

## Annex I: impact indicators (CAP pillar I & II)

<i>Policy objective</i>	<i>Indicator name</i>	<i>Indicator definition</i>	<i>Data source</i>	<i>Unit of measurement</i>	<i>Frequency</i>	<i>Delay</i>	<i>Level of geographical aggregation</i>	<i>Used for (Monitoring/Evaluation)</i>	<i>Comments</i>
<b><i>Viable food production</i></b>	<i>Agricultural Entrepreneurial income / AWU</i>	Agricultural entrepr. income / AWU;	Economic Accounts for Agriculture (Eurostat)	Euro / AWU	Accounts for Agriculture collected annually	EAA annually	Member State	Evaluation	data collection through already established system
<b><i>Viable food production</i></b>	<i>Agricultural entrepreneurial income / AWU as % of wages and salaries / AWU in economy</i>	Agricultural entrepreneurial income / AWU as % of wages and salaries / AWU in the rest of the economy;	Economic Accounts for Agriculture (Eurostat)	%	Accounts for Agriculture collected annually	EAA annually	Member State	Evaluation	data collection through already established system
<b><i>Viable food production</i></b>	<i>Total factor productivity (TFP) in agriculture</i>	Input/ output ratio	Economic Accounts for Agriculture (Eurostat) and other sources	Index	On request	N/A	Member State	Evaluation	data collection through already established system
<b><i>Viable food production</i></b>	<i>Commodity (market) price volatility</i>	Coeff. of variation for	AGRIVIEW / Global	%	Monthly at least		EU level	Evaluation	data collection through already established system

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		prices of a number of selected commodities	insight /FAO/ World bank						
<b><i>Viable food production</i></b>	<i>Consumer price evolution of food products</i>		Eurostat "Economy and finance", Harmonised Indices for Consumer Prices	Index	Monthly / yearly		Member State	Evaluation	Initially named consumer price volatility :  Eurostat database: <a href="http://epp.eurostat.ec.europa.eu/portal/page/portal/hicp/data/database">http://epp.eurostat.ec.europa.eu/portal/page/portal/hicp/data/database</a> (see the HICP (2005=100) - Annual Data average (all COICOP categories, where food is divided in other sub-categories for ex. bread and cereals, meat, milk, cheese and eggs, etc); other aggregates are also available as unprocessed food, processed food and beverages+tobacco, energy, etc.
<b><i>Viable food production</i></b>	<i>Agricultural trade balance (overall)</i>	Agricultural exports minus agricultural imports	COMEXT	EUR	yearly	Year Y available in Feb Y+1	EU level	Evaluation	data collection through already established system

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<b><i>Viable food production</i></b>	<i>Share of food expenditure in total expenditure</i>		Eurostat, under "Economy and finance", Harmonised Indices for Consumer Prices (HICP)	%	yearly		Member State	Evaluation	<p>Three approaches possible by using :</p> <ul style="list-style-type: none"> <li>○ HICP</li> <li>○ Household Budget Survey, data availability - 1988, 1994, 1999 and 2005: <a href="http://epp.eurostat.ec.europa.eu/portal/page/portal/household_budget_surveys/Data/database">http://epp.eurostat.ec.europa.eu/portal/page/portal/household_budget_surveys/Data/database</a> (see Structure of mean consumption expenditure, structure of consumption expenditure by detailed COICOP level)</li> <li>○ National Accounts, data until 2010 (for some countries until 2011): <a href="http://epp.eurostat.ec.europa.eu/portal/page/portal/national_accounts/data/database">http://epp.eurostat.ec.europa.eu/portal/page/portal/national_accounts/data/database</a> (see National Accounts detailed breakdowns (by industry, by product, by consumption purpose), Final consumption</li> </ul>

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									expenditure of households by consumption purpose (COICOP)
<b><i>Sustainable management of natural resources and climate action</i></b>	<i>Net GHG emissions from agriculture</i>	Aggregated annual emissions of CH <sub>4</sub> , N <sub>2</sub> O from agriculture and CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O from agricultural soils	Annual official data submission by MS to UNFCCC, EU Monitoring Mechanism and EEA/EION ET	Emissions are shown absolute and relative to data for the year 1990 and are expressed as CO <sub>2</sub> equivalents (ktonnes)	Yearly, at national level	Year Y in June Y+2	Member State		
<b><i>Sustainable management of natural resources and climate action</i></b>	<i>Farmland bird population index</i>	Population trends of up to 36 selected bird species that are common and characteristic of European farmland landscapes  (AEI 25)	Pan-European Common Bird Monitoring Scheme  Data assessed by EEA	% of variation of population	Yearly, at national level		Member State	Evaluation	This is based on the draft factsheet for AEI 25 (Population Trends of Farmland Birds) which is under discussion and may still change.  Only 22 countries participate in the project. Time series are problematic since countries, methodologies and species have changed over time.

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<i>Sustainable management of natural resources and climate action</i>	<i>HNV Farmland</i>	% of UAA with HNV status (AEI 23)	Many and varied (IACS, agricultural census, species databases, CORINE, sampling surveys etc)	Ha (HNV and UAA) converted to %	Variable, but typically every 3-4 years		RDP level	Monitoring Evaluation (also Biodiversity strategy)	
<i>Sustainable management of natural resources and climate action</i>	<i>Share of agriculture in water use</i>	Agricultural contribution (irrigation) to total freshwater abstraction	Eurostat	%	yearly		Member State	Evaluation	Based on the draft factsheets for AEI 20 (Water Abstraction) which are under discussion and may still change.  Currently, the data on water abstraction for irrigation are based on a joint OECD/Eurostat questionnaire carried out on an annual basis. There are data gaps as data submission is voluntary. Potential data source could be FSS after ?2016.
<i>Sustainable management of natural</i>	<i>Irrigated area</i>	Irrigated/ irrigable areas and their share	Eurostat	Ha; %	yearly		Member State		Based on the draft factsheets for AEI 7 (Irrigation) which are under discussion and may

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<i>resources and climate action</i>		in total UAA							still change.  Currently, the data on water abstraction for irrigation are based on a joint OECD/Eurostat questionnaire carried out on an annual basis. There are data gaps as data submission is voluntary. Potential data source could be FSS after ?2016.
<i>Sustainable management of natural resources and climate action</i>	<i>Water quality</i>	(a) Nitrate concentrations in groundwater and rivers – current situation and trends  (b) Concentrations of selected pesticides in groundwater and rivers – current	(a) EEA  (b) EEA	(a) mg/L NO <sub>3</sub>  (b) µg/L	(a) annual by monitoring station  (b) annual by monitoring station		Member State  Member State	Evaluation	Note that nitrate concentrations in waters may result not only from agricultural activities, therefore a care should be taken when interpreting this indicator.

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		situation and trends							
<i>Sustainable management of natural resources and climate action</i>	<i>Soil quality index</i>	<p>(a) composite indicator describing the ability of soil to provide agri-environmental services.</p> <p><b>OR</b></p> <p>(b) Topsoil survey under The Land Use/Land Cover Area Frame Survey (LUCAS)</p>	<p>(a) JRC</p> <p>(b) Eurostat</p>		<p>(a) irregular</p> <p>(b) due to resource constraints proposed to undertake this survey every 10 years</p>		Member State		<p>(a) Soil quality index based on modelling/ estimations from different sources and parameters. It is not to be updated regularly it is easily contestable since the results are not based on direct measurement.</p> <p>(b) The Land Use/Land Cover Area Frame Survey (LUCAS) was complemented by a module on soil (Topsoil survey) for the first time in 2009 for the EU-25 (in 2012 the module will cover also RO and BG - data will be available in 2014), on demand of DG ENV and JRC. The total number of soil samples collected was for EU-25 was approximately 21 000. Relevant parameters to agriculture could be organic carbon content and nutrients (NPK).</p>

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<i>Sustainable management of natural resources and climate action</i>	<i>Soil erosion indicator</i>	(a) Estimated rate of soil loss by water  <b>OR</b>  (b) Area affected by a certain rate of soil erosion by water	JRC	(a) t/ha/year at NUTS3 level    (b) %/ha at NUTS3 level by type of land use (arable, permanent crops, pastures)	Model calculations available for 2000 and 2006		Member State		The indicator values estimated and therefore easily contestable. JRC plans to update the indicator in the future if data become available.
<i>Balanced territorial development</i>	<i>Rural employment rate [compared to rest of economy]</i>	Employed persons aged 15-64 as a share of the total population of the same age group in predominantly rural regions;	Eurostat  lfst_r_lfe2emp  demo_r_pjanaggr3	%	According to Eurostat survey frequencies	According to Eurostat data release	RDP level		



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<b><i>Balanced territorial development</i></b>	<i>Share of rural population living at risk of poverty [compared to rest of economy]</i>	% of population at risk of poverty (< 60% of the median household income) in predominantly rural regions;	Special request to Eurostat based on the series ilc_peps01	%	According to Eurostat survey frequencies	According to Eurostat data release procedures	Member State		data collection through already established system
<b><i>Balanced territorial development</i></b>	<i>Rural GDP per capita in PPS [compared to rest of economy]</i>	GDP pc in predominantly rural regions, expressed in PPS, as % of the EU-27 = 100, three year average.	Eurostat nama_r_e3gdp  demo_r_d3avg	%	According to Eurostat survey frequencies	According to Eurostat data release procedures	Member State		