
H51X-1670: Environmental Flows and Water Allocation: A Hydro-economic Analysis in the Ebro Basin

Friday, 14 December 2018

08:00 - 12:20

📍 Walter E Washington Convention Center - Hall A-C (Poster Hall)



•  [PosterAlbiacEbro.pdf](#)
ePoster

Addressing a more sustainable management of water resources involves new policies that require improved knowledge on water allocations and benefits from the economic and environmental uses of water. However, environmental uses have been mostly disregarded in traditional water management, and just recently the maintenance of environmental water flows is being considered as a key issue in water policies. The aim of this study is to analyze the spatial and sectoral allocation of water resources in the Ebro Basin, in order to inform the debate on the environmental flow in the Ebro mouth. The analysis focus on irrigation districts using most of the water resources, and on the environmental flow proposals for the river mouth. A hydro-economic model is developed to analyze the effects of different water allocation mechanisms under combinations of water availability and environmental flow scenarios. Results show that the petition of raising the environmental flow at the Ebro mouth during droughts by the downstream state (Cataluña) would be very costly for all irrigation districts in the basin. One alternative for the downstream state to gain the support of the rest of states for raising the environmental flow would be to compensate the losses of irrigation districts in upstream states.

Authors

[Jose Albiac](#)

CITA-Government of Aragon

[Daniel Crespo](#)

CITA-DGA

[Mohamed Kahil](#)

*IIASA International Institute for Applied
Systems Analysis*

[Encarna Esteban](#)

Universidad de Zaragoza

[Find Similar](#)

View Related Events

Day: [Friday, 14 December 2018](#)