

#### THE JUCAR RIVER BASIN DISTRICT



The Júcar RBD is comprised of a group of nine (9) River basins:

- Cenia
- Mijares
- Palancia
- Turia



- Serpis
- Marina Alta
- Marina Baja
- Vinalopó

#### THE JUCAR RIVER BASIN DISTRICT



## QUALITY NETWORKS AT JRB

ICA (Physical-quimical and microbiological)

BIOLOGICAL

RESERVOIRS

SAICA (Continous, real time)

DANGEROUS SUBSTANCES

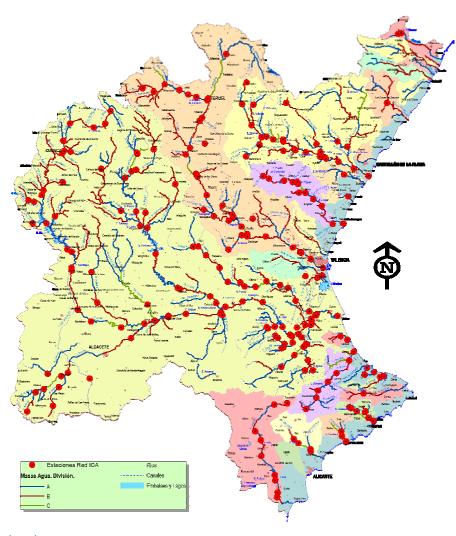
GROUNDWATER

### ICA NETWORK

Integral Water Quality Network or ICA Network:

- \* Controls surface water quality in the main rivers of the basin.
- \*260 active stations.
- \*Analysis, interpretation and diagnosis of physical-chemical and microbiological parameters.
- Verifies the water quality evolution.
- \*The different sub-networks are designed according to the different environmental objectives and uses of the resource

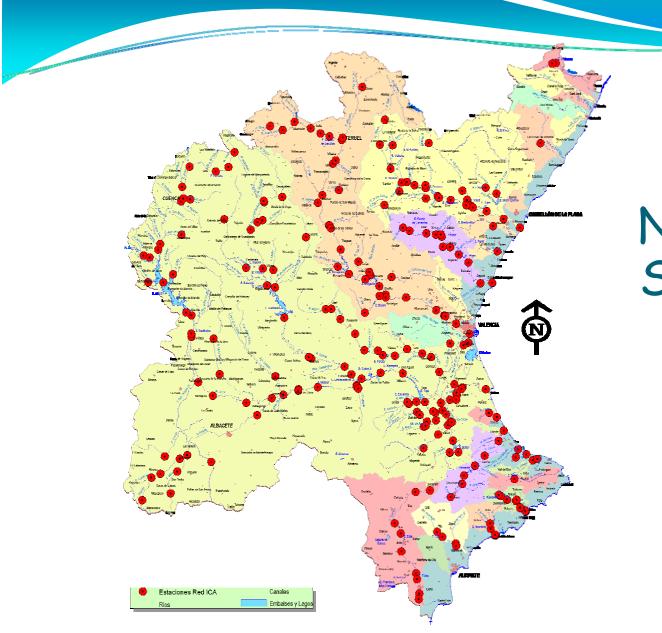
### Surface Water Bodies



297 Water Bodies

- -Non Controlled
  - 63 Dry
  - 2 Brackish
  - ·22 Reservoirs
- -210 Controlled according to the risk of not attaining Good Status
  - •108 Water bodies with HIGH risk
  - •55 Water bodies with MEDIUM risk
  - •47 Water bodies with LOW risk

15/10/2009

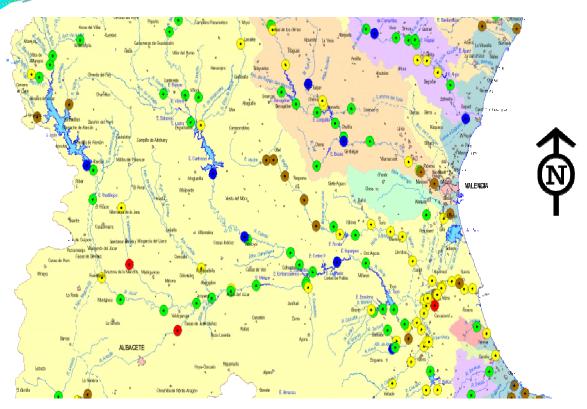


### ICA Network Stations

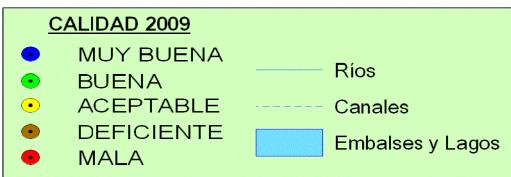
### ICA NETWORK

Formed by 260 stations belonging to different sub-networks to control physical-chemical and microbiological status:

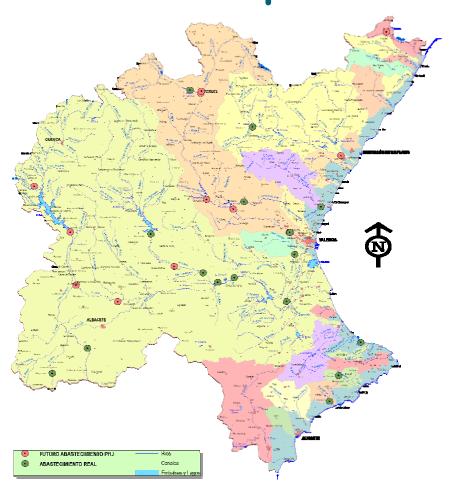
- Drinkinig water network
- ·Fish network
- Irrigation network
- ·Water quality control network for bathing areas
- ·Control network for areas sensitive to nitrate contamination
- Basic Control network
- Intercalibration network
- ·Reference network
- ·Control network for emissions to the Med Sea (Barcelona Agreement)
- ·EUROWATERNET network



# Surface water status assessment



# Prepotable water networks



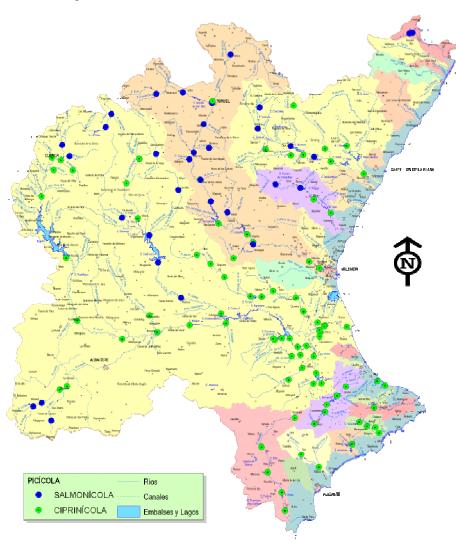
11 control stations in pre-potable sections, defined in article 63 of JHP

17 control stations upstream of the diversions for urban supply

<u>Determination and</u>
<u>follow-up of controlled</u>
<u>parameters</u> according to
Prepotable Directive and
WFD

Frequency depending on town size and obtained Quality

# Fish network



Types of control according to ecological requirements:

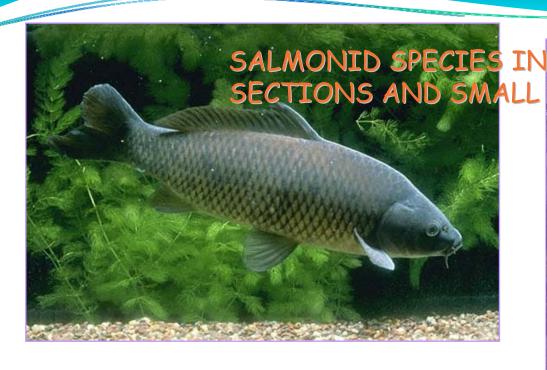
- ·33 Salmonid stations (in upper rivers and small basins).
- ·88 Cyprinid stations (in middle/lower and antrophised basins).

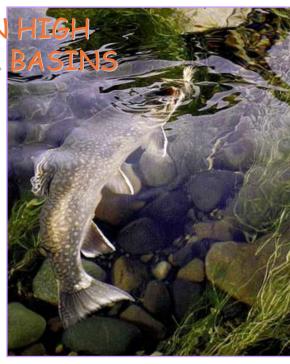
Determination and follow-up of limiting parameters for fish life:

•nitrites, dissolved oxygen,
chlorine...

Frequency

- ·monthly -UE
- ·quarterly



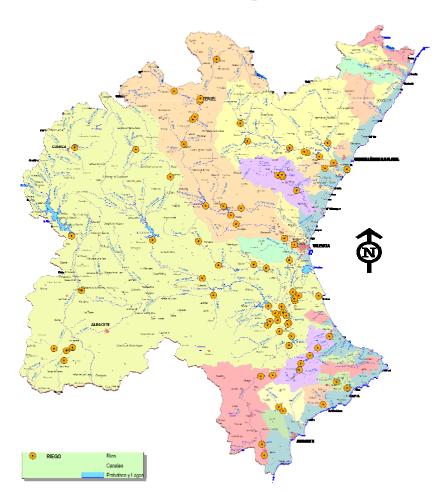


Fish Network

CYPRINID SPECIES IN MIDDLE/LOW SECTIONS AND ANTROPHISED BASINS



# Irrigation Network

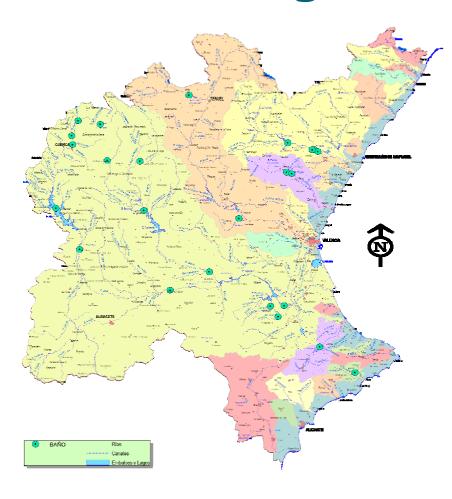


Surfaced (or mixed) water quality in superficial in agricultural demand units (ADU) with 81 control stations.

Determination and follow-up of parameters defining water quality for irrigation: Chlorides, DBO<sub>5</sub>, Boron, Coliform, pH, permeability.

Quarterly Frequency

# Water Quality control network for bathing areas



7 stations in bathing areas declared to the EU and designated by the Regional Authorities (coordination between Administrations)

·16 in fresh water spots for recreational use according to art. 63 of JHP.

<u>Determination and follow-up of parameters</u>

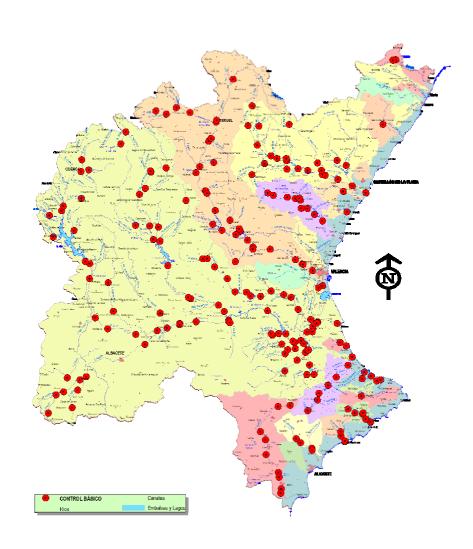
Microbiological and physical-chemical.

<u>Frequency</u> from May -Sept. Fortnightly - EU

Monthly -Rest

15/10/2009

## Basic Control Network



- •Control of 210 water bodies with 215 stations
- •Will result in the Surveillance and Operative networks of WFD.
- <u>Determination and</u><u>follow-up of general</u><u>parameters</u>:

nutrients, salinity, oxygen balances...

**Quarterly Frequency**