ACCIÓN D.1.6.
"COMUNICACIONES ENVIADAS A EVENTOS ESPECIALIZADOS Y CONFERENCIAS"

ACTION D.1.6.
"COMMUNICATIONS SENT TO SPECIALIZED EVENTS AND CONFERENCES"

31/12/2018

SUMMARY

DESEACROP is a LIFE + project in which the transferability of results plays a key role. In this context, the publication of pieces of communication in specialized events and conferences is a key element of DESEACROP's Difusion Plan, which was also an integral element of the project.

The pieces of communication described in this Deliverable document include communications sent both to scientific specialized events (i.e. conferences and scientific meetings) and to specialized events for a broader audience, in line with the ample spectrum of stakeholders of the project.

This Deliverable will be updated and complemented at the end of the project timeline, since most of the results and their subsequent communications will be generated towards the final stages of the project.

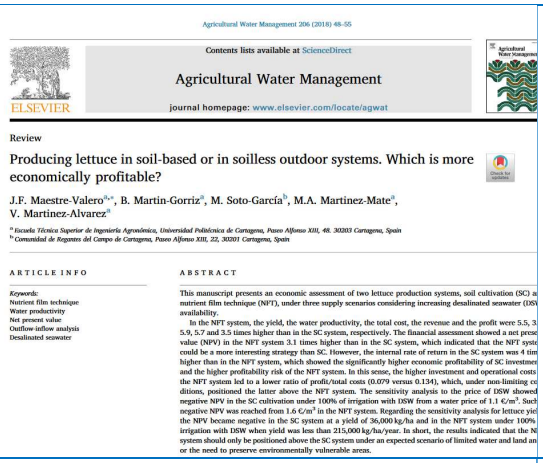
RESUMEN

DESEACROP es un proyecto LIFE + en el que la transferencia de resultados juega un papel fundamental. En este contexto, la publicación de comunicaciones en eventos y conferencias especializadas es un elemento clave del Plan de Difusión de DESEACROP, el cual es igualmente un elemento integral del proyecto.

Las comunicaciones descritas en este Entregable incluyen comunicaciones enviadas tanto a eventos científicos especializados, como congresos y reuniones científicas, como a eventos especializados orientados a un público más generalista, en línea con el amplio espectro de usuarios finales del proyecto.

Este Entregable se actualizará y complementará al final de la vida del proyecto, dado que la mayoría de los resultados y sus comunicaciones correspondientes se generarán en las últimas fases del proyecto.

2018



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Review

Producing lettuce in soil-based or in soilless outdoor systems. Which is more economically profitable?

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ABSTRACT

This manuscript presents an economic assessment of two lettuce production systems, soil cultivation (SC) a nutrient film technique (NFT), under three supply scenarios considering increasing desalinated seawater (DS availability.

In the NFT system, the yield, the water productivity, the total cost, the revenue and the profit were 5.5, 3 5.9, 5.7 and 3.5 times higher than in the SC system, respectively. The financial assessment showed a net prese value (NPV) in the NFT system 3.1 times higher than in the SC system, which indicated that the NFT syste could be a more interesting strategy than SC. However, the internal rate of return in the SC system was 4 tim higher than in the NFT system, which showed the significantly higher economic profitability of SC investmen and the higher profitability risk of the NFT system. In this sense, the higher investment and operational costs the NFT system led to a lower ratio of profit/total costs (0.079 versus 0.134), which, under non-limiting co ditions, positioned the latter above the NFT system. The sensitivity analysis to the price of DSW showed negative NPV in the SC cultivation under 100% of irrigation with DSW from a water price of 1.1 €/m^3. Such negative NPV was reached from 1.6 €/m^3 in the NFT system. Regarding the sensitivity analysis for lettuce yie the NPV became negative in the SC system at a yield of 36,000 kg/ha and in the NFT system under 100% irrigation with DSW when yield was less than 215,000 kg/ha/year. In short, the results indicated that the N system should only be positioned above the SC system under an expected scenario of limited water and land an or the need to preserve environmentally vulnerable areas.

International Journal of Environmental Research and Public Health.

IWA Regional conference on Water Reuse and Salinity Management. Murcia

Congreso Nacional del Agua 2019

XII Congreso Internacional AEDYR. Toledo

COMUNICACIÓN		FECHA	AUTOR
Producing lettuce in soil-based or in soilless outdoor system. Which is more economically profitable	Agric. Water. Manage. 206, 48-55	2018	UPCT
El riego con agua marina desalinizada	Boletín Intercuencas	March 2019	UPCT
Principales aspectos del riego con agua marina desalinizada en la Cuenca del Segura	Agricola Vergel 410	May 2018	UPCT
El riego con agua desalinzada en el sureste Español	Agricultura	June 218	UPCT
Characterization of the Agricultural Supply of Desalinated Seawater in Southeastern Spain	Water MDPI 11, 1233	June 2019	UPCT
II Jornada Cátedra Trasvase y sostenibilidad JMCV		19 Abril 2018	UPCT
IWA Regional conference on Water Reuse and Salinity Management. Murcia		11-15 Junio 2018	UPCT
XXXVI Congreso Nacional de Riegos. Valladolid		5-7 Junio 2018	UPCT
Jornada. La CUCN por un precio justo del agua. Almería		23 Marzo 2018	CUCN
XII Congreso Internacional AEDYR. Toledo		23-25 Octubre 2018	SACYR
3 International Conference on Food and Agriculture. Malasia		26-28 Noviembre 2018	UPCT

2019

International Journal of Environmental Research and Public Health

MDPI

Article

Aquifer Sustainability and the Use of Desalinated Seawater for Greenhouse Irrigation in the Campo de Níjar, Southeast Spain

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Abstract: In the Campo de Níjar (southeast Spain), an intensive horticulture model under plastic has been developed based on the use of groundwater. For many years, aquifers have been overexploited, almost generating an environmental collapse. The construction of a desalination plant was planned to improve this situation and to achieve sustainable aquifer management. However, the aquifer is still being overexploited, since farmers scarcely use desalinated seawater for irrigation. In this paper, farmers irrigating with desalinated seawater are characterized, since they contribute to aquifer sustainability. The study aimed to identify the variables which condition the use of this water resource, as well as the kinds of incentives that encourage this option. For this purpose, a survey was undertaken within a sample of 110 farmers. A cluster analysis and a binary logistic regression

International Journal of Environmental Research and Public Health.

InfoAgro Exhibition “International trade fair for intensive production”

Expolevante Nijar – XIV Agricultural Trade Fair

Publicaciones	Fecha	AUTOR
X Congreso Ibérico de Agroingeniería. Huesca	03-06 Septiembre 2019	UPCT
Congreso Nacional de Riegos. Badajoz	4-6 Junio 2019	UPCT
Congreso Nacional del Agua. Orihuela	21-22 Febrero 2019	UPCT
InfoAgro Exhibition “International trade fair for intensive production”	22 – 24 Mayo 2019	UAL / CUCN
International Journal of Environmental Research and Public Health: ”Aquifer Sustainability and the Use of Desalinated Seawater for Greenhouse Irrigation in the Campo de Níjar, Southeast Spain”	Marzo 2019	UAL
Expolevante Nijar – XIV Agricultural Trade Fair	18- 20 Abril 2019	CUCN

CONCLUSIONES

Tal y como se puede observar, los socios del proyecto DESEACROP han participado en numerosos eventos, tanto a nivel nacional como internacional.

En dichos eventos, han dado a conocer el proyecto, así como su evolución, sus distintas aplicaciones y su necesidad para un crecimiento sostenible de la agricultura, entre otros aspectos.

No obstante, cabe señalar que es en la fase final del proyecto cuando las actividades de difusión cobrarán mayor importancia puesto que habrá mayores resultados que exponer y mostrar.

CONCLUSIONS

As can be seen, the DESEACROP project partners have participated in numerous events, both nationally and internationally.

In these events, they have made known the project, as well as its evolution, its different applications and its need for a sustainable growth of agriculture, among other aspects.

It should be noted, however, that it is in the final phase of the project that dissemination activities will become more important as there will be greater results to be presented and displayed.