IBARROLA FRUITS

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IRRIGATION WATER MANAGEMENT

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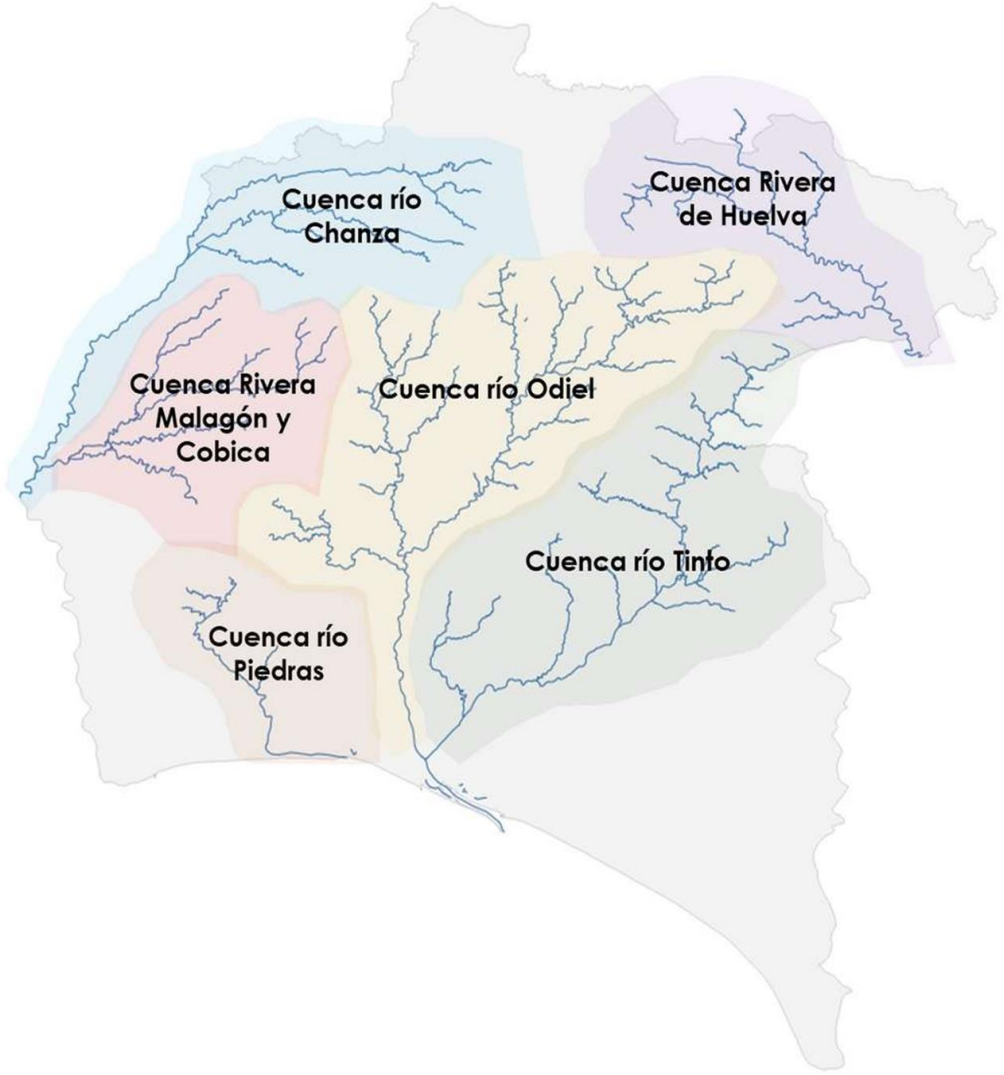
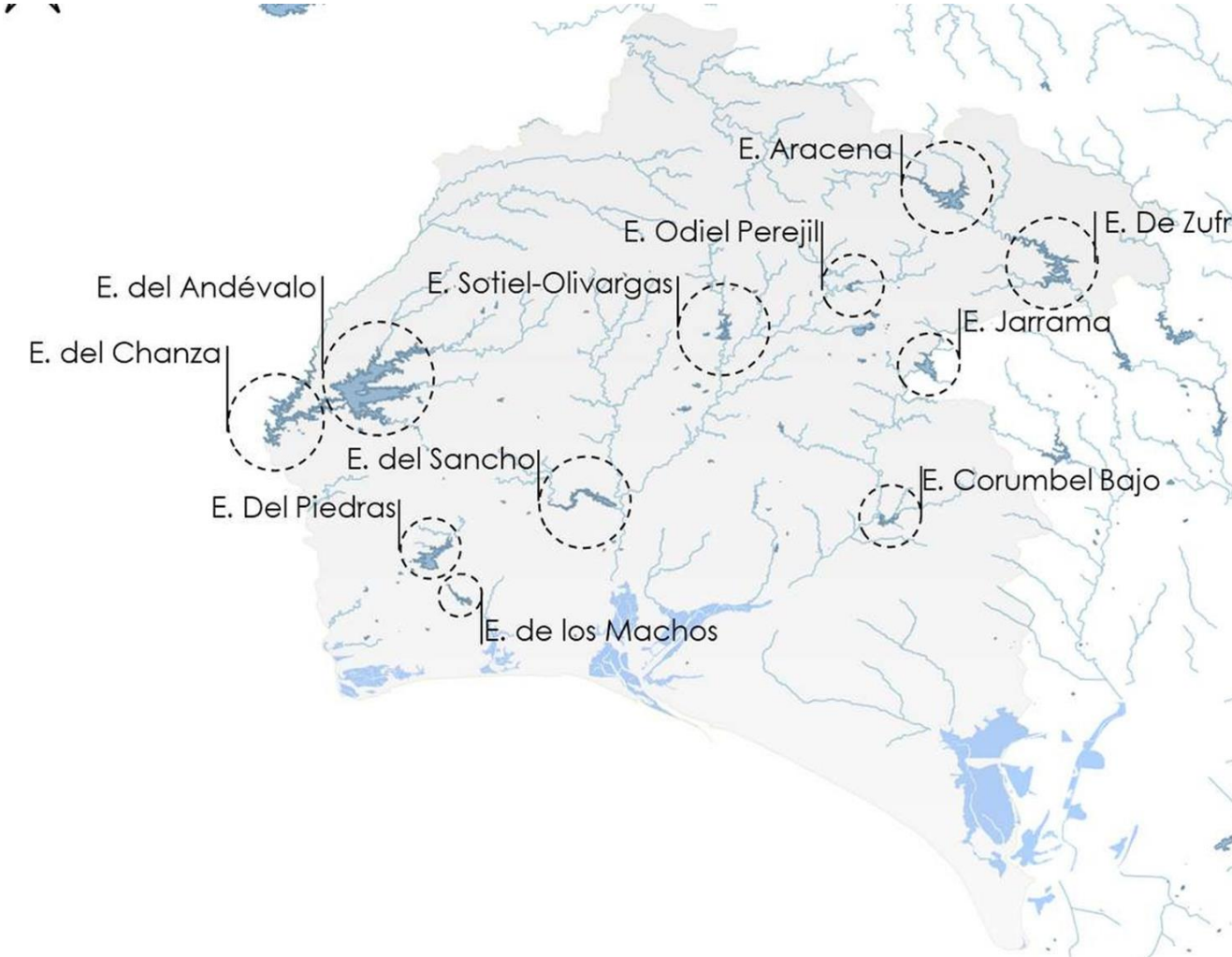
IRRIGATION WATER SOURCES IN HUELVA PROVINCE

RIVERS & BASINS

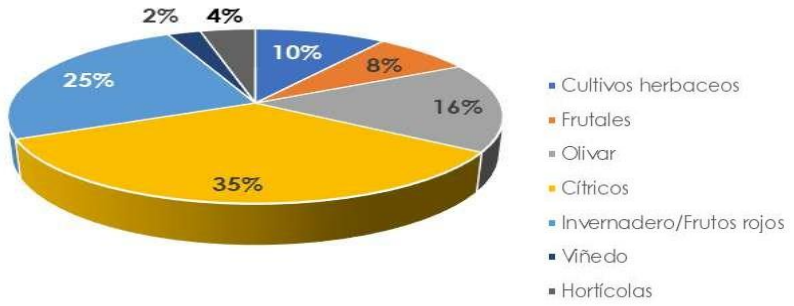


DAMS AND RESERVOIRS

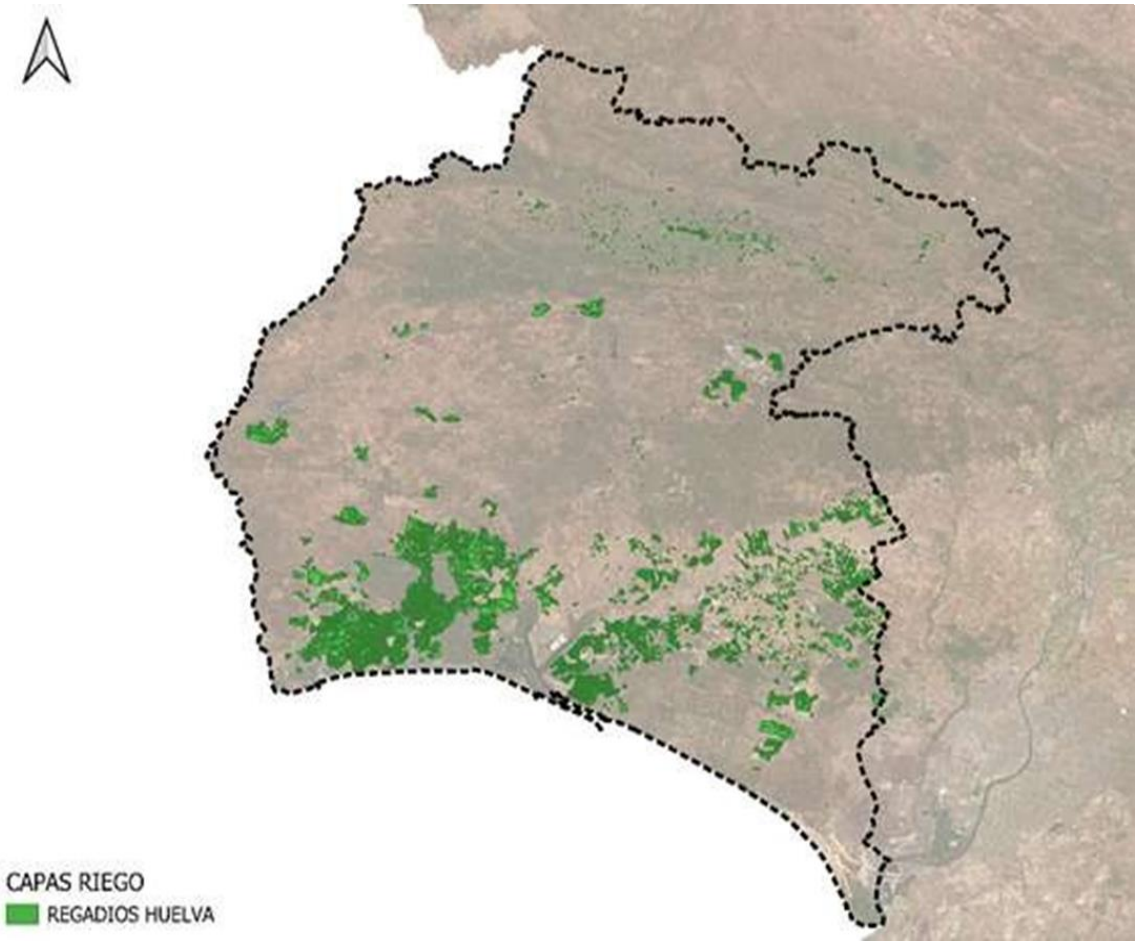


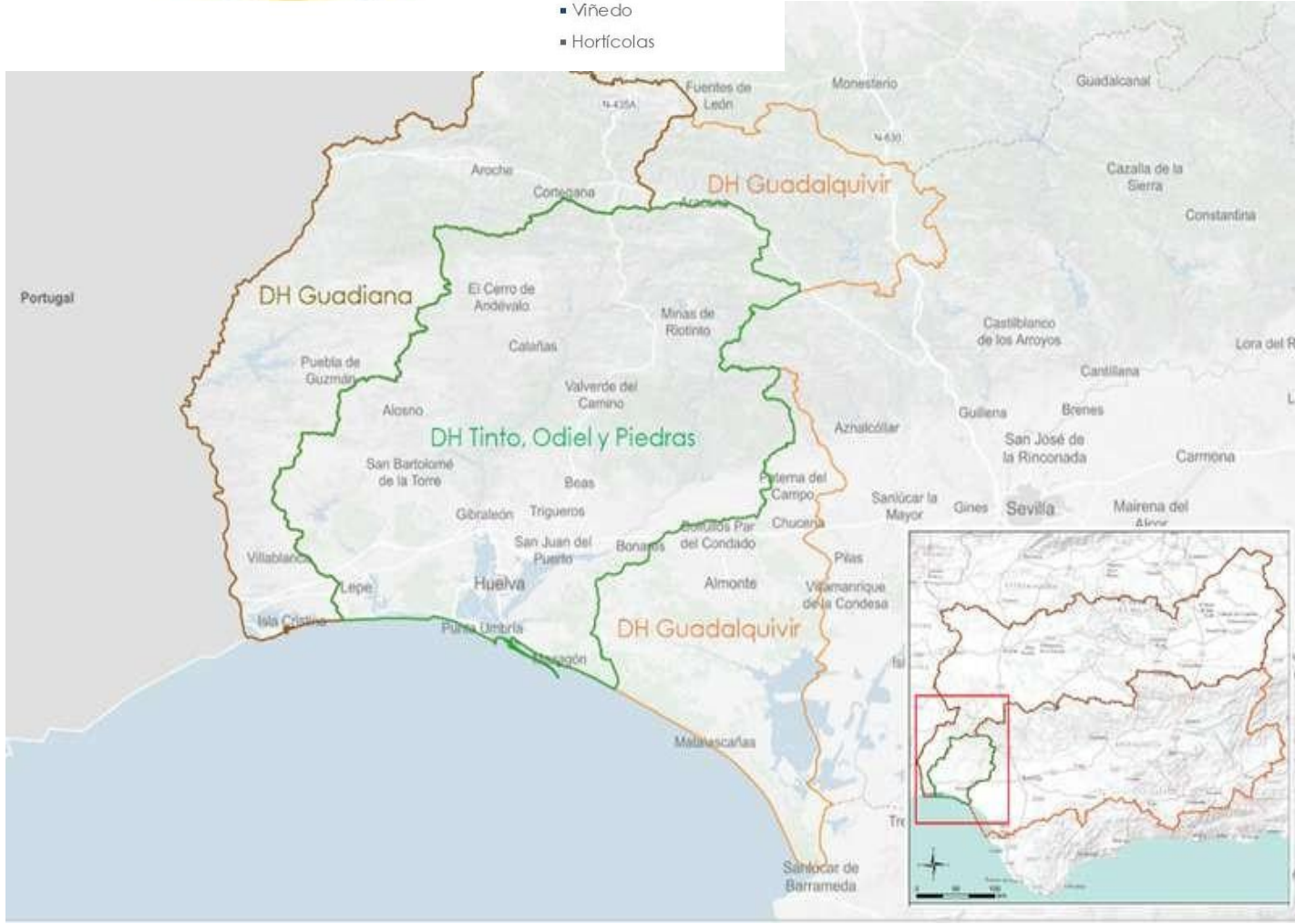
IRRIGATION WATER: DEMAND & CONTROL ORGANISMS

53.182 HA IRRIGATED LAND.
MAIN IRRIGATED CROPS: **CÍTRUS (35%)** Y **SOFT FRUITS(25%)**.



CULTIVOS DE REGADÍO EN HUELVA





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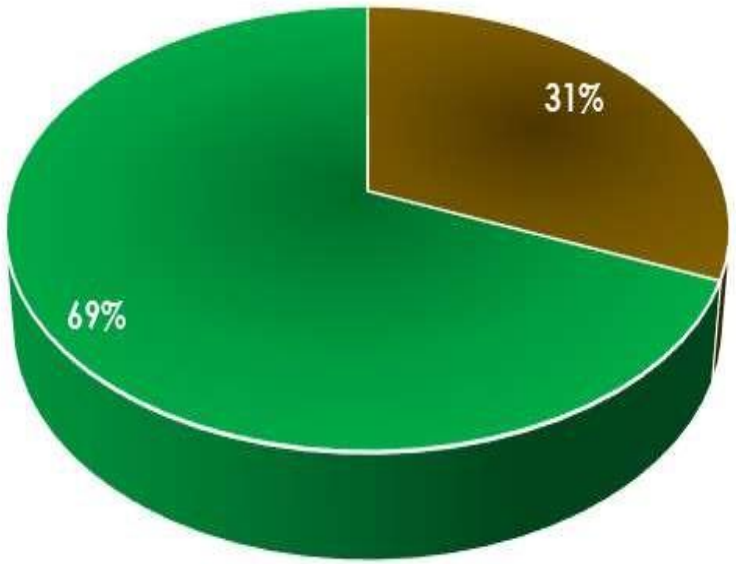
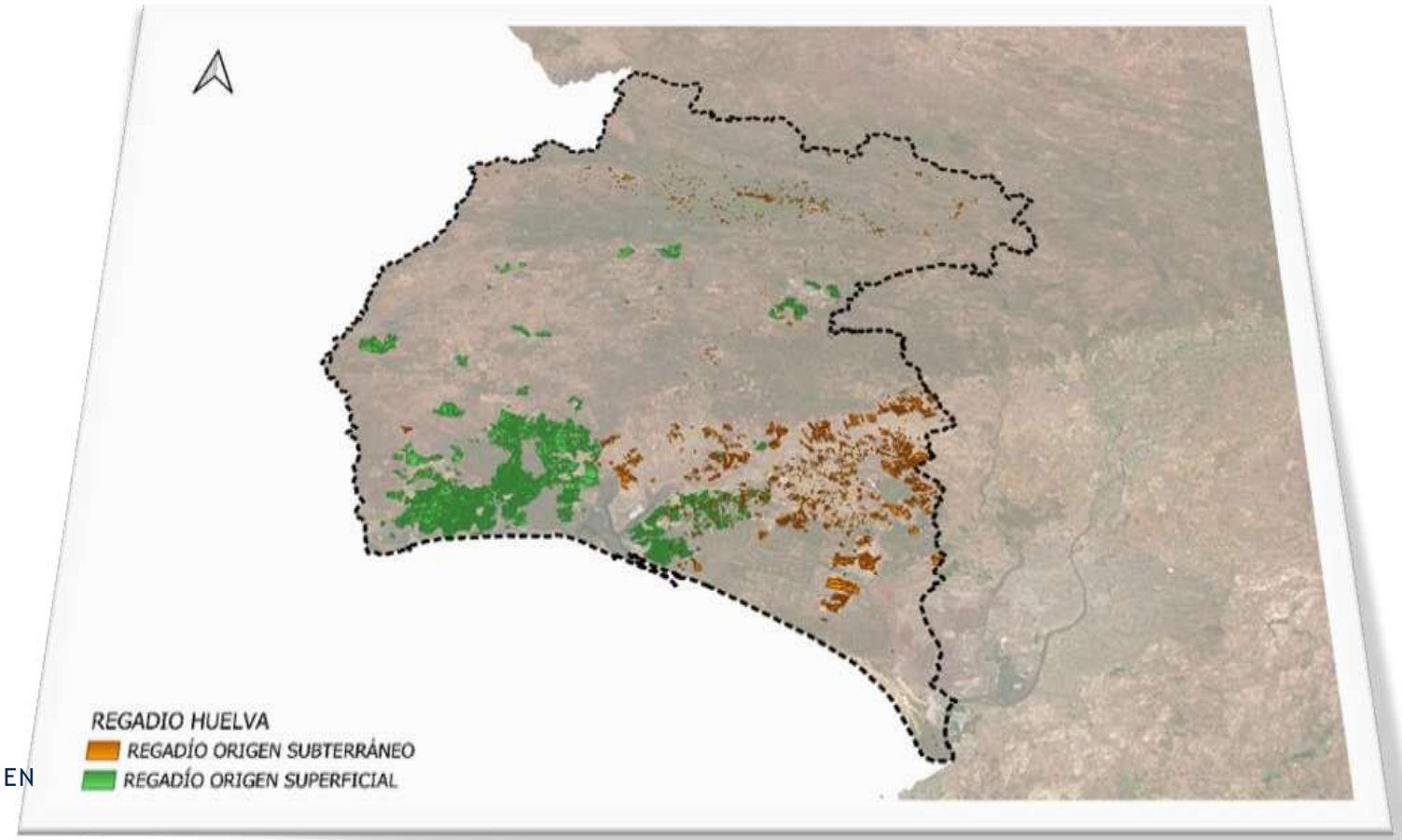
IRRIGATION WATER: AGRICULTURAL DEMAND DISTRIBUTION





EL **69% DE LAS DEMANDAS** DE AGUA PARA LA AGRICULTURA DE REGADÍO EN HUELVA SON ATENDIDAS A PARTIR DE **RECURSOS HÍDRICOS SUPERFCIALES.**

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IRRIGATION WATER PUBLIC MANAGEMENT

SISTEMA CHANZA-PIEDRAS, :

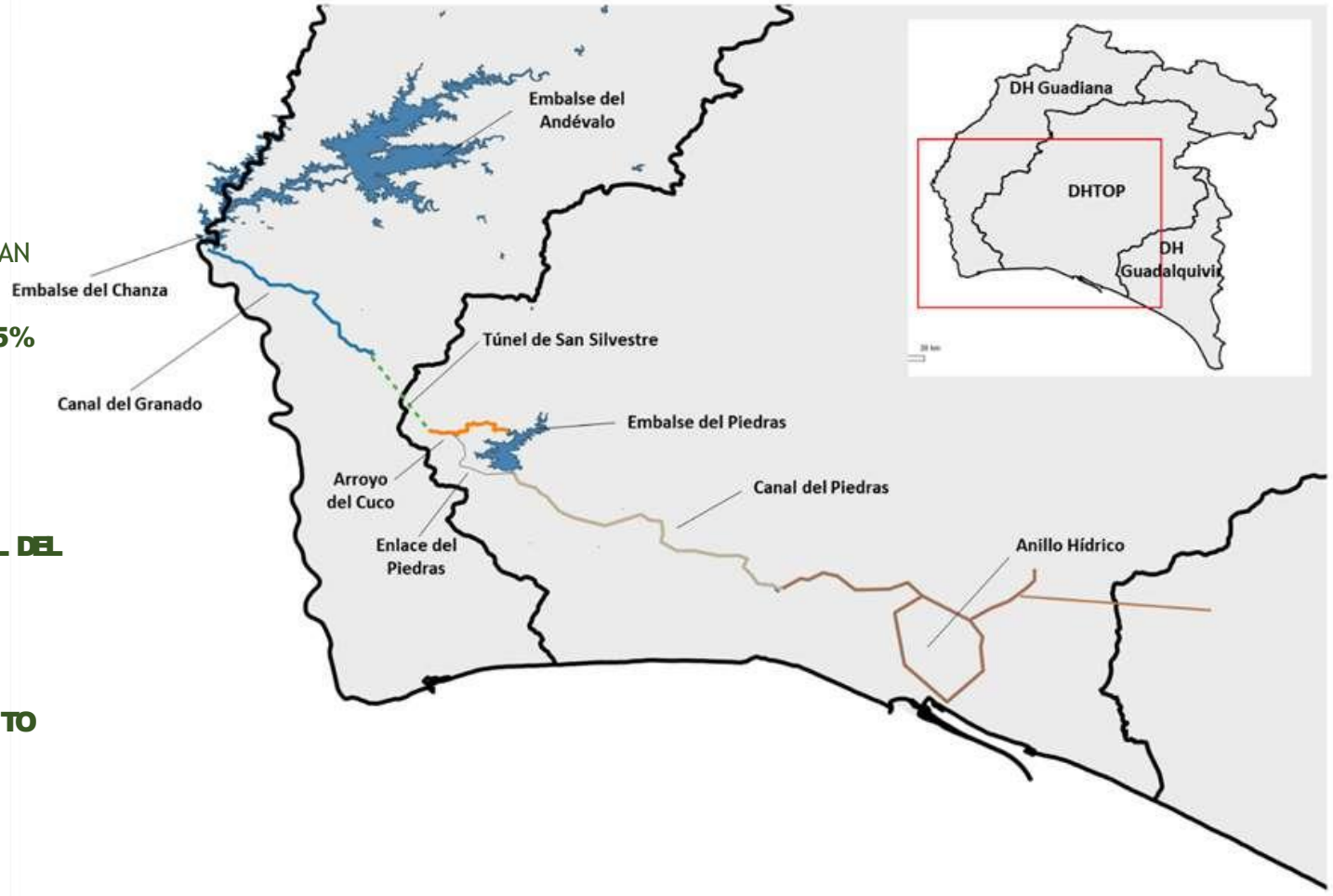
MAJOR DAMS “ANDÉVALO" Y "CHANZA" ARE INTER- CONNECTED AND CAN TRANSFER WATER EXCEDENTS TO OTHER BASINS

CAPACITY: **CHANZA (384 HM3) & ANDÉVALO (600 HM3), which is over 65% OF THE TOTAL PROVINCE CAPACITY.**

WATER RESOURCES TRASNFER INFRASTRUCTURES:

FIRSTLY, WATER RESOURCES ARE TRANSFERRED FROM **CHANZA RESERVOIR TO EMBALSE DEL PIEDRAS***., VIA 2 MAIN CHANNELS: **CANAL DEL GRANADO** AND THE **SAN SILVESTRE TUNNEL (1927)**.

SECONDLY, TRANSFERRED VOLUMES FLOW DOWN THE **CANAL DEL PIEDRAS TO REACH FINALLY THE SO CALLED: “HUELVA'S RING” COVERING AGRICULTURAL, ECOLOGICAL, URBAN AND TOURISTIC CONSUMPTION & DEMAND**.



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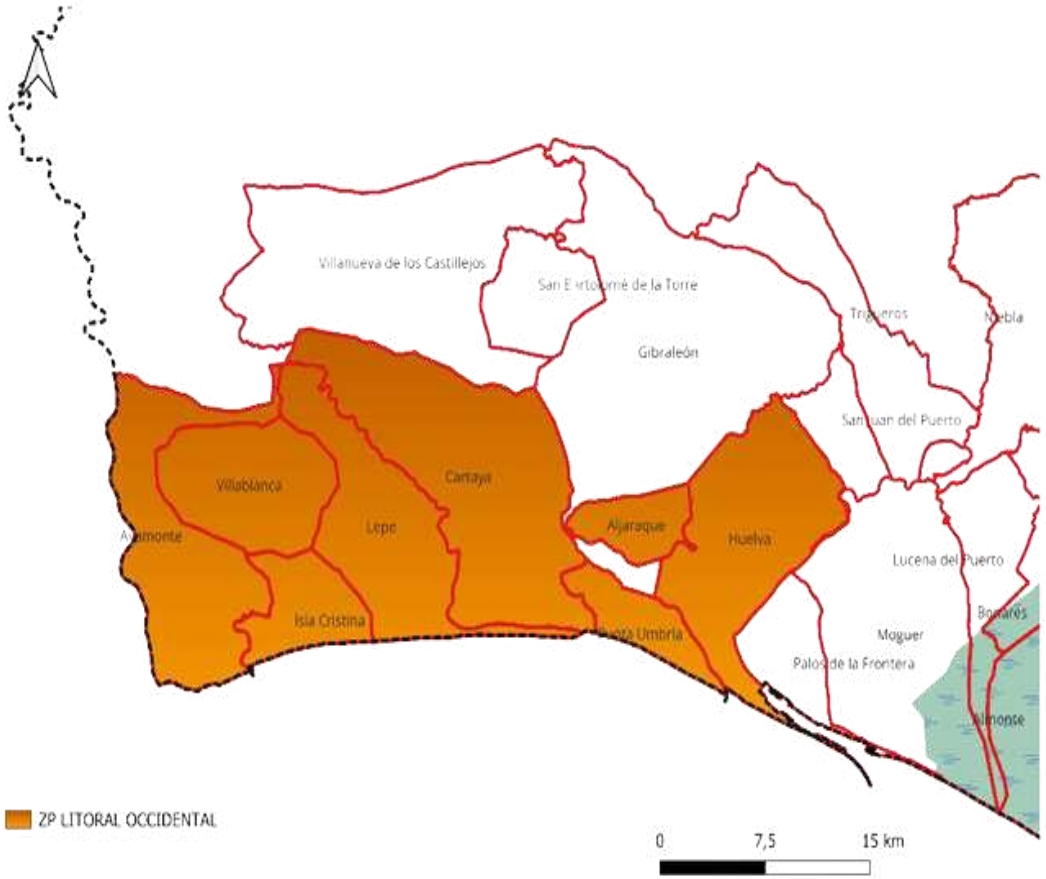
WATER MANAGEMENT IN OUR PRODUCING AREA

HUELVA WEST Production área covers a coastal strip : 20 kms wide from Ayamonte to Huelva city. Major agricultural and greenhouses core formed by LEPE – CARTAYA municipalities

Irrigation wáter distribution amongst farms is implemented by semi- private traditional institutions called " Comunidades de Regantes"(Farmers communities), run under governmental supervisión and control, and which enjoy a specific volumen of public wáter resources under public concesions regimes for a number of years.

All of them receive only superficial water resources.

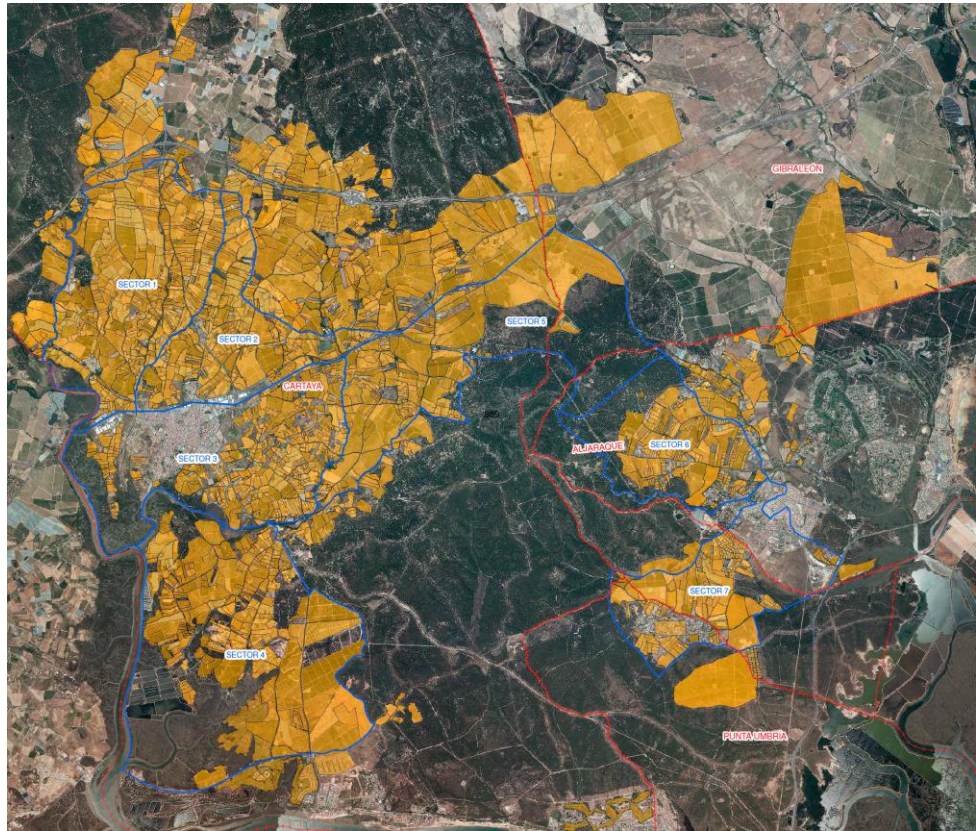


1988
Fundación

7
Sectores

7.229,28 ha
Sup. máxima

22.215.356
m3 al año



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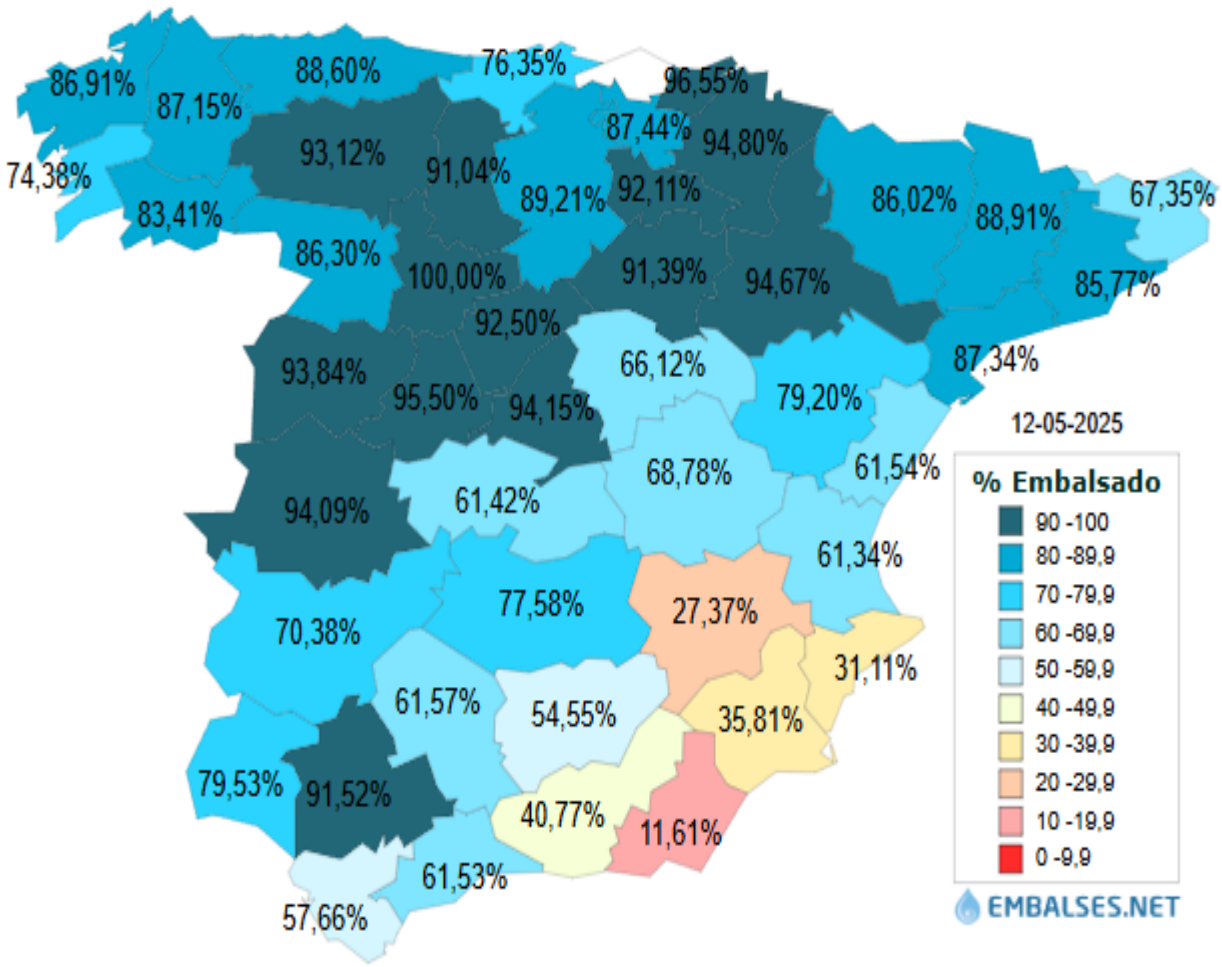
CURRENT CAPACITY STORED AT DATE: 15/05/2025

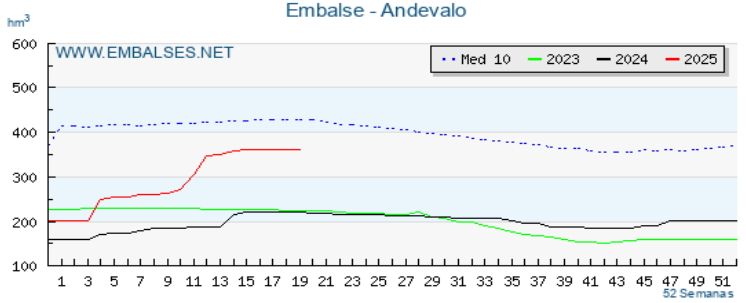
Descargar Imagen



Embalse: Andevalo

Agua embalsada (12-05-2025):	**360**	**hm³**	**56.78 %**
Variación semana Anterior:	-1	hm³	-0.16 %
Capacidad:	634	hm³	
Misma Semana (2024):	220	hm³	34.70 %
Misma Semana (Med. 10 Años):	427	hm³	67.49 %

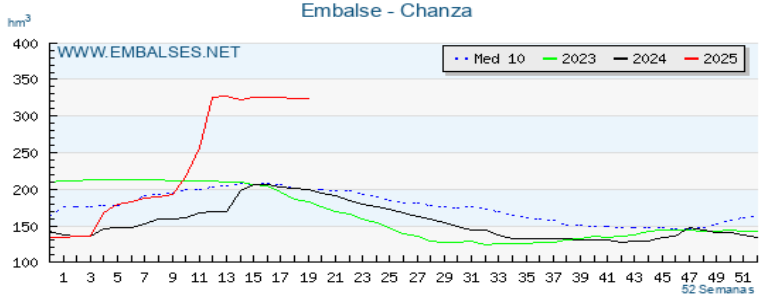
Embalse - Andevalo



Embalse: Chanza

Agua embalsada (12-05-2025):	**324**	**hm³**	**95.86 %**
Variación semana Anterior:	0	hm³	0.00 %
Capacidad:	338	hm³	
Misma Semana (2024):	200	hm³	59.17 %
Misma Semana (Med. 10 Años):	199	hm³	59.11 %

Embalse - Chanza



Embalse - Chanza - Histórico

hm³ (Media Mensual)

FERTIRRIGATION IN OUR FARMS

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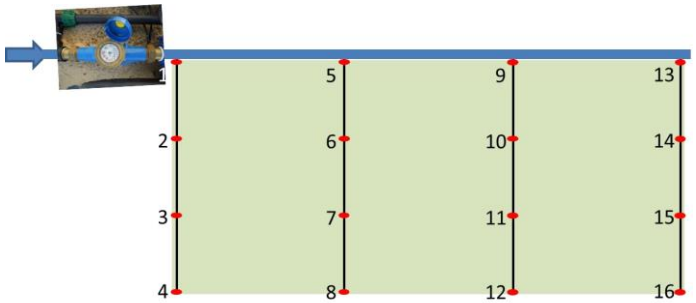

Mes	Riego (m³ / ha)
Septiembre de 2024	272
Octubre de 2024	183
Noviembre de 2024	187

Yearly fertirrigation programme & forecast:

- issued by individual crop & farm before each season start (FAO – Penmann-Monteith method)

Tiempo de riego (min/día)	15+15+15+15
Tiempo de riego cielo despejado (min/día)	14+14+14+14+14

15/05/2025	
Estado cielo	
ET_0 (mm)	4,74
Riego Bruto (mm)	4,46
Tiempo de riego (min)	16+16+16+16
Tiempo de riego cielo despejado (min)	14+14+14+14+14

Weekly adjustments

- Official APP “RIEGO BERRY” estimates daily/weekly volumes according to oficial weather forecasts (AEMET)

Yearly Assesment of uniformity and efficacy of drip irrigationsystems:

correction measures

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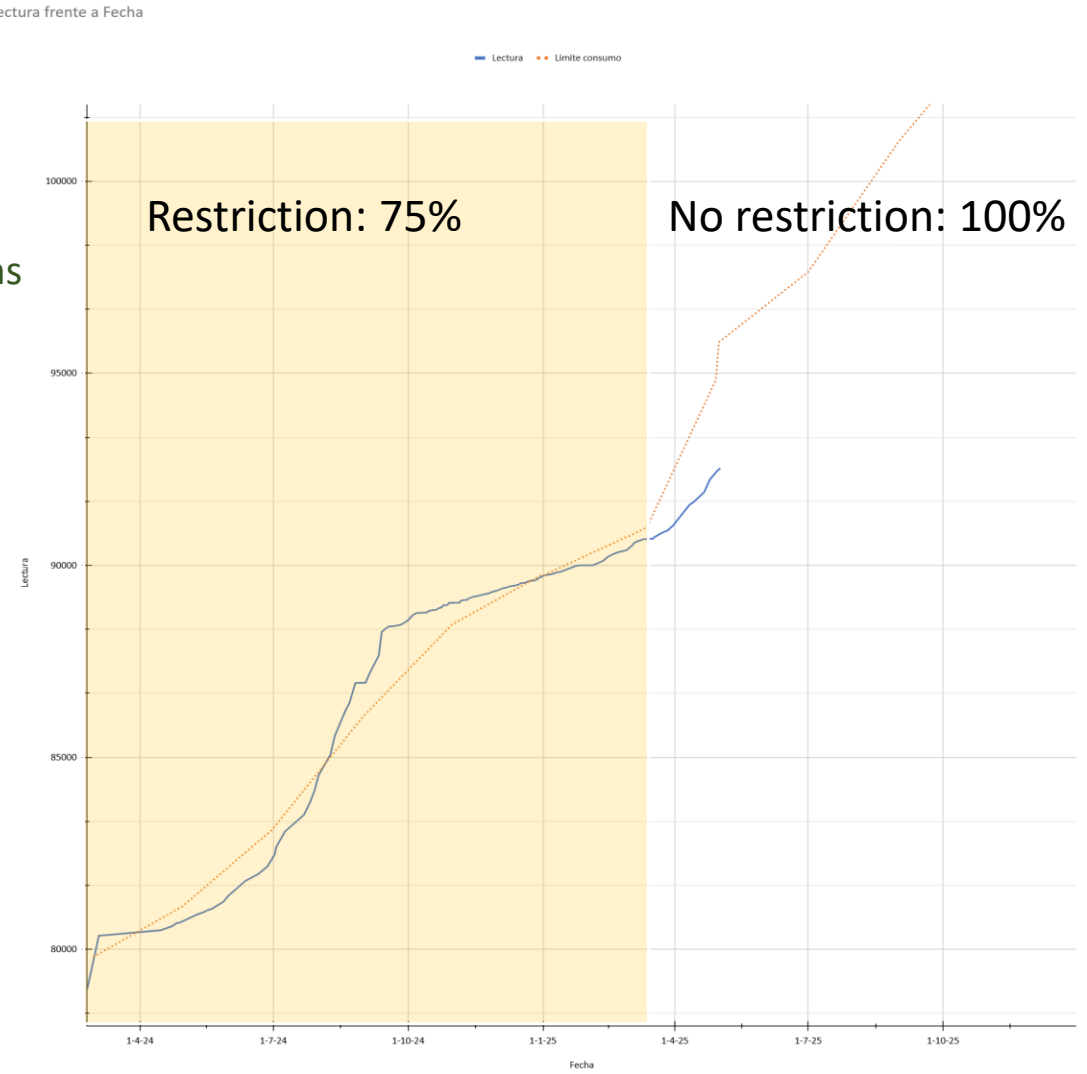
DAILY CONSUMPTION CONTROL DURING RESTRICTIONS PERIODS

From october 2023 to April2025 irrigation water restrictions were applied: Máximum of 75% of normal consumption each quarter

Follow up of the hydraulic counters on each farm : Graphic shows actual consumoption vs. Limitations from “Comunidad de Regantes” controllers



Replacement of raspberry orchards with passionfruit showed asignificant drop of water consumption (by 35-40% of m3/ha rate in Sandy soils)

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I+D+i NEW PROJECTS: ASSOCIATED CULTIVATION

Trials of associated crop cultivation are being pèrfoprmed to determine and establish optimum water usage combinations

Passionfruit canopy / blueberry orchards
Passionfruit canopy / raspberry orchards

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THANK YOU !!

VIELEN DANK!!