



## QGIS Physiocap Plugin



Title	QGIS Physiocap Plugin
Title (native language)	Extension Physiocap pour QGIS
Category	<ul style="list-style-type: none"> <li>Recording or mapping technology</li> <li>Farm Management Information System</li> </ul>
Short summary for practitioners (Practice abstract) in English)	<p>Physiocap is a laser instrument which measures &amp; geolocalize section et number of shots . Theses values are used to compare plots and can make cartography of vigor, vegetative expression inside plot. Actions that can be impacted by Physiocap Plugin can be pruning, fertilizer use, ground work and plot objectives. The concept has been designed and copyrighted (2013) by CIVC (Comité Champagne). Ereca has industrialized the instrumentation and commercialize. The Physiocap plugin is dedicated to Agronome. It make possible to analyse Physiocap raw data inside QGIS. Parameters precise thresholds to filter data. Results are presented in thematic shapefile. Histogram can be drawn to validate thresholds. With edges of yours plots, interparcel average are calculated and shown inside QGIS. Interpolation of data details differences inside each plot. All theses results have to be interpreted by agronom or vine technician. The plugin is open source and distributed inside QGIS.</p>
Short summary for practitioners	<p>Physiocap est un capteur laser qui géolocalise des mesures de diamètres et du nombre de sarments d'une vigne. Ces mesures permettent de comparer des potentiels parcellaires entre eux, mais aussi de cartographier la vigueur et l'expression végétative de la vigne. Les actions impactées par ces analyses concernent la taille de la vigne, la fertilisation, les conduites sous le rang ou inter rang et votre affectation parcellaire. Le concept a été défini et breveté (en 2013) par le CIVC. Ereca a industrialisé et commercialise le capteur. L'extension Physiocap est dédié au métier "Agronomie de la vigne". Elle permet de faire l'analyse des données brutes sans quitter QGIS. Les paramètres précisent les seuils du filtre de données. Les résultats de chaque itération de calcul sont présentés sous forme de shapefiles thématiques. Une synthèse et des histogrammes permettent de valider le traitement des données brutes. A partir de votre contour de parcelles de vigne, des moyennes inter parcellaires sont calculées et présentées sous QGIS. Une interpolation des points de chaque parcelle dans une image intra parcellaire permet de détailler les différences à l'intérieur de la parcelle. Ces différents résultats (Inter ou Intra) permettent de réaliser une interprétation agronomique. En réponse à la problématique envisagée, nous conseillons l'appui d'un agronome ou d'un technicien vigne averti pour utiliser les résultat de Physiocap. L'extension est diffusé en open source au sein de la distribution QGIS.</p>
Website	<a href="https://www.github.com/jhemmi/QgisPhysiocapPlugin/wiki/QGIS-Physiocap-Plugin-usage-&amp;-installation">www.github.com/jhemmi/QgisPhysiocapPlugin/wiki/QGIS-Physiocap-Plugin-usage-&amp;-installation</a>
Audiovisual material	
Links to other websites	
Additional comments	
Keywords	Agricultural production systems   Farming practice   Fertilisation and nutrients management
Additional keywords	diamètre sarment biomasse

Geographical location (NUTS)	FR
Other geographical location	WORLDWIDE
Cropping systems	
Field operations	Fertilization   Pesticide application   Irrigation   Harvesting
SFT users	Farmer   Contractor
Education level of users	Primary education
Farm size (ha)	2-10   10-50   50-100   100-200

## Company info

Company name	jhemmi.eu
Address	13 rue St hubert, Toulouse, France
Website	<a href="http://www.github.com/jhemmi">www.github.com/jhemmi</a>
Patent status	patent submitted

## Effects of this SFT

Productivity (crop yield per ha)	No effect
Quality of product	No effect
Revenue profit farm income	No effect
Soil biodiversity	No effect
Biodiversity (other than soil)	No effect
Input costs	No effect
Variable costs	No effect
Post-harvest crop wastage	No effect
Energy use	No effect
CH4 (methane) emission	No effect
CO2 (carbon dioxide) emission	No effect
N2O (nitrous oxide) emission	No effect
NH3 (ammonia) emission	No effect
NO3 (nitrate) leaching	No effect
Fertilizer use	No effect
Pesticide use	No effect
Irrigation water use	No effect
Labor time	No effect
Stress or fatigue for farmer	No effect
Amount of heavy physical labour	No effect
Number and/or severity of personal injury accidents	No effect
Number and/or severity of accidents resulting in spills property damage incorrect application of fertiliser/pesticides etc.	No effect
Pesticide residue on product	No effect
Weed pressure	No effect
Pest pressure (insects etc.)	No effect
Disease pressure (bacterial fungal viral etc.)	No effect

## Information related to how easy it is to start using the SFT

This SFT replaces a tool or technology that is currently used. The SFT is better than the current tool	strongly agree
The SFT can be used without making major changes to the existing system	strongly agree
The SFT does not require significant learning before the farmer can use it	agree
The SFT can be used in other useful ways than intended by the inventor	agree
The SFT has effects that can be directly observed by the farmer	strongly agree
Using the SFT requires a large time investment by farmer	disagree
The SFT produces information that can be interpreted directly	strongly agree

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