

THE HASHEMITE KINGDOM OF JORDAN MINISTRY OF WATER AND IRRIGATION

Water Information System (WIS)

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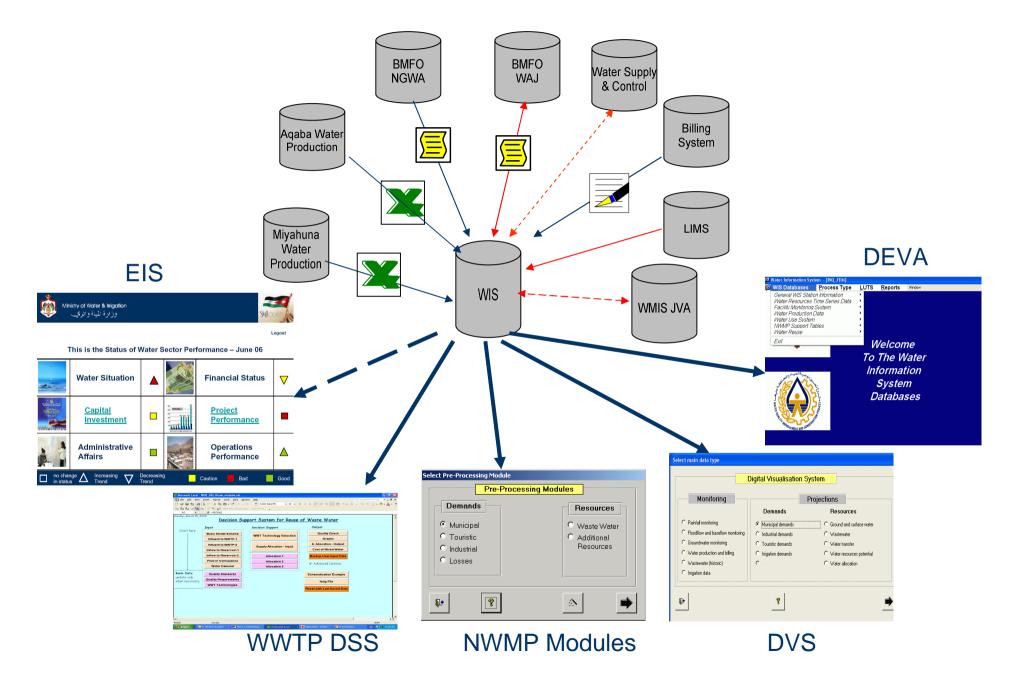
What is WIS

- WIS is a methodological framework, databases and tools to manage relevant water data and produce the digital NWMP.
- WIS is considered as the authorized source that provides water specialists with reliable data and information for water sector monitoring, management and planning.
- Collected raw water data from the field is stored in a centralized Oracle database, while spatial data is managed using GIS tools.
- Different applications and interfaces to store data and produce information products been developed using Oracle Developer as DEVA and visual basic for DVS and NWMP balancing modules.

WIS Data Sets

- 1. Water Resources Base Information
- 2. Monitoring Wells & Springs Water Quality
- 3. Water & WWTP Quality from LIMS
- 4. WWTP field operation quality tests
- 5. WWTP influent & effluent
- 6. Monthly Water Production from wells & springs
- 7. Daily Rainfall & Climatological readings
- 8. Monitoring Wells Water Level
- 9. Springs Discharge
- 10. Surface Water Flow (Wadis)
- 11. NWMP Modules Results (STPs)
- 12. Waste Water Reuse

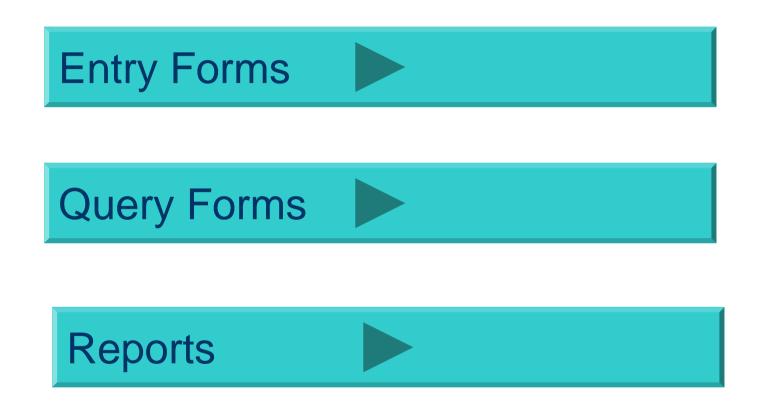
WISs in Water Sector



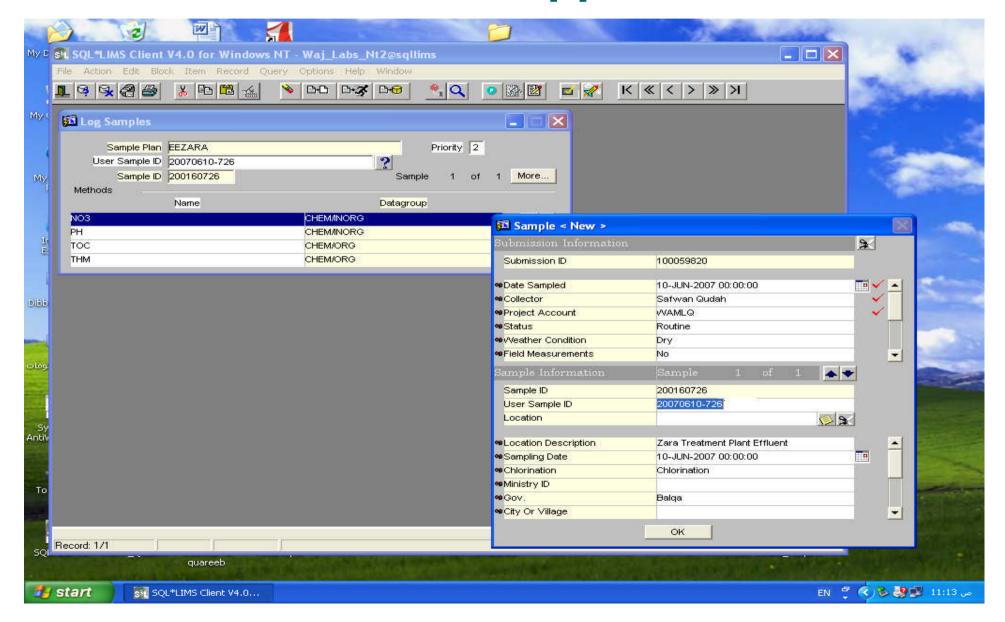
Current Situation

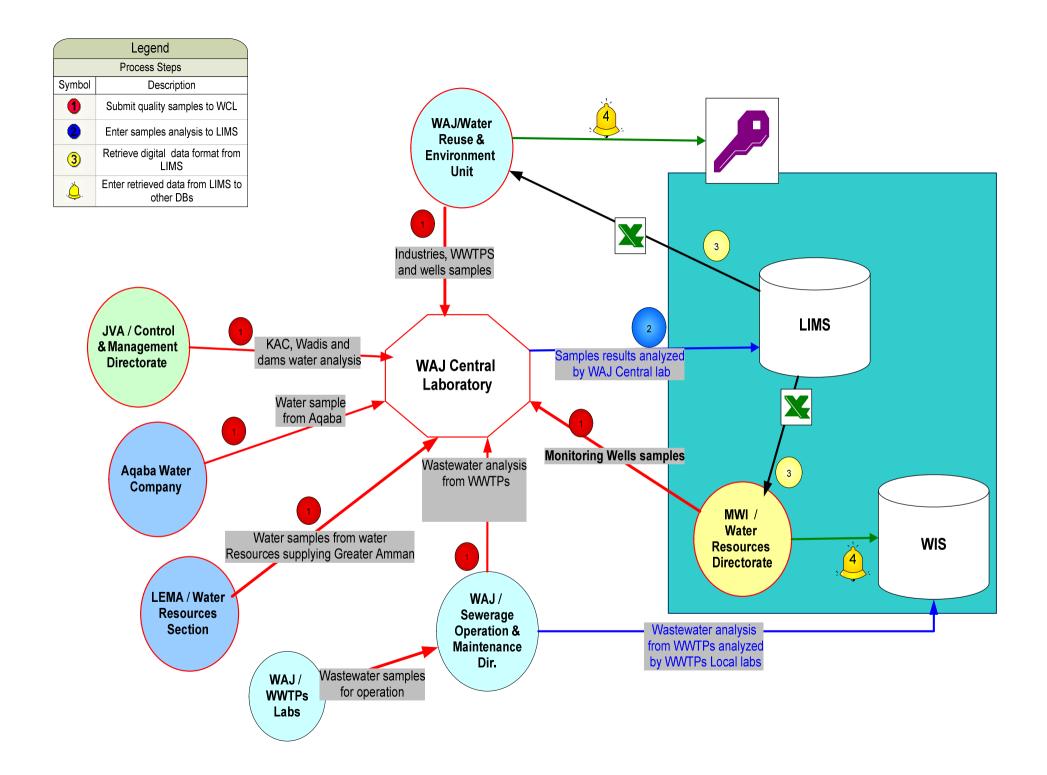
- WIS/DEVA user interface has been upgraded & deployed to Internet module on Oracle Application Server.
- New units to take care of WIS has been established:
 - WIS unit (business process and data flows) in MWI
 - Water Systems department under unified sector ICTU (service department).

WIS DEVA Tools

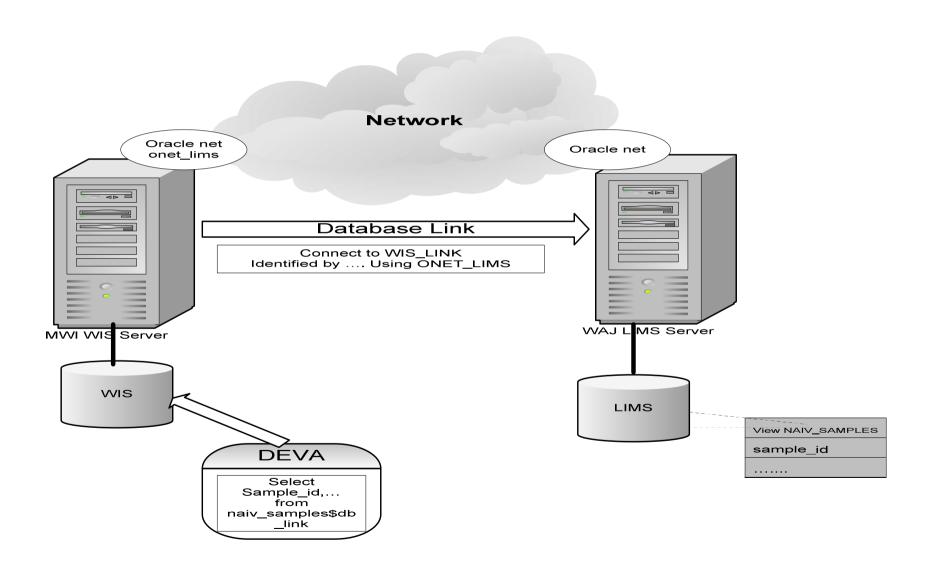


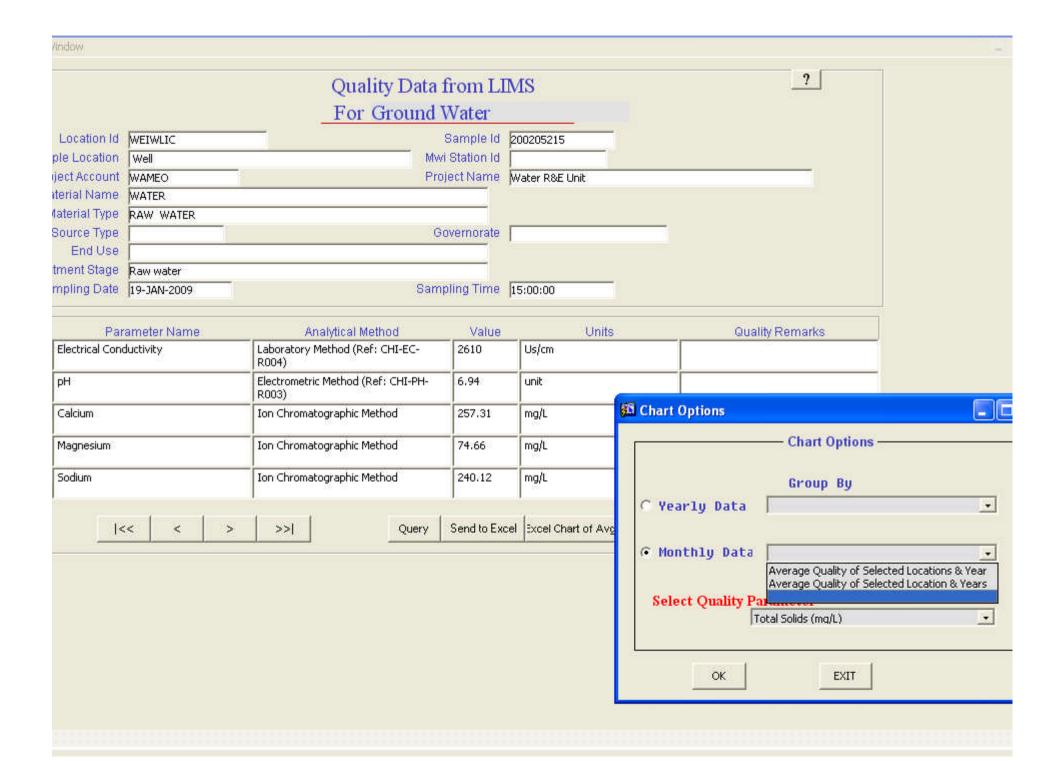
SQL*LIMS Application





Current Situation





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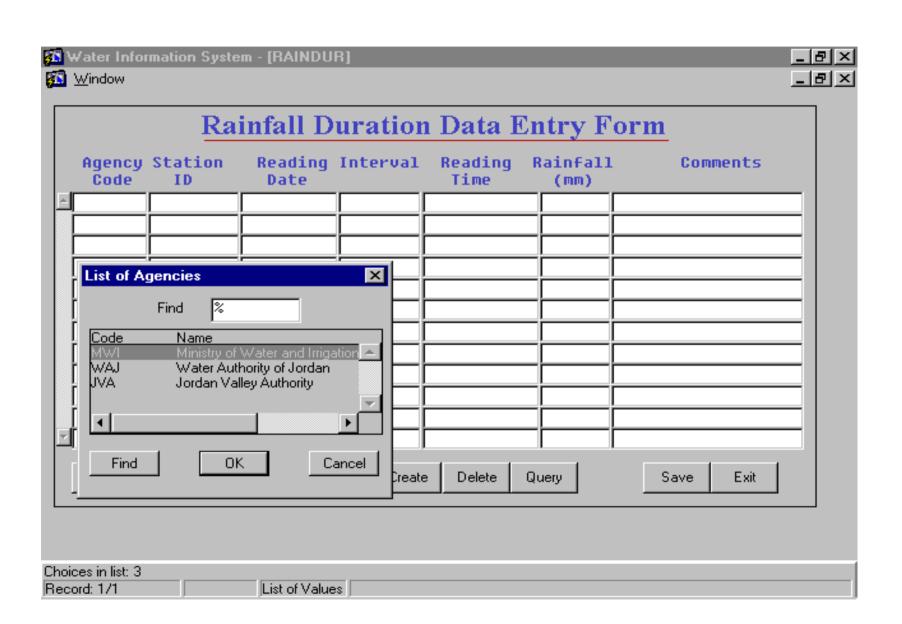
data / Sheet1 / Sheet2 / Sheet3 /

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Thank You

Entry Forms

- On-line Validation Procedures
- List of Values & LUTs
- Automatic Data Field Calculations
- Security



Query Forms

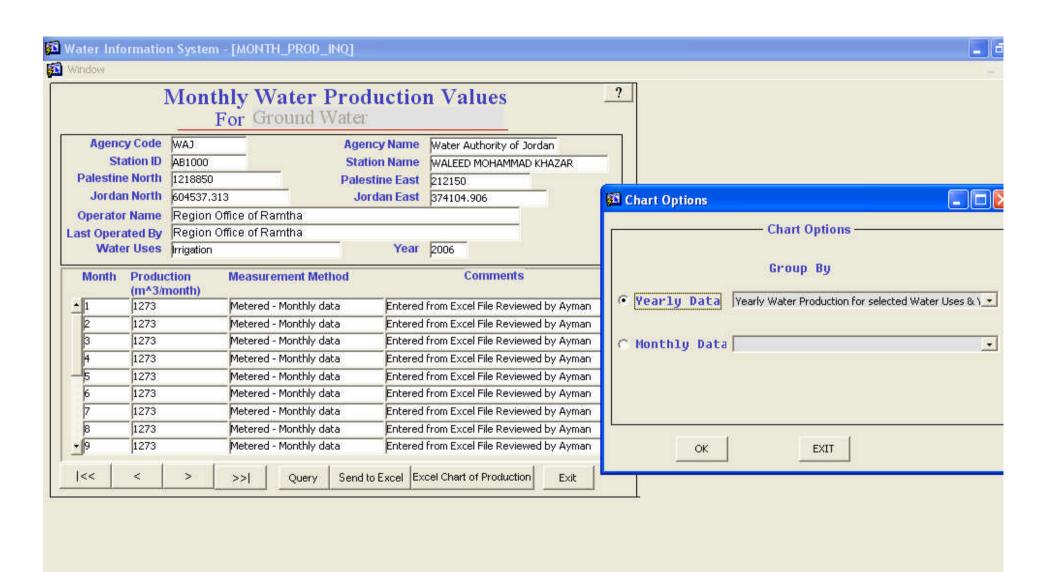
Table Based Query

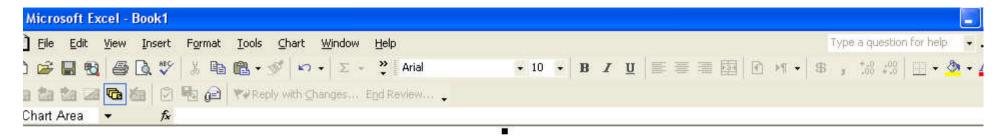


Dynamic Queries

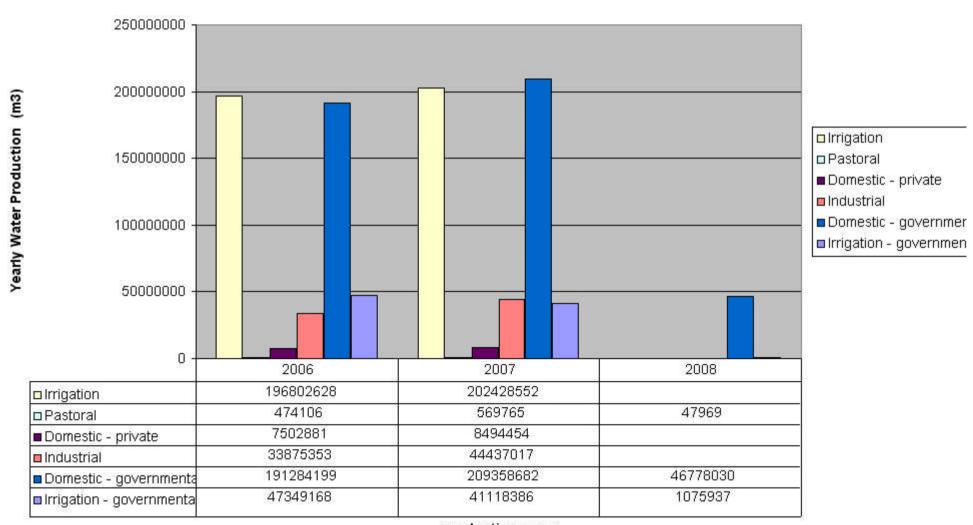








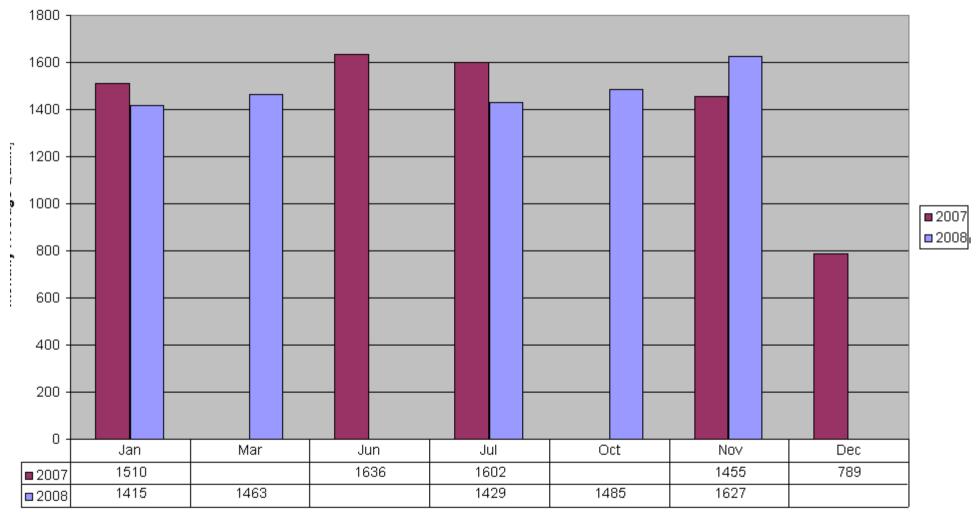
Yearly Water Production (m3)

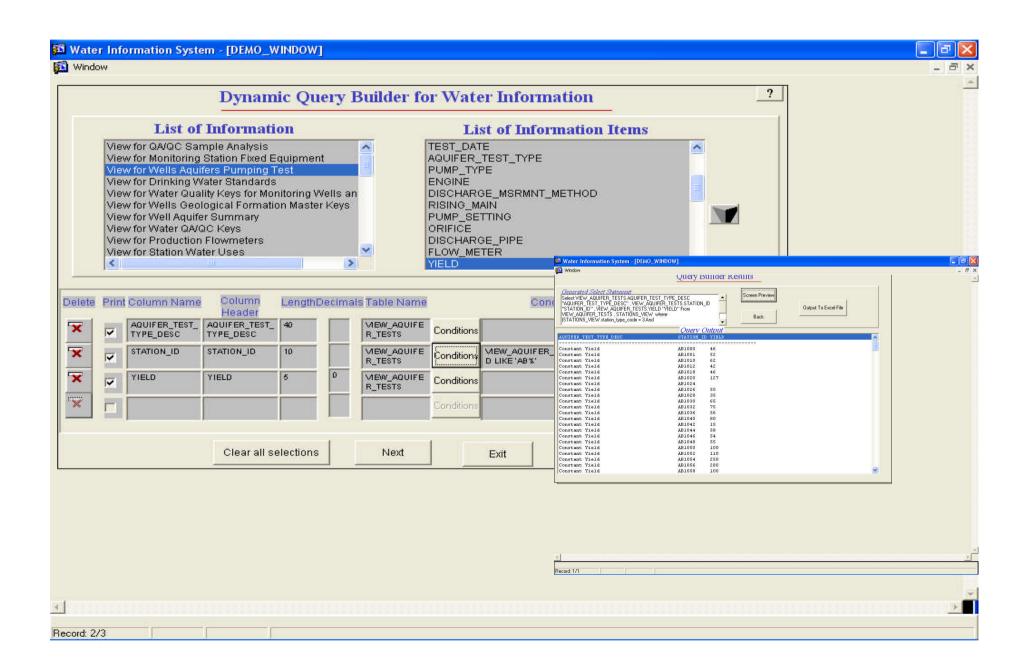


production_year

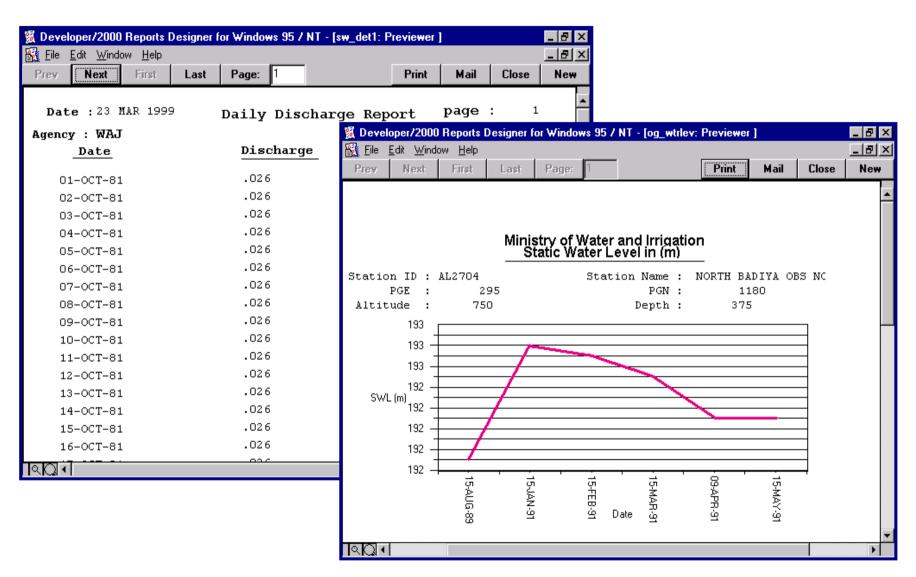


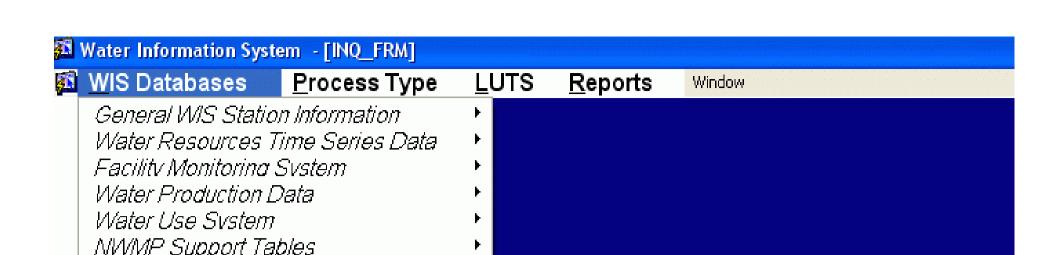
Monthly Average Quality for Awajan No. 23 Well(WEAWA23) for Electrical Conductivity (Us/cm)





Reporting







Water Reuse

Exit

Welcome
To The Water
Information
System
Databases

Select Pre-Processing Module

Pre-Processing Modules

Demands

- Municipal
- Touristic
- Industrial
- C Losses

Resources

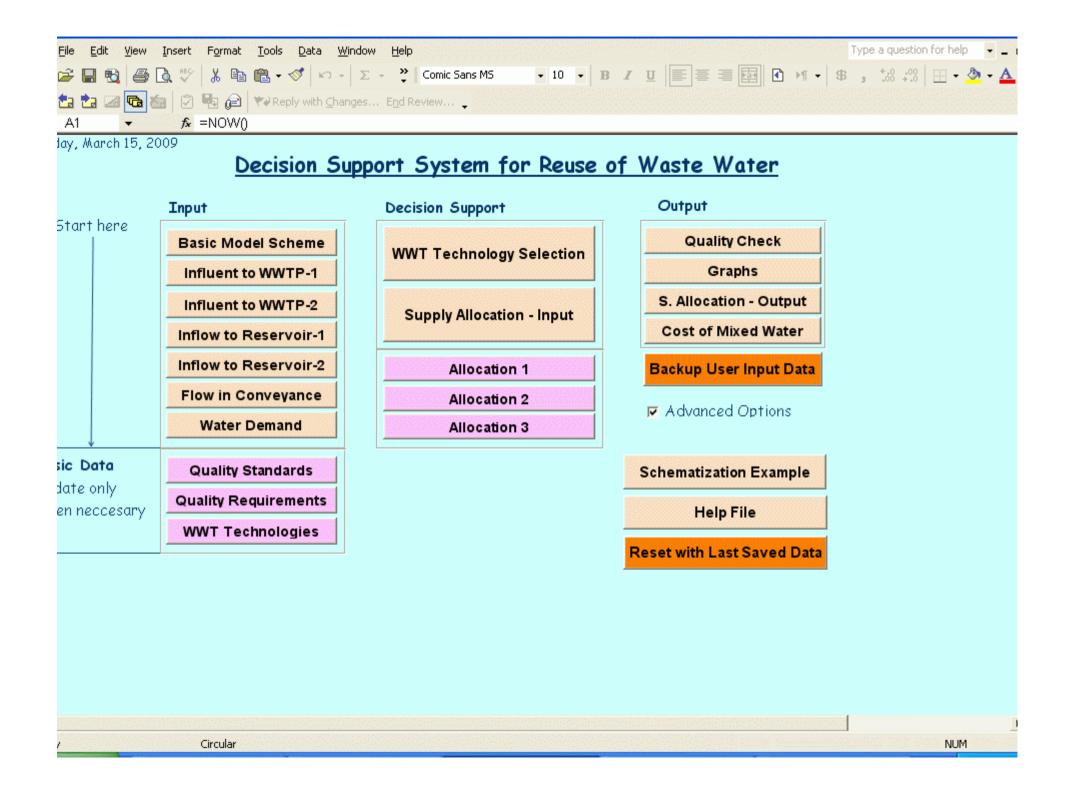
- Waste Water
- Additional
 Resources











Select main data type

Digital Visualisation System

Monitoring

- Rainfall monitoring
- Floodflow and baseflow monitoring.
- Groundwater monitoring
- © Water production and billing
- Wastewater (historic)
- Irrigation data

Projections

Demands

- Municipal demands
- Industrial demands
- Touristic demands
- Irrigation demands
- \cap .

Resources

- Ground and surface water
- Wastewater
- Water transfer.
- Water resources potential
- Water allocation











Logout

This is the Status of Water Sector Performance - June 06

