

INFORMATION ABOUT THE PERSON FILLING THE FORM	
Name and family name	Mercedes GUIJARRO
Research organization	INIA - CIFOR
Position in the organization	Researcher
Country	SPAIN
E-mail	<a href="mailto:guijarro@inia.es">guijarro@inia.es</a>
FACILITY <sup>1</sup>	
Name of the facility	Túnel de viento – Wind tunnel
	<a href="http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/en-us/Investigacion/centros/CIFOR">http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/en-us/Investigacion/centros/CIFOR</a> (Singular installations > Wind tunnel)
Location of the facility	Spain
	Ctra. de La Coruña km 7.5
	UTM coordinates: N 40° 27' 18" W 03° 44' 55"
Start date	1985
Type of facility	Wind tunnel to analyze forest fire behavior and temperatures regime
Keywords	Fire initiation risk, forest fire behaviour, crown fire initiation, effects of fire, fuel characteristics
Scientific characteristics	Scientific objectives of wind tunnel are to obtain experimental results regarding different key topics related to prevention, behaviour and effects of forest fires.
	To obtain experimental results related to forest fires in controlled and nearly-natural conditions.
	Location in the open air, dimensions, ability to simulate the effect of wind and to record temperatures (see Technical characteristics below)
	RTA2009-00153-C03-02. "Forest fire protection: initiation, propagation and socio-economical impacts of crown fires in pine stands" <a href="http://wwwsp.inia.es/Investigacion/centros/CIFOR/areas/protfor/ProyectosProtFor/Documents/RTA2009-00153-C03%20INFOCOPAS.pdf">http://wwwsp.inia.es/Investigacion/centros/CIFOR/areas/protfor/ProyectosProtFor/Documents/RTA2009-00153-C03%20INFOCOPAS.pdf</a>
Technical characteristics	RTA2011-0065-C02-02 "Post-fire rehabilitation and restoration: Effects in time on vegetation recovery, its flammability and on soil quality" <a href="http://wwwsp.inia.es/Investigacion/centros/CIFOR/areas/protfor/ProyectosProtFor/Documents/RTA2011-0065-C02-02.pdf">http://wwwsp.inia.es/Investigacion/centros/CIFOR/areas/protfor/ProyectosProtFor/Documents/RTA2011-0065-C02-02.pdf</a>
	This outdoor device consists of a test section and a fan, and it is complemented with an electronic system for temperature recording. The test section is 8.50 m long with a transversal section of 2 m wide x 3 m high; on the ground there are eight independent small wagons of 1.0 m long, 0.8 m wide and 0.25 m high, filled with sand, where the fuel is arranged. The fan intends to create an airflow feigning the action of wind within the test section. The fan is controlled by an electronic system, which is adjusted to produce wind speeds between 0 (when the fan is off) and 7 m/s in the central part (four central meters) of the test section. During each test, temperature variations can be recorded, every one second, by a data logging system and a set of K thermocouples (1 mm diameter) that can be placed according to the type of fuel used in the test.
	Rate of spread, fireline intensity, flame characteristics, temperatures, fuel consumption ratio

<sup>1</sup> Note: This information could be published in the webpage of FORESTERRA.



# FORESTERRA

Enhancing FOrest RESearch in the MediTERRAnean through improved coordination and integration



<http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/en-us/Investigacion/centros/CIFOR>  
(Singular installations > Wind tunnel)

## SCIENTISTS AND/OR TECHNICIANS IN CHARGE OF THE FACILITY

<b>Principal investigator</b>	Mercedes GUIJARRO – <a href="mailto:guijarro@inia.es">guijarro@inia.es</a>
<b>One line for each additional person</b>	Carmen HERNANDO – <a href="mailto:lara@inia.es">lara@inia.es</a> Javier MADRIGAL – <a href="mailto:incendio@inia.es">incendio@inia.es</a>

## ADMINISTRATIVE INFORMATION

<b>Availability for participating in mutual measurements</b>	Yes Javier MADRIGAL – <a href="mailto:incendio@inia.es">incendio@inia.es</a>
	Conditions: In the frame of research projects or agreements between involved institutions.
<b>Availability for accessing the data collected</b>	Yes Javier MADRIGAL – <a href="mailto:incendio@inia.es">incendio@inia.es</a>
	Conditions: In the frame of research projects or agreements between involved institutions.
<b>Institution that manages the facility</b>	Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria – Centro de Investigación Forestal National Institute for Agricultural and Food Research and Technology – Forest Research Centre
	<a href="http://www.inia.es">http://www.inia.es</a> <a href="http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/en-us/Investigacion/centros/CIFOR">http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/en-us/Investigacion/centros/CIFOR</a>
<b>Structure or institution which manages the data</b>	Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria – Centro de Investigación Forestal National Institute for Agricultural and Food Research and Technology – Forest Research Centre
	<a href="http://www.inia.es">http://www.inia.es</a> <a href="http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/en-us/Investigacion/centros/CIFOR">http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/en-us/Investigacion/centros/CIFOR</a>
<b>Is the facility participating in a national or international Network?</b>	NO
<b>Is the facility open for transnational collaboration?</b>	Yes. Conditions: In the frame of research projects or agreements between involved institutions.