

Life Project Specific Indicators Table

D.1 – Project performance indicators



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Action A.2: Project performance indicators

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1. Summary

The impact during the Project is evaluated through the constant technical monitoring of Project Activities. Different indicators will be measured by specific methodologies (see MR Annex 10. "Deliverable A2_Training course material". -Chapter III). The parameters measured during the Project (18) is include in ten specific groups (Table 1). In this report, an indicators table with the results obtained for each indicator until September 2019 is shown. Most of the indicators have being evaluated since a certain crop stage is necessary, which has not yet been reached, and to complete the year in order to be able to quantify a large part of them.

Chapter I. Life RESILIENCE Specific Indicator Table

1. Life RESILIENCE Specific Indicator Table

Ten groups of indicators were selected for monitoring of the impact of the Project actions. In these groups we evaluated the benefits that the actions of this project has on tree health, soil quality, biodiversity, among others with 18 parameters (see Table 1). Table show the parameter's name, when this parameter should be measured and the responsible partner. The methodology to evaluate each indicator was described in MR Annex 10. "Deliverable A2_Training course material". -Chapter III).

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Table 1. Parameters to be measured for monitoring of the impact of the Project actions

Factor	Parameter	When	Amount in project	Partner responsible
(I) Tree Health	(01) Nutritional State (Foliar Analysis)	1 time a year: after full Bloom	5 strategies / Every demonstration (demo) site (Spain, Portugal and Italy)	GALPAGRO (SAHC, SALOV)
	(02) Tree Temperature	1 time a year: pre-harvest		
	(03) <i>Vegetative development</i> (NDVI, NDWI)	5 times a year: Blossoming, core hardening, oil production initiation, pre-harvest and post-harvest		
(II) Soil Quality	(04) Soil microbiological activity	1 time a year	Every demo site (Spain, Portugal and Italy)	AGRODRONE
	(05) Available Water Capacity (AWC)	First 6 months of the project (1-time project)		
	(06) Physicochemical analysis (SOM/SOC)	First and last 6 months of the project (2 times project)		
(III) Disease prevalence	(07) <i>Xylella fastidiosa</i> disease control	Once a year (<i>September</i>)	Every demo site	GALPAGRO Nutriprado
	(08) Insect vector trap	Every season (4 times a year)		
(IV) Weather	(09) Climatic and atmospheric data	Once a year	Every demo site	AGRODRONE
(V) Quality	(10) Olive Oil (organoleptic characteristics)	Every harvest (1 time a year)	5 strategies / Every demo site	GALPAGRO (SAHC, SALOV)
	(11) <i>Almond (size and USDA grades)</i>			
(VI) Water use	(12) Water Use Efficiency (WUE)	Every year after harvest	5 strategies / Every demo site	GALPAGRO (SAHC, SALOV)
	(13) Irrigation Water Productivity (IWP)			
	(14) Stem Water Potential (SWP)	1 time a week: every year from April to October	Replication: Spain (2 strategies)	GALPAGRO
(VII) Carbon Footprint	(15) CO ₂ emitted (agricultural processes)	At the end of project	Every demo site	GALPAGRO
(VIII) Biodiversity	(16) Auxiliary fauna (insect populations)	Once a year	Every demo site	GALPAGRO
(IX) Production Value	(17) Money saved	At the end of the Project	Every demo site	GALPAGRO
(X) <i>Xf</i> Resilience	(18) Resilient Rate	Spring/Summer 2021 and 2022	Authorized laboratory	UCO (IVALSA)

Chapter II. Life RESILIENCE Specific Indicators Table Results (Sep-19)

2. Specific Indicators Table (Sep-19)

Table 2 shows the monitoring status of the indicators updated September 2019. Most of them have not been evaluated yet, due to the conditions of cultivation until Sep. 2019 and development of the project at this moment.

Table 2. Monitoring status of the Specific Indicator on September 2019

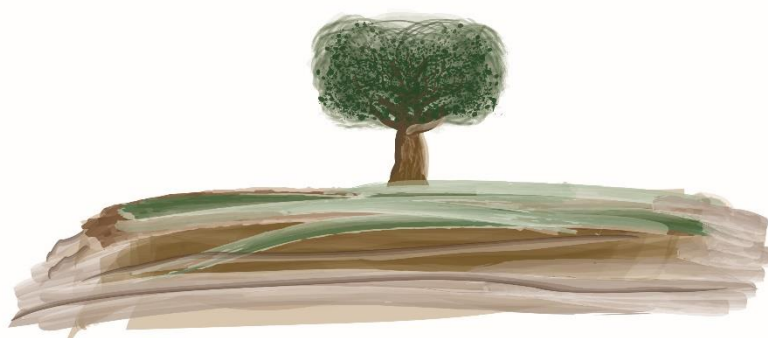
Factor	Parameter	Results
(I) Tree Health	(01) Nutritional State (Foliar Analysis)	In process
	(02) Tree Temperature	MR Annex 09. Technical monitoring report part 1
	(03) <i>Vegetative development</i> (NDVI, NDWI)	MR Annex 09. Technical monitoring report part 1
(II) Soil Quality	(04) Soil microbiological activity	MR Annex 09. Technical monitoring report part 1
	(05) Available Water Capacity (AWC)	MR Annex 09. Technical monitoring report part 1
	(06) Physicochemical analysis (SOM/SOC)	MR Annex 09. Technical monitoring report part 1.
(III) Disease prevalence	(07) <i>Xylella fastidiosa</i> disease control	In process
	(08) Insect vector trap	Delayed
(IV) Weather	(09) Climatic and atmospheric data	MR Annex 09. Technical monitoring report part 1.
(V) Quality	(10) Olive Oil (organoleptic characteristics)	In process (After harvesting)
	(11) <i>Almond (size and USDA grades)</i>	
(VI) Water use	(12) Water Use Efficiency (WUE)	In process (After harvesting)
	(13) Irrigation Water Productivity (IWP)	
	(14) Stem Water Potential (SWP)	In process (After harvesting)
(VII) Carbon Footprint	(15) CO ₂ emitted (agricultural processes)	At the end of project
(VIII) Biodiversity	(16) Auxiliary fauna (insect populations)	Spring 2020
(IX) Production Value	(17) Money saved	At the end of project
(X) <i>Xf</i> Resilience	(18) Resilient Rate	Spring/Summer 2021 and 2022

The results of the indicator 2, 3, 4, 5, 6, 9 are compiled in the annex “**MR Annex 09. Technical monitoring report part 1**”. The samples for determinate the value of indicator 1 is in the lab, we are waiting the results. The rest of the indicator are being controlled however the results will be completed in the correct moment as scheduled.

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