



Fishery Improvement Project (FIP) Andalusian Red Swamp crawfish Guadalquivir Delta



PEBAGUA

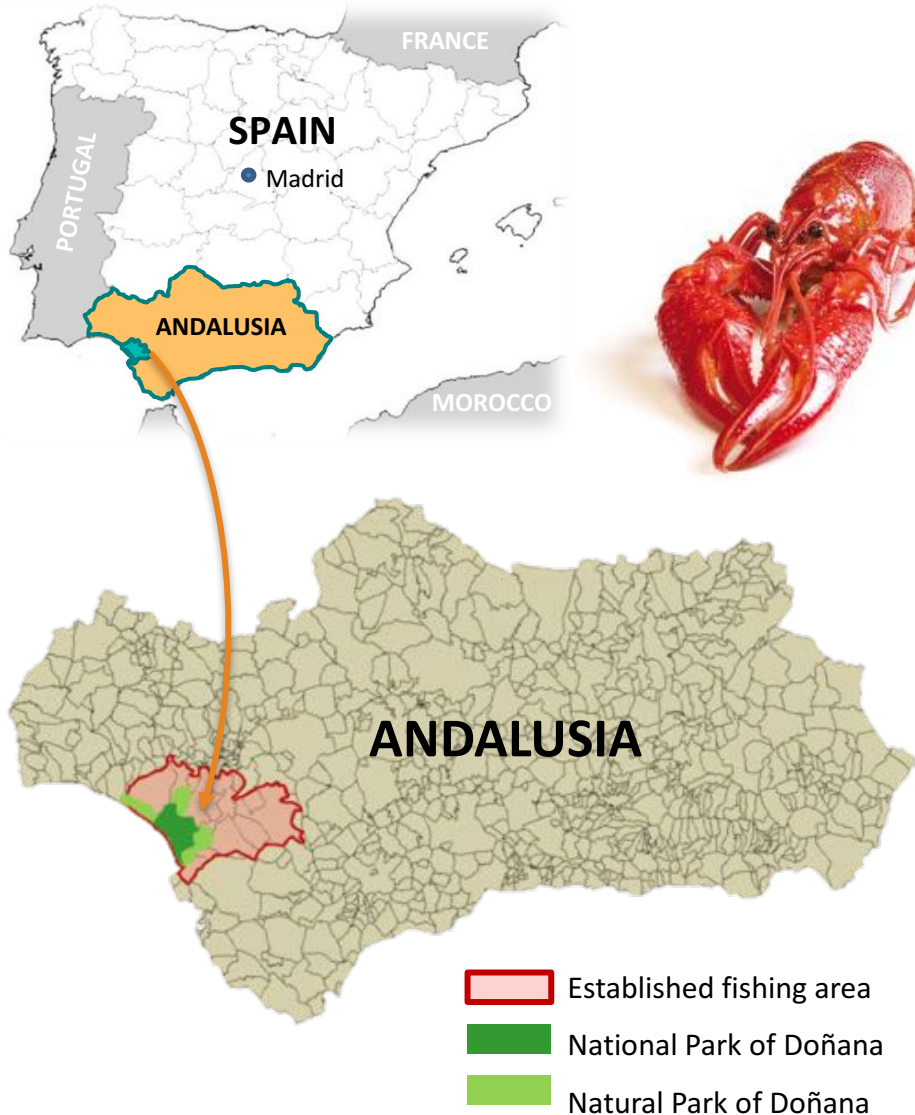
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EUROPEAN FORUM 2017



Sustainable Fisheries Partnership

Red Swamp crayfish fishery and industry - Main data



- **Exotic invasive species legally introduced** in the Guadalquivir Delta by the Spanish Government in the 1970s
- **AIM** → to promote local socio-economic development
- Long **marginalize** and **barely regulated** species

SPAIN

- **8-10% of crawfish world production**
- **world's 2nd largest exporting country**

FIP – Andalusian Red Swamp crawfish

- FishSource Profile & White paper published in 2015
- WORK & ACTION PLAN in process



Red swamp crawfish Guadalquivir delta

IDENTIFICATION



SCIENTIFIC NAME

Procambarus clarkii

SPECIES NAME(S)

Red swamp crawfish, Crawfish, crayfish, Cangrejo americano, Cangrejo de las marismas

ASSESSMENT

Strengths

- For the last decades the red swamp crawfish fishery and its associated food industry has become a thriving socio-economic sector in the Guadalquivir Delta.
- There are enough elements to potentially allow for a well-managed fishery which can ensure a sustainable use of the target species and associated ecosystems: a restricted fishing area and other spatial measures already in place to minimize the impact of the target species on habitats and ecosystems, a surrounding area where ecosystem functions and biodiversity are protected through a representative network of protected areas, and an organized and responsible food industry.

Plan de Acción: Andalusian red swamp crawfish – Guadalquivir Delta (Spain)
Plan de Acción del FIP: Cangrejo de río - Delta del Guadalquivir (España)

DEPENDENCIES Dependencias	OBJECTIVES Objetivos	ACTIONS AND DUTIES Acciones y tareas	PLANNED COMPLETION DATE Fecha de finalización prevista	BUDGET Presupuesto	RESPONSIBLE Responsable	STATUS Estado
		1. Collect historical catch records for 2014 and from previous years (2013 records are available) 1. Recopilar datos históricos de las capturas de 2014 y de años anteriores (los datos de 2013 están disponibles)	August 2015 Agosto 2015		PEBAGUA (each member) (cada miembro)	Completed Completado
		2. Define data to record in each company (investigate the possibility to integrate data on bycatch, see point 2.1, and interactions with threatened species, see point 3.1) 2. Definir los datos que necesita integrar en su registro cada empresa (estudiar la posibilidad de integrar datos de capturas accesorias, ver punto 2.1., y la interacción con especies amenazadas, ver punto 3.1.)	August 2015 Agosto 2015		PEBAGUA	Completed Completado
		3. Define possible means and ways to collect data (investigate the possibility to collect data through SFP and afterwards through the FIP's manager) 3. Definir los medios y vías para la recolección de datos	August 2015 Agosto 2015		PEBAGUA/SFP	Completed Completado

Task Tarea	PLANNED COMPLETION DATE Fecha de finalización prevista	Responsible Responsable	Verification/Results Verificación/Resultados	Completion date Fecha de finalización	Status Estado	Document reference Documento de referencia
Identify the fishery Identificar dónde se pesca	February 2015 Febrero 2015	PEBAGUA	Fishery profile available on FishSource Perfil de la pesquería publicado en FishSource http://www.fishsource.com/hsa/gswa_profile_hv_suid13687e9d-8421-11e4-8730-0000712a9f90	February 2015 Febrero 2015	Completed Completado	White Paper - Andalusian Red swamp crawfish
Report possible solutions Señalar posibles problemas	March 2015 Marzo 2015	PEBAGUA	White Paper finished and shared with stakeholders Libro Blanco entregado y compartido con los stakeholders	March 2015 Marzo 2015	Completed Completado	White Paper - Andalusian Red swamp crawfish Libro Blanco
Develop a management plan Elaborar el plan de gestión	May-July 2015 Mayo-Julio 2015	PEBAGUA	Draft of action plan with the steps to follow (see next task) Borrador del Plan de acciones con los pasos a seguir (ver siguiente punto)	July 2015 Julio 2015	Completed Completado	Next task "Action plan" Ver siguiente punto "Plan de acción"
Work plan Trabajo y de trabajo	August 2015 Agosto 2015	PEBAGUA	Minutes of PEBAGUA meeting Acta de la reunión de PEBAGUA	August 2015 Agosto 2015	Completed Completado	1.1 First PEBAGUA meeting 1.1. Primera reunión con PEBAGUA
Plan for the stakeholders Plan de comunicación para los	September 2015 Septiembre 2015	SFP PEBAGUA	SFP to send model letter for the Public Administration and the supply chain Carta de SFP para la Administración y cadena de suministro		In progress En curso	
Information will be shared Información que habrá que compartir	August 2015 Agosto 2015	PEBAGUA	Document with instructions on what data to record handed to the members Documento con instrucciones sobre los datos a recopilar entregado a los socios	August 2015 Agosto 2015	Completed Completado	1.1 First PEBAGUA meeting 1.1. Primera reunión con PEBAGUA
Map (define which areas are part of the FIP), apart from scientific institutions and the Andalusian Council. Mapa un primer establecimiento mapping (definición de las organizaciones implicadas), acto de institucional científico y Junta de Andalucía	Next PEBAGUA meeting Próximo reunión de PEBAGUA	PEBAGUA	Stakeholder map communicated to all the interested parties. Lista de stakeholders comunicada a los partes interesadas			

SUCSESSES

- ✓ Collection of **historical catch records**
- ✓ First **FIP Agreements** signed by PEBAGUA members early 2016
- ✓ Establishment of a **GUADALQUIVIR CRAWFISH CONTROL PLAN**
-BOJA, Official Journal of Junta de Andalucía, Orden 03/08/2016



Our next challenges

- ✓ **Biological sampling** to determine the species' **population structure**
- ✓ Record and compiled **by-catch** and interaction with **threatened species data**

THANK YOU FOR YOUR ATTENTION



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