



Integrate a network of participatory science

Goal	<p>Implement easy protocol to better understand the local and common biodiversity (targeted species: earthworms, wild bees, butterflies, invertebrates)</p> <p>Increase biodiversity awareness of farmers with participatory science</p>
Short description of the measure	<p>Earthworms, wild bees, butterflies, invertebrates are interesting indicators because of the importance in provision of many ecosystem services:</p> <ul style="list-style-type: none"> ▪ Earthworms: soil functioning, soil fertility, organic matter recycling, water infiltration etc. ▪ Invertebrates: biological control of organisms (pest management). ▪ Butterflies: Sensitive to landscape change, to weeds / wild plants, pollination ▪ Wild bees: pollination <p>4 protocols has been designed by the biodiversity farming observatory (complete description in reference). The indicators are mainly the number of species or families identified.</p>  <p>Pic. 1: Indicators for ecosystem services</p>
Quality elements of soundly implemented biodiversity measures	<ul style="list-style-type: none"> ▪ Equipment on the field ▪ Book registration of the protocol results (families and species identified) ▪ Oral exchange with the advisor / coordinator of the measure (collective measure involving several farmers of an area)
Effects on biodiversity (ecosystems, species, soil biodiversity)	 <ul style="list-style-type: none"> ▪ Better understanding of local and common biodiversity (air and soil biodiversity) and of ecosystem services provided (pollination, soil fertility, biological control of organisms...)
Other positive effects/benefit for the farmer	<p>This is rewarding action for the farmer on which he can communicate to its consumers or others clients.</p>
Indicator/key data	<ul style="list-style-type: none"> ▪ Number of protocol implemented ▪ Wild bees, butterflies, invertebrates, earthworms diversity and abundance

Reference

- **Observatoire Agricole de la biodiversité**
<http://observatoire-agricole-biodiversite.fr/>
<http://oab.mnhn.fr/sites/observatoire-agricole-biodiversite.fr/files/upload/attached/postersoab.pdf>
- **OPVT, participative earthworm observatory, Université de Rennes**
<https://ecobiosoil.univ-rennes1.fr/page.php?93>
https://ecobiosoil.univ-rennes1.fr/e107_files/downloads/poster_OPVT_GSBI_2014.pdf

Further information: [Knowledge Pool](#)

This Action Fact Sheet belongs to the training package for managers of standard organisations and companies and was developed within the project LIFE Food & Biodiversity (Biodiversity in Standards and Labels of for the Food Industry). The main objective of the project is to improve the biodiversity performance of standards and sourcing requirements in the food industry by helping standard organisations to integrate efficient biodiversity criteria into their schemes and motivating food processing companies and retailers to include comprehensive biodiversity criteria into their sourcing guidelines.

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