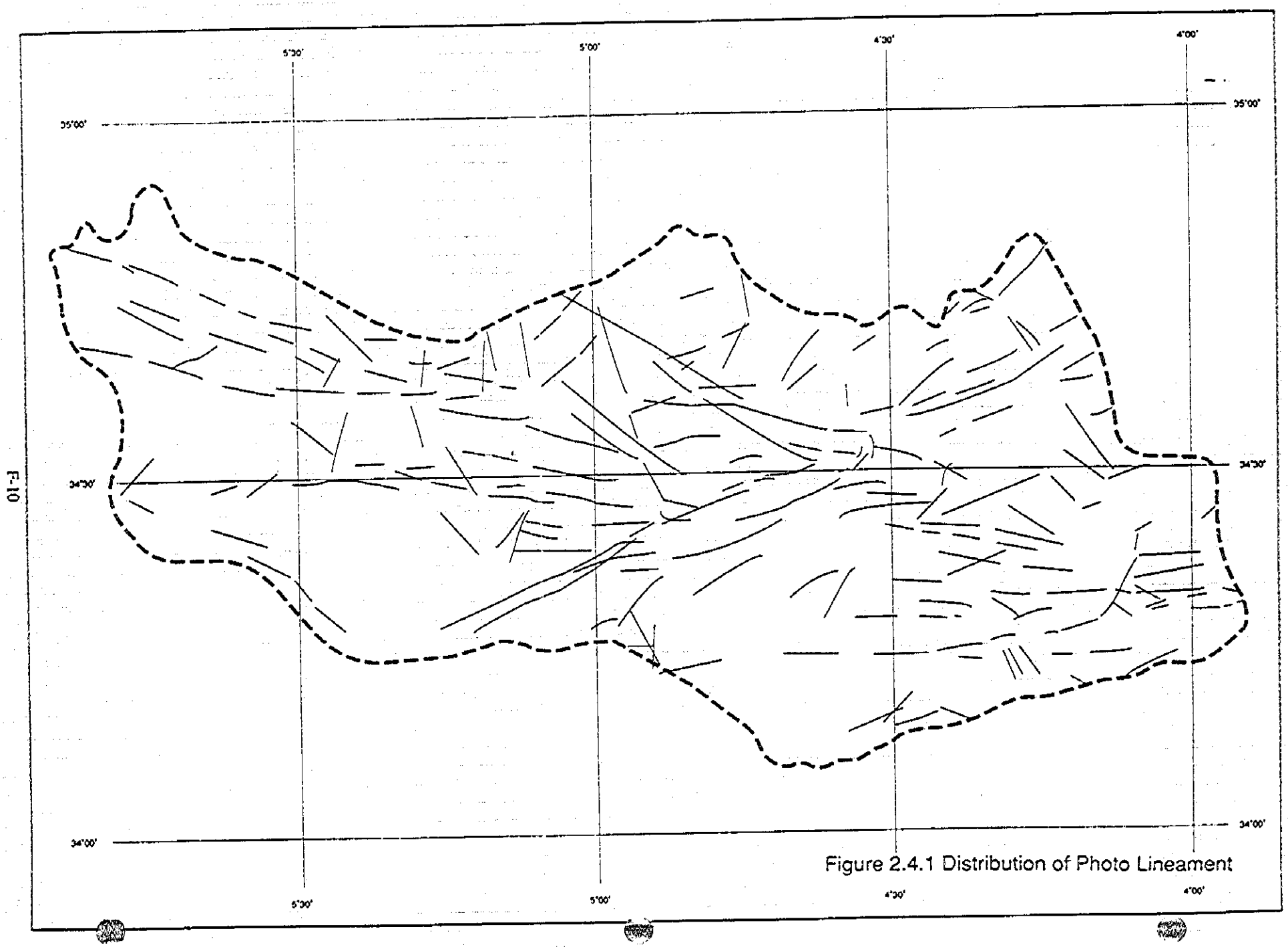


Figure 2.4.1 Distribution of Photo Lineament

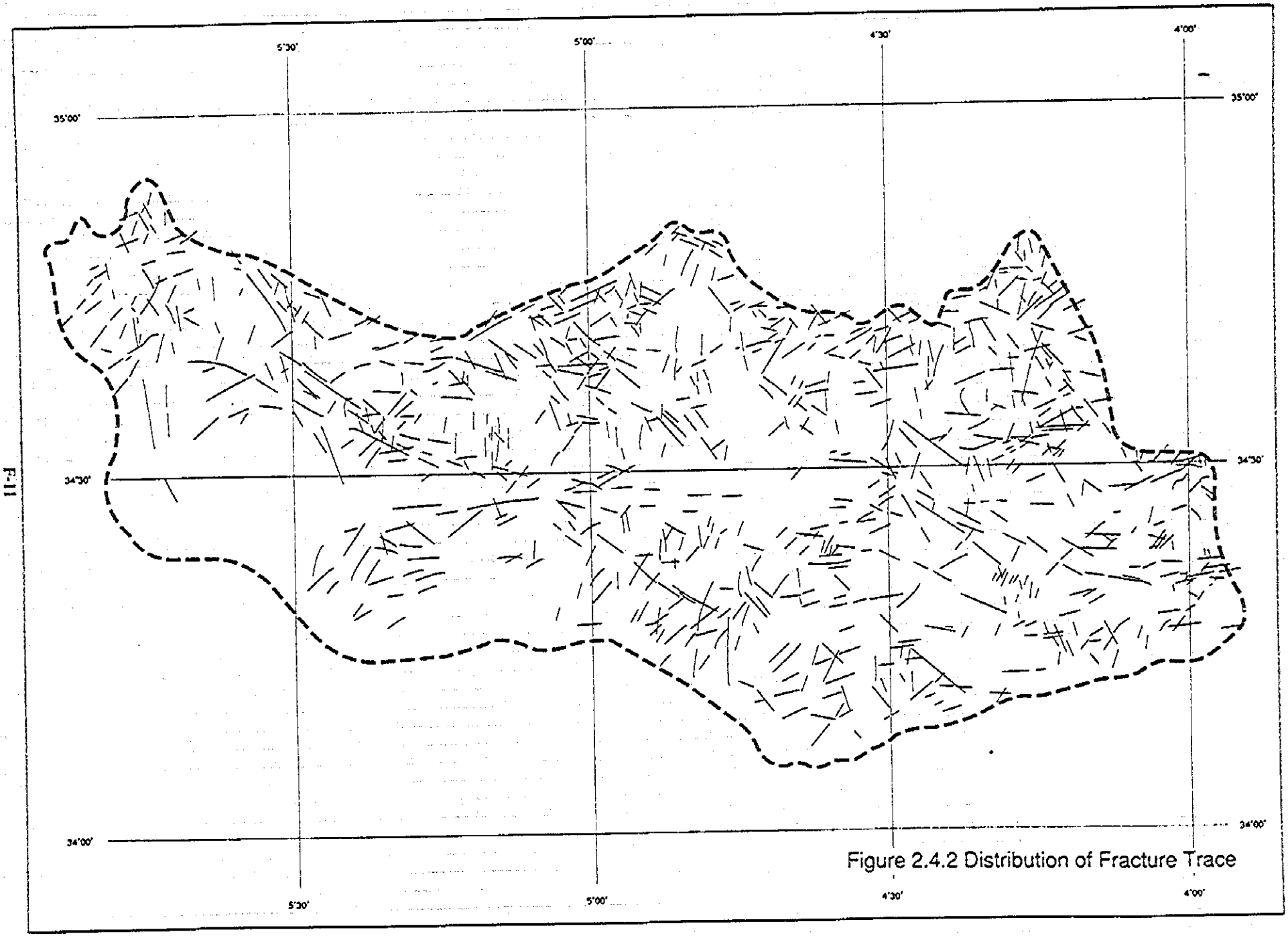


Figure 2.4.2 Distribution of Fracture Trace

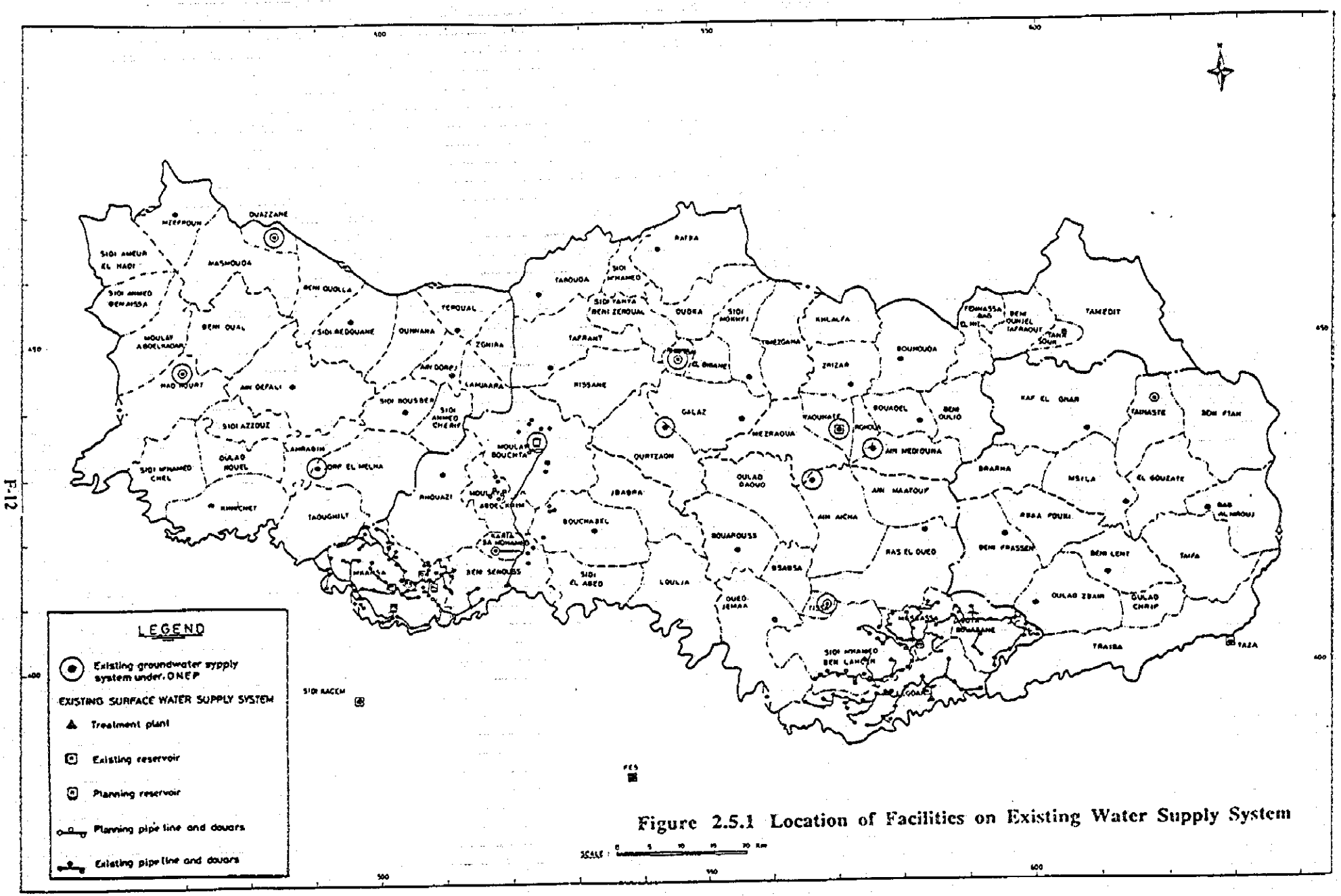


Figure 2.5.1 Location of Facilities on Existing Water Supply System

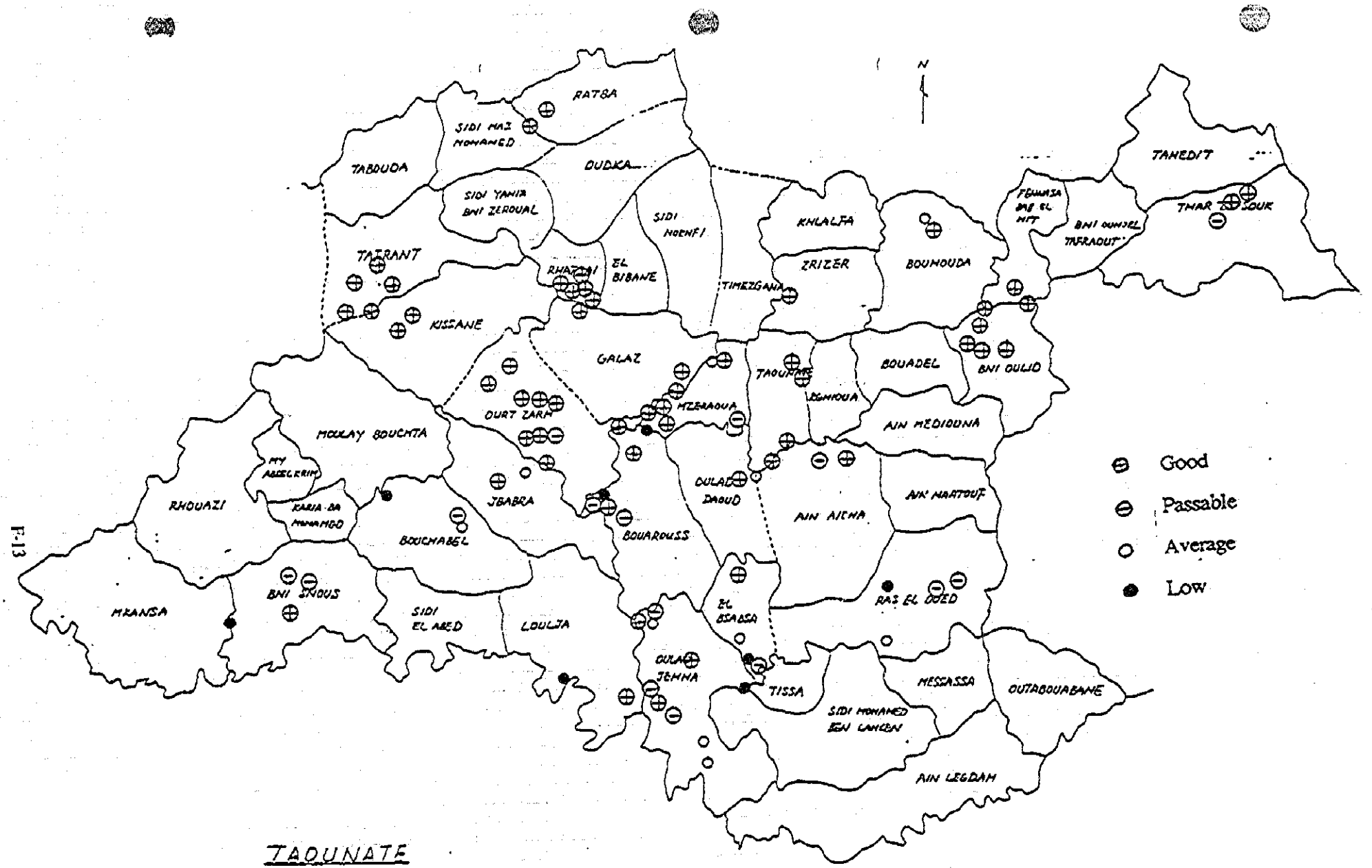
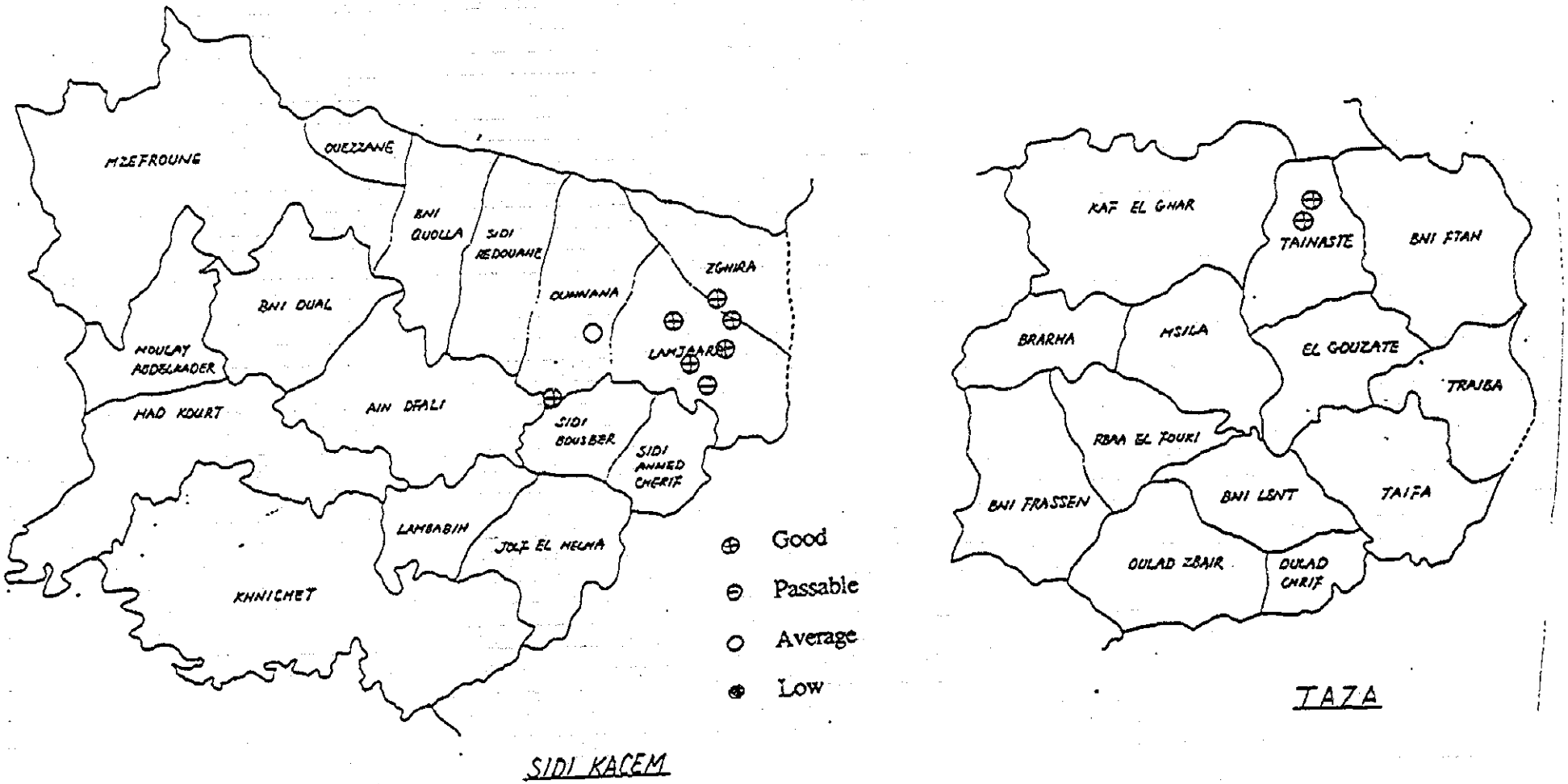
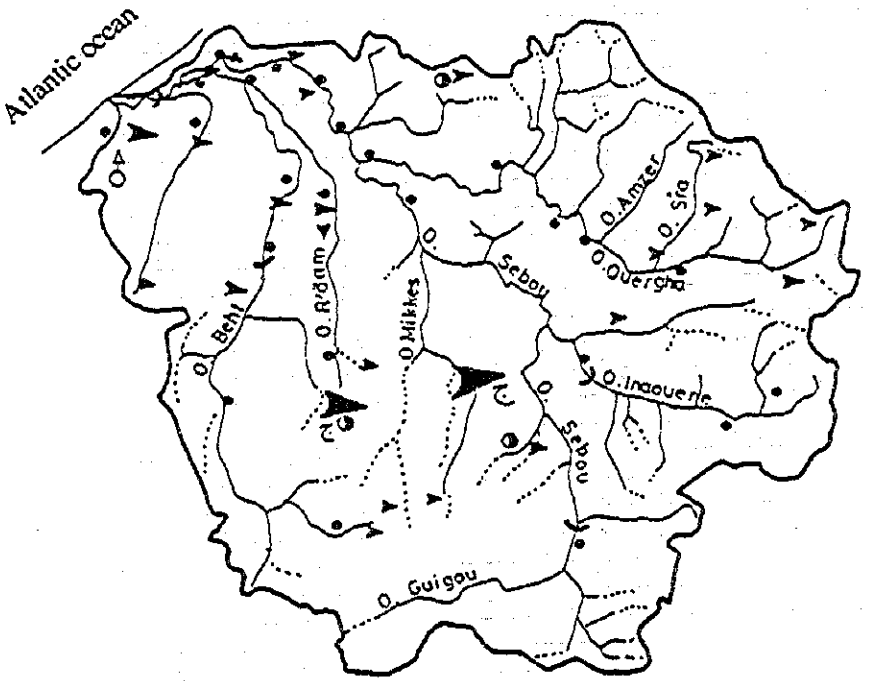


Fig. 2.6.1 Chemical Water Quality (Salinity) of Springs in the Study Area (1/2)



F-14

Fig. 2.6.1 Chemical Water Quality (Salinity) of Springs in the Study Area (2/2)



- Sugar factory
- Refinery
- Tannery
- Oil processing
- Thermal power station

Urban waste water (population classes)

- < 50,000
- 50,000 - 100,000
- 100,000 - 200,000
- 300,000 - 400,000
- > 400,000

Fig. 2.6.2 Major Sources of Population in Sebou River Basin

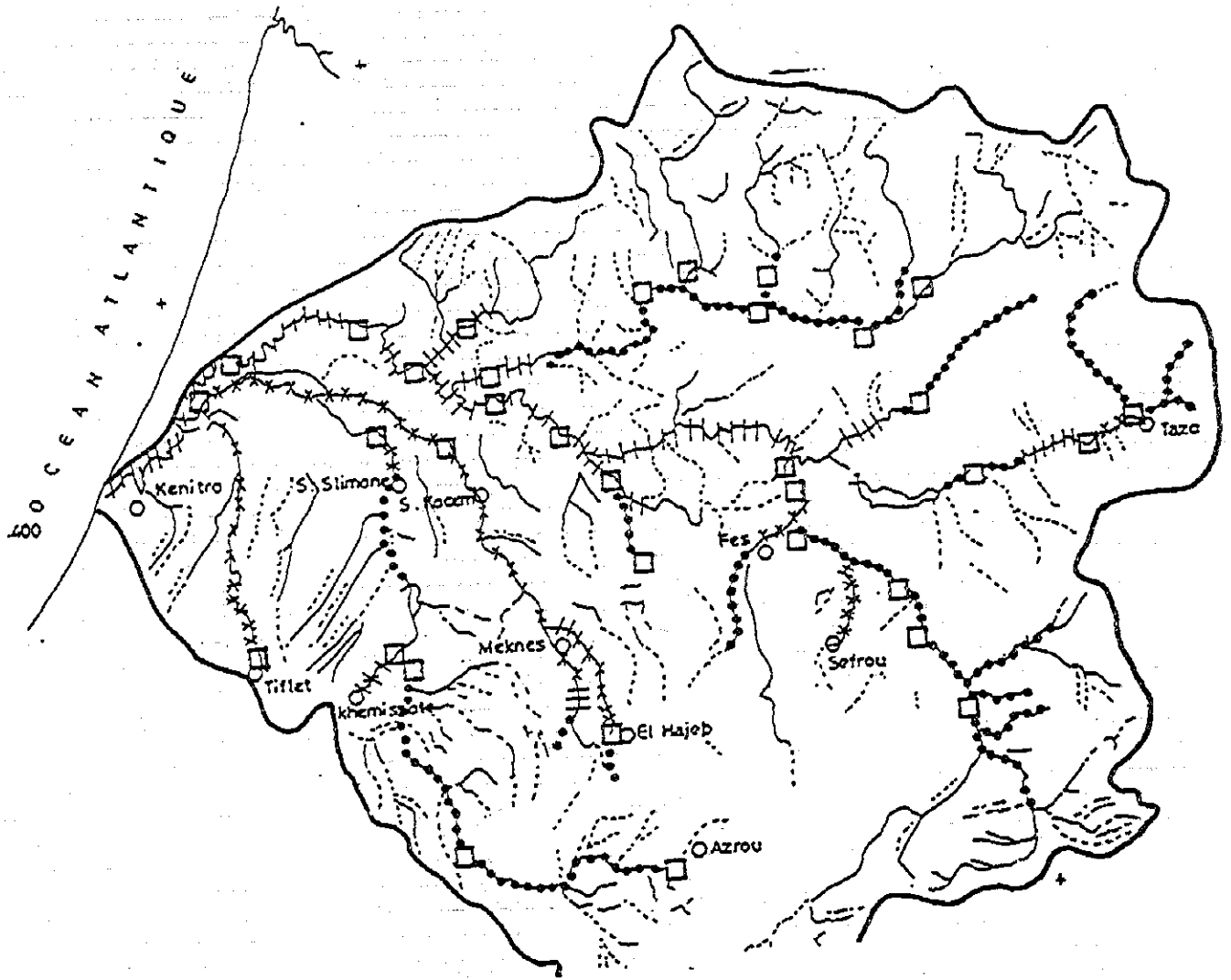


Fig. 2.6.3 Classification of Sebou River Basin in Terms of its Suitability for Drinking Water Use

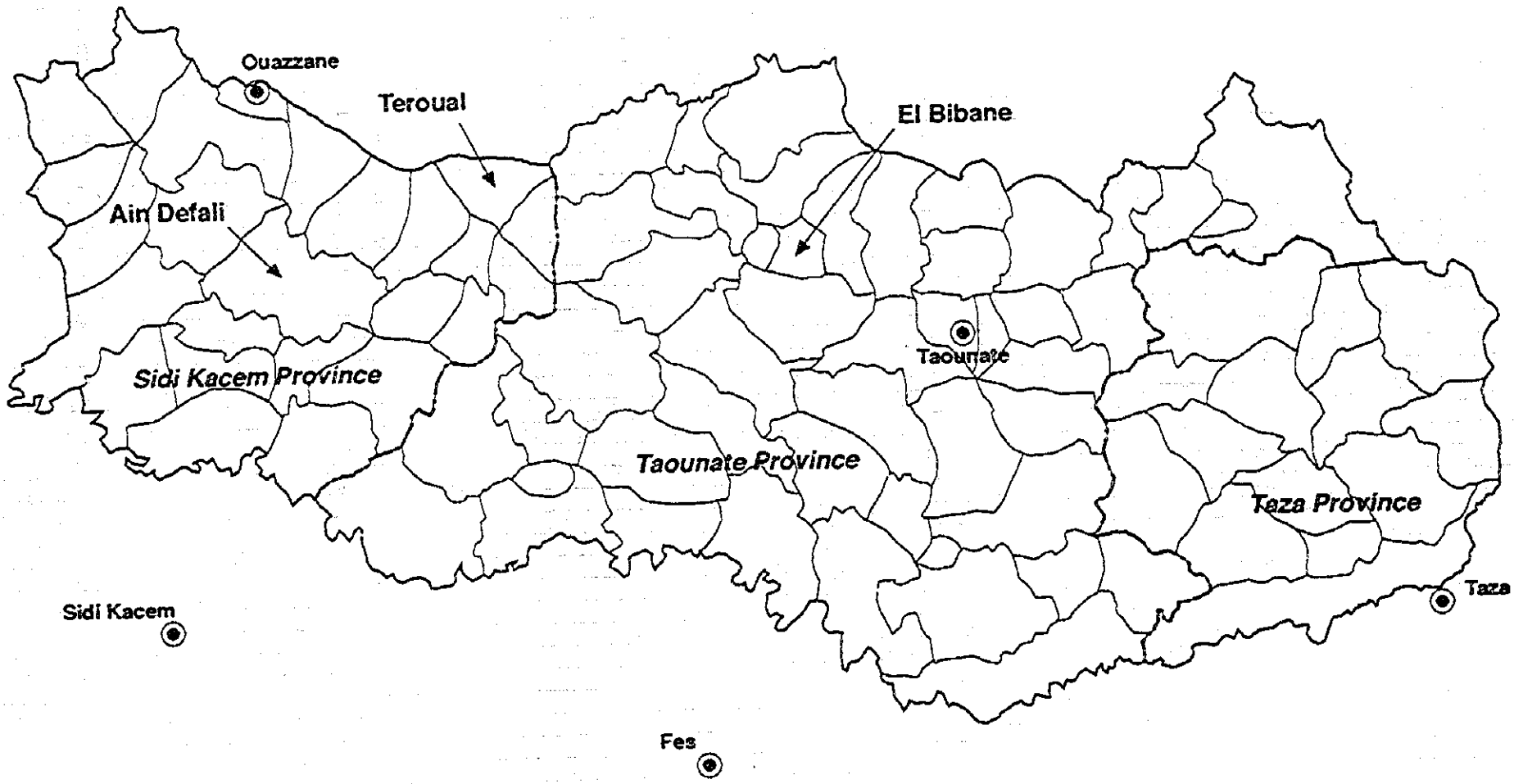
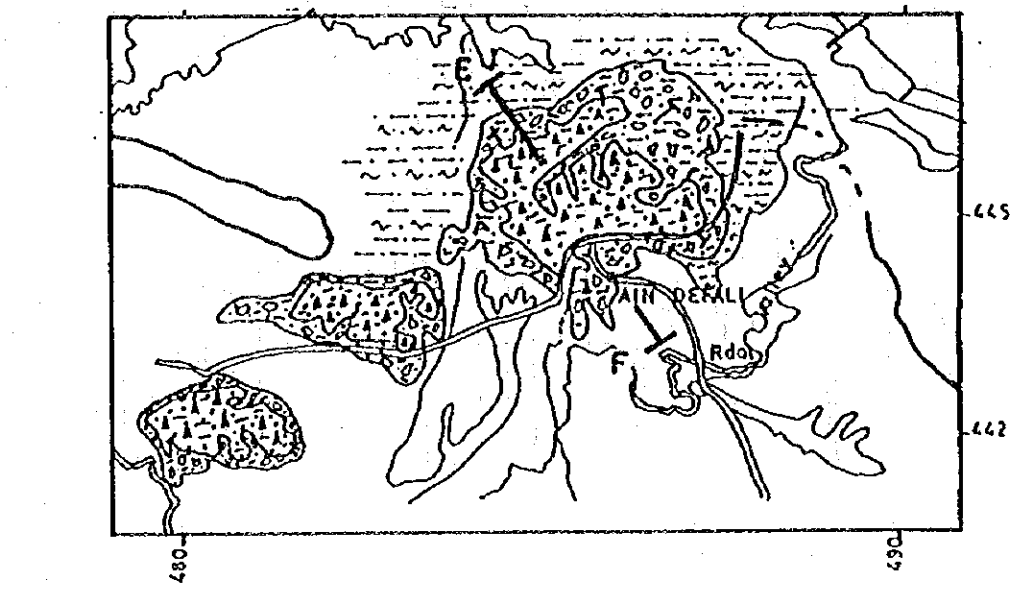
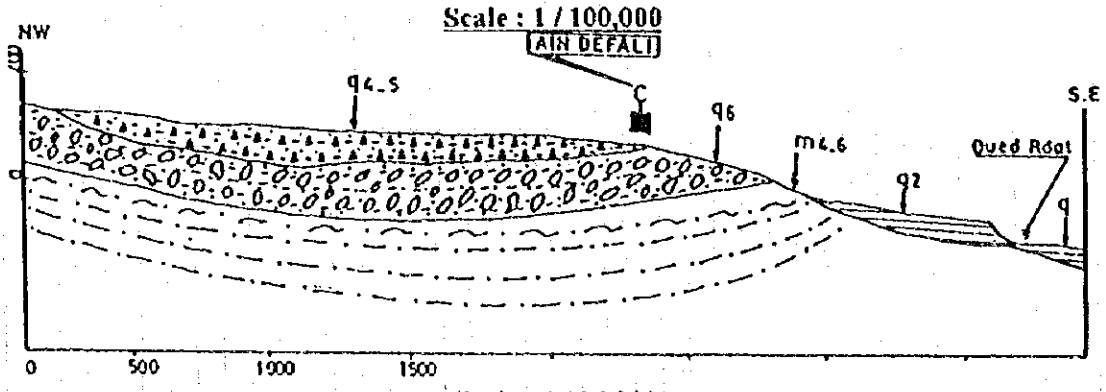


Figure 3.1.1 Location of Model Areas



E F

Scale : 1 / 100,000

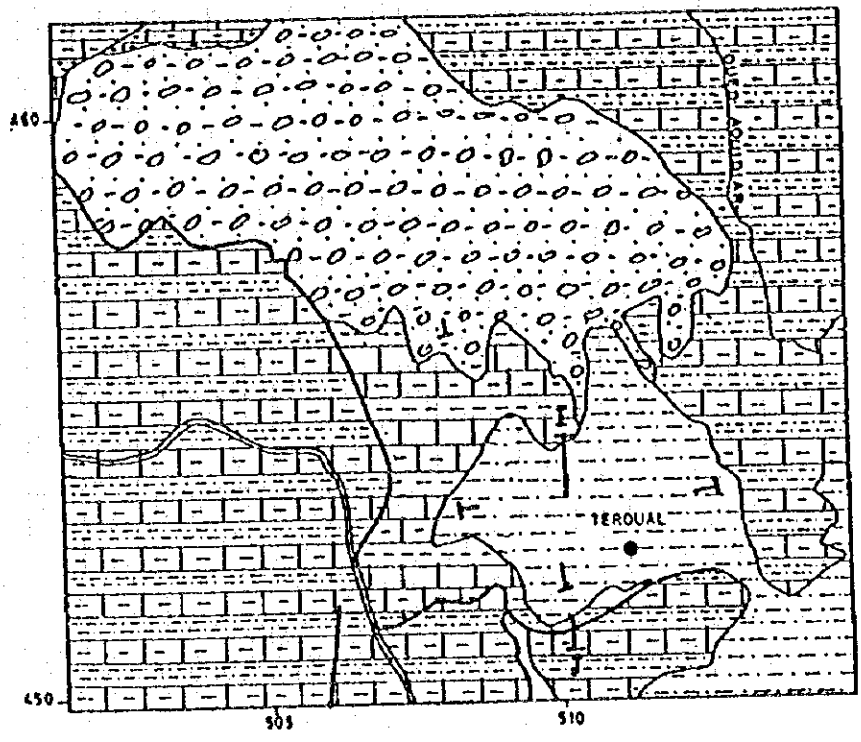


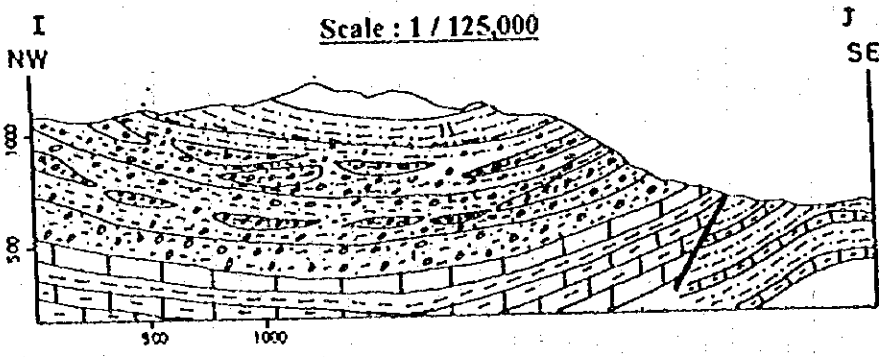
Scale : 1 / 26,000

LEGEND

- QUATERNARY FLUVIAL DEPOSITS.
- q4-5 QUATERNARY RECENT ALLUVIUM DEPOSITS, SILTY MARL AND GRAVELS.
- q6 QUATERNARY ANCIENT DEPOSITS: CONGLOMERATES AND MARL.
- m4-5-6 MIDDLE MIOCENE - TORTONIAN AND TERMINAL: MARL AND SILTY MARL
- FAULT
- Dip
- VERTICAL
- STEEP
- NORMAL

Figure 3.1.2 Geological Structure of Ain Defali





Scale : 1 / 125,000

Scale : 1 / 62,500

LEGEND

QUATERNARY. RECENT ALLUVIUM DEPOSITS.

MIOCENE SUP. MARL AND SILTY MARL.

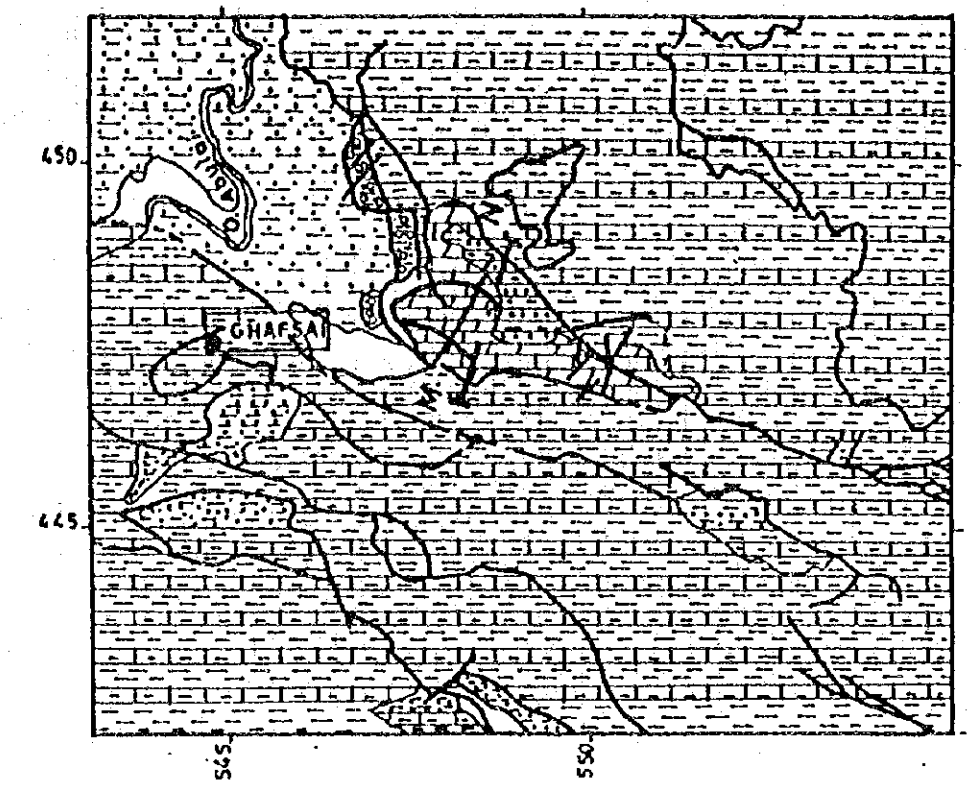
OLIGOCENE. SANDY CONGLOMERATES WITH MARL MATRIX.

EOCENE. LIMESTONE, MARLY LIMESTONE AND MARL.

CRETEOUS. SUP. SILTY MARL, MARLY LIMESTONE AND SCHISTS.

FAULT. DIP VERTICALE. ⊥ STEEP. ⊥ NORMALE.

Figure 3.1.3 Geological Structure of Teroual



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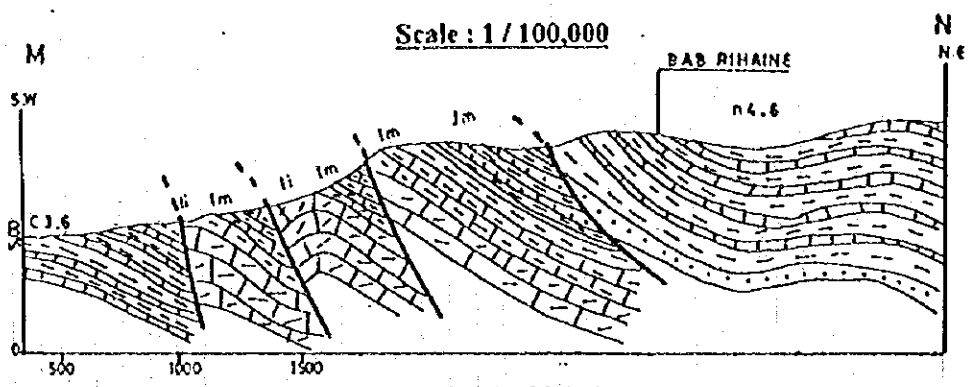

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LEGEND

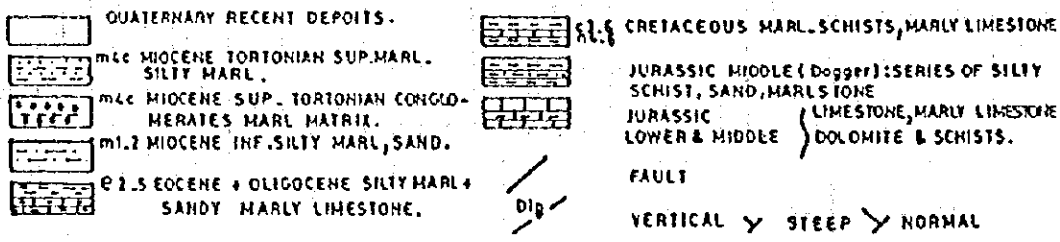


Figure 3.1.4 Geological Structure of Jbel Berda

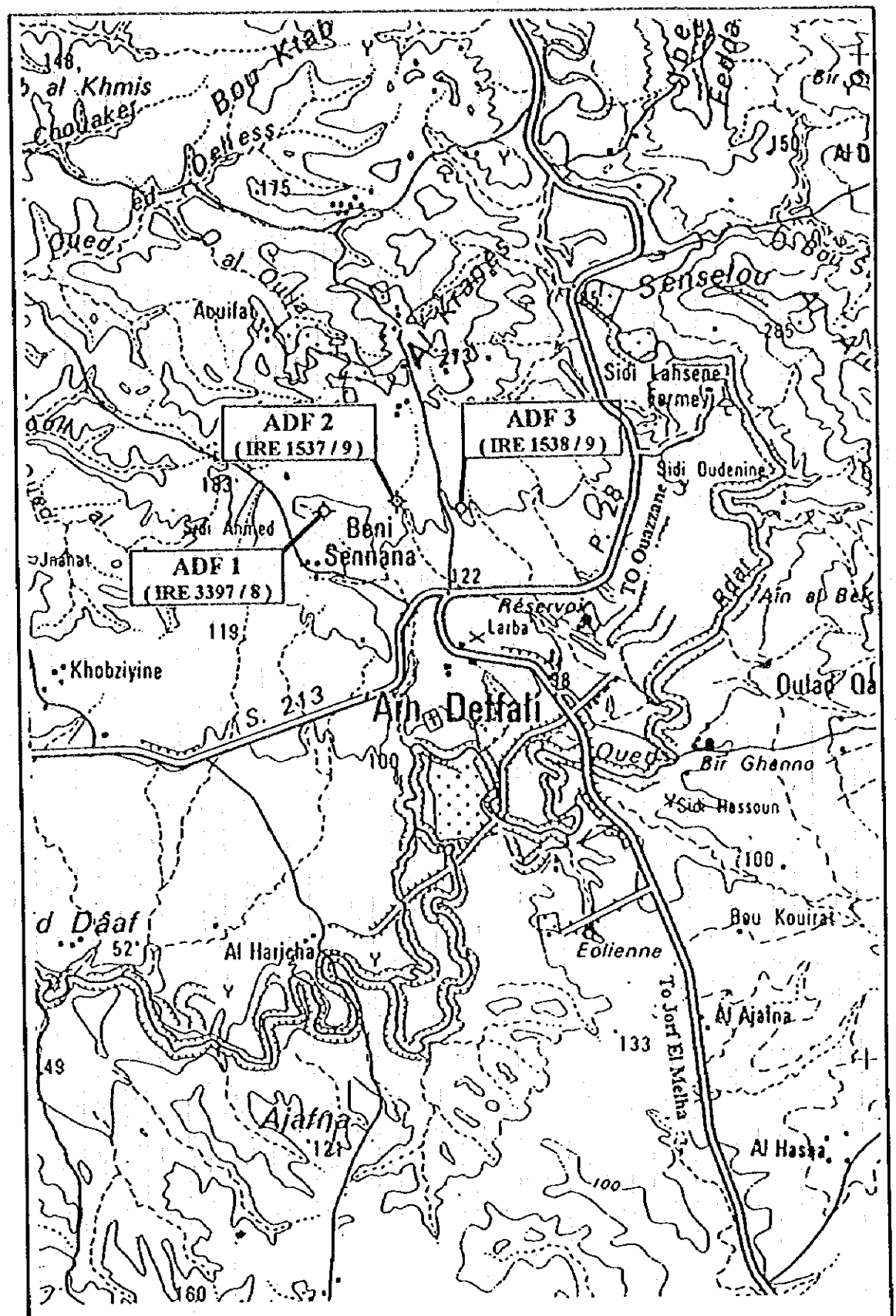


Figure 3.3.1 Location of Exploratoty Well Sites - Ain Defali

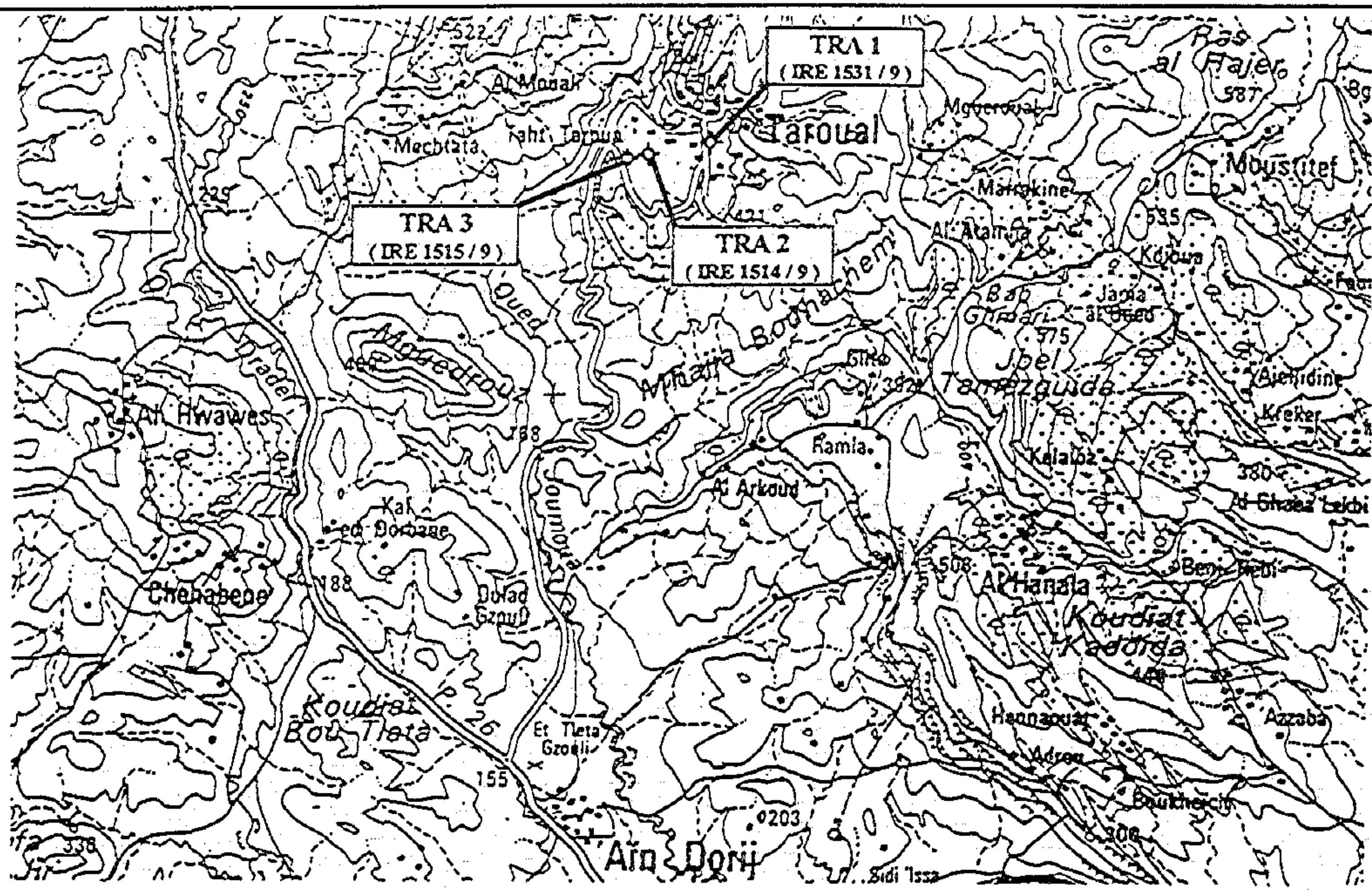


Figure 3.3.2 Location of Exploratoty Well Sites - Teroual

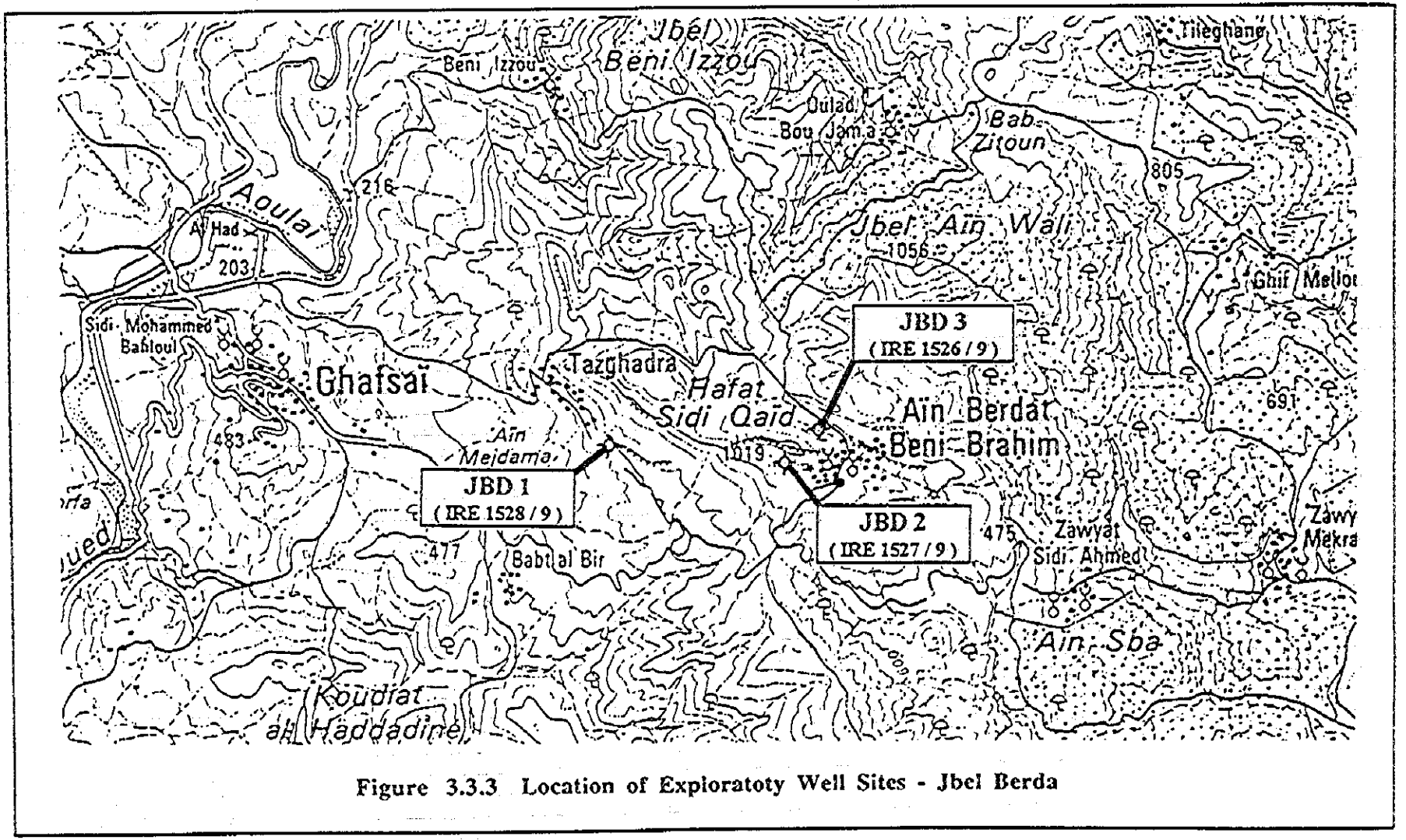
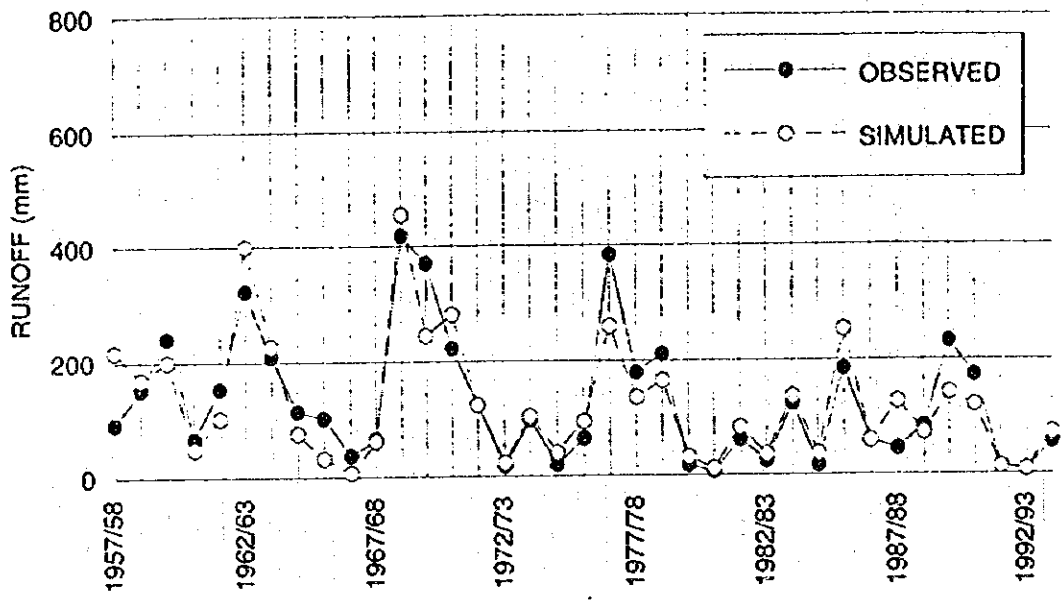


Figure 3.3.3 Location of Exploratoty Well Sites - Jbel Berda

HAD KOURT



RHAFSAI

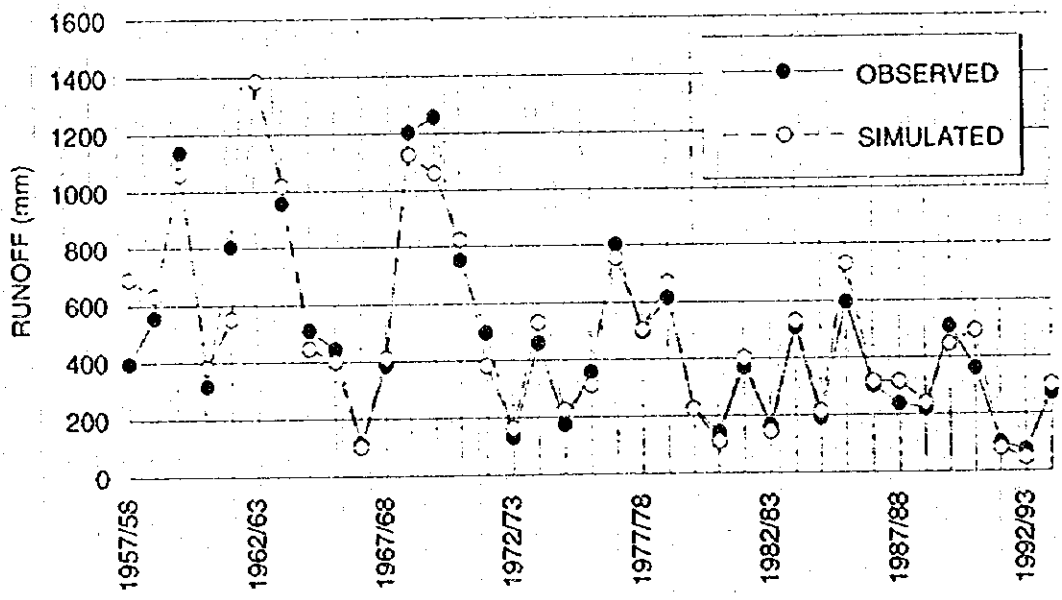
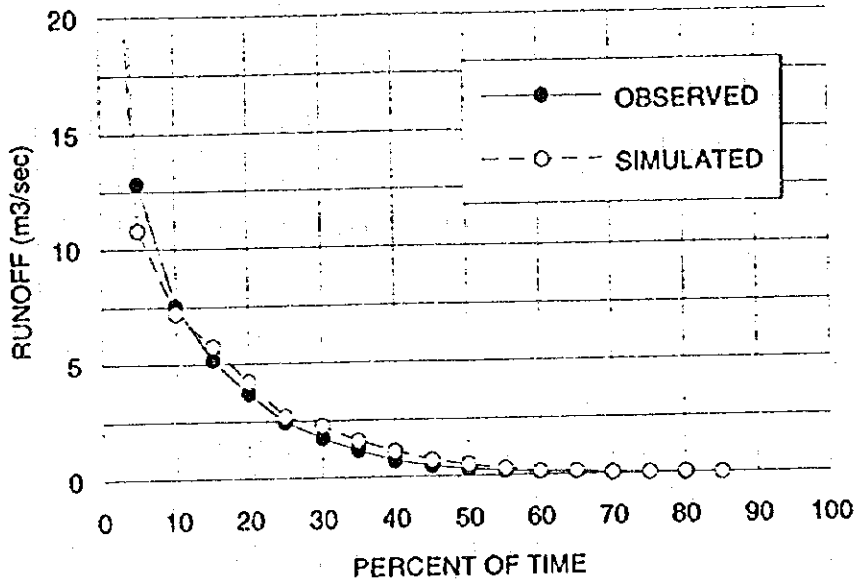


Figure 3.3.6 Comparison of Hydrograph

HAD KOURT



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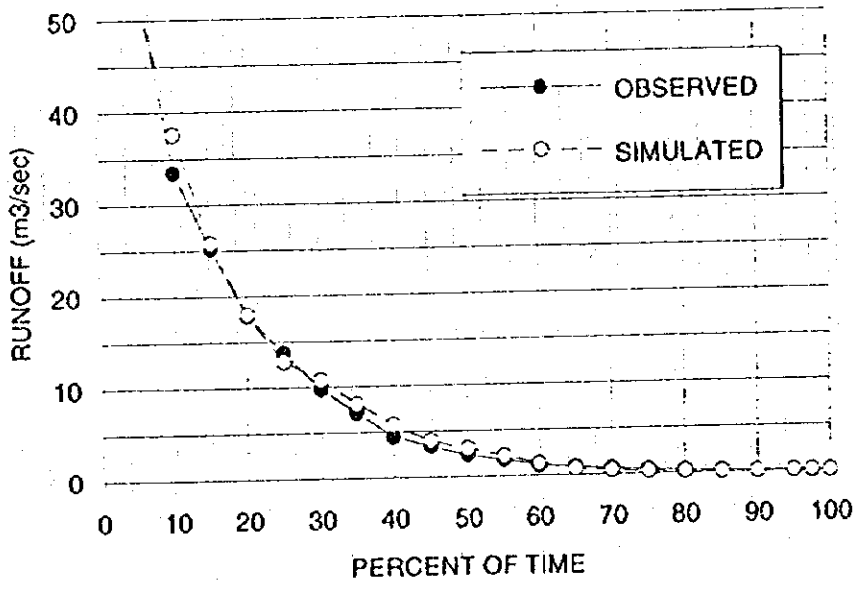


Figure 3.3.7 Comparison of Flow Duration Curve

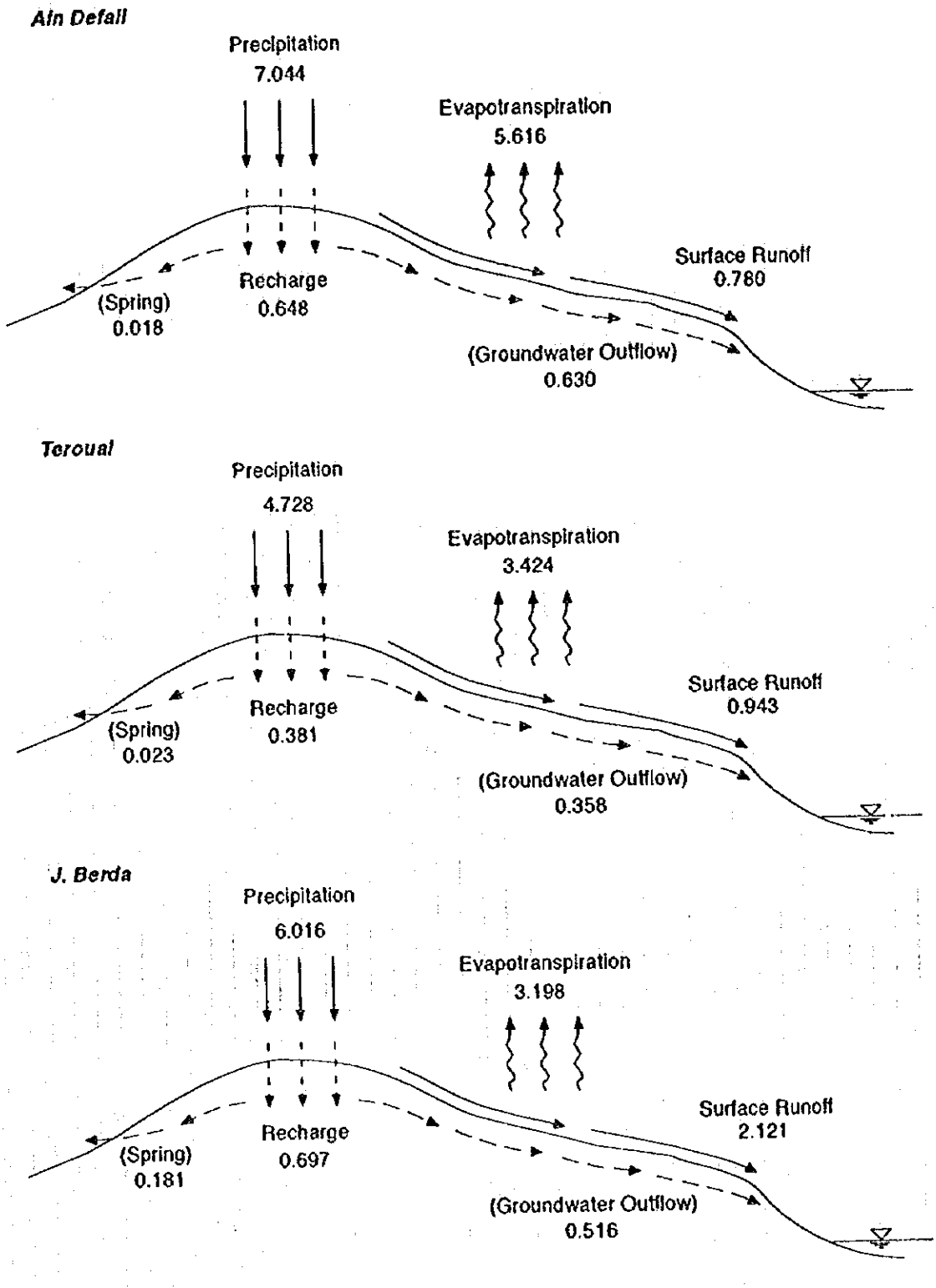


Figure 3.3.8 Water Balance

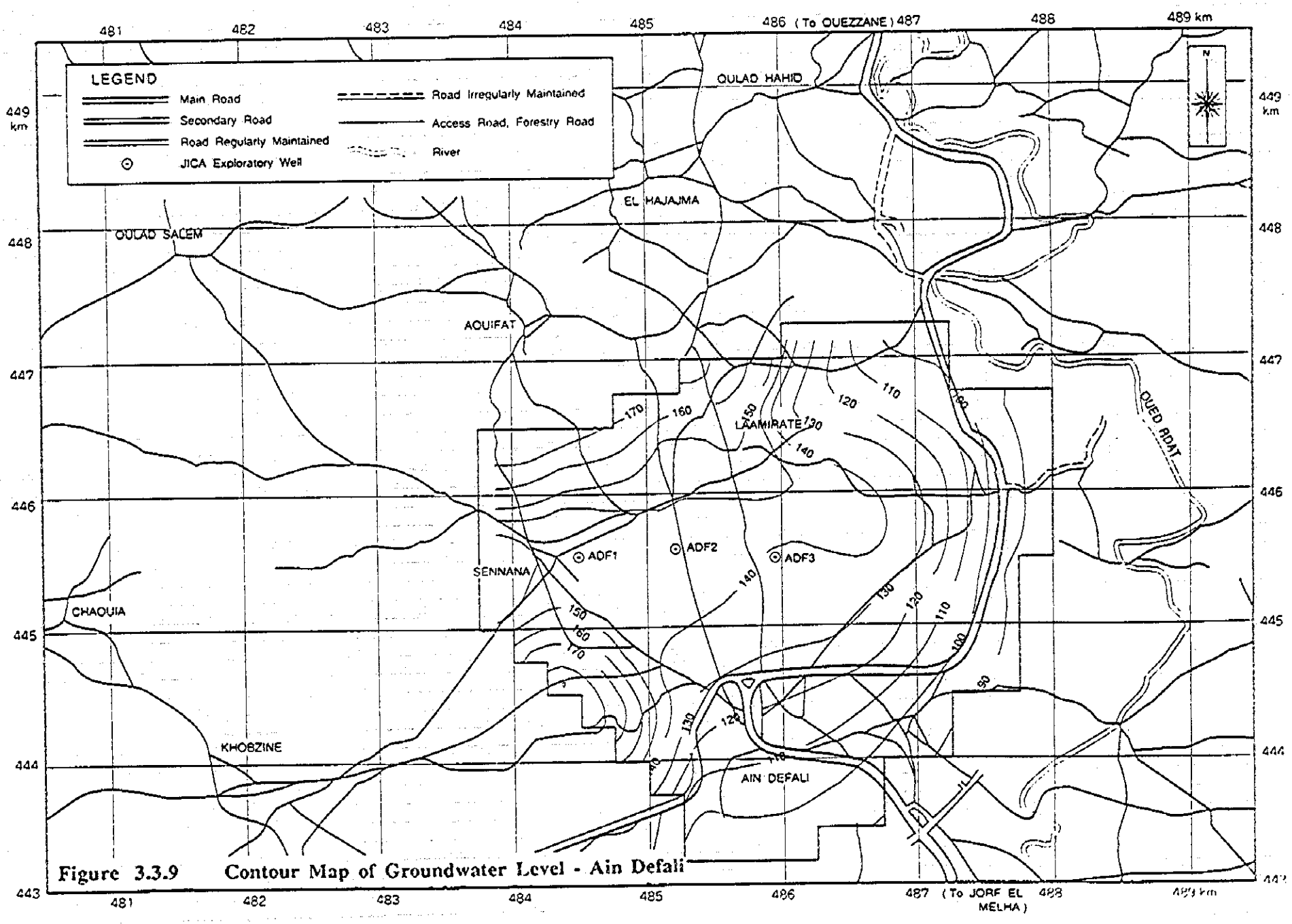


Figure 3.3.9 Contour Map of Groundwater Level - Ain Defali

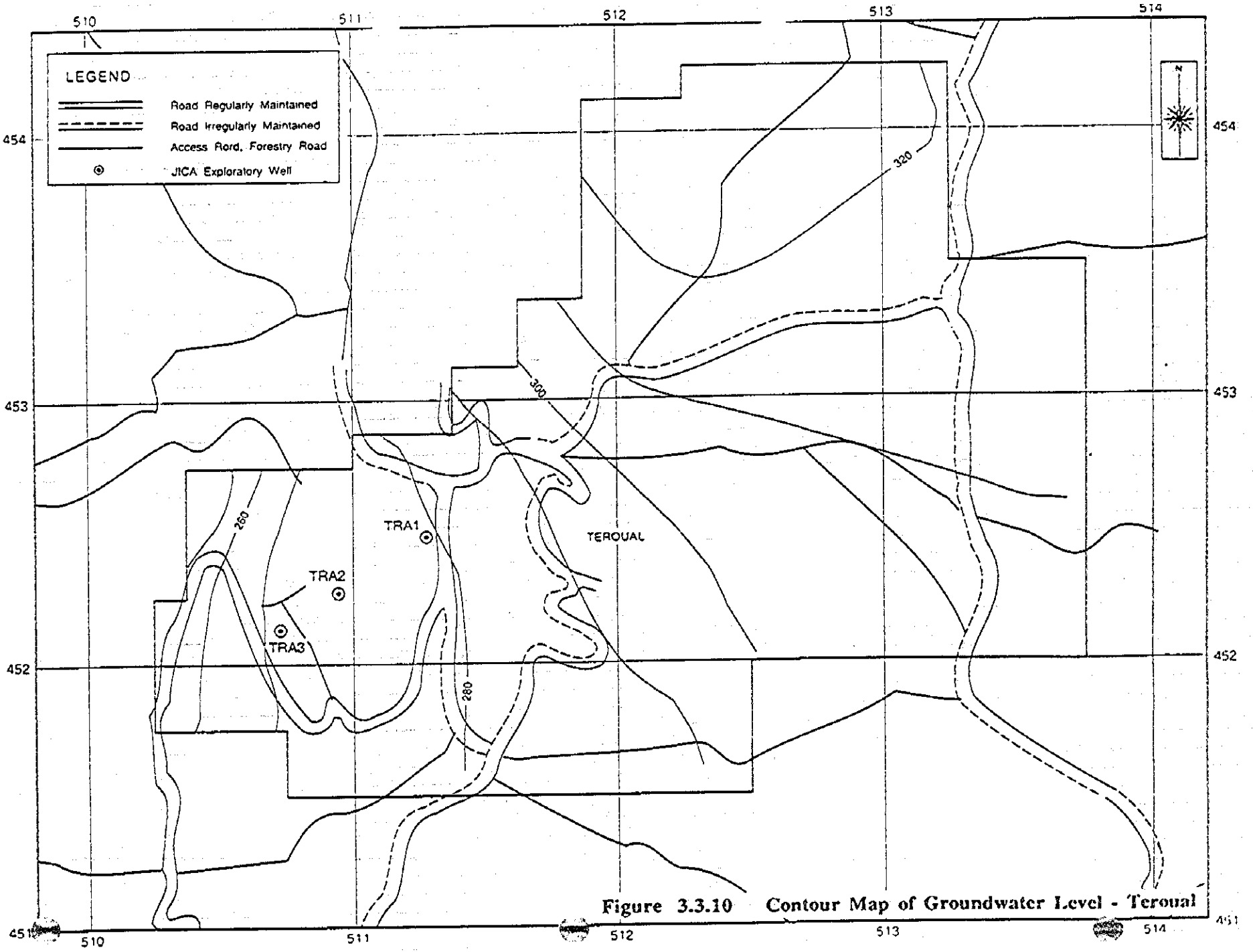


Figure 3.3.10 Contour Map of Groundwater Level - Teroual

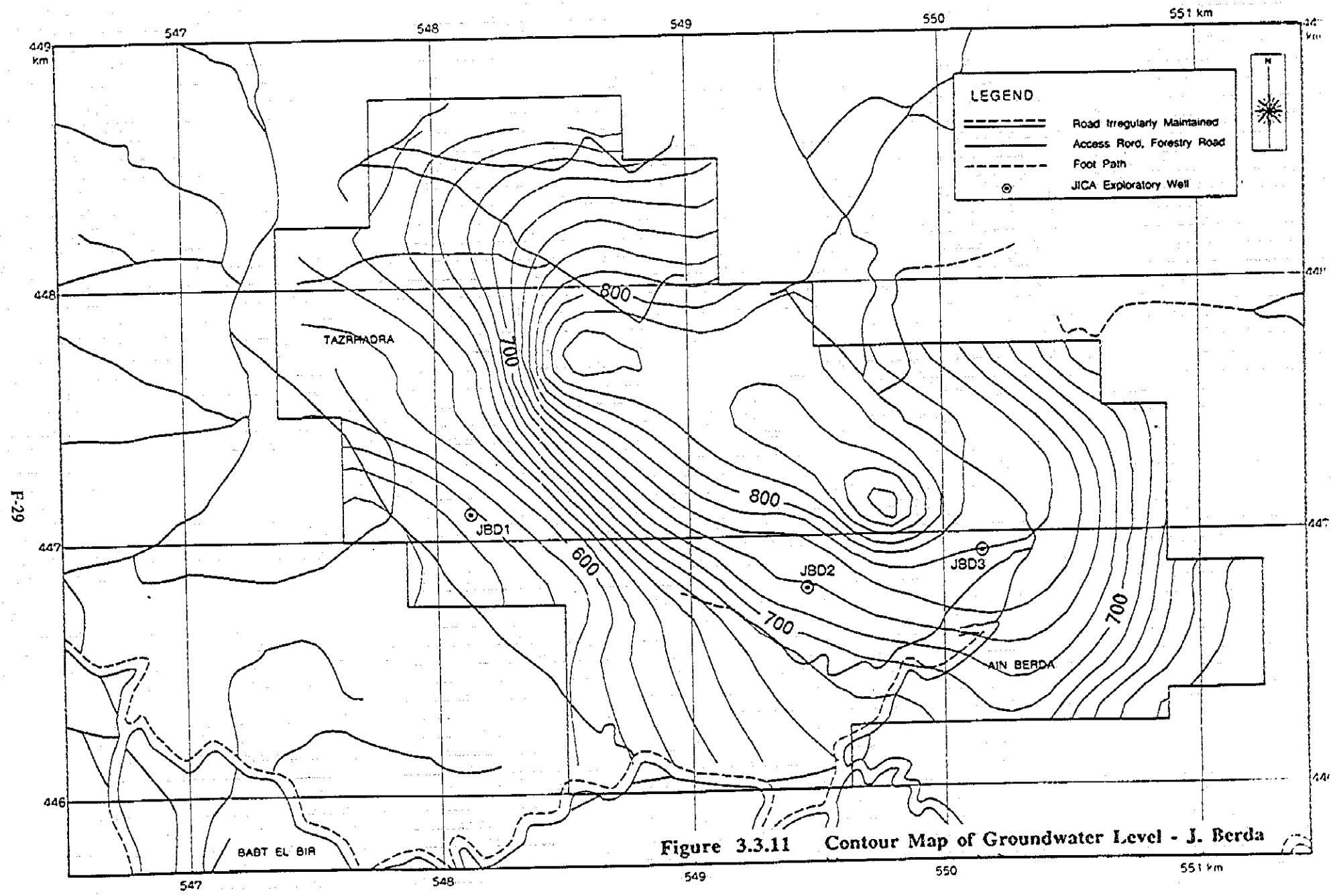


Figure 3.3.11 Contour Map of Groundwater Level - J. Berda

Figure 3.5.1 Plan of Ain Defali Water Supply System

Figure 3.5.2 Plan of Teroual Water Supply System

Figure 3.5.3 Plan of Ain Berda Water Supply System

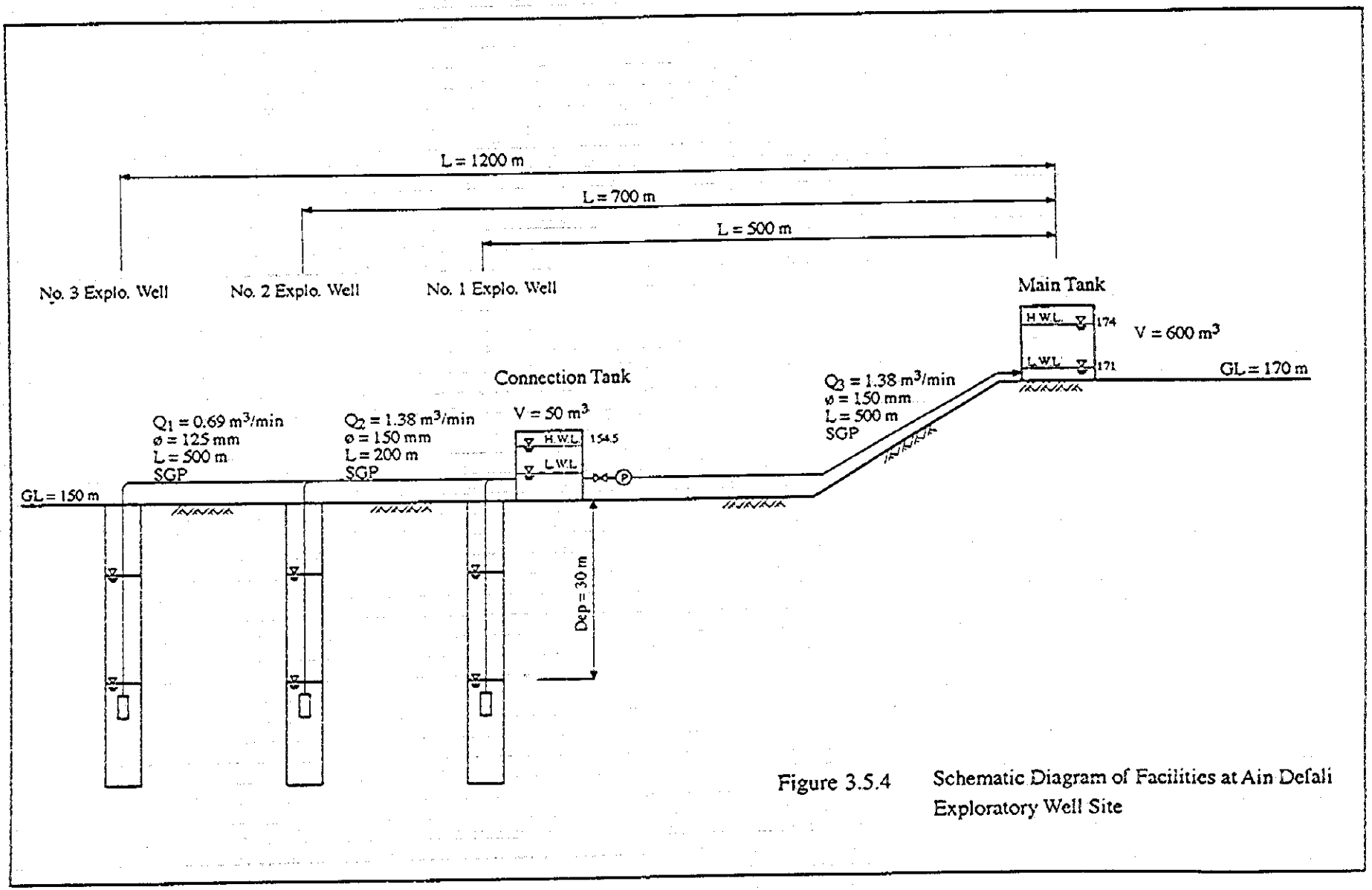


Figure 3.5.4 Schematic Diagram of Facilities at Ain Defali Exploratory Well Site

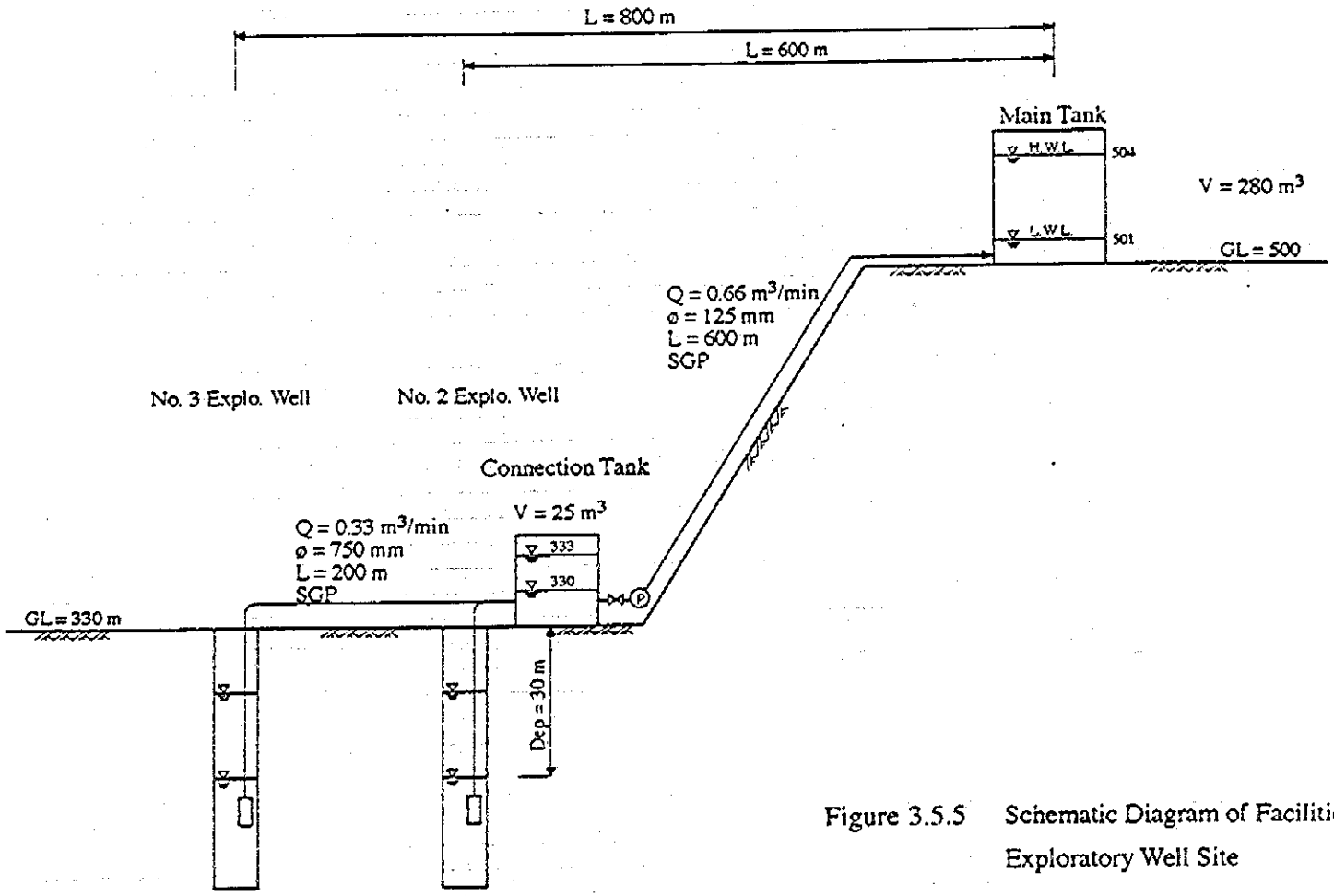


Figure 3.5.5 Schematic Diagram of Facilities at Teroual Exploratory Well Site

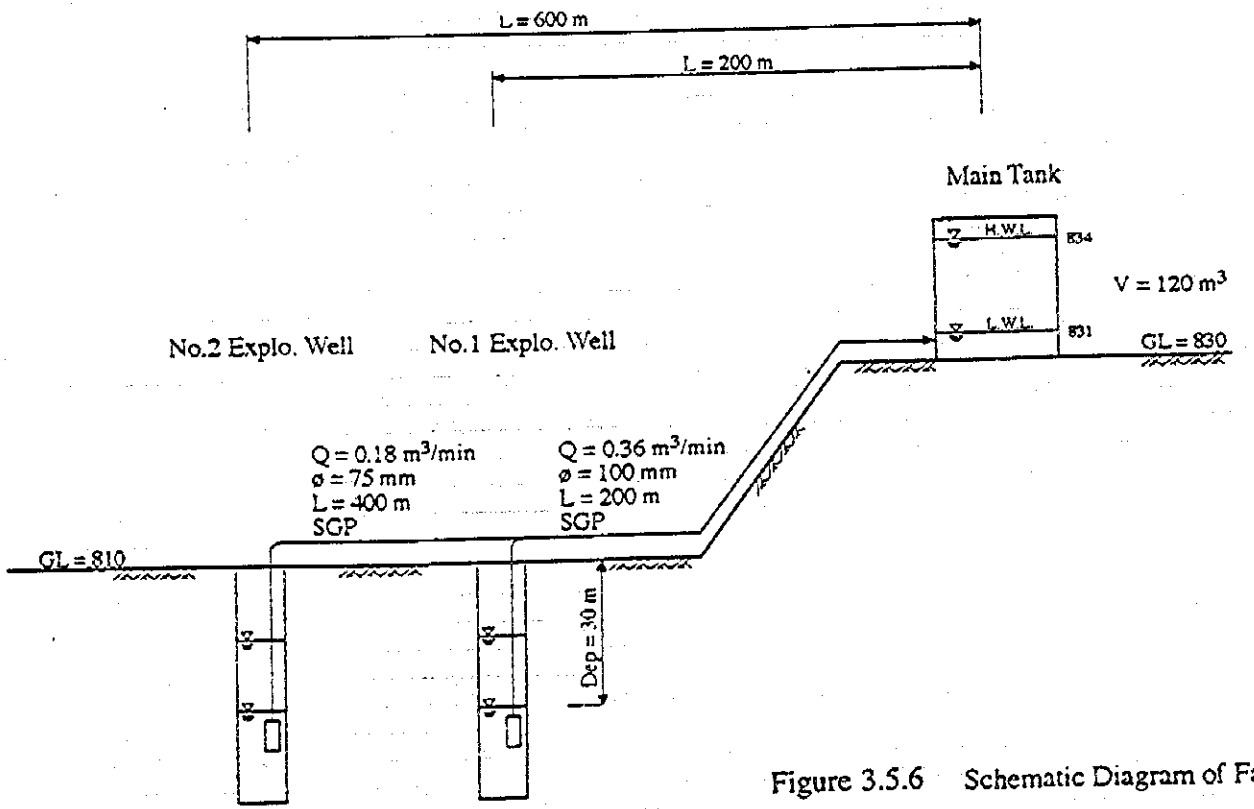
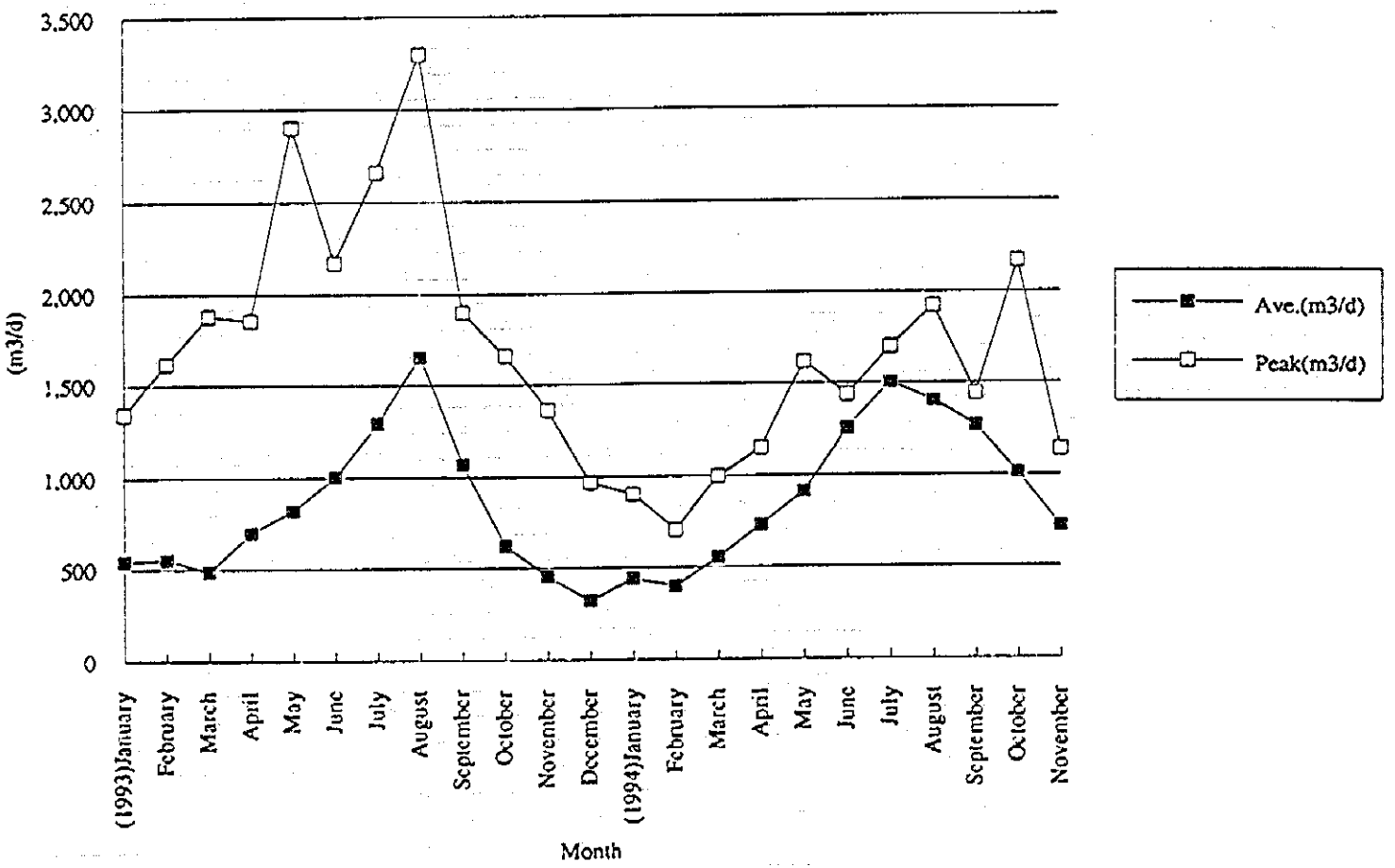


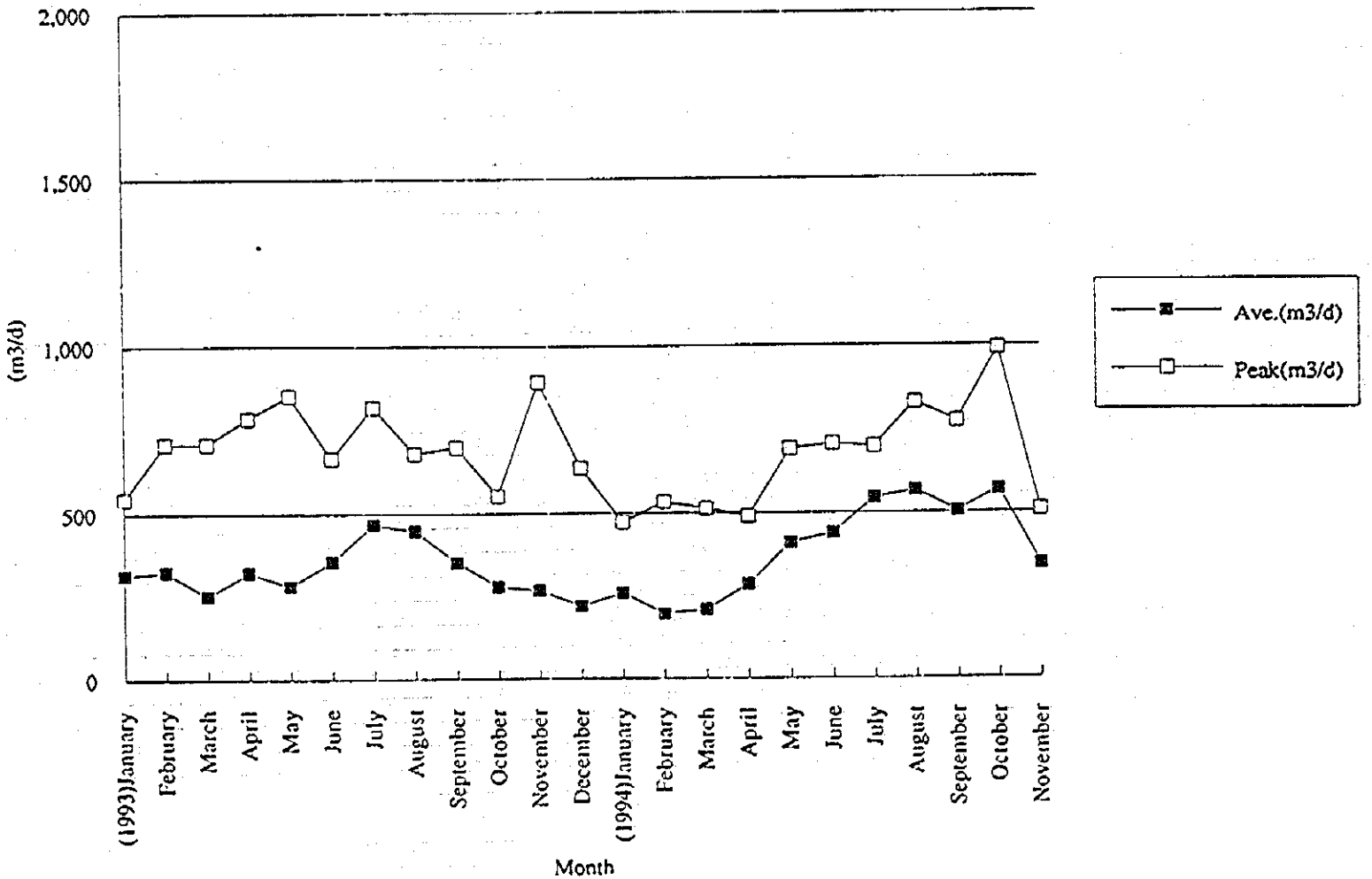
Figure 3.5.6 Schematic Diagram of Facilities at Ain Berda Exploratory Well Site

Figure 4.1.1 Water Production at Ain Gdah Water Treatment Plant



Water production

Figure 4.1.2 Water Production at M'kansa Water Treatment Plant



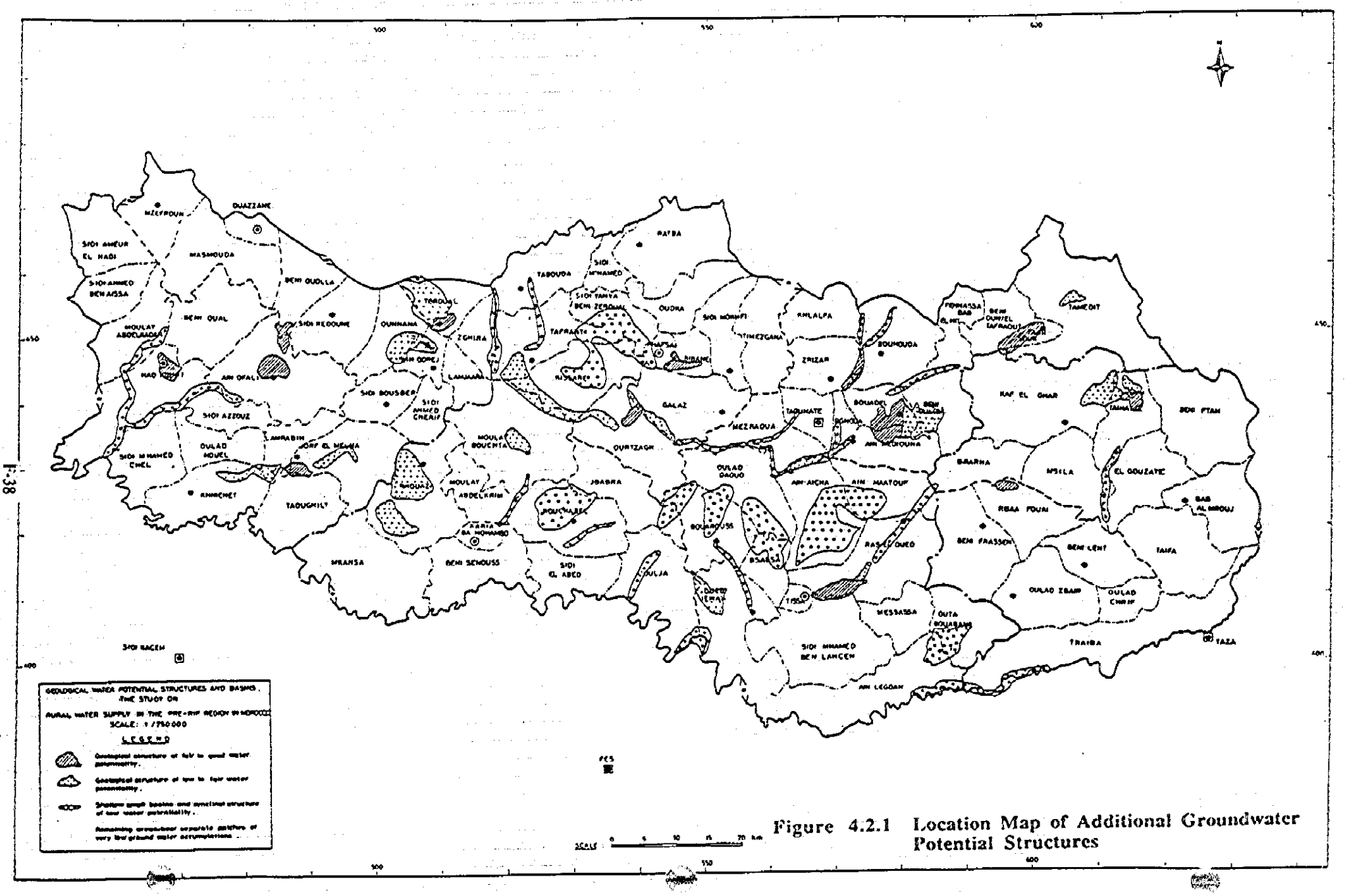
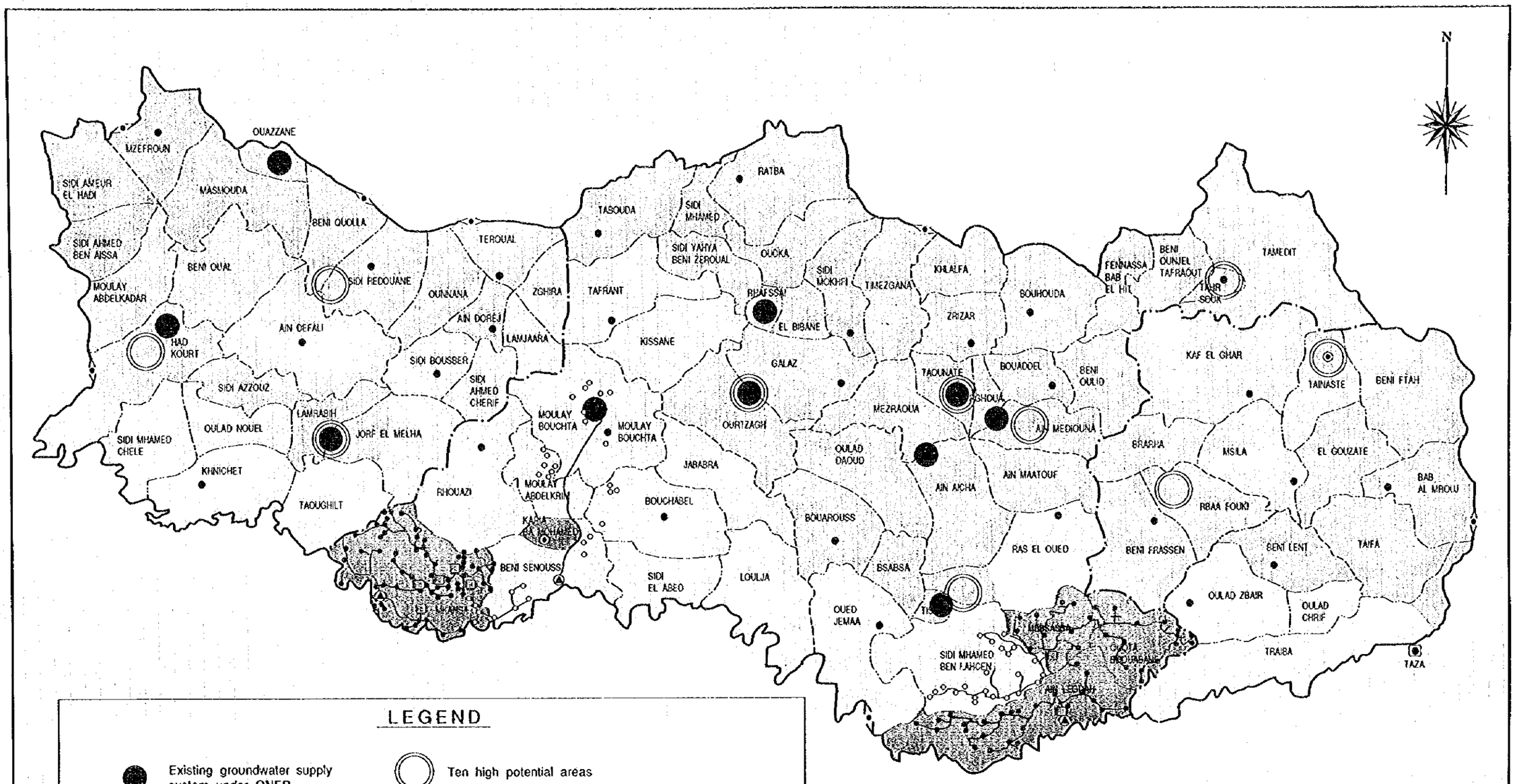


Figure 4.2.1 Location Map of Additional Groundwater Potential Structures



LEGEND

- Existing groundwater supply system under ONEP
- Ten high potential areas
- Existing surface water supply area
- Ongoing and proposed surface water supply area
- Proposed future groundwater supply area
- Model area (propose as future groundwater supply area)
- Proposed future groundwater supply area from bouagba
- Proposed future supply area by Al Wahada reservoir
- Future supply area by other water sources

EXISITING SURFACE WATER SUPPLY SYSTEM

- Treatment plant
- Existing reservoir
- Planning reservoir
- Planning pipe line and douars
- Existing pipe line and douars

Figure 4.3 Covering Area by Supply System

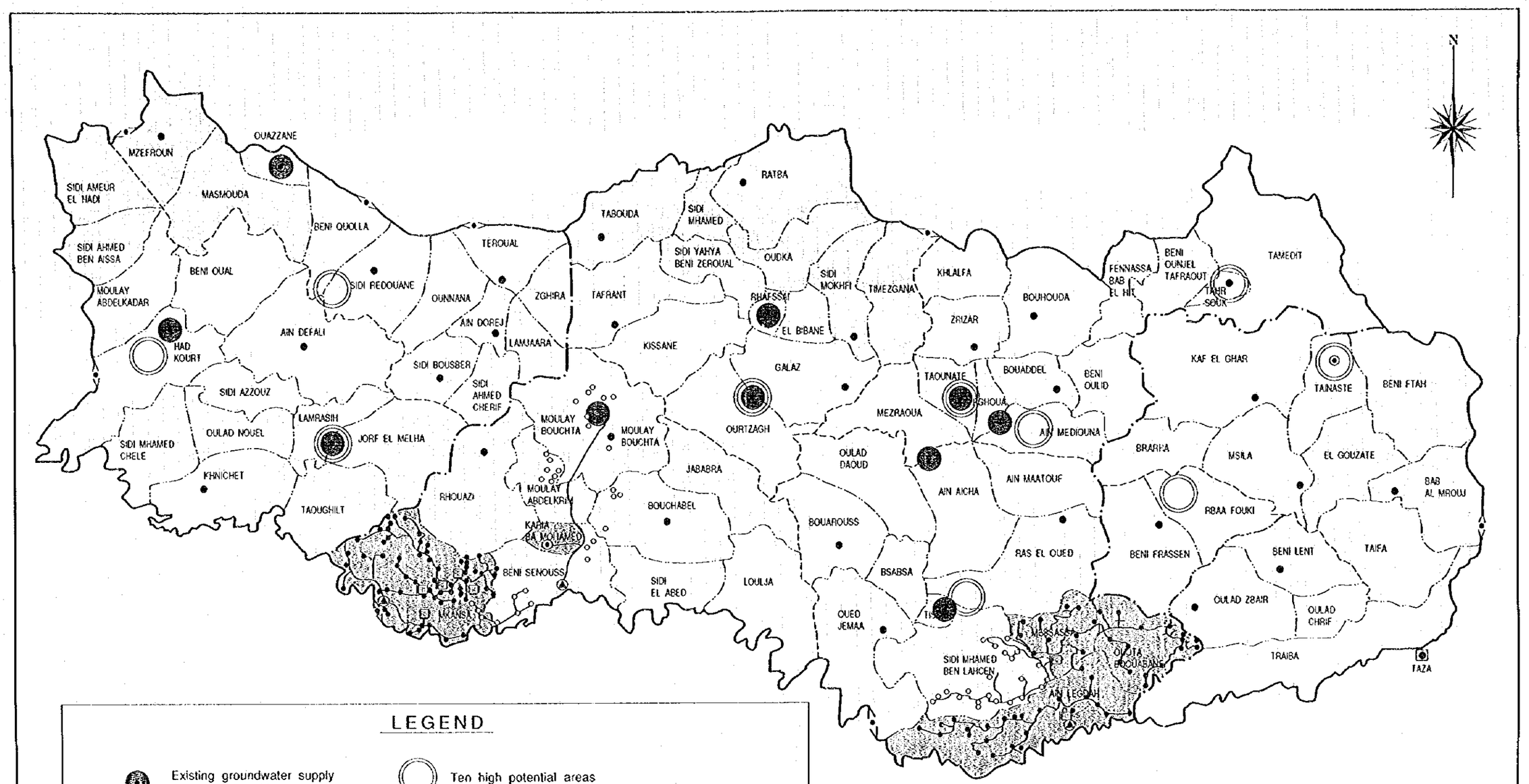


Figure 4.3 Covering Area by Supply System

Figure 4.5.1 Implementation Plan for Water Supply System