

Interinstitutional files: 2018/0216(COD)

Brussels, 25 September 2020

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WORKING PAPER

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WORKING DOCUMENT

From:	General Secretariat of the Council
To:	Working Party on Horizontal Agricultural Questions (CAP Reform)
N° Cion doc.:	9645/18 + COR 1 + ADD 1
Subject:	Proposal for a Regulation on CAP Strategic Plans Indicators - Updated Commission fiches on context and impact indicators

Delegations will find attached updated fiches on context and impact indicators from the Commission.

Context and Impact indicators

1 October 2020

Context and Impa	Impact	Context Indicator		Indicator name	
	Indicator code	Code			
	code	PMEF	CMEF (current)		
Population		<u>C.01</u>	C.01	Population numbers	
		<u>C.02</u>	C.04	Population density	
		<u>C.03</u>	C.02	Age structure of the population	
Total area		<u>C.04</u>	C.03	Total area	
		<u>C.05</u>	C.31	Land cover	
Labour market	<u>1.22</u>	<u>C.06</u>	C.05	Employment rate	
		<u>C.07</u>	C.07	Unemployment rate	
		<u>C.08</u>		Employment	
			C.11	By sector	
				By type of region	
			C.13	By economic activity	
Economy	<u>I.23</u>	<u>C.09</u>	C.08	GDP per capita	
	<u>1.25</u>	<u>C.10</u>	C.09	Poverty rate	
		<u>C.11</u>		Gross value added	
			C.10	By sector	
			C.10	By type of region	
				In agriculture	
	<u>I.8</u>		R.03_PI	For primary producers	
Farms and		<u>C.12</u>	C.17	Agricultural holdings (farms)	
farmers		<u>C.13</u>	C.22	Farm labour force	
		<u>C.14</u>	C.23	Age structure of farm managers	
		<u>C.15</u>	C.24	Agricultural training of farm managers	
	<u>I.21</u>	<u>C.16</u>		New farm <u>manag</u> ers	
Agricultural		<u>C.17</u>	C.18	Agricultural area	
land		<u>C.18</u>	C.20	Irrigable land	
		<u>C.19</u>	C.34	Farming in Natura 2000 areas	
		<u>C.20</u>	C.32	Areas facing natural and other specific constraints (ANCs)	
	<u>1.20</u>	<u>C.21</u>		Agricultural land covered with landscape features	
Livestock		<u>C.22</u>	C.21	Livestock units	
		<u>C.23</u>		Livestock density	
Agricultural and	<u>I.3</u>	<u>C.24</u>	C.25	Agricultural factor income	
farm income	<u>I.2</u>	<u>C.25</u>	C.26	Comparison of agricultural income with non-agricultural labour costs	
		<u>C.26</u>		Farm income,	
	<u>I.4</u>			by type of farming	
				by region	
				by farm size	
	<u>1.5</u>			in Areas facing natural and other	

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		1 '	Detaber 202	specific constraints
		<u>C.27</u>	C.28	Gross fixed capital formation in agriculture
Agricultural productivity	<u>I.6</u>	<u>C.28</u>	C.27	Total factor productivity in agriculture
		<u>C.29</u>		Labour productivity
			C.14	in agriculture
			C.15	in forestry
			C.16	in the food industry
Agricultural trade	<u>I.7</u>	<u>C.30</u>	1.06	Agricultural imports and exports
Other gainful activities		<u>C.31</u>	C.30	Tourism infrastructure
Farming practices	<u>I.17a</u>	<u>C.32</u>	C.19	Agricultural area under organic farming
		<u>C.33</u>	C.33	Farming intensity
	<u>1.28</u>	<u>C.34</u>	R.09_PI	Value of production under EU quality schemes
Biodiversity	<u>I.18</u>	<u>C.35</u>	C.35	Farmland birds index (FBI)
	<u>I.19</u>	<u>C.36</u>		Percentage of species and habitats of Community interest related to agriculture with stable or increasing trends
Water	<u>I.17</u>	<u>C.37</u>		Water use in agriculture
		<u>C.38</u>		Water quality
	<u>I.15</u>		C.40	Gross nutrient balance – nitrogen
			C.40	Gross nutrient balance – phosphorus
	<u>I.16</u>			Nitrates in ground water
Soil	<u>I.11</u>	<u>C.39</u>	C.41	Soil organic <u>carbon in agricultural</u> land
	<u>I.13</u>	<u>C.40</u>	C.42	Soil erosion by water
Energy	<u>I.12</u>	<u>C.41</u>	C.43	Production of renewable energy from agriculture and forestry
		<u>C.42</u>	C.44	Energy use in agriculture, forestry and food industry
Climate	<u>I.10</u>	<u>C.43</u>	C.45	Greenhouse gas emissions from agriculture
	<u>I.9</u>	<u>C.44</u>		Agricultural sector resilience
				progress indicator
		<u>C.45</u>		Direct agricultural loss attributed to disasters
Air	<u>I.14</u>	<u>C.46</u>	C.45	Ammonia emissions from agriculture
Health	<u>1.26</u>	<u>C.47</u>		Antimicrobials sales in food producing animals
	<u>I.27</u>	<u>C.48</u>		Risk and impacts of pesticides
Modernisation	<u>I.1</u>			Share of CAP budget for knowledge sharing and innovation
Fairness	<u>I.24</u>			Distribution of CAP support

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Context and Impact indicators,

1 October 2020

Impact Indicators by objectives as modified by the Presidency

Specific Objective	Impact Indicator code	Context Indicator Code	Impact Indicator name
Modernising the sector by fostering	<u>I.1</u>		Sharing knowledge and innovation
knowledge, innovation and digitalisation in agriculture and rural areas and encouraging their uptake			
Constraint and forms in the second	<u>I.2</u>	<u>C.25</u>	Reducing income disparities
Support viable farm income and resilience across the Union to	<u>I.3</u>	<u>C.24</u>	Reducing farm income variability
enhance food security	<u>1.4</u>	<u>C.26</u>	Supporting viable farm income
<u> </u>	<u>I.5</u>	<u>C.26</u>	Contributing to territorial balance
Enhance market orientation and	<u>1.6</u>	<u>C.28</u>	Increasing farm productivity
increase competitiveness, including greater focus on research, technology and digitalisation	<u>I.7</u>	<u>C.30</u>	Harness <u>ing</u> Agri-food trade
Improve the farmers' position in the	<u>I.8</u>	<u>C.11</u>	Improving farmers' position in the
value chain			food chain
	<u>1.9</u>	<u>C.44</u>	Improving <u>the</u> resilience of
			agriculture to climate change
Contribute to climate change	<u>I.10</u>	<u>C.43</u>	Contributing to climate change
mitigation and adaptation, as well as sustainable energy	<u>I.11</u>	<u>C.39</u>	mitigation Enhancing carbon sequestration
sustainable energy	I.12	C.41	Increasing sustainable energy in
	1.12	<u>C.41</u>	agriculture
	I.13	C.40	Reducing soil erosion
Foster sustainable development and	I.14	C.46	Improving air quality
efficient management of natural	I.15	C.38	Improving water quality
resources such as water, soil and air	I.16	C.38	Reducing nutrient leakage
	<u>I.17</u>	<u>C.37</u>	Reducing pressure on water resource
Contribute to the protection of	<u>I.17a</u>	<u>C.32</u>	Agricultural area under organic farming
biodiversity, enhance ecosystem	<u>I.18</u>	<u>C.35</u>	Increasing farmland bird populations
services and preserve habitats and	<u>I.19</u>	<u>C.36</u>	Enhancing, biodiversity protection
landscapes	<u>1.20</u>	<u>C.21</u>	Enhancing provision of ecosystem services
Attract and sustain young farmers	<u>I.21</u>	<u>C.16</u>	Attracting young farmers
and facilitate business development in rural areas	<u>I.22</u>	<u>C.06</u>	Contributing to jobs in rural areas
Promote employment, growth,	<u>I.23</u>	<u>C.09</u>	Contributing to growth in rural areas
gender equality, social inclusion and	<u>I.24</u>		A fairer CAP
local development in rural areas, including bio-economy and sustainable forestry	<u>I.25</u>	<u>C.10</u>	Promoting rural inclusion
Improve the response of EU agriculture to societal demands on	<u>1.26</u>	<u>C.47</u>	Limiting antimicrobiaL use in farmed animals
food and health, including safe, and	<u>I.27</u>	<u>C.48</u>	Sustainable use of pesticides
nutritious food produced in a sustainable way, food waste, as well as animal welfare	<u>I.28</u>	<u>C.34</u>	Responding to consumer demand for quality food

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Context and Impact indicators, 1 October 2020,

FICHE CONTENTS

Indicator Name	Title of the indicator used in the commission implementing regulation/guidance documents
Definition	Concise definition of the concept, including if the indicator already exists, e.g. Agri-environmental indicator (AEI), EUROSTAT indicator. If appropriate, include the methodology/formula for establishment of the indicator
Unit of measurement	Unit used to record the value (e.g. ha, tonnes, €, %)
Data source	Identification of existing data sources (e.g. EUROSTAT identifying relevant data set, Farm Accountancy Data Network (FADN), European Environmental Agency, etc.)
References/location of the data	Links (other references) to data sources (e.g. in EUROSTAT specifying exact tables, FAO, World bank) AEI definitions, regulations establishing indicators, etc.
Data collection / dissemination level	Identification of the geographical level at which the data is available and at which level the indicator should be established
Frequency	Frequency at which the indicator is collected/calculated
Timeliness	How old are the data when they become available
Comments/caveats	Comments concerning interpretation of the indicator for monitoring and evaluation purposes and its caveats, if appropriate

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	Context and Impact indicators	Deleted: Draft list of
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INDICATOR C.01		Deleted: 28
Indicator Name	Population numbers	Deleted: November
	This indicator refers to the population on 1st of January of any given year and consists of 3 specific indicators:	Deleted: 19
Definition	1total_population	Deleted: :
Deminion	 share of total population by type of region (predominantly rural, intermediate and predominantly urban) 	Deleted: and
	3. share of total population by sex,	Deleted: .
	1: number of persons (in thousands)	Deleted: 1:-
Unit of measurement	(where 'persons' comply with the 'usually resident population' concept as defined in <u>EU Regulation 1260/2013</u> on European demographic statistics)	Deleted: N
	2 - 3: %	Deleted: -3
Data source	Eurostat – Demography and migration Eurostat – Demography statistics by other typologies	Deleted: share of total population
	National data: tables Population change - Demographic balance and crude rates	Deleted: and regional
	at national level [demo_gind] and Population on 1 January by age and sex	Deleted: T
	[demo_pjan]	Deleted:
References / location of the data	National data, by typology: table Demographic balance and crude rates by other typologies [urt_gind3]	Deleted: and at regional level (NUTS 3) [demo r gind3]
	Regional data: Tables Population change - Demographic balance and crude rates at regional level (NUTS 3) [demo_r_gind3] and Population on 1 January	Deleted: ¶

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- No distinction between rural and intermediate areas: BE 2000-2003, CZ 2000, PL 1995-2009

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by age group, sex and NUTS 3 region [demo_r_pjangrp3]

predominantly rural, intermediate and predominantly urban.

MT and LU − only predominantly urban area,

SI – only predominantly rural and intermediate area,

intermediate and predominantly urban)

CY – only intermediate area,

Annual

1 year

Data collection /

Frequency

Timeliness

dissemination level

Comments/caveats

EU, National (NUTS 0) and demographic data at regional level (NUTS 3) which

The distribution of population by type of region has been calculated using the Commission's urban-rural typology, which classifies NUTS 3 regions into

Some Member States have only some types of areas, or data for some areas:

are used to compute population by regional typology (predominantly rural,

Context	and	Imnact	indicators
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	<u> </u>	
INDICATOR C.02		1
Indicator Name	Population density	Y
	This indicator is calculated as the annual average population divided by the land area and refers to the number of inhabitants per km ² .	
Definition	It consists of 2 specific indicators:	יַן
Definition	1. population density	
	 population density by type of region, (predominantly rural, intermediate and urban regions). 	
	1 - 2: Number of persons/km ²	Ţ
Unit of measurement	(where 'persons' comply with the 'usually resident population' concept as	(L
	defined in EU Regulation 1260/2013 on European demographic statistics)	V
	Eurostat – Demography and migration	
Data source	Eurostat – Demography statistics by other typologies	
References / location	National and <u>regional</u> data: Table: Population density by NUTS 3 region [demo r d3dens]	-
of the data	National data, by typology: table Population density by other typologies urt d3dens	
Data collection /	EU, National (NUTS 0), Regional (NUTS 1, 2 and 3)	11:
dissemination level	by type of region (predominantly rural, intermediate and predominantly urban)	
Frequency	Annual	
Timeliness	1 year	
	The distribution of population by type of region has been calculated using the Commission's urban-rural typology, which classifies NUTS 3 regions into predominantly rural, intermediate and predominantly urban.	
	Total area (including inland waters) is used when land area is not available.	
	All tables at regional level include data at national level.	
Comments/caveats	Starting with the year 2016, the population density included in the table [demo r d3dens] is computed using the area data included in the table [reg area3]].	
	Regional data by type of region calculated as demo r gind3 (average population) / demo r d3area and classified according to the Commission's urban-rural typology.	11.
	Most recent urban-rural typology: https://ec.europa.eu/eurostat/web/rural-development/methodology	

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Most recent urban-rural typology:
https://ec.europa.eu/eurostat/web/rural-development/methodology

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INDICATOR C.03	
Indicator Name	Age structure of the population
	This indicator refers to the age structure of the EU population on 1st of January of any given year. It consists of 3 specific indicators:
	1. share of total population by broad age groups (less than 15 years / from 15 to 64 years / 65 years or over)
Definition	 share of population by sex by broad age groups (less than 15- years / from 15 to 64 years / 65 years or over)
	3. share of population by broad age groups (less than 15 years / from 15 to 64 years / 65 years or over) and by type of region (predominantly rural, intermediate and predominantly urban).
Unit of measurement	1-3:%
_	Eurostat - Demography and migration
Data source	Eurostat - Demography statistics by other typologies
	National data: Table Population on 1 January by broad age group and sex [demo pjanbroad],
References / location of the data	National data, by typology: Table Population by sex and age groups on 1 January [urt_pjanaggr3] Regional data: Table Population on 1 January by broad age group, sex and NUTS 3 region [demo_r_pjanaggr3]
	Alternatively, there is more detailed data age structure of the population by NUTS 3 regions starting with the year 2014: data by 5-year age group are available in the table [demo r pjangrp3].
Data collection / dissemination level	EU, National (NUTS 0), Regional (NUTS 1, 2 and 3) by type of region (predominantly rural, intermediate and predominantly urban)
Frequency	Annual
Timeliness	1 year
Comments/caveats	The age structure by type of region has been calculated using the Commission's urban-rural typology, which classifies NUTS 3 regions into predominantly rural, intermediate and predominantly urban.

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	ersons ¶ ith the 'usually resident population' ulation 1260/2013 on European
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Context and Impact indicators	
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INDICATOR C.04		Deleted: 28
Indicator Name	Total area	Deleted: November
	This indicator refers to the total area, with 2 specific indicators: 1. total area (including inland waters)	Deleted: 19
Definition	2. share of total area by type of region (predominantly rural,	Deleted: 1 - the
	intermediate and predominantly urban).	Deleted: 2 - and the distribution
Unit of measurement	1: km²	Deleted: -
ome or measurement	2: _* %	Deleted: -share of total area
Data source	Eurostat - Demography and migration Eurostat - Demography statistics by other typologies	
	National data: users should use total area figures from Table Area by NUTS 3	Deleted: U
References / location	region [reg_area3]	Deleted: t
of the data	National data, by typology: Table Area of the regions by other typologies [urt d3area]	
	Regional data: Area by NUTS 3 region [reg_area3]	Deleted: [demo_r_d3area] (data until 2015)
Data collection / dissemination level	EU, National (NUTS 0) and Regional (NUTS 1, 2 and 3)	
Frequency	Annual	
Timeliness	1 year	
Comments/caveats	In case of missing data, land area has to be used instead of total area.	Deleted: en
comments/ cuvcuts		Deleted: ¶

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Indicator C.05		\downarrow		
Indicator Name	Land Cover			
Indicator Name		וַ		
	The indicator measures the area in the different categories of land cover <u>and it</u> consists of 5 specific indicators:			
	1. Artificial surface,	J≻		
	2Agricultural areas.			
Definition	3. Natural grassland			
	4. Forest including transitional woodland-shrub,			
	5. Wetlands and water bodies			
	Land cover is the actual distribution of forests, water, desert, grassland and other physical features of the land, including those created by human activities. Land use, on the other hand, characterises the human use of a land cover type.			
Unit of measurement	1 - 4 total area in km² and in %	_		
Data source CORINE Land Cover (CLC) 2012, 2018, CLC Change (CHA) 2012				
	European Environment Agency	Ų		
D-f / lti	https://www.eea.europa.eu/data-and-maps/data/copernicus-land-monitoring-	I		
References / location of the data	<u>service-corine</u>			
or the data	https://land.copernicus.eu/pan-european/corine-land-cover/clc2018			
	https://land.copernicus.eu/pan-european/corine-land-cover/lcc-2012-2018			
Data collection /	EU, National (NUTS 1), Regional (NUTS 2).			
dissemination level				
_	Depending on the frequency foreseen in the new CLC+ (see			
Frequency	https://www.copernicus.eu/sites/default/files/2019- 01/Copernicus Work Programme 2019.pdf)			
Timeliness	CORINE Land Cover/CLC+: 1.5 years or less	4		
Timeliness	The total area here could be different from total area in C.04 because of the	4		
	different source.			
	1: CLC class 1			
Comments/caveats	2: CLC class 2			
	3: CLC class 321			
	4: CLC class 3.1 and 324			
	5: CLC class 4 and 5,	-{[

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	ted: share of total area¶ f total area

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	Context and Impact indicators	1
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INDICATOR C.06	Indicator I.22 Contributing to jobs in rural areas: Evolution of the employment rate in predominantly rural areas	I
Label as proposed by the Presidency	Indicator I.22 Contributing to jobs in rural areas: Evolution of the employment rate in rural areas	
Indicator Name	Employment rate	
Label as proposed by the Presidency	Rural employment rate	
	Employed persons aged 15-64 years and 20-64 years ¹ as a share of the total population of the same age group in rural areas:	
	Employed persons are all persons aged 15-64 (or 20-64) years and over who, during the reference week, worked at least one hour for pay or profit or were temporarily absent from such work. Employed persons comprise employees, self-employed and unpaid family workers.	
	<u>Population</u> covers persons aged 15-64 (or 20-64) years and over living in private households. This comprises all persons living in the households surveyed during the reference week. This definition also includes persons absent from the households for short periods (but having retained a link with the private household) owing to studies, holidays, illness, business trips, etc. Persons on compulsory military service are not included.	
Definition	There are 3 specific indicators:	
	 total employment rate and by age groups total employment rate by sex and by age groups total employment rate by age groups in rural areas 	
	Methodology:	
	Based on the Labour Force Survey (LFS), the total employment rate of each country can be disaggregated by degree of urbanisation. This degree of urbanisation classifies the territory (Local Administrative Units (LAU)) into rural areas, towns and suburbs and cities. The rural employment rate of each Member State could then be compared with the employment rates in the other two types of areas or with the employment rate for the whole country. Additionally, employment rates could also be calculated for men and women and even for other age groups.	
Unit of measurement	1 - 3: %	1
Data source	Eurostat – Labour Force Survey	Œ
References / location of the data	Employment rates are calculated by Eurostat and disseminated on its website: National data, including by typology: table Employment rates by sex, age and degree of urbanisation (%) [Ifst r ergau] Regional data: table. Employment rates by sex, age and NUTS 2 regions (%) [Ifst r Ife2emprt]	
Data collection / dissemination level	LFS data are collected at LAU level (LAU2), with a sample defined to be significant at NUTS 2 level and at national level. By degree of urbanisation (rural areas, towns and suburbs, cities)	<u>ר</u>
Frequency	LFS data are collected on a continuous basis and quarterly/annual results are produced. Data by degree of urbanisation are disseminated by Eurostat annually	

¹ In the programming period 2007-2013, the employment rate was calculated for the age group of 15-64 years. In
the Europe 2020 strategy, reaching an employment rate of 75% of the population aged 20-64 years is one of the
five headline targets to be achieved; however, in rural areas the employment of people below 20 is also an
important indicator. Thus it is proposed to keep both age groups, which is also Eurostat's approach.

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Timeliness

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Context and Impact indicators

<u>1 October 2020</u>

Comments/caveats

Although the use of the degree of urbanisation has been selected as the most appropriate for the indicator "rural employment rate", the urban/rural typology is the one to be used when the information is available at NUTS level 3 (for example, for the indicator "Rural GDP per capita").

Note: the issue with the label proposed by the Presidency is that contrary to the impact indicator, the context indicator does not refer only to rural areas.

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INDICATOR C.07		Deleted: November
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Indicator Name	Unemployment rate	Deleted: Page Break
Label as proposed by the Presidency	Rural unemployment rate	
	This indicator provides the number of unemployed persons aged 15-24 years (youth unemployment rate) and 15-74 years (total unemployment rate) as a share of the total economically active population of the same age class. It consists of 6 specific indicators, expressed as a share of total active population of the same age class:	Deleted: :
	1. total unemployment rate	Deleted: -
	2. youth unemployment rate	Deleted: T
	3. total unemployment rate in rural areas	
	4. youth unemployment rate in rural areas	Deleted: and
	5. total unemployment rate by sex	Deleted: - and
	6. youth unemployment rate by sex.	Deleted: and
	Unemployed persons comprise persons who were (all three conditions must be	Deleted: -
	fulfilled simultaneously):	Deleted: and youth rate
Definition	1. without work during the reference week,	Deleted: .
	2. available for work at the time,	Deleted: ¶
	3. actively seeking work.	
	Economically active population is employed (see definition in indicator C.06) plus unemployed.	
	Methodology: Based on the Labour Force Survey (LFS), the total/youth unemployment rate of each country can be disaggregated by degree of urbanisation. The degree of urbanisation classifies the territory (Local Administrative Units (LAU)) into 'rural areas', 'towns and suburbs' and 'cities'. The rural unemployment rate of each Member State could then be compared with the unemployment rates in the other two types of areas or with the unemployment rate for the whole country. Additionally, unemployment rates could also be calculated for men and women and even for other age groups, if needed for a better analysis.	
Unit of measurement	1-6:%	Deleted: -2-3
Data source	Eurostat – Labour Force Survey	Deleted: share of total active population of the same age class
	National data: total unemployment [TEPSR_WC170]	Deleted: Total, by sex and in the rural areas:¶ - % of total active population of the same age class
References / location of the data	unemployment by degree of urbanisation (DG AGRI calculations): [Ifsa pgauws] Regional data (NUTS 1 and 2): Unemployment rates by sex, age and NUTS 2 regions [Ifst r Ifu3rt]	Deleted: Unemployment rates are calculated by Eurostat and disseminated on its website: National data, total and by degree of urbanisation: Table Population by sex, age, degree of urbanisation of residence and labour status [ifsa pgauws]¶
Data collection /	EU, National (NUTS 0), Regional (NUTS 1 and 2)	Regional data, by degree of urbanisation: Ttables Unemployment by sex, age and NUTS 2 regions (1
dissemination level	by degree of urbanisation (rural areas, towns and suburbs, cities)	000) [Ifst_r_Ifu3pers] [Ifst_r_ergau] and Economically
Frequency	LFS data are collected on a continuous basis and quarterly/annual results are produced. Data by degree of urbanisation are disseminated by Eurostat	active population by sex, age and NUTS 2 regions (1 000) [lfst r lfp2act] (the unemployment rate at regional level needs to be calculated)¶
	annually 4 months	Deleted: ¶
Timeliness	T IIIOIIUIS	
Comments/caveats	Although the use of the degree of urbanisation has been selected as the most appropriate for the indicator "rural unemployment rate", the urban/rural typology is the one to be used when the information is available at NUTS level 3 (for example, for the indicator "Rural GDP per capita").	

3 (for example, for the indicator "Rural GDP per capita").

The age classes 15-74 and 15-24 are used both for national and regional

Context and Impact indicators. Loctober 2020. Deleted: Draft list of Deleted: for the PMEF Deleted: 28 Note: the issue with the label proposed by the Presidency is that contrary to the impact indicator, the context indicator does not refer only to rural areas. Deleted: 19 Deleted: ¶

	Context and Impact indicators	Deleted: Draft list of
	1 October 2020	Deleted: for the PMEF
INDICATOR C.08	<u> </u>	Deleted: 28
	Employment	Deleted: November
Indicator Name	by sector, by type of region and by economic activity	Deleted: 19
	This indicator shows employment figures for 4 specific indicators:	
	1. total employment and by sex	Deleted: and
	share of total employment by sector (primary, secondary, tertiary)	Deleted: total
	and by sex	Deleted: and percentages
	3. share of total employment by type of region (predominantly rural,	Deleted: -
Definition	intermediate and predominantly urban)	Deleted:
	4. share of total employment by economic activity (agriculture, forestry, the food industry, tourism) and by sex.	Deleted: -
		Deleted:
	The absolute change and the annual growth of employment by economic activity at national level are calculated as three-year averages. If the available	Deleted: and by sex
	data allow, the calculation of five-year averages is also possible.	Deleted: -
	1: number of persons (in thousands)	Deleted:
Unit of measurement	2 - 4: %	Deleted: ;
	1: Tables on EU policy	Deleted:)
Data source	3: Eurostat – Regional Economic Accounts	Deleted: Total employment:
	2 and 4 : Eurostat – Labour Force Survey	Deleted: 1000 persons¶
	1; National data, Employment and activity by sex and age - annual data	Deleted: A. For each sector (primary, secondary,
	[lfsi_emp_a]	tertiary):- share % of total employment
	2 and 4: Eurostat website, Labour Force Survey: national data, Employment by	Deleted: ¶
- 4 · · · · · · / I · · · I · ·	sex, age and detailed economic activity (from 2008 onwards, NACE Rev. 2 two	¶ 3: B. In each type of region (predominantly rural,
References / location of the data	digit level) - 1 000 [lfsa_egan22d]	intermediate and predominantly urban):share % of
Of the data	3: Regional data: [nama 10r 3empers] and [lfst r lfe2en2] for totals;	total employment¶ 4: C. For each economic activity (agriculture, forestry,
	Most recent urban-rural typology: https://ec.europa.eu/eurostat/web/rural-	the food industry, tourism): 1000 persons (by sex) and
	development/methodology	share % of total employment
	4: Employment by economic activity on special request to Eurostat	Deleted: , 2 and 3
Data collection /	EU, National (NUTS 0), Regional (NUTS 1, 2 and 3).	Deleted: B.
dissemination level	For 3, by type of region (predominantly rural, intermediate and predominantly	Deleted: National and
	urban)	Deleted: C.
	Annual	Deleted: and 2
	For 2 and 4, LFS data are collected on a continuous basis and quarterly/annual	Deleted: National data: table [nama 10 a10 e] ¶
Frequency	results are produced. Data at NUTS 2 level are disseminated by Eurostat annually	Regional data: table [nama 10r 3empers]¶ 3: National data: table Employment by NACE Rev. 2
	Regional data are published as annual averages of quarterly data	activity and other typologies [urt_10r_3emp]¶
	For 1 and 3: 1 year (national data) and 3 years (regional data)	Deleted:
Timeliness	For 2 and 4: 4 months	Deleted: : table
	For 2 and 4:	Deleted: ¶
	Sectors in NACE rev.2:	Deleted: employment by economic activity on specia
	Primary sector = branch A (agriculture, forestry and fishing);	Deleted: 2B
	Secondary sector = branches B-E + F (industry + construction);	Deleted: ,
	Secondary sector = branches $G-E+F$ (industry + construction); Tertiary sector = branches $G-I+J+K+L+M-N+O-Q+R-U$.	Deleted: 2 A.
	,	Deleted: B
Comments/caveats	For 2: The distribution of employment by type of region has been calculated using the Commission's urban-rural typology, which classifies NUTS 3 regions	Deleted: A
	into predominantly rural, intermediate and predominantly urban.	Deleted: B
	For 3: Furgetat's Labour Force Survey (LES) is the main data course for the	Deleted: B

Deleted: C

For 3: Eurostat's Labour Force Survey (LFS) is the main data source for the domain employment. The EU LFS is a large household sample survey providing quarterly results on labour participation of people aged 15 years and over (16 years and over in Spain, Italy and the UK, 15-74 years in Estonia, Latvia, Hungary, Finland, Sweden and Denmark).

Context and Impact indicators

1 October 2020

In the Eurostat LFS database (according to the NACE rev.2 divisions) agriculture corresponds to "crop and animal production, hunting and related activities" (A01), while forestry means "forestry and logging" (A02), the food industry is equal to "manufacture of food products" (C10) and "manufacture of beverages" (C11) and "manufacture of tobacco products" (C12), tourism corresponds to "accommodation" (I55) and "food and beverage service activities" (I56).

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Deleted: for the PMEF
Deleted: 28
Deleted: November
Deleted: 19

Context and Impact indicators

11	October	20 <u>20</u>

<u> </u>				
INDICATOR C.09	Indicator I.23 Contributing to growth in rural areas:			
INDICATOR C.U9	Evolution of GDP per head in predominantly rural areas			
Label as proposed by	Indicator I.23 Contributing to growth in rural areas:			
the Presidency	Evolution of GDP per head in rural areas			
Indicator Name	GDP per capita			
	Gross Domestic Product (GDP) per capita in predominantly rural regions, in Purchasing Power Standard (PPS) ²			
Definition	The index of GDP per capita in Purchasing Power Standards (PPS) is expressed in relation to the European Union average set to equal 100.			
Definition	In particular, the following 2 specific indicators are calculated:			
	1. Index of GDP expressed in PPS per inhabitant at national level			
	2. <u>Index of GDP expressed in PPS per inhabitant in percentage of the last of </u>			
	the EU average for predominantly rural areas.			
Unit of measurement	1 - 2: index of GDP in PPS per inhabitant			
B-4	Eurostat – National and Regional Economic Accounts			
Data source	Eurostat — Rural development statistics			
	National data: table [nama 10 gdp], [nama 10 pc],			
	Regional data: table [nama 10r 3popgdp, nama 10r 3gdp]			
References / location of the data	National data, by typology: table Gross domestic product (GDP) at current market prices by other typologies [urt 10r 3gdp]			
	Most recent urban-rural typology: https://ec.europa.eu/eurostat/web/rural-development/methodology			
Data collection /	EU, National (NUTS 0), Regional (NUTS 1, 2 and 3)			
dissemination level	by type of region (predominantly rural, intermediate and predominantly urban)			
Frequency Annual				
Timeliness	1 year (national data) and 3 years (regional data)			
Comments/caveats	As an average, this indicator does not measure the distribution of incon within a given geographical area. Furthermore, non-monetary exchang (production for self- consumption; public goods and externalities; barte unpaid family labour) are not taken into account but can be substantial in son sectors (especially in agriculture) and regions.			

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	Deleted: November
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Deleted: The PPS per inhabitant in rural areas can be compared to the PPS per inhabitant at national level (without distinction by type of region) or to EUother aggregations (EU-15, EU-N13). ¶

Deleted: ¶

Deleted: by Eurostat

Deleted: in predominantly rural, intermediate and predominantly urban areas¶

Deleted: , intermediate and predominantly urban

Deleted: GDP i

Deleted: I

Deleted: total

Deleted: n

Deleted: nominal terms and

Deleted: (for the simple reporting of absolute values)

Deleted: ¶

2: Index by region % (for comparison of values from predominantly rural areas to those of other areas or to the EU average)

Deleted: [prc_ppp_ind]

Deleted: [demo_gind]

 2 The Purchasing Power Standard, abbreviated as PPS, is an artificial currency unit. Theoretically, one PPS can buy the same amount of goods and services in each country. However, price differences across borders mean that different amounts of national currency units are needed for the same goods and services depending on the country. PPS are derived by dividing any economic aggregate of a country in national currency by its respective Purchasing Power Parities.

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
Turney C 10	Indicator I.25 Promoting rural inclusion:	Deleted: 28
Indicator C.10	Evolution of poverty index in rural areas	Deleted: November
Label as proposed by	Indicator I.25 Promoting rural inclusion:	Deleted: 19
the Presidency	Evolution of poverty index in rural areas	
Indicator Name	Poverty rate	
Definition	The indicator is defined as the share of population at risk of poverty or social exclusion in rural areas, as defined in the classification of the degree of urbanisation (DEGURBA). It is calculated as the percentage of people who are at risk of poverty or severely deprived or living in a household with low work intensity over the total population. The at-risk-of-poverty rate is the share of people with an equivalised disposable income (after social transfer) below the at-risk-of-poverty threshold, which is set at 60 % of the national median equivalised disposable income after social transfers (http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:At-risk-of-poverty_rate). The degree of rural poverty (share of population at risk of poverty) can be compared to the overall EU, average, to the respective national average and/or to the average for intermediate and/or urban areas in a Member State or in the EU, (choice to be made according to the policy objective). It consists of 3 specific indicators, expressed as share of total population: 1. **total poverty rate*	Deleted: -278 Deleted: -278 Deleted: -1 -
	poverty rate by region poverty rate by sex (at national level only)	Deleted: - 2 -
	-	Deleted: -
Unit of measurement Data source	1-3: % Eurostat – Survey on income and living conditions (SILC) Eurostat – Degree of urbanisation	Deleted: : - Sshare of total populationTotal and in the thinly-populated areas: ¶ 2: - Ssshare - % of total population by region¶ 3: - Sshare of total population by sex
	National data: table People at risk of poverty or social exclusion by age and sex	Deleted: (at national level only)
References / location of the data	[ilc_peps01] National data, by degree of urbanisation: table [ilc_peps13]	
	Regional data: table [ilc_peps11] (regional data are not available for some MS)	Deleted: ¶
Data collection /	EU, National (NUTS 0), Regional (NUTS 1 and 2)	National data, by degree of urbanisation: table [ilc_peps13]
dissemination level	By degree of urbanisation (rural areas, towns and suburbs, cities)	Deleted: b
Frequency	Annual	
Timeliness	2 years	
Comments/caveats	This indicator is also used for the EU reporting on UN Sustainable Development Goals	Deleted: The indicator is available by degree of urbanisation (Eurostat explanation): ¶ Densely populated area (cities): at least 50 % lives in high-density clusters; in addition, each high-density

uruanisation (Eurostat explanation): ¶
Densely populated area (cities): at least 50 % lives in high-density clusters; in addition, each high-density cluster should have at least 75 % of its population in densely-populated local administrative units (LAU2);¶
Intermediate density area (towns and suburbs): less than 50 % of the population lives in rural grid cells and less than 50 % live in high-density clusters;¶
Thinly-populated area (rural area): more than 50 % of the population lives in rural grid cells.

Deleted:

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
INDICATOR C.11	Indicator I.8 Improving farmers' position in the food chain:	Deleted: 28
	Value added for primary producers in the food chain	Deleted: November
Label as proposed by	Indicator I.8 Improving farmers' position in the food chain:	Deleted: 19
the Presidency	Value added for primary producers in the food chain	
Indicator Name	Gross value added by sector, by type of region, in agriculture and for	
	primary producers,	Deleted: (GVA)¶ by sector, by type of region, in agriculture and for primary
	The Total Gross Value Added (GVA) (at basic prices), is defined as the value of output less the value of intermediate consumption. Output is valued at basic prices, GVA is valued at basic prices and intermediate consumption is valued at purchasers' prices. It consists of 5 specific indicators: 1total GVA 2GVA by sector (primary, secondary, tertiary), total and share of total	Deleted: distribution by sector (primary, secondary, tertiary) and by type of region (predominantly rural, intermediate and predominantly urban); and Gross Value Added (GVA) in agriculture and by primary producers (share of the primary production (agriculture) on the total value added generated by different participants of the food chain (primary
Definition	GVA 3. GVA by type of region (predominantly rural, intermediate and predominantly urban), total and share of total GVA	production, food manufacturing, food distribution and food service activities)¶ GVA
	4. "GVA in agriculture	Deleted: .¶
	5. Indicator I.8: GVA of primary producers, total and share of the	Deleted: ¶
	primary production (agriculture) on the total value added generated by different participants of the food chain (primary production, food)	Deleted: -
	manufacturing, food distribution and food service activities),	Deleted: -
	1: EUR million	Deleted: 3 -
	2: EUR million and <u>%</u>	Deleted: -
Unit of measurement	3: EUR million and <u>%</u>	Deleted: -
	4: FUR million	Deleted: by
	5: EUR million and %	Deleted: (
Data source	Eurostat - National and Regional Economic Accounts, Economic accounts for	Deleted: ¶
	agriculture and Structural Business Statistics	Deleted: Total GVA:¶
	National data: table	Deleted: -
	Gross value added and income by A*10 industry breakdowns [nama_10_a10]	Deleted: For each sector: ¶
	National data, by typology: table Gross value added at basic prices by other	Deleted: -
	typologies [<u>urt_10r_3gva</u>]	Deleted: share % of total GVA
	Regional data: table Gross value added at basic prices by NUTS 3 regions	Deleted: For type of region:¶
	[nama_10r_3gva],	Deleted: -
	For agriculture and primary producers (I.8):	Deleted: share % of total GVA
	Gross value added at basic prices	Deleted: For agriculture:¶
	+ subsidies on production -other taxes on production	Deleted: -
D-f / l	(table Economic accounts for agriculture _ [aact_eaa01]) '	Deleted: For primary producers: ¶
References / location of the data	Assilable at http://economics.com/subs/subs/subs/subs/subs/subs/subs/sub	Deleted: -
of the data	Available at: http://ec.europa.eu/eurostat/web/products-datasets/-/aact eaa01	Deleted: share % of total GVA of the food chain
		Deleted: Regional data: table [nama 10r 3gva]¶
	Value added of the food and beverages manufacturing (food manufacturing) Manufacture of food products (C10)	Deleted: ¶
	+ beverages (C11) + tobacco products (C12) (table Annual enterprise statistics for special aggregates of activities (NACE	Deleted: -
	Rev. 2) = [sbs_na_sca_r2])	Deleted: -

 $\begin{tabular}{lll} Available at: $\underline{http://ec.europa.eu/eurostat/web/structural-business-statistics/data/database} \end{tabular}$

Value added of the food and beverages distribution (food distribution)

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
	Agents involved in the sale of food, beverages and tobacco (G4617)	Deleted: 28
	+ Wholesale of food, beverages and tobacco (G463) + Retail sale in non-specialised stores with food, beverages or tobacco	Deleted: November
	predominating (G4711)	Deleted: 19
	+ Retail sale of food, beverages and tobacco in specialised stores (G472) + Retail sale via stalls and markets of food, beverages and tobacco products (G4781) (table Annual detailed enterprise statistics for trade (NACE Rev. 2 G)	Deleted:
	[sbs na dt r2])	Deleted: -
	Available at: http://ec.europa.eu/eurostat/web/structural-business-statistics/data/database	
	Value added of the food and beverages consumer services (food service activities) Food and beverage service activities (table Annual detailed enterprise statistics for services (NACE Rev. 2 H-N and S95) - [sbs_na_1a_se_r2])'	
	Most recent urban-rural typology: https://ec.europa.eu/eurostat/web/rural-development/methodology	
Data collection /	For sectors and type of regions: EU, National (NUTS 0), Regional (NUTS 1, 2 and 3)	
dissemination level	By type of region (predominantly rural, intermediate and predominantly urban)	Deleted: b
	For agriculture and primary producers: EU and National (NUTS 0)	Deleted: n
Frequency	Annual	
Timeliness	1 year (national data, GVA in agriculture) and 3 years (regional data, Structural Business Statistics)	
	Sectors in NACE rev.2:	
	Primary sector = branch A (agriculture, forestry and fishing);	
	Secondary sector = branches B-E + F (industry + construction);	
	Tertiary sector = branches $G-I + J + K + L + M-N + O-Q + R-U$.	
	The distribution of GVA by type of region has been calculated using the Commission's urban-rural typology, which classifies NUTS 3 regions into predominantly rural, intermediate and predominantly urban.	
	For the primary producers:	
Comments/caveats	The whole food manufacturing is covered as well as the food distribution of three products (food, beverages, tobacco). However, the share is still an overestimate, as the value-added of the primary production includes also other products (e.g. textiles and bio-industries outlets, which have been excluded, when possible, in the rest of the food chain added value).	
	Additionally, the food distribution covers all possible channels (both retail and wholesale) as their importance on sales in individual Member States differs.	
	Food and beverages distribution - from 2011, EU is the sum of reported EU	Deleted: -278
	values for respective distribution channels. The discrepancy between the sum of individual MS and EU originates in rounding of the EU aggregate, to make it	Deleted: -278
	impossible to recalculate confidential data. The same applies to the food and	Deleted: -278
	beverage service activities.	

Frequency Timeliness	FSS/IFS: full census every 10 years, intermediate surveys 2 times in-between.	
Data collection / dissemination level	For the labour force size (national and regional): table [ef_lf_size] EU, National (NUTS 0), Regional (NUTS 1 and 2)	¶ Average labour force size: person/holding; AWU/holding
References / location of the data	For number of farms, for the physical size (ha of UAA) and for the economic size of farms (SO) (national and regional): table [ef m farmleg]	Deleted: ¶ Average economic farm size: EUR/farm Deleted: ¶
	Eurostat – Integrated Farm Statistics (IFS)	persons¶ Deleted: Average physical farm size:
Data source	5: number of AWU, number of persons, person/holding, AWU/holding, Eurostat – Farm Structure Survey (FSS)	Deleted: Labour force: number of AWU, number of
	4: ha/farm.	Deleted: -UAA:
	3: EUR/farm	Deleted: -Farms:
Unit of measurement	1: number of farms 2: number of ha	Deleted: ub-
11.7.6		Deleted: sub-indicators
	AWU for each EU Member State. Quantities are presented in absolute figures and serve as a basis for the calculation of the fifth specific indicator.	Deleted: ¶
	The first four <u>specific indicators</u> provide basic information on the total number of farms, ha of UAA, EUR of SO and the total number of persons employed or	Deleted: economic (standard output), labour in persons and AWU Deleted: -
	 Average size of the holdings - physical (UAA), Labour force - in persons and in annual work units (AWU), total and by sex, 	Deleted: <#>Labour force - in persons and in annual work units (AWU), total and by sex¶ -
	3. Economic size of the holdings - in standard output (SO) classes	Deleted: -
	size classes	
	Agricultural size of the holdings - in utilised agricultural area (UAA)	Deleted: -
Definition	This indicator consists of <u>5</u> specific indicators: 1. Number of agricultural holdings	Deleted: -
5 4 111		Deleted: 19
Indicator Name	Agricultural holdings (farms)	Deleted: November
Indicator C.12		Deleted: 28
	<u>1 October</u> 2020,	Deleted: for the PMEF
	Context and Impact indicators	Deleted: Draft list of

Context	and	Impact	indicators

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INDICATOR C.13		Deleted: 28
Indicator Name	Farm labour force	Deleted: Nove
		Deleted: 19
Definition	The indicator shows the labour force directly employed by the agricultural holding and working regularly, and the temporary labour force.	Deleted: u
	The farm labour force of the holding includes all persons having completed their compulsory education (having reached school-leaving age) who carried out farm work on the holding during the 12 months ending on the reference day of	Deleted: in p (AWU).
	the survey. All persons of retirement age who continue to work on the holding are included in the farm labour force.	
	It consists of 2 specific indicators:	
	1total labour force and labour force by sex for the different	Deleted: 1
	categories of farm <u>regular</u> labour force: <u>sole holders working in the farm,</u>	Deleted: T
	members of sole holders' family working on the farm, family labour force	
	(sole holders working in the farm + members of the sole holder's family	
	working in the farm), non-family labour force	Deleted: ¶
	2. "non-regular labour force (only AWU).	Deleted: regi family labour
Unit of measurement	1: number of persons and AWU (in thousands)	members of
_	2: number of AWU (in thousands)	farm)¶ <#>non-f
Data source	Eurostat – Farm Structure Survey (FSS)	
	Eurostat – Integrated Farm Statistics (IFS)	Deleted:
References / location of the data	For national and regional data and labour force by sex and farm work: table [ef If size]	Deleted: or
Data collection / dissemination level	EU, National (NUTS 0), Regional (NUTS 1 and 2)	
Frequency	FSS/IFS: full census every 10 years, intermediate surveys 2 times in-between.	
Timeliness	2 years	
Comments/caveats	Due to the high share of part-time work in agriculture, labour input can be better assessed in terms of AWU than in terms of persons. IFS as of survey year 2020.	

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	Deleted: 28
	Deleted: November
	Deleted: 19
	Deleted: u
	Deleted: u
	Deleted: in persons and in Annual Work Units (AWU).
_	Deleted: 1 -
L	Deleted: T
(Deleted: ¶
1	Deleted: regular labour force:¶ family labour force (sole holders working in the farm + members of the sole holder's family working in the farm)¶ <#>non-family labour force¶
Ш	
	2 - Deleted:

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
INDICATOR C.14		Deleted: 28
Indicator Name	Age structure of farm managers	Deleted: November
		Deleted: 19
Definition	The indicator shows the distribution of the farm managers by age groups. It consists of 3 specific indicators:	Deleted: sub-indicators
	1. ‡otal number of farm managers	Deleted: the
	2. number <u>and share</u> of <u>farm</u> managers <u>by</u> age <u>group</u> ,	Deleted: total
	 ratio between young farm managers (less than 40 years) and farm managers of 55 years or older. 	Deleted: in different
	The manager of the holding is the natural person responsible for the normal daily financial and production routines of running the holding concerned. The holder is the natural person, group of natural persons or legal person on whose	Deleted: scategories and also the percentage of managers who are younger than 40 years and the share on total
	account and in whose name the holding is operated and who is legally and economically responsible for the holding, i.e. who takes the economic risks of	Deleted: The indicator also provides information on
	the holding. The manager and the holder can be the same person.	
Unit of measurement	1: number of farm managers (in thousands)	Deleted: N
	2: number (in thousands) and <u>%</u>	Deleted: share , % of total farm managers
	3: ratio	Deleted: ,
Data source	Eurostat – Farm Structure Survey (FSS)	Deleted: of young farm managers to older farm
	Eurostat – Integrated Farm Statistics (IFS)	managers

National and regional data: table [ef m farmang]

EU, National (NUTS 0), Regional (NUTS 1 and 2)

Age classes in different data collections:

FSS/IFS: full census every 10 years, intermediate surveys 2 times in-between.

FSS until 2000: <25 years, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-

IFS as of survey year 2020: The year of birth of the manager of the agricultural

FSS 2003 until 2013: <25 years, 25-34, 35-44, 45-54, 55-64, 65 and over. FSS 2016: -24 years, 25-34, 35-39, 40-44, 45-54, 55-64, 65 and over

References / location of the data

Data collection /

Frequency

Timeliness

dissemination level

Comments/caveats

2 years

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October</u> 2020	Deleted: for the PMEF
Indicator C.15		Deleted: 28
Indicator Name	Agricultural training of farm managers	Deleted: November
		Deleted: 19
Definition	The indicator provides information on the level of agricultural training: basic training, practical experience only, full agricultural training. It consists of 2 specific indicators: 1. number and share of farm managers by level of agricultural training. 2. number and share of farm managers by age group and by level of agricultural training. The different categories of agricultural training are defined as follows: • Only practical agricultural experience: experience acquired through practical work on an agricultural holding. • Basic agricultural training: any training courses completed at a general agricultural college and/or an institution specialising in certain subjects (including horticulture, viticulture, silviculture, pisciculture, veterinary science, agricultural technology and associated subjects). A completed agricultural apprenticeship is regarded as basic training. • Full agricultural training: any training course continuing for the equivalent of at least two years full time training after the end of compulsory education and completed at an agricultural college, university or other institute of higher education in agriculture, horticulture, viticulture, silviculture, pisciculture, veterinary science, agricultural technology or an associated subject.	Deleted: the share Deleted: who have attained basic and full education levels in agricultureand the share of total; Deleted: .and share of the total Deleted: The indicator also shows the share of young farm managers (below 35 years) in total with the different levels (basic and full) of agricultural training acquired by them.
Unit of measurement	1 and 2: number of farm managers and %	Deleted: N
Data source	Eurostat - Farm Structure Survey	Deleted: share on total
	Eurostat – Integrated Farm Statistics (IFS)	Deleted: at each level of agricultural training¶
References / location of the data Data collection /	National data until 2013: table [ef mptrainman], table [Ef mp training] for 2016 data, Regional data: on special request to Eurostat EU, National (NUTS 0), Regional (NUTS 1 and 2)	and as percentage of total farm managers Deleted: not yet published but available on request to Eurostat
dissemination level		
Frequency	FSS/IFS: full census every 10 years, intermediate surveys 2 times in-between.	
Timeliness	2 years	
Comments/caveats	IFS as of survey year 2020. In the case of Italy, the definition of "training in agriculture" does not correspond to the content described above. It refers rather to the general education level of the farmer. According to the Italian definition: - practical experience means: the farmer has completed no type of education (primary school, secondary education, higher education); - basic training means: the farmer completed at least primary education, but did not complete agricultural higher education; - full training means: the farmer has completed higher or tertiary education at an agricultural college/university/college-level institute/vocational school.	Deleted: ¶

	Context and Impact indicators	Deleted: Draft list of
	<u>1_October</u> 20 <u>20_</u>	Deleted: for the PMEF
INDICATOR C.16	Indicator I.21 Attracting young farmers:	Deleted: 28
	Evolution of number of new farmers	Deleted: November
Label as proposed by	Indicator I.21 Attracting young farmers:	Deleted: 19
the Presidency	Evolution of number of new farm managers	
Indicator Name	New farm managers	
Definition	The indicator shows the evolution of number of new farm managers including new young farm managers.	
	For the definition of new farmer it will be adopted the one proposed by Eurostat.	
Unit of measurement	1: number of new farm managers	Deleted: N
	2: number of new young farm managers	Deleted: N

The Integrated Farm Statistics Regulation (EU) 1091/2018 will provide data for

The year of birth of the manager of the agricultural holding

IFS: full census every 10 years, intermediate surveys 2 times in-between.

First data on new farm managers will be available towards end of year 2022 (for reference year 2020)

• A number of new entrant (including young) farmers in the previous 3

The year in which the manager of the agricultural holding took up this

Eurostat Integrated Farm statistics (IFS)

EU, national (NUTS 0) and regional (NUTS 1 and 2)

the following variables:

role

Data source

of the data

Frequency

Timeliness

References / location

Data collection / dissemination level

Comments/caveats

	Context and Impact indicators, 1 October 2020	_ }	Deleted: Draft list of Deleted: for the PMEF
INDICATOR C.17			Deleted: 28
Indicator Name	Agricultural area	7	Deleted: November
		7	Deleted: 19
The indicator is expressed as the total utilised agricultural area (UAA) in absolute terms (ha) and as the share of UAA in different categories of land use. It consists of two specific indicators: 1. total utilised agricultural area (UAA). 2. total and share of UAA by categories of land cover. According to the definition applied in the Eurostat database, the categories of land use are as follows: • Arable land • Permanent grassland • Permanent crops • others		0	Deleted: expressed as Deleted: in absolute terms (ha) and as Deleted: in different
Unit of measurement	1: number of ha(in thousands)	_{(Deleted: N
1	2: ha (in thousands) and %	1	Deleted:
Data source	Eurostat – Agricultural production – Crop production] [Deleted: ;
References / location of the data	National and regional data:[apro_cpsh1]; [apro_cpshr]		Deleted: share% of total UAA

EU, National (NUTS 0), Regional (NUTS 1 and 2)

Codes for land use: main area (MA), arable land (ARA), permanent grassland (J0000) and permanent crops (PECR). Others: calculation UAA minus (ARA + J0000 + PECR)

Data collection / dissemination level

Comments/caveats

Annual

1 year

Frequency

Timeliness

Context and Impact indicators,
<u>1 October 2020</u>

INDICATOR C.18	
Indicator Name	Irrigable area
Definition	The indicator shows the irrigable area and it consists of 2 specific indicators:
	1total irrigable <u>area,</u>
	2. share, of the Utilised Agricultural Area (UAA).
	Irrigable area is defined as the maximum area which could be irrigated in the reference year using the equipment and the quantity of water normally available on the holding. Crops under glass and kitchen gardens, which are assumed to be generally irrigable and irrigated, are not considered.
	<u>Utilised Agricultural Area</u> consists in the total area taken up by arable land, permanent grassland, permanent crops and <u>others</u> .
Unit of measurement	1: number of ha
	2: %
Data source	Eurostat - Farm Structure Survey (FSS)
	Eurostat – Integrated Farm Statistics (IFS)
	Survey on Agriculture Production Methods (SAPM) 2010.
References / location	National and regional data:
of the data	1:table [ef_poirrig]
	2: table [aei ef ir]
Data collection / dissemination level	National (NUTS 0), Regional (NUTS 1 and 2)
Frequency	FSS/IFS: full census every 10 years, intermediate surveys 2 times in-between.
	Survey on Agricultural Production Methods (SAPM) is a one off survey carried out in 2010.
Timeliness	2 years
Comments/caveats	IFS as of survey year 2020.
	Because of the varying factors affecting water abstraction in agriculture, irrigated areas change from year to year depending on the weather conditions,

expectation on farmers for the need for irrigation.

while irrigable areas are used instead to present irrigation trends, showing the

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Deleted: and is expressed in hectares (ha)
Deleted: and as percentage

Deleted: kitchen gardens
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Context and Impact indicators		Deleted: Draft list of
	<u>1 October 2020,</u>	Deleted: for the PMEF
INDICATOR C.19		Deleted: 28
Indicator Name	Farming in Natura 2000 areas	Deleted: November
Indicator Name	Farming in Natura 2000 areas	Deleted: 19
	The indicator provides information on the area protected under Natura 2000	
	that is used for agriculture and/or forestry.	
	It consists of 5 specific indicators:	Deleted: This indicator
	1. share of territory under Natura 2000 by categories (Special	Deleted: 3
	Protection Areas - SPAs, Sites of Community Importance - SCIs, Natura 2000's network)	Deleted:
	2. share of agricultural area under Natura 2000 (excluding natural	Deleted: •
	grassland)	Deleted: %
	share of agricultural area and natural grassland under Natura 2000	Deleted: ●
	4. share of forest area under Natura 2000 (excluding transitional	Deleted: %
	woodland-shrub)	Deleted: UAA
	5. share of forest area and transitional woodland-shrub under Natura 2000,	Deleted: agricultural area, agricultural area in
	Under Natura 2000, a network of areas is designated to protect sites with rare	Deleted: •
	and threatened species, and some rare natural habitat types of concern at the	Deleted: %
	European Union level.	
Definition	The Natura 2000 network consists of sites:	Deleted: forest area, forest area in
	 designated by Member States as Special Protection Areas (SPA) under the Birds Directive (Council Directive 79/409/EEC of 2 April 1979), 	Deleted: This indicator provides information on area protected under Natura 2000 that is used for agriculture and/or forestry.
	 proposed by Member States as Sites of Community Importance (pSCI) and later designated as Special Areas of Conservation (SAC) under the Habitats Directive (Council Directive 92/43/EEC of 21 May 1992). 	
	For the Special Protection Areas designated under the Birds Directive, the responsibility for designation lies entirely with the Member States. The Commission (DG Environment) has to be informed when new areas are designated or existing areas are modified. The information received on new or revised areas is passed on to the European Environment Agency (EEA), which regularly produces consolidated versions of the SPA database for the whole EU.	
	For the proposed Sites of Community Importance, which will in the future be Special Areas of Conservation under the Habitats Directive, there is a three-stage process that starts with a proposal by Member States. The proposals are transferred to the Commission, which evaluates with the European Topic Centre on Biological Diversity (ETC_BD) whether or not the proposed sites ensure sufficient protection and, on the basis of that evaluation, asks the Member States to propose more sites whenever necessary. The EEA regularly (once a year) compiles all the information received into a single EU database. The lists of sites foreseen in the Habitats Directive are divided into nine bio-	
	geographic regions (Pannonian, Boreal, Continental, Atlantic, Alpine, Macaronesian, Black Sea, Steppic and Mediterranean) within the territory of the Union. The first list for the Macaronesian region was agreed in December 2001. The second list was adopted in December 2003 for the Alpine region, followed in 2004 by the lists for the Continental and Atlantic regions. The list for the Boreal region was adopted in 2005, and the list for the Mediterranean region in 2006. The lists for the Steppic and the Black Sea regions were adopted in 2008.	

Natura 2000 sites include different types of European ecosystems. Some sites are in coastal areas or in open marine waters, some contain lakes or are riverine, and many include forest and farmland. For calculating an improved

The data sets used consist of the Natura 2000 Spatial Dataset and the CORINE Land Cover (CLC) raster dataset. Although CLC categories do not fully correspond to the statistical definitions of agricultural area (UAA) or forests, the overlay of the two data sets allows an accurate geographical estimation of land use data inside Natura 2000 sites.

version of this indicator, geo-referenced information is required.

Context and Impact indicators			
<u>1 October 2020</u>			
To reduce and explain the discrepancies with other surveys and nation inventories, the estimation of the UAA and forest includes separately the Cl classes "Natural grassland" and "Transitional woodland –shrubs".			
	CLC classes used are:		
	- Agricultural area: CLC 2		
	- Agricultural area including natural grassland; CLC 2+ 321		
	Forest area : CLC 3		
	- Forest area including transitional woodland-shrub: CLC3 +324,		
Unit of measurement	1-5: %		
	Natura 2000 Barometer Statistics Report (release version End2016 – 2017-02-02)		
Data source	Natura 2000 data		
	CORINE Land Cover (CLC)		
	Natura 2000 Barometer statistics		
	Natura 2000 Baroffleter Statistics		
	https://www.eea.europa.eu/themes/biodiversity/document-library/natura-		
	2000/natura-2000-network-statistics/natura-2000-barometer- statistics/statistics/barometer-statistics		
	Natura 2000 data - the European network of protected site		
References / location of the data	https://www.eea.europa.eu/data-and-maps/data/natura-8		
	https://www.eea.europa.eu/data-and-maps/figures/natura-2000-birds-and-habitat-directives-8		
	CORINE Land Cover (CLC)		
	https://www.eea.europa.eu/data-and-maps/data/natura2000-clc-by-nuts		
Data collection / dissemination level	EU, National (NUTS 1), Regional (NUTS 2)		
	Natura 2000: every year		
F	CORINE Land Cover: Depending on the frequency foreseen in the new CLC+		
Frequency	(see https://www.copernicus.eu/sites/default/files/2019-		
	01/Copernicus Work Programme 2019.pdf)		
Ti	Natura 2000: 1 year		
Timeliness	CORINE Land Cover: CLC/CLC+: 1.5 years or less.		
Comments/caveats	This indicator has common ground with the one used for the EU		
Comments/Caveats	reporting on UN Sustainable Development Goals.		

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	Deleted: are aggregated
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	Deleted: Total farmland
1	Deleted: (UAA)
/	Deleted: CLC classes
1	Deleted: xx and
/	Deleted:
N	Deleted:
//	Deleted: classes
	Deleted: 1x and
	Deleted: ¶ <#>Please note that the situation regarding Natura 2000 sites is constantly evolving and therefore the data represent only a snapshot of the situation at a reference date. ¶ The figures relating to the area coverage of Natura 2000 sites have been obtained by GIS analysis performed by DG Environment and the EEA.
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	Deleted: 3

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	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
INDICATOR C.20		Deleted: 28
Indicator Name	Areas facing natural and other specific constraints - ANCs	Deleted: November
Definition	The characterisation of agricultural areas designated as areas facing natural or other specific constraints provides useful information on the environment in which the policy is implemented. The indicator measures the share of agricultural area in the three different categories of areas facing natural or other specific constraints (ANCs) (ex-LFAs as they were defined in the period 2007-2013), expressed as a share of the utilised agricultural area (UAA): 1. Mountain areas (incl. areas north of the 62nd parallel) (ex-LFA mountain); 2. Areas, other than mountain areas, facing significant natural constraints (ex-LFA intermediate); 3. Other areas affected by specific constraints (ex-LFA specific). Article 32 of Regulation (EU) No 1305/2013 defines the areas facing natural or other specific constraints, which are eligible for payments to farmers. They are classified according to three categories, each of which describes a specific cluster of natural or other specific constraints affecting agricultural production in the area designations and other requirements for ANCs have changed in comparison to the programming period 2007-2013 and to Regulation (EC) No 1698/2005 and Regulation (EC) No 1257/99, which are repealed. While no revision of the designation of mountain areas or areas affected by specific constraints is foreseen in Regulation (EU) No 1305/2013 (apart from the possibility to apply the combination of biophysical criteria for the designation of areas affected by specific constraints), areas facing natural constraints other than mountain (former LFA intermediate) should be delimited according to eight biophysical criteria, as defined in Annex III of Regulation (EU) No 1305/2013, covering climate, poor soil productivity and steep slopes. Each (sub)criterion has a predefined threshold, e.g. slopes with a gradient of 15% (or more) which identifies the trigger for the area to be considered as severely constrained from the agricultural production point of view. Measurement of constraint(s) takes place at the	Deleted: 19
Unit of measurement	1 - 3: %	Deleted: 2 -
Data source	Eurostat – crop statistics for total UAA	
References / location	ANC areas: DG Agriculture and Rural Development on request.	
of the data	Total UAA: Eurostat, table [apro_cpsh1]	Deleted: apro_cpshr
	National (NUTS 0) Areas facing natural constraints, other than mountain: Data are reported at the	Deleted: , Rregional (NUTS 1) Deleted: .
Data collection / dissemination level	level of LAU2 or another LAU (a number of Member States use different administrative units for the delimitation of these areas). Areas affected by specific constraints: Data collection may be carried out at the level of area designation. In case the designation is carried out according to the "combination of biophysical criteria", as defined in the third paragraph of Article 32(4) of Regulation (EU) No 1305/2013, the data collection level should be	

Context and Impact indicators		Deleted: Draft list of
<u>1_October</u> 2020_		Deleted: for the PMEF
LAU2 or another clearly delineated local unit.		Deleted: 28
Frequency	Data available at present: At the moment data on LFAs are from 2005 (and from 2007 in the case of BG and RO).	Deleted: November Deleted: 19
	Data on ANCs are complete since 2019	Beletter, 19
Timeliness	Whenever MS update their ANC delimitation.	
Comments/caveats _v		Deleted: IFS as of survey year 2020

	Context and Impact indicators	Deleted: Draft list of
	1 October 2020	Deleted: for the PMEF
INDICATOR C.21	Indicator I.20 Enhanced provision of ecosystem services:	Deleted: 28
INDICATOR CIZZ	Share of UAA covered with landscape features	
1.1.1		Deleted: November
Label as proposed by the Presidency	Indicator I.20 Enhancing provision of ecosystem services: Share of Utilised Agricultural Area (UAA) covered with landscape features	Deleted: 19
Change suggested by the Commission to align	Indicator I.20 Enhancing provision of ecosystem services:	
the impact and context	Share of agricultural land covered with landscape features	
indicator labels.		
Indicator Name	Agricultural land covered with landscape features	
	Under definition/assessment	
Definition	This indicator aims to estimate the area covered by landscape features in the agricultural land. Landscape features may include linear elements (e.g. hedgerows) and patches (e.g. trees, woodland, etc.), water & wet spots (ponds, water bodies, streams, etc.); moderately managed areas (e.g. field margins), etc. Landscape features support biodiversity and ecosystem services. Therefore, they provide many benefits to agro-ecosystems and the wider environment, including habitat provision, mitigation of soil erosion, improvement of soil fertility, water flow regulation, water courses protection, climate change mitigation and adaptation. This indicator consists of 2 specific indicators:	
	The share of agricultural land covered with landscape features (I.20),	Deleted: <#>The area of landscape features ¶
	and	Defected: \#> The area of famascape reacures
	2. An elaborated index of landscape elements structure (under	Deleted: ¶
	development).	
Unit of measurement 1:.%		Deleted: -
	2. Still to be defined	Deleted: number of ha (in thousands)
	(Could be complemented with some statistics to reflect on spatial configuration of features),	Deleted: 2: - %
Data source	2 possible sources:	<u> </u>
	Copernicus Land Monitoring Service fed with LPIS/IACS. Copernicus is the European Union's Earth Observation Programme. Land use/cover Area frame statistical Survey (LUCAS-landscape features module).	Deleted: transect
References / location of		Deleted. Hallsett
the data	(https://land.copernicus.eu/pan-european/high-resolution-layers)	
	LUCAS (https://ec.europa.eu/eurostat/statistics-	
	explained/index.php/LUCAS - Land use and land cover survey)	
Data collection / dissemination level	EU, National (NUTS 1), Regional (NUTS 2 and 3), based on detailed maps / samples covering the full EU.	
Frequency	Copernicus: data starting from 2015 are used to assess Small Woody	
• •	Features; updates are currently planned every three years, i.e. for 2018, 2021, 2024, 2027, etc. New products with more landscape features (under assessment) may be ready in 2020.	
	LUCAS: Starting from 2009, updates are in principle planned every 3 years. However, in 2018 the collection of the data relevant for this fiche was not implemented. Next LUCAS landscape features support in planned for 2022.	
Timeliness	implemented. Next LUCAS <u>landscape features</u> survey is <u>planned for 2022</u> . To be defined	Deleted: not yet
Comments/caveats		
Comments/ Caveats	[Indication capacity]	
There is abundant literature on the relationship between landscape feature and biodiversity and ecosystem services. However, these relationships ar		
	complex. The challenge is to find a combination of features that can be used	
	as a proxy and implemented in all EU countries, considering the diversity of	
	landscapes, biogeographic and socio-economic conditions. This indicator would	

Context and Impact indicators,

1 October 2020

provide a valuable proxy, although not a precise measurement of all relevant features and not a strict correlation with specific biodiversity or ecosystem services' features.

[Readily available?]:

The indicator is conceptually under development and therefore not available. It should be made available in 2021, and will be subject to periodic revision.

Detecting landscape features with Copernicus is promising. Small Woody Features are available and ready for use and can be used as a first proxy to mapping landscape features; development of additional landscape features' layers (e.g. water spots, hedges) is planned. The indicator could therefore be built following a stepwise approach, adding more layers as they are available, and updated retrospectively.

[Downscaling]:

Because the Copernicus Small Woody Features product is a detailed spatially explicit wall-to-wall mapping, it can be used at all possible scale levels (from local to national and pan-European). Estimates of various landscape feature types based on LUCAS landscape features survey could potentially bedownscaled to lower level (national, regional) but would require further assessment and processing.

[Quality]:

An issue to test is the capacity of the indicator to detect actual landscape change, including changes triggered by agricultural practices, considering the estimated accuracy and the pace of landscape change at the EU level.

Note: The issue with the label proposed initially by the Commission for the impact indicator is that it refers to the UAA, which is another statistical concept with another source, than the agricultural area used to compute this context indicator.

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Baseline could be set to 2021.

Context and Impact indicators

1	Oct.	ahar	2020

INDICATOR C.22	
Indicator Name	Livestock <u>units</u> ,
Definition	This indicator gives the total number of livestock units (LSU) of the holdings with livestock and by species. LSU coefficients are used instead of the actual number of animals in order to make comparable aggregations of different animal categories. The indicator consists of 2 specific indicators: 1. total number of livestock units
	 2. total number and share of livestock units by species. According to the definition applied in the Eurostat database, the categories of livestock units are as follows: bovine ovine poultry swine
Unit of measurement	1: number of LSU ₂ : number of LSU _a and %
Data source	Eurostat – Farm Structure Survey (FSS)
	Eurostat – Integrated Farm Statistics (IFS)
References / location of the data	For national and regional data: table [ef lsk main]
Data collection / dissemination level	EU, National (NUTS 0), Regional (NUTS 1 and 2)
Frequency	FSS/IFS: full census every 10 years, intermediate surveys 2 times inbetween.
Timeliness	2 years
Comments/caveats	IFS as of survey year 2020.
	For the coefficients used to calculate the LSU in FSS/IFS, see Annex I of Commission Regulation (EC) No 1091/2018: http://data.europa.eu/eli/reg/2018/1091/oj

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Deleted:	

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Context and Impact indicators 1 October 2020

<u> </u>				
INDICATOR C.23				
Indicator Name	Livestock density			
Definition	The livestock density is an indicator for the pressure of livestock farming on the environment.			
	This indicator consists of 2 specific indicators:			
	1. Total livestock density - LSU/ha of utilised agricultural area (UAA): it measures the stock of animals (cattle, sheep, goats, equidae, pigs, poultry and rabbits) converted in livestock units (LSUs) per hectare of utilised agricultural area (UAA).			
	2. Grazing livestock density (grazing LSU/ha of fodder area): it measures the stock of grazing animals (cattle, sheep, goats and equidae) per fodder area (consisting of fodder crops grown on arable land as well as permanent grassland). It is the ratio of the number of livestock units (LSUs) (converted from the number of animals using standard coefficients published by EUROSTAT ³ , per hectare of fodder area.			
Unit of measurement 1 - 2: LSU/ha				
Data source	Eurostat – Farm Structure Survey (FSS)			
	Eurostat – Integrated Farm Statistics (IFS)			
References / location of	For national and regional data: [ef_kvftaaef_kvftaa,ef_kvftaa]			
the data	[ef m farmleg]			
Data collection / dissemination level	EU, National (NUTS 0), Regional (NUTS 1 and 2)			
Frequency	FSS/IFS: full census every 10 years, intermediate surveys 2 times inbetween.			
Timeliness	2 years			
Comments/caveats	IFS as of survey year 2020.			
	LSU (or sometimes as LU) is a reference unit which facilitates the aggregation of livestock from various species and age as per convention, via the use of specific coefficients ⁴ established initially on the basis of the nutritional or feed requirement of each type of animal. Grazing livestock density is not published in the dataset but can be calculated separately.			

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 $^{^3~}See~\underline{https://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Livestock_unit_(LSU)}$

⁴ Ibidem

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
Indicator C.24	Indicator I.3 Reducing farm income variability:	Deleted: 28
	Evolution of agricultural income	Deleted: November
Label as proposed by the	Indicator I.3 Reducing farm income variability:	Deleted: 19
Presidency	Evolution of agricultural income	
Indicator Name	Agricultural factor income	
Definition	Agricultural factor income measures the remuneration of all factors of production (land, capital, labour) regardless of whether they are owned or borrowed/rented and represents all the value generated by a unit engaged in an agricultural production activity.	
	It corresponds to the net value added at factor cost.	
	Value of agricultural production	
	- variable input costs (fertilisers, pesticides, feed, etc.)	
	- depreciation	
	- total taxes (on products and production)	
	+ total subsidies (on products and production)	
	= agricultural factor income (net value added at factor costs)	
	The indicator consists of <u>3 specific indicators</u> :	
	 Agricultural factor income per annual work unit (AWU). It measures the income generated by a farm (as defined above) per annual working unit, where an AWU in agriculture corresponds to the work performed by one person who is occupied on an agricultural holding on a full-time basis. For this indicator, total (paid and unpaid) AWU are used. 	Deleted: 1
	2. The index of agricultural factor income per AWU is already	Deleted: B.
	available in Eurostat's Economic Accounts for Agriculture as specific	
	indicator 1. This index is a measure of relative labour productivity and is particularly suited for showing developments over time	Deleted: I
	3. Indicator I.3: % variation of the Index compared to the last 3-	Deleted: A
	year average.	Deleted: ¶
Unit of measurement	L: EUR (in real terms)/AWU	Deleted: ¶
	2: Index 2010 =100	Deleted: A
Data sassas	3: %	Deleted: B
Data source	1: Eurostat, Economic Accounts for Agriculture and Agricultural Labour Input Statistics	Deleted: I.3 %
	2 - 3: Eurostat, Economic Accounts for Agriculture (EAA)	Deleted: A
References / location of	1. Agricultural factor income:	Deleted: B
the data	Economic accounts for agriculture - values at real prices [aact_eaa04]	
	Production value at basic price	
	Factor income: code 26000	
	2. Agricultural labour input:	
	Agricultural Labour Input Statistics: absolute figures (1 000 annual work units) [aact ali01]	
	3. Index of agricultural factor income/AWU (Indicator A):	
	Franchia accounts for agricultura agricultural income (indicator 1)	

2 EU, National (NUTS 0)

Annual

1 year

Data collection / dissemination level

Frequency

Timeliness

Economic accounts for agriculture - agricultural income (indicator, A)

[aact eaa06]

1. EU, National (NUTS 0), Regional (NUTS 1 and 2) – where data are available

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Context and Impact indicators,

1 October 2020

Comments/caveats

Agricultural factor income is best suited for evaluating the impact of changes in the level of public support (i.e. direct payments) on the capacity of farmers to reimburse capital, pay for wages and rented land as well as to reward their own production factors. In this context one should note that the proportion of own and external production factors varies in some cases significantly between and within Member States and that the remuneration of own and external production factors is often unequal at farm level.

Caution should be exercised when comparing absolute levels of agricultural factor income per AWU as they are influenced by different calculations of AWU depending on national rules and are not specifically designed to be comparable across countries.

Regional data are not available for all Member States.

The EAA provide timely data, however to assess income development and variability by region or farm type, Member States might complement the analysis using FADN data.

This indicator is also used for the EU reporting on UN Sustainable Development Goals.

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	Context and Impact indicators	Deleted: Draft list of
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INDICATOR C.25	Indicator I.2 Reducing income disparities:	Deleted: 28
	Evolution of agricultural income compared to general economy	Deleted: November
Label as proposed by the	Indicator I.2 Reducing income disparities:	Deleted: 19
Presidency	Evolution of agricultural income compared to the general economy	
Indicator Name	Comparison of agricultural income with non-agricultural labour	
	costs,	Deleted: Agricultural entrepreneurial income
Definition	Labour costs (wages and salaries plus non-wage costs such as employers' social contributions) ⁵ in industry, construction and services are compared to 3 specific indicators for agricultural income: 1. Agricultural entrepreneurial income plus compensation of	
	employees per annual work unit	
	This specificindicator is based on data from the economic accounts for agriculture provided by Eurostat for the agricultural sector of the EU as a whole and of individual Member States.	Deleted: ub-
	Agricultural entrepreneurial income ⁶ measures the income derived from agricultural activities that can be used for the remuneration of own production factors, i.e. non-salaried (= family) labour, land belonging to	

- depreciation

- total taxes (on products and production)

+ total subsidies (on products and production)

= agricultural factor income (net value added at factor costs)

- variable input costs (fertilisers, pesticides, feed, etc.)

the agricultural holding and own capital. It is obtained by deducting compensation of employees, rent and net interest from agricultural factor income (see C. 24). For the purpose of this indicator, compensation of $\mbox{employees}^{7}\mbox{ are added back in, so that the resulting indicator represents}$ the compensation of all work (salaried and non-salaried) performed in the agricultural sector, as well as the income remaining with the enterprise.

- compensation of employees

- rents

- net interest

Value of agricultural production

= agricultural entrepreneurial income

+ compensation of employees

= agricultural entrepreneurial income plus compensation of employees

This income indicator is divided by total AWU in order to show the average remuneration of agricultural labour (salaried and non-salaried combined).

2. Farm net income plus wages and social security charges by

⁵ See https://ec.europa.eu/eurostat/statistics-

explained/index.php/Wages and labour costs#Labour cost components

6 See also Annex I Chapter V Agricultural Income Indicators of Regulation (EC) No 138/2004 of the European Parliament and of the Council of 5 December 2003 on the economic accounts for agriculture in the Community.

The compensation of employees is defined as total remuneration, in cash or in kind, payable by an employer to an employee in return for work done by the latter during the accounting period. It includes gross wages and salaries (in cash and kind); employers' social contributions (actual and imputed). (See Regulation (EC) No 138/2004, Part III C).

Context and Impact indicators

1 October 2020

total AWII

This specific indicator is based on farm-level data collected through the EU Farm Accountancy Data Network (FADN).

Farm net income is defined as farm net value added minus wages and social security charges, rent and interest paid; it is therefore equivalent to agricultural entrepreneurial income described above. Again, wages and social security charges are added back into the equation so that the resulting indicator represents the compensation of all work (salaried and non-salaried) performed in the agricultural sector, as well as the income remaining with the enterprise.

As for specific indicator A, the result is expressed per AWU (total labour-input, salaried and non-salaried combined).

3. Farm net income minus opportunity costs for own production factors (land and capital) by total family work units

For the subset of farms with family labour, this specific indicator looks specifically at the opportunity costs of own production factors (land and capital) and deducts them from farm net income, based on farm-level data collected through FADN (same as for specific indicator B).

 Opportunity costs for land are calculated as total area of owned land multiplied by the average rent paid on rented land:

(SE025-SE030) * SE375/SE030

Where SE025 = total utilised agricultural area;

SE030 = rented utilised agricultural area;

SE375 = rent paid.

 Opportunity costs for capital are calculated as total net assets (excluding land, permanent crops and quotas) multiplied by the average interest paid on loans in the country:

(SE436 - SE485 - SE446) * (SE380/SE485)

Where SE436 = total assets closing valuation;

SE485 = total liabilities;

SE446 = land, permanent crops, quotas;

SE380 = interest paid.

The result is expressed per family work unit (unpaid labour unit).

Labour costs in industry, construction and services are available in the Eurostat database [<u>Ic Ici lev</u>]. Since they are expressed per hour, they are converted into AWU by using the conversion factors provided in the 2015 inventories for Agricultural Labour Input (ALI) statistics⁸.

Number of hours used for one AWU in agriculture:

BG: 1856; CZ: 1800; DK: 1665; DE: 1800; EE: 1800; IE: 1800; EL: 2200; ES: 1824; HR: 1800; IT: 1951 (self-employed); CY: 2080; LV: 1840; LT: 2016; LU: 2200; HU: 1800; AT: 2000 (non-salaried); PL: 2120; PT: 1920;

RO: 1800; SI: 1800; SK: 1800; FI: 1800; SE: 1800; UK: 2200 BE, FR, MT, NL: no figures provided. 1800 hours/AWU will be used.

⁸ See https://ec.europa.eu/eurostat/web/agriculture/methodology.

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	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
	The main components of the various specific indicators are:	Deleted: 28
	From the economic accounts for agriculture (Eurostat):	Deleted: November
	Agricultural entrepreneurial income;	Deleted: 19
	Compensation of employees.	Deleted: sub-indicators
	From agricultural labour input statistics (Eurostat):	
	AWU in agriculture, which corresponds to the work performed by one person who is occupied on an agricultural holding on a full-time basis. A distinction is made between salaried and non-salaried AWU, which together make total AWU.	
	From the national inventories for agricultural labour statistics (Eurostat):	
	Number of hours considered to define one AWU.	
	From FADN (DG AGRI):	
	Farm net income;	
	Wages and social security charges;	
	Total labour input ⁹ ;	
	Unpaid labour input;	
	Opportunity costs for land (see calculation method above);	
	Opportunity costs for capital (see calculation method above).	
	From labour cost statistics (Eurostat):	
	Labour costs in industry, construction and services, defined as core expenditure borne by employers for the purpose of employing staff. They include employee compensation, with wages and salaries in cash and in kind, employers' social security contributions and employment taxes regarded as labour costs minus any subsidies received, but not vocational training costs or other expenditure such as recruitment costs and spending on working clothes (by contrast with multiannual and annual labour cost data).	
Unit of measurement	All three <u>specific indicators</u> are expressed in EUR/AWU.	Deleted: sub-indicators
	The comparison with non-agricultural labour costs is expressed as a percentage.	
Data source	Eurostat – Economic Accounts for Agriculture (agricultural entrepreneurial income; compensation of employees);	
	Eurostat – Agricultural Labour Input Statistics (AWU in agriculture; hours per AWU)	
	Eurostat – Labour Cost Statistics (labour costs in industry, construction and services)	
	DG AGRI - FADN (Farm Net Income; wages and social security charges; opportunity costs for land and capital; total labour input; unpaid labour input)	

1.1. Agricultural entrepreneurial income plus compensation of

Economic accounts for agriculture - values at current prices [aact_eaa01]

1. EUROSTAT DATABASE¹⁰:

employees:

References / location of

the data

l

Deleted: ub-

⁹ For specific indicator b, AWU data from FADN will be used to ensure internal consistency of the calculations. The FADN sample is different from the total agricultural sector as described in the economic accounts, since small farms are excluded.

10 https://ec.europa.eu/eurostat/data/database

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
	Production value at basic price	Deleted: 28
	Entrepreneurial income: code 31000	Deleted: November
	Compensation of employees: code 23000	Deleted: 19
	Since non-agricultural labour costs are only available at current prices, agricultural income indicators will also be used at current prices only.	Delettal 13
	1.2. Agricultural labour input:	
	Agricultural Labour Input Statistics: absolute figures (1 000 annual work units) [aact_ali01]	
	Total labour force input	
	1.3. Labour costs:	
	Labour cost levels by NACE Rev. 2 activity [lc lci lev]:	
	 Labour cost for LCI (compensation of employees plus taxes minus subsidies): Industry, construction and services (except public administration, defence, compulsory social security) 	
	2. FADN DATABASE ¹¹ :	
	Farm net income: SE420	
	Wages and social security charges: SE370	
Total labour input: SE010		
Unpaid labour input: SE015		
Total utilised agricultural area: SE025		
Rented utilised agricultural area: SE030;		
	Rent paid: SE375	
	Total assets closing valuation: SE436	
	Total liabilities: SE485	
	Land, permanent crops, quotas: SE446;	
	Interest paid: SE380.	
Data collection / dissemination level	National	
Frequency	Frequency Annual	
Timeliness 1 year		
Comments/caveats	Figures should be interpreted with care owing to conceptual differences	
	between the measurement of farmers' income from agricultural activities and average wages in the economy, and to the lack of reliable data on full-	
time equivalent labour statistics for the total economy for some Member States.		
	Caution should also be exercised when comparing absolute levels of	
	agricultural entrepreneurial income per AWU since they are not specifically designed to be comparable across countries and are influenced by different calculations depending on national rules.	
	calcalations depending on national rates.	

¹¹ http://ec.europa.eu/agriculture/rica/database/index_en.cfm

Context and Impact indicators,

1 October 2020

INDICATOR C.26	Indicator I.4 Supporting viable farm income: Evolution of agricultural income level by sectors (compared to the average in agriculture) Indicator I.5 Contributing to territorial balance: Evolution of agricultural income in areas with natural constraints (compared to the average)	
Label as proposed by the Presidency	Indicator I.4 Supporting viable farm income: Evolution of agricultural income level by type of farming (compared to the average in agriculture) Indicator I.5 Contributing to territorial balance: Evolution of agricultural income in areas with natural constraints (compared to the average)	
Indicator Name	Farm income by type of farming, region, by farm size, in areas facing natural and other specific constraints,	
Definition	Farm net value added (FNVA) is the portion of agricultural output value	

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Deleted: net value added

Definition

that can be used to remunerate the fixed factors of production (labour, land and capital), whether they are external or family-owned factors. As a result, agricultural holdings can be compared regardless of the family/nonfamily nature of the factors of production used.

It is calculated as follows:

Value of agricultural production

- + Pillar I and Pillar II payments
- + any national subsidies
- + VAT balance
- intermediate consumption
- farm taxes (income taxes are not included)
- depreciation.
- = Farm Net Value Added

The value is calculated per annual work unit (AWU) in order to take into account the differences in the scale of farms and to obtain a better measure of the productivity of the agricultural workforce.

The indicator consists of 5 specific indicators:

- 1. Farm net value added by type of farming
- 2. Farm net value added by region
- 3. Farm net value added by economic farm size
- 4. Farm net value added by physical farm size
- 5. Farm net value added in areas facing natural and other specific constraints

For the grouping according to type of farming and economic size, the general types of farming (TF8) and economic size class (ES6) definitions, as implemented in the Farm Accountancy Data Network (FADN), will be used (see http://ec.europa.eu/agriculture/rica/diffusion_en.cfm#sg).

Indicator I.4 Supporting viable farm incor

Indicator I.5 Contributing to territorial balance: Evolution

	TF8	ES6 grouping
1	Fieldcrops	2 000 - < 8 000 EUR
2	Horticulture	8 000 - < 25 000 EUR
3	Wine	25 000 - < 50 000 EUR

Deleted: : Ratio between the income of each type of farming and the average farm income

Deleted: : Ratio between the income in areas facing natural and other specific constraints and the average farm income

Context	and	Im	pact	indicators

	V	
	<u> 1 October 202</u>	20,
	4 Other permanent cro	ops 50 000 - < 100 000 EUR
	5 Milk	100 000 - < 500 000 EUR
	6 Other grazing livesto	ock >= 500 000 EUR
	7 Granivores	
	8 Mixed	
Unit of measurement	1-5: Euro per AWU	
Data source	FADN sample survey o	f farms
References / location of the data	SE425 in the FADN public	c database
Data collection / dissemination level	National and by FADN division (similar to NUTS 2)	
Frequency	<u>Annually</u>	
Timeliness	2-3 years	
Comments/caveats		

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	Context and Impact indicators	Deleted: Draft list of
	<u>1 October</u> 2020,	Deleted: for the PMEF
INDICATOR C.27		Deleted: 28
Indicator Name	Gross fixed capital formation in agriculture	Deleted: November
Definition	The indicator measures producers' investments, deducting disposals, in fixed assets during a given period plus certain additions to the value of non-produced assets realised by the productive activity of producer or institutional units (ESA 2010 definition). Therefore, Gross fixed capital formation in agriculture (GFCF) is a key element for future competitiveness.	
	It consists of 2 specific indicators:	Deleted: is measured
	1. Gross Fixed Capital Formation (GFCF),	Deleted: in absolute terms
	2. <u>share</u> of Gross Value Added (GVA) in agriculture.	Deleted: and
Unit of measurement	1: EUR million (in current prices),	Deleted: as a
	2: <u>%</u>	Deleted: percentage
Data source	Eurostat – Economic Accounts for Agriculture (EAA), National Accounts	Deleted: ;
References / location of the data	National data: table [aact eaa01] (aact eaa05 and aact eaa07 were used to calculate GFCF at constant prices) Regional data: table [nama 10 3gva] (GVA in agriculture, forestry and fishing) and table [nama 10 2gfcf]	Deleted: share% of GVA in agriculture.
Data collection / dissemination level	EU, National (NUTS 0), Regional (NUTS 1 and 2)	
Frequency	Annual	
Timeliness	1 year]

GFCF variables for table [aact eaa01]: Production value at basic price; 34000 Gross fixed capital formation (excluding deductible VAT); variables for table

GVA variables for table [aact eaa01]: Gross value added at basic prices;

variable for table [nama 10r 3gva]: Agriculture, forestry and fishing. There are differences between national and regional data since the former is based on the Economic accounts for agriculture and the latter is related to the National Accounts (ESA 2010).

[nama 10r 2gfcf]: Agriculture, forestry and fishing.

Comments

/caveats

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
Indicator C.28	Indicator I.6 Increasing farm productivity:	Deleted: 28
	Total factor productivity in agriculture	Deleted: November
<u>Label as proposed by the</u>	Indicator I.6 Increasing farm productivity:	Deleted: 19
Presidency	Total factor productivity in agriculture	
Indicator Name	Total factor productivity in agriculture	
Definition	Total factor productivity (TFP) compares total outputs relative to the total inputs used in production of the output. As both output an inputs are expressed in term of volume indices, the indicate measures TFP growth. The change in production and input volumes measured over a defined period (2005=100). To aggregate the differer output (and input) volume indices, the production (and input) values are use as weights. This allows capturing the relative importance between outputs, cinputs. TFP reflects output per unit of some combined set of inputs: a increase in TFP reflects a gain in output quantity, which is no originating in from an increase of input use.	d ir is is it d or
	As a result, TFP reveals the joint effects of many factors including ne technologies, efficiency gains, economies of scale, managerial skill, an changes in the organisation of production.	
	TFP index is defined as the ratio between an Output Index (i.e. the change is production volumes over a considered period) and an Input Index (the corresponding change in inputs/factors used to produce them).	
	Output and input indices are calculated as weighted averages of changes in produced quantities and in input quantities respectively, where the weight are represented by the production value of the various products and the expenditure for each of the four considered production factors (intermediate inputs, land, labour, capital).	e e
	Depending on the type of average applied and the chosen reference period for the weights, the TFP indicator assumes different analytical forms. Laspeyre indices are defined as arithmetic means with weighting factors referring to the time 0 (base year), while Paasche indices are harmonic means with weightin factors referring to the time t (current year).	es e
	$TFP_0^t _L = \frac{O_0^t _L}{I_0^t _L} = \frac{O_0^t _L}{I_0^t _L} = \frac{\left(\frac{q_{1r}}{q_{10}} * w_{10} + \frac{q_{2t}}{q_{20}} * w_{20} + \ldots + \frac{q_{nt}}{q_{n0}} * w_{n0}\right) / \left(w_{10} + w_{20} + \ldots + w_{n0}\right)}{\left(\frac{\dot{i}_{1t}}{\dot{i}_{10}} * x_{10} + \frac{\dot{i}_{2t}}{\dot{i}_{20}} * x_{20} + \ldots + \frac{\dot{i}_{rt}}{\dot{i}_{r0}} * x_{r0}\right) / \left(x_{10} + x_{20} + \ldots + x_{r0}\right)}$ while TFP Paasche index is defined as:	=
	$TFP_0^t P = \frac{O_0^t P}{I_0^t P} =$	

	Context and Impact indicators,	Deleted: Draft list of
	<u>1 October</u> 2020	Deleted: for the PMEF
	((a a a))	Deleted: 28
	$\left \left \frac{q_{10}}{q_{10}} * w_{1t} + \frac{q_{20}}{q_{10}} * w_{2t} + \ldots + \frac{q_{n0}}{q_{10}} * w_{nt} \right / (w_{1t} + w_{2t} + \ldots + w_{nt}) \right $	Deleted: November
	$(q_{1t} q_{2t} q_{nt})$	Deleted: 19
	$\frac{\left(\left(\frac{q_{10}}{q_{1t}} * w_{1t} + \frac{q_{20}}{q_{2t}} * w_{2t} + \ldots + \frac{q_{n0}}{q_{nt}} * w_{nt}\right) / (w_{1t} + w_{2t} + \ldots + w_{nt})\right)^{-1}}{\left(\left(\frac{i_{10}}{i_{1t}} * x_{1t} + \frac{i_{20}}{i_{2t}} * x_{2t} + \ldots + \frac{i_{r0}}{i_{rt}} * x_{rt}\right) / (x_{1t} + x_{2t} + \ldots + x_{rt})\right)^{-1}}$	
	where q_{jt} and i_{kt} are respectively the quantity of product j and factor k at	
	time t, while $^{W_{jt}}$ and $^{\chi_{kt}}$ are the weights of product j and factor k within the agricultural sector.	
	Finally, the geometrical average of the Laspeyres and the Paasche index gives the Fischer index, which benefits from the most suitable statistical properties. In formula, the TFP Fisher index is computed as follows:	
	$TFP_F = \sqrt{TFP_L*TFP_P}$	
Unit of measurement	Index (3-year moving average)	
Data source	The Economic Accounts for Agriculture (EAA) from Eurostat.	
	The volume indices calculated by Eurostat are Laspeyres indices and changes in volume are measured using the weightings for the preceding year to guarantee the weightings are relatively up-to-date (see Reg. N° 138/2004). They correspond to the term $q_{\rm IV}/q_{\rm IO}$ of the equations displayed above.	
	Precise indicators chosen in the EAA: - Change in output volume (q _I /q _I 0): Volume Indices, n-1 = 100, Production value at producer price [aact_eaa05] - Output weights: Real price in Euro, 2010 = 100, Production value at producer price [aact_eaa04] - Change in input volume (ii _I /ii _I 0) for every input except land and labour cost: Volume Indices, n-1 = 100, Production value at basic price [aact_eaa05] - Input weights: Real price in Euro, 2010 = 100, Production value at basic price [aact_eaa04] - Volume index for labour costs: Change in Total labour input measured in	
	1000 AWU [aact ali01] - Correction of the weight for labour costs to cover the family labour costs: the compensation of employees is divided by the share of paid labour also directly available from the EAA [aact ali01] Complementary data is required from:	
	- the Farm Structure Survey (FSS - Eurostat) to assess the share of rented land (in order to correct the weight of land by including the own land) [ef_mptenure] - the Agricultural Production Data - Crop Products (Eurostat) for the	
	volume index of the UAA [apro_cpnh] - the Farm Accountancy Data Network to estimate the national average depreciation rate.	
	- Annual Crop statistics: Volume index for land costs: Change in Total UAA, UAA available in Eurostat – crop statistics [apro_cpnh]	
References / location of the data	Eurostat: EAA, APRO, ALI, FSS; FADN	
Data collection / dissemination level	EU, National (NUTS 0)	
Frequency	Annual	
Timeliness	1 year	
	I and the second	_

	Context and Impact indicators	Deleted: Draft list of
	<u>1_October</u> 2020_	Deleted: for the PMEF
Comments/caveats	The climatic conditions affecting crop yields have strong impact on the crop	
	output and as a consequence on the indicator. Therefore a moving average over 3 years is to be calculated to smooth the weather effect.	Deleted: November
	The level of detailed information required to compile the indices (especially for	Deleted: 19
	the Paasche Index) does not allow for calculating long time series and complicates the calculation for the EU aggregates.	
	The length of the time series varies according to MS.	

There are breaks in time series and data is missing for some years, especially in the Agricultural Production Data. The methodology to value the fixed capital consumption seems to vary over time. Concerning the labour input any change in accounting rules has been normally smoothed. Nevertheless, this volume index is to be checked very carefully because the TFP indicator is very sensitive to any variation in labour input.

The calculation of regional values is not possible due to the lack of data at such detailed geographical level.

	Context and Impact indicators	Deleted: Draft list of
	1 October 2020	Deleted: for the PMEF
INDICATOR C.29		Deleted: 28
Indicator Name	Labour productivity in agriculture, in forestry and in the food	Deleted: November
	industry	Deleted: 19
Definition	This indicator consists of 3 specific indicators:	
	Labour productivity in agriculture	Deleted: A -
	2. Labour productivity in forestry	Deleted: B -
	Labour productivity in the food industry	Deleted: C -
	For each specific indicator, labour productivity is calculated as Gross Value	Deleted: ub-
	Added (GVA) per unit of labour input	Deleted:
	GVA is recorded at basic prices. It is output valued at basic prices less intermediate consumption valued at purchasers' prices.	
	The basic price is defined as the price received by the producer, after deduction of all taxes on products but including all subsidies on products.	
	GVA is measured in chain linked volumes (2015), million euro.	
	Labour input includes both employees and self-employed to provide total employment in the respective sector. It is measured in thousand persons.	
	A three-year average mitigates short-term fluctuations. Labour productivity is then calculated as the ratio of the averages: (three year average GVA) / (three year average labour input).	
	1 - The agricultural sector corresponds to division A01 in NACE rev.2 (crop-	Deleted: A
	and animal production, hunting and related service activities).	Deleted. A
	24 - The forestry sector corresponds to division A02 in NACE rev. 2 (Forestry and logging).	Deleted: B
	3, – The food industry corresponds to division C10-C12 in NACE rev.2 (manufacture of food products; beverages and tobacco products)	Deleted: C
Unit of measurement	1 = 3: EUR million/number of persons (in thousand)	Deleted: - 2
Data source	Eurostat	Deleted: Mmillion
References / location of	For GVA:	Deleted: thousand
the data	National Accounts: table [nama 10 a64]	
	For labour input:	
	National Accounts, table [<u>nama 10 a64 e</u>]	
Data collection / dissemination level	EU, National (NUTS 0)	
Frequency	Annual	

National data: 1-2 years EU aggregates: 3-4 years

Timeliness

Comments/caveats

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020,</u>	Deleted: for the PMEF
INDICATOR C.30	Indicator I.7 Harness Agri-food trade:	Deleted: 28
	Agri-food trade imports and exports	Deleted: November
Label as proposed by the	Indicator I.7 Harnessing Agri-food trade:	Deleted: 19
<u>Presidency</u>	Agri-food trade imports and exports	
Indicator Name	Agricultural imports and exports	
	This indicator consists, of 4 specific indicators:	Deleted: C.30 is made
Definition	1. Indicator I.7 Total agri-food trade value (imports + exports) 2. Agri-food trade balance (total and separate for agricultural food and feed products, food preparations and beverages, non-edible) 3. Agri-food exports (total and separate for agricultural food and feed products, food preparations and beverages, non-edible) 4. Agri-food imports (total and separate for agricultural food and feed products, food preparations and beverages, non-edible) The indicator is calculated by Directorate-General for Agriculture and Rural Development (DG AGRI) yearly on the basis of EUROSTAT Comext data, using the definition of agricultural products developed internally by DG AGRI unit A.1 and used in DG AGRI publications on agri-food trade (cf. https://ec.europa.eu/agriculture/trade-analysis/statistics_en).	
Unit of measurement	1 – 4: EUR billion	Deleted: Billion
Data source	Data: EUROSTAT COMEXT database Information on product coverage/categories: https://ec.europa.eu/agriculture/trade-analysis/statistics_en	
References / location of	COMEXT database – declarant: EU, partner: extra-EU, trade flow: export	Deleted: -28
the data	and import; Combined Nomenclature codes as defined in DG AGRI	Deleted: 28
	agricultural trade statistics publications; trade regime: 4	
Data collection / dissemination level	EU, National (NUTS 0),	Deleted: Availability at MS level¶ Indicator at EU level
_	Data availability: monthly	
Frequency	Indicator calculation: yearly	

Year N is available in March N+1

Timeliness

Comments/caveats

	1 October 2020	Deleted: for the PMEF
INDICATOR C.31	2000001 2020	Deleted: 28
Indicator Name	Tourism infrastructure	Deleted: November
Definition	Tourism infrastructure in rural areas is measured through 2 specific	Deleted: 19
Definition	indicators:	Deleted: as
	1. "number of bed places in tourist accommodations,	Deleted: the
	2. share of total bed places by degree of urbanisation,	Deleted: in absolute values
	From 2012, data are collected at NUTS 2 level, according to Regulation	Deleted: the and as
	(EU) No 692/2011 concerning European statistics on tourism and repealing	Deleted: ¶
	Council Directive 95/57/EC.	Deletear
	Under this regulation, data are collected according to the following degrees of urbanisation:	
	Densely-populated area (cities/large urban area)	
	Intermediate urbanised area (towns and suburbs/small urban area)	
	3. Thinly populated area (rural area)	
	According to the definitions of urban areas used in Europe (in line with the United Nations Population Division (UNPD)), urban areas correspond to densely populated and intermediate density areas while rural areas equal thinly populated areas.	
Unit of measurement	1: number of bed places.	Deleted: Ttotal
	2: %	Deleted: (in thousands) places by degree of
Data source	Eurostat – Tourism statistics	urbanisation
	According to Regulation (EU) 692/2011 of the European Parliament and of	Deleted:
	the Council, the data is available from 2012 onwards.	Deleted: shareand % of national total
References / location of	For national data: table [tour_cap_natd]	
the data	For regional data: table [tour_cap_nuts2d]	
Data collection /	EU, National (NUTS 0), Regional (NUTS 1 and 2)	

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share in total).

administrations and on smaller SMEs).

Annual and monthly. Annual for regional data

missing, the sum of available data is provided.

Collective tourist accommodation establishments include hotels, holiday and other short-stay accommodation, camping grounds, recreational

When the number of bed places in one category of establishment is

The number of bed places in an establishment or dwelling is determined by the number of persons who can stay overnight in the beds set up in the establishment (dwelling), ignoring any extra beds that may be set up by customer request. The term bed place applies to a single bed, double bed being counted as two bed places. The unit serves to measure the capacity of any type of accommodation. A bed place is also a place on a pitch or in a boat on a mooring to accommodate one person. One camping pitch should equal four bed places if the actual number of bed places is not known.

Countries can apply a data collection threshold (to reduce burden on

In practice, most countries exclude establishments offering less than 10

The structure of accommodation (in terms of size/capacity) of the establishments can be different in cities and in countryside, with the first having more relatively big chain hotels and the latter having more small family businesses. It should be pointed out that this could affect the indicator (= underestimating the absolute infrastructure as well as its

(some countries: 20) bed-places from the scope of observation.

vehicle parks and trailer parks (NACE r.2 divisions I551-I553).

dissemination level

Comments/caveats

Frequency

Timeliness

Context and Impact indicators

Context and Impact indicators	
1 October 2020	

INDICATOR C.32		Deleted: November
Indicator Name	Agricultural area under organic farming	Deleted: 19
Label of the impact	I.17a: Promoting sustainable farming systems: Share of agricultural	
indicator the Commission	area under organic farming	
would encourage the Presidency to add to Annex		
<u>I</u>		
Definition	The indicator has 2 specific indicators:	Deleted: shows
	1. number of hectares under organic farming	Deleted: the
	2. share of area under organic farming in the total utilised	Deleted: and th
	agricultural area (UAA)	
	The area under organic farming is classified as follows:	
	fully converted to organic farming	
	under conversion to organic farming	
	total fully converted and under conversion to organic farming	
	Farming is considered to be organic if it complies with the relevant EU	
	legislation (https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32007R0834&from=EN).	
	contend the transfer of the second of the se	
	The area defined refers to the UAA excluding kitchen garden from	
	Eurostat's statistical table "Organic crop area by agricultural production	
	methods and crops" [org cropar].	
	It might not be strictly comparable with the definition of UAA (only area	
	of main crops) in the crop production statistics.	
	Data on the area under organic farming at regional level come from the	
	FSS/IFS.	
Unit of measurement	1: number of ha	Deleted: H
	2: %	Deleted:
Data source	Eurostat – Organic farming annual data collection	Deleted: ¶
	Eurostat – Farm Structure Survey (FSS)/Integrated Farm Statistics (IFS)	Deleted: and share
	Eurostat – Crop production <u>statistics</u>	
References / location of the	For national data:	
data	1: Area under organic farming table [org cropar] from 2012 onwards	Deleted: :
	2: Percentage of total utilised agricultural area - table [sdg_02_40]	Deleted:
	For regional data: table [ef_mporganic] is the old dataset still containing	Deleted:
	data from 2003-2013. Table [Ef_lus_main] contains new data from 2013	
	onwards (up to now 2013 and 2016)	
	Data from FSS is available on request to Eurostat.	
Data collection / dissemination level	EU, National (NUTS 0), Regional (NUTS 2)	
Frequency	Annual for the area under organic farming.	
	FSS/IFS: full census every 10 years, intermediate surveys 2 times inbetween.	
Timeliness	1 year	
	FSS/IFS: 2 years	
Comments/caveats	There are differences between national and regional data because the	-
comments/ caveats	There are differences between hadolial and regional data because the	

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Context and Impact indicators,

1 October 2020

former is collected annually mainly based on administrative data, and the latter is based on the Farm structure survey (FSS). It means that the samples and data collection methods are different.

Variables for table [ef_mporganic]: AGRAREA_HA (ha: Utilised agricultural area), A_3_2_1_HA (ha: Organic farming – certified), A_3_2_2_HA (ha: Farming system - Conversion to organic farming), A_3_2_3_HA (ha: Organic farming (incl. in conversion)).__Table [ef_mporganic] containing data from 2003-2013 but the dataset will not be updated with new data.

Variables for table [Ef lus main]: UAA (Utilised agricultural area), FCONV UCONV (Fully converted and under conversion to organic farming).

This indicator is also used for the EU reporting on UN Sustainable Development Goals.

Note: In view of the Green Deal target on organic farming, the Commission would encourage the Presidency to add this context indicator to the list of impact indicators in Annex I of the SPR this context indicator.

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Context and	impact	indicators

<u> 1 October 2020</u>

INDICATOR C.33		Deleted: 28
Indicator Name	Farming intensity	Deleted: No
	Farming intensity is expressed as the percentage of utilised agricultural area (UAA) that is farmed with low, medium or high	Deleted: 19
	input intensity. The input intensity of a farm can be defined as the level- of inputs used by the farm per unit of production factor (in general land). Intensification is defined as the increase in farm intensity, while	Deleted: ¶
	extensification describes the opposite trend. Farms are classified into intensity categories according to an estimate of	Deleted: ¶
	input volume per hectare of UAA. The inputs considered are fertilisers, pesticides, other crop protection products and purchased feed. This approach allows covering both crop and livestock productions.	
	The volume of inputs used (per hectare) is estimated by dividing input expenditures (per hectare) by the input price index for the year and country in question. This results in input expenditures per hectare in constant national input prices. Fertiliser expenditure (purchased fertilisers and soil improvers) is divided by the fertiliser price index in the country of the same year in order to estimate the volume used. Similarly, crop protection expenditure (plant protection products, traps and baits, bird scares, anti-hail shells, frost protection) is divided by the pesticide price index in the country of the same year. Purchased feed cost is also divided by the feed price index in the country of the same year. The result is thus expressed in constant inputs prices (Euro per ha). The method allows not only to deduct inflation, but also the fluctuation of input prices. Thus, it estimates the trend in the volume of inputs used per hectare. However, it does not capture differences in input prices between countries and the	
	differences in prices within each category of inputs (for example between a pesticide A and a pesticide B). Therefore, it does not give the exact volume of inputs used for a specific country and year.	Deleted: ¶
Definition	In a second step, the distribution of the UAA is considered by the ranked	Deleteur
Zeillieleil	input intensity (bivariate approach) in each geographical level (EU, MS, NUTS) for the specific year of reference (2010 for all MSs, 2013 for HR).	
	Three classes of intensity (low, medium, high) are then defined, by deriving the associated level of input corresponding to the 33 rd (q33) and	Deleted: _2
	the 66 th (q66) UAA quantiles.	Deleted: In according t
	A farm is classified under the class "low intensity" if its input level is	thresholds
	below or equal to the intensity value associated to the Q33 of UAA. A farm is classified under the class "high intensity" if its input level is	the EU is ed the first yea
	greater than the intensity value associated to the Q66 of UAA.	is higher th
	A farm is classified under the class "medium intensity" if its input level is	separating farm is qua
	greater than the intensity value associated to the Q33 of UAA and it is below the intensity value associated to the Q66 of UAA.	below 155 d
	below the intensity value associated to the Qoo of OAA.	separating to
	Considering the 2017 FADN data, for EU-28, as well as for EU-27, without	considered
	the UK, those thresholds are represented by 88 euros/ha for low intensity	not pretend and intensi
	farms, by 560 euros/ha for high intensity farms, and by between 88 and 560 euros/ha for medium intensity farms.	way to stud
	200 caros/na for mediam meerisicy farms:	Deleted:
	These levels should not be considered as strict cut-off values, but rather	Deleted: To
	as reference in time, in order, to be able to study the evolution of farm	indicator, a can also be
	intensification through the years.	very low int
	Intensification in a country with very low intensity does not mean the	environmer
	same for the environment than intensification in a country with high intensity.	intensity. To input expen
	The indicator is expressed as the share of total UAA by farming intensity,	prices". It is however, it
	broken down by MS, and in addition by Type of Farming and by Economic	until now fr
Unit of measurement	Size. _▼	Deleted: sh and in addit
Data source	- The main data source is DG AGRI - Farm Accountancy Data Network (FADN).	Deleted: (The country or it

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Deleted: In a second step, each farm is classified according to its average level of input use per ha. The thresholds have been set in such a way that the UAA in the EU is equally divided into the three categories for the first year of the analysis (2004 for the EU-25). If it s higher than 350 constant EUR per ha (the threshold separating the highest from the middle category), the arm is qualified as having high intensity. When it is pelow 155 constant EUR per ha (the threshold separating the middle from the lowest category), it is classified as having low intensity. Otherwise, it is considered to have medium intensity. These levels do not pretend to represent any real borders of extensive and intensive farming. They are just set in a pragmatic way to study the developments in farming intensity.¶

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Deleted: To properly interpret the results of this ndicator, an "average level of intensity" in the country can also be calculated. Intensification in a country with very low intensity does not mean the same for the environment than intensification in a country with high ntensity. That is the purpose of the variable, "average nput expenditures per hectare in constant input prices". It is not the ideal measurement of intensity; nowever, it is the best estimate that we can obtain until now from the available data.

Deleted: share% of total UAA, broken down by MS, and in addition by TF and by ES.

Deleted: (The variable "average level of intensity" per country or region is expressed in "Euro per ha in constant input prices").

Context and Impact indicators		
<u>1 October</u> 2020		
	- Eurostat - Economic accounts for agriculture - indices: volume, pricivalues,	
	- DG AGRI - Farm Accountancy Data Network (FADN). Name of current variables defined in the FADN: SE295 Fertilisers; SE300 Crop protection F64 to F67 Purchased feedstuffings, SE025 Utilised Agricultural Area:	
	http://ec.europa.eu/agriculture/rica/;	
References / location of the data	https://circabc.europa.eu/faces/jsp/extension/wai/navigation/contained p	r.js
	Eurostat - Economic accounts for agriculture - indices: volume, price, values [aact_eaa05] Products: 19030 - FERTILISERS AND SOIL IMPROVERS, 19040 - PLANT PROTECTION PRODUCTS AND PESTICIDES, 19060 - ANIMAL FEEDINGSTUFFS.	Г
Data collection / dissemination level	EU, National (NUTS 0), Regional (NUTS 2); primary data refer to FADN regions.	
Frequency Annual		
Timeliness	2 years	
Comments/caveats	The same methodology is applied to the agri-environmental indicator Intensification/Extensification http://ec.europa.eu/eurostat/statistics-explained/index.php/Agri-environmental_indicators	12

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N.	Deleted: Price indices of the means of agricultural production, input
	Deleted: - Eurostat - Price indices of the means of agricultural production, input (2010 = 100) - annual data (apripi10ina)
	agricultural production, input (2010 = 100) - annual
	agricultural production, input (2010 = 100) - annual data (apripi10ina)
	agricultural production, input (2010 = 100) - annual data (apripi10ina) Deleted: 203000

Context and Impact indicators.		Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
INDICATOR C.34	Indicator I.28 Responding to consumer demand for quality food:	Deleted: 28
	Value of production under EU quality schemes (incl. organics)	Deleted: November
Label as proposed by	Indicator I.28 Responding to consumer demand for quality food:	Deleted: 19
the Presidency	Value of production under EU quality schemes and organics	
Indicator Name	Value of production under EU quality schemes	
	compared to total value of agricultural and food production	
Definition	It consists of 3 specific indicators:	
	1. total value of production under EU quality schemes and share of	Deleted: V
	the total agricultural and food production value.	Deleted: the
	2. value of production, by EU quality schemes, PDO, PGI and TSG (Council Regulation (EC) No 510/2006) and share of total agricultural	Deleted: n
	and food production value	Deleted: PDO and PGI (Council Regulation (EC) No
	3. value of certified organic production and share of total agricultural	510/2006) and certified organic production
	and food production value	compared
	It covers the four EU quality schemes: agricultural products and foodstuffs	Deleted: .
	(Reg. (EU) No 1151/2012), wines (Reg. (EU) No 1308/2013), spirit drinks (Reg. (EC) No 110/2008), and aromatised wine products (Reg. (EU) No 251/2014), as	
	well as certified organic production (Reg. (EC) No 834/2007).	Deleted: -
Unit of measurement	1 – 3: sales in EUR and %	Deleted: and
		Deleted: n
	The state of the s	Deleted: n
Data source References / location of	External study commissioned by the Commission.	Deleted: Value of production is measured in sales value (in EUR).
the data	/////v	Deleted: 2 -
Data collection /	Data are available at the producer's level. Their availability depends on the	Deleted: value
dissemination level	readiness of producer to provide them.	Deleted: for the value of production
	There is no systematic data collection established EU wide but some Member	Deleted: share
	States have national data collections.	Deleted: %
	The indicator will be established at EU level, based on an estimation provided by a study.	Deleted: ¶ The 2008 study covered the years 2005, 2006, 2007
Frequency	Every four years	and partly 2008.¶ The 2012 study covered the period 2005-2010.¶
Timeliness	Approximately 2 years	A new study is planned covering the period until 2017.
Comments/caveats	Given the lack of a clear definition of quality, the EU PDO/PGI schemes were taken as a proxy for quality production as well as the certified organic production.	
	The indicator could be biased in case some producers (notably the larger ones) do not provide data.	Deleted: ¶
	So far this is the only method to obtain data; Member States are reluctant to	Deleted: ¶
I	ensure a systematic data collection of the value of production under <u>EU quality</u> schemes <u>and certified organic</u> .	Deleted: PDO and PGI
l	The latest study, finalised in 2019, is available here.	
		<u> </u>

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October</u> 2020	Deleted: for the PMEF
INDICATOR C.35	Indicator I.18 Increasing farmland bird populations:	eleted: 28
	Farmland bird index	eleted: November
Label as proposed by	Indicator I.18 Increasing farmland bird populations:	Deleted: 19
the Presidency	Farmland Bird Index	
Indicator Name	Farmland bird index	
	The Farmland Bird Index is intended as proxy to assess the biodiversity status of agricultural landscapes in Europe. Birds are high in the food chain and therefore are considered good indicators for the overall state of biodiversity.	
	The Farmland Bird Index is a composite index that measures the rate of change in the relative abundance of common bird species that are dependent on farmland.	
	Member States select their own species set, following guidelines from the European Bird Census Council (EBCC). The species basket is different for each Member State, because of their distribution ranges and their different relevance concerning different agricultural habitats in the EU.	
	Population trends are derived from the counts of individual bird species at census sites and modelled as such through time. In the absence of other biodiversity monitoring networks, producing this indicator takes profit of the existing networks of birdwatchers, coordinated by NGOs. Population counts are carried out by a network of experts and volunteer amateurs, fieldworkers coordinated within national sampling schemes.	: !
	Other reporting frameworks:	
	An EU aggregated indicator is used in a number of reporting frameworks,:	
Definition	 Agri-environmental indicator (AEI) 25: Population trends of farmland birds; http://ec.europa.eu/eurostat/statistics-explained/index.php/Agri-environmental indicator - population trends of farmland birds 	
	 SDGs - Biodiversity: <u>Common Birds Index</u> (Eurostat). https://ec.europa.eu/eurostat/statistics-explained/index.php?title=SDG_15Life_on_land_(statistical_annex)#Common_bird_index 	
	For producing the EU aggregate index, a list of selected species is used (the so-called "EU list of species", currently consisting of 39 species). The national indices for these species are combined into a European index, by using a weighting factor accounting for the national proportion of the total European population. Then the methodology described below is followed for calculating the index.	
	Methodology: The index for each Member State should be calculated based on the national species list. An index is first calculated for each species independently. The indices for the set of species are then combined on a geometric scale to create a multi-species aggregate index. National indices are compiled by each Member State using common software and methodology.	
	A software modelling tool carries out the modelling work for estimating the index.	
	For more detailed information on the methodology: https://pecbms.info/methods/,	
	and the Eurostat indicator metadata:	
	(https://ec.europa.eu/eurostat/cache/metadata/EN/t2020_rn130_esmsip2.htm)	
Unit of measurement	The index is calculated with reference to a base year, set at 100. Trend values express the overall population change over a period of years.	
Data source	EBCC/RSPB/BirdLife/Statistics Netherlands: the European Bird Census Council (EBCC) and its Pan-European Common Bird Monitoring Scheme (PECBMS), https://pecbms.info/	
Data Source	Eurostat does not receive any of these data directly from the Member States: National index: Eurostat, as of 2018, receives data from the OECD, which receives data from national offices who are part of the PECBMS network.	

	Context and Impact indicators	Deleted: Draft list of
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	European index: data are transmitted to Eurostat and published in the	Deleted: 28
	statistics database: Environment/Biodiversity.	Deleted: November
	Location of the data:	Deleted: 19
	Eurostat, Environment statistics, Biodiversity:	
	Table [env_bio2]: national farmland bird index. Table 5. Tab	
References / location	Table [env bio3]: EU farmland bird index. Pofe according to the second of the se	
of the data	References:	
	Agri-environmental indicator 25: https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Agri-environmental indicator -	
	population trends of farmland birds	
	EBCC/PECBMS : European Birds Census Council/ Pan-European Common Bir	rd
	Monitoring Scheme https://pecbms.info/	<u> </u>
	EU (on the basis of the number of Member States which delivered data eve	Deleted: National, some Member States are not
Data collection /	year. E.g.: in 2008 only 15 Member States delivered data; for the 20 EBCC/PECBMS updates data is available for 25 EU Member States, from 1990	12 covered. See caveats section.
dissemination level	2012), National (NUTS 0) (some Member States are not covered. See caver	
	section).	
	Annual (In principle, these data are updated on a yearly basis at national and	
	level. Ability to provide updates of indicators at national level depends on t capacity of the national data providers).	lie .
Frequency	Data availability 2019: 2017 national data Common farmland bird index,	EU
	aggregates Common farmland species 2016.	
	For a small number of Member States data are available from 1980 and couldifferent periods depending on data availability in each Member State.	ver
Timeliness	1-3 years	
rimeimess	, , , , , , , , , , , , , , , , , , ,	
	[Indication capacity]: The relation between agricultural activities and farmla bird populations should be interpreted very cautiously. There is abundant	
	literature on the impact of agricultural activities on farmland birds, but there a	
	many other factors affecting the status of their populations, and the relat	ive
	importance of these factors along time is not well understood. There is also a number of methodological caveats that need to be addressed	to
	properly use and interpret this indicator, concerning the design of the nation	
	monitoring schemes.	
	The fluctuations between model runs show that small rises or falls in the indica	
	should be regarded as artefacts. It is best to look only at the trends from t defined baseline.	the
	[Readily available?]: 25 EU countries are currently covered. The quantity a	and
	quality of data at national level, and the support of national authorities towards	
Comments/caveats	these monitoring schemes, are other challenges under analysis. Ability to provi	
Comments/ Caveats	updates of indicators at national level depends on the capacity of the nation data providers.	nai
	[Downscaling] The index can be estimated at national and EU level. Downscali	ing
	at regional (NUTS 2) level is currently not possible. The main limiting factor is t	
	insufficient number and spatial heterogeneity of sampling units.	
	[Quality:] The amount of sampling plots/transects and the statisti representativity of birdwatchers widely varies at regional, national and EU leve	
	This is taken into account in the statistical analysis to calculate the indicators.	Deleted: has to be
	As for the time series, the number and type of species chosen from the select	
	common list by each country is remaining stable over time unless so	olid
	justification is provided. [Baseline:] The baseline year needs to be defined.	
	In Eurostat's database, data are presented with four different bases: 1990, 200	20
	the latest year available and the national base year.	50,

Context and Impact indicators	(Deleted: Draft list of
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		Deleted: 28
This indicator is also used for the EU reporting on UN Sustain	nable	Deleted: November
Development Goals (SDGs). For SDGs the first year in the time series sufficient points has been established to be year 2000 (table <u>sdg 15 60</u>).	WIER	Deleted: 19

	Context and Impact indicators	Deleted: Draft list of
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	Indicator I.19 Enhanced biodiversity protection:	Deleted: 28
INDICATOR C.36	Percentage of species and habitats of Community interest related to agriculture	Deleted: November
	with stable or increasing trends	Deleted: 19
Label as proposed by	Indicator I.19 Enhancing biodiversity protection:	
the Presidency	Percentage of species and habitats of Community interest related to agriculture with stable or increasing trends	
Indicator Name	Percentage of species and habitats of Community interest related to agriculture with stable or increasing trends	
	This indicator assesses the conservation status trends of those habitats and species of Community interest, i.e. listed in the relevant Habitats Directive annexes, that are considered to be strongly linked to agro-ecosystems.	
	Species and habitats of Community interest are those in danger of disappearance in their natural range, rare or endemic, or characteristic of one or more of the EU biogeographical regions; these species and habitats are listed in the annexes of the Habitats Directive.	
	The existence and long-term survival of some of these habitats and species is strongly linked to the presence and good conditions of certain agricultural ecosystems; their conservation status is influenced by the management of agricultural systems, the practices implemented, land abandonment, intensification and conversion into other land uses.	
Definition	The Habitats Directive does not explicitly identify species and habitats dependent on agro-ecosystems but those have been identified in the guidance "farming and Natura 2000"12. The species and habitat composition will vary between biogeographical regions and between Member States. The lists of species and habitats (one per Member State with indication of the relevant biogeographical regions) will be elaborated taking into account the works of inter alia from Halada et al. (2011), Roscher et al. (2015) and European Commission (2014), and then validated by the Member States.	
	For both, species and habitats, the overall assessment of conservation trend is as follows: 'improving +', 'deteriorating -', 'stable =', 'unknown x' .	
	Methodology:	
	I.19 = Number of assessments that indicate an improving or stable trend	
	Total number of assessments	
	Number of assessments: depends on total number of species and habitats, and on the number of biogeographical regions where they are represented (e.g. a species present in 2 biogeographic regions will have two assessments).	
Unit of measurement	Percentage of assessments with a stable or improving conservation status trend.	
Data source	Member States regularly report in accordance with Article 17 of the Habitats Directive on the status and trends of habitats and species of Community interest.	
References / location	Data are reported to the European Environment Agency (EEA) by MS.	
of the data	The EEA would carry out the necessary calculations.	
Data collection / dissemination level	National (NUTS 0). Values are assessed at the biogeographical level of each Member State, in such a way that results can be aggregated at the level of the	Deleted: The indicator is foreseen to be applied at the level of the Member States
	Member States	Deleted: and the EU

 $\frac{\text{http://ec.europa.eu/environment/nature/natura2000/management/docs/FARMING\%20FOR\%20NATU}{RA\%202000-final\%20guidance.pdf}$

	Context and Impact indicators	Deleted: Draft list of
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	Member States report every six years taking the developments over the six-year period into consideration.	Deleted: 28
	Next reports due in 2019 (for 2013-2018), 2025 (2019-2024) and 2031 (2025-	Deleted: November
Frequency	2030). <u>Information relating to State of Nature (2019) report is available at</u>	Deleted: 19
	https://www.eea.europa.eu/themes/biodiversity/state-of-nature-in-the-eu/state-	
	of-nature-2020	
Timeliness	Producing the indicator is estimated to take 6-12 months from reporting time.	
rimeliness	Delivery time will depend on the reporting timeliness by Member States.	Deleted: Data under the Nitrates Directive: data for the period
	[Indication capacity]	2015-2019 had to be notified by $31^{\rm st}$ June 2020; some MSs still have to do so
	Assessing the conservation status and its trend of species and habitats of Community interest dependent on agriculture will contribute to reflect on the impact of agriculture in maintaining and restoring important components of the EU biodiversity. However:	
	 a) there can be a variable time lag between changes in agricultural practices pattern and the impact on habitats and species, which depend on agro- ecosystems; 	
	b) Other factors, such as climate change and invasive species and other human pressures, influence the status and trends of those species and habitats. The indication of the high-ranked pressures and threats for species and habitats	
	associated with agriculture is available in the State of Nature report ¹³	Deleted: The methodological analysis to come up could still analyse the possibility to add bird species which
	[Readily available?]: The indicator is under development and should be ready by 2020.	would be useful for arable lands where no habitats and only few Habitats Directive species are defined by the
	Possibilities for some weighting factors in the formula (e.g. to reflect	
Comments/caveats	representativeness of habitats/species) are being considered. [Downscaling]	Deleted: therefore not yet available. Significant conceptual progress achieved will be followed by full development and testing. It
	The indicator could be scalable by biogeographic regions. Options for downscaling at NUTS 2 level have to be analysed.	Deleted: This is also valid for the soil biodiversity component. However, it remains a conceptual
	[Quality:]	extension of the current context existing indicator C.36 "Conservation Status of agricultural habitats
	The simplicity of this indicator is a strong asset and the focus on trends make it robust.	(Grassland).
	Due to the fact that Member States apply different approaches to collect the data (complete inventories, sampling, expert opinion), the level of accuracy of the	
	data set provided by Member States will vary. It is proposed to consider	Deleted: therefore
	developing an index, based on the 'Method used' as reported by Member States	Deleted: study the possibility of developing an
	for most of the data which could provide contextual information on the robustness and relevance of the impact indicator.	Deleted: . Such an index
	[Baseline:]	Deleted: be used to
	Reporting by Member States does not fit with the CAP timing; the baseline would be set at the beginning of the funding period, and then using the reporting dates (2019-2025-2031). There would persist a gap between the period reported and the CAP implementation period. The mid-term evaluation of the indicator can be problematic due to the legal 6-year frequency of reporting obligations by MS.	

 $^{^{13}\ \}underline{\text{https://www.eea.europa.eu/publications/state-of-nature-in-the-eu}}$

Context and	Impact indicators

1 October 2020

	Indicator I.17 Reducing pressure on water resource:
Indicator C.37	Water exploitation index plus (WEI+)
Label as proposed by	Indicator I.17 Reducing pressure on water resource:
the Presidency	Water Exploitation Index Plus (WEI+)
Indicator Name	Water use in agriculture
Definition	1. Water use in agriculture is assessed with the WATER EXPLOITATION INDEX PLUS (WEI+), which provides an estimated measure of the total water use as a percentage of the renewable freshwater resource (groundwater and surface water) for a given territory and time period. It is an advanced version of the WEI. The WEI+ addresses regional and seasonal aspects of water scarcity. In addition, it also takes water use (water abstraction minus water returned) into account. It identifies areas (e.g. sub-basins or rive basins) prone to water stress due to exceeding water abstraction and use on a seasonal scale in relation to the resources available. Methodology: WEI+ = Water use Renewable water resources (RWR) RWR= Outflow + (Abstraction - Return) + Change in storage Change in storage= Water in (Lakes + Reservoirs) - Water out (Lakes + Reservoirs) Water use= Abstraction - Return (all economic sectors covered) As an impact indicator for the CAP, two specific indicators could be derived from the WEI+: 2. A specific indicator expressing the relative pressure of agriculture compared to other economic sectors, at national
	level and on an annual basis. 3. A specific indicator expressing the change over time in the volume of water used by agriculture, at national level and on an annual basis. More details on the calculation and units of measurement are being developed. WEI+ is expressed as a percentage of water use over the renewable water resources available. < 20% = non-stressed area; > 20% = under stress; 40% = severe stress and
	clearly unsustainable resource use.
Unit of measurement	√ / _Q
Data source	WISE SoE 3 Eurostat and OECD joint Questionnaire on Inland Waters National Statistical Offices (on ad-hoc basis, not part of formal dat collection by the EEA) E-OBS gridded dataset (on hydro-climatic variables) 'Return': The average water return rate, which is implemented in the WEI+reflects differences in irrigation technology and efficiency improvements, it i estimated to be 30%, based on the existing literature.
References / location of the data	- WISE SoE 3: https://rod.eionet.europa.eu/obligations/184 - Eurostat and OECD Joint questionnaire https://ec.europa.eu/eurostat/documents/1798247/6664269/Data+Collection+Nanual+for+the+OECD Eurostat+Joint+Questionnaire+on+Inland+Waters+%28version+3.0%2C+2014%29.pdf/f5f60d49-e88c-4e3c-bc23-c1ec26a01b2a

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Deleted: WEI+ is expressed as a percentage of water use over the renewable water resources available. ¶ < 20% = non-stressed area; > 20% = under stress; 40% = severe stress and clearly unsustainable resource use.

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		Context and Impact indicators
١		1_October 2020 National Statistical Offices: on MS nat. stat. offices website
		- E-OBS gridded dataset: https://www.ecad.eu/download/ensembles/download.php https://www.knmi.nl/over-het-knmi/about
	Data collection / dissemination level	National (NUTS 0) and River Basin District or Sub Unit level.
	Frequency	The updating frequency will be carried out when demanded. Result will depend on updating frequency of data sources. WISE SoE 3: annual on MS level or monthly/ seasonal/ annual River Basin District (RBD) or Sub Unit (SU) level. All on voluntary basis. Eurostat and OECD joint Questionnaire: annual at MS level National Statistical Offices: no formal consultation/reporting process. E-OBS gridded dataset: published daily, then aggregated to monthly scale.
	Timeliness	
		[Indication capacity]
		It sets environmental conditions in relation to pressures from sectors. It allows estimating the pressure a sectors exerts on the natural water resources, compared to other sectors.
		For both <u>specific indicators</u> it should be further explored how much a comparison between years is conceptually reasonable when considering the level of gap filling.
		The "WAT 006- Water use intensity for crop production" indicator developed by EEA could be used as supplementary information to compare water inputs with the gross value added of crop production. [Readily available?]: The indicator is now available: Q4 2019: WEI+ will be available at MS level (currently, at River Basin district and sub-basin level). [Downscaling] There are different options to present the information of the WEI+:
		- at MS level on annual resolution, or
	Comments (savests	- at finer spatial and temporal scales i.e. RBD or SU level on seasonal resolution.
	Comments/caveats	Both options come with pros and cons, notably on the interpretation of the results.
		For evaluation purposes, all the above ways to express the indicator could be useful. [Quality:] Some caveats remain: WISE SoE 3: holds large gaps in the data coverage particularly on water abstraction and water use for irrigation. Since 2010, the reporting rate of Member States on the water abstraction for irrigation has been dramatically decreasing. No or very low reporting together with large breaks in the time series on water abstraction for agriculture from some MS. Similar to the streamflow data which needs large gap filling to be implemented with the Joint Research Centre (JRC) LISFLOOD data. Eurostat and OECD Joint questionnaire: data presents large temporal and spatial gaps in time series. That limits to provide robust overview on the irrigation pressure on renewable water resources. National Statistical Offices: minor benefit as websites are in national languages and it is difficult to find data sets and also definitions are very diverse. "Return": Some of Member States have reported data on this variable during the last data-reporting stream in 2018 but it is still far from being sufficient. [Baseline:]

Deleted: It must be noted that the WEI+ is originally conceptually not meant to be an indicator for policy monitoring;

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Context and Impact indicators	Deleted: Draft list of
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An earlier version of this indicator is used for the EU reporting on UN Sustainable Development Goals.	Deleted: November
Sustainable Bevelopment doubt	Deleted: 19

	Context and Impact indicators	Deleted: Draft list of
	<u>1_October</u> 2020_	Deleted: for the PMEF
INDICATOR C.38	Indicator I.15 Improving water quality:	Deleted: 28
INDICATOR C.30	Gross nutrient balance on agricultural land	Deleted: November
Label as proposed by	Indicator I.15 Improving water quality:	Deleted: 19
the Presidency	Gross nutrient balance on agricultural land	
	The indicator C.38 Water quality is composed by three specific indicators:	
	1. Gross nutrient balance – nitrogen;	
	2. Gross nutrient balance – phosphorus	
	3. Nitrates in groundwater	
Indicator Name	Water quality 1. Gross nutrient balance - nitrogen	
	The indicator illustrates the potential threats to water quality in the presence of a nutrient surplus from agricultural soils, at an annual basis. For nitrogen, a deficit in agricultural soils represents a threat to soil quality.	
	The gross nutrient balance for nitrogen presents a link between the agricultural activities responsible for high nitrogen loads and the environmental impact and helps identifying the factors which contribute to the nitrogen surplus and shows the change over time.	
Definition	Nitrogen is added to the soil by mineral and organic fertilisers, grazing animals, atmospheric deposition and biological nitrogen fixation, while harvesting of crops, grazing and removal of residues remove nitrogen from the soil. A lack of nitrogen may cause degradation in soil fertility and erosion, while an excess may cause surface and groundwater (including drinking water) pollution and eutrophication.	
	Nitrogen balances are monitored for the purposes of the Water Framework Directive and for the Nitrates Directive.	
	The following indicator already exists:	
	Agri-environmental indicator 15 Gross Nitrogen Balance: Potential surplus of nitrogen on agricultural land, http://ec.europa.eu/eurostat/statistics-explained/index.php/Agri-environmental_indicatorgross_nitrogen_balance	
	The indicator is part of the Resource Efficiency Scoreboard, the Agrienvironmental indicators, and the SDG indicators.	
	Some countries prefer to use the fertilised areas, i.e. they have removed rough grazings from the agricultural area.	
Unit of measurement	kg N/ ha/ year v	Deleted: agricultural land
	Statistical Office of the European Union (Eurostat), based on data reported by the countries (<u>currently</u> only available for those countries that report <u>Compulsory</u>	Deleted: (some countries prefer to use the fertilised areas, i.e. they have removed rough grazings from the agricultural area).
	transmission of Gross Nutrient Balance data are planned to be part of the future legislation on agricultural statistics, in the Regulation on Statistics of Agricultural	Deleted:)
	Input and Output (SAIO), planned to be adopted by the Commission by the end of	
	2020.	Deleted: .
	Data come from multiple sources including the consumption of mineral fertilisers	
	and seeding and plant material, livestock population and manure import and exports, use of other organic fertilisers in agricultural production, atmospheric	
Data source	deposition, biological nitrogen fixation, crop and fodder production and	
	crop/fodder residues removal or burning, and areas of various types of crops. The	
	land types included are arable land, permanent crops and permanent grassland.	
	Further, coefficients are required, among other to estimate nutrient excretion per livestock and fodder yields.	
	For the countries which don't provide data, estimates are calculated and published	
	by Eurostat based on various available data sources, most importantly the	
	Eurostat fertilizers, crop and livestock statistics, National inventory submissions to UNFCCC and CLRTAP, Fertilizers Europe and FAO database.	
	The EU aggregate is also estimated.	Deleted: -28
	- 4-33 -33	- 5.55341 20

	Context and Impact indicators
	<u>1 October 2020,</u>
	Eurostat: Gross nutrient balance [aei pr gnb]
References / location of the data	https://ec.europa.eu/eurostat/cache/metadata/en/aei_pr_gnb_esms.htm
or the data	https://ec.europa.eu/eurostat/cache/metadata/en/t2020_rn310_esmsip2.htm
Data collection /	National (NUTS 0), covering <20 countries of the EU
dissemination level	V
_	Data are annual.
Frequency	Indicator is updated every two years.
* **	> T+2 years
Timeliness	New data points are disseminated within 3 years after the reference year.
	[Indication capacity] Data at national level and annual national balances can mask
	important regional or monthly variations.
	As the indicator integrates the most important agricultural parameters with regard
	to potential nitrogen surplus, it is a robust measure for nutrient leaching risk,
	directly linked with agriculture.
	However, the indicator is only indirect; it shows the potential risks, depending on
	local soil conditions and farm management practices, rather than the actual water
	quality trends.
	The indicator is captive of the methodologies used to calculate coefficients and the
	availabilities of national coefficients, plus the recalculation of coefficients when
	national practices change. The use of Tier 1 approaches may prevent tracking
	progress and policy effectiveness. With no work on the coefficients, the only
	changes recorded are related to changes in production.
	Data are not comparable between countries, but the trends are.
Comments/caveats	[Readily available?]: The indicator is already available 2004-2015 for EU-28. As of
•	reference year 2016, it will be available for all EU MS who submit the necessary
	data to Eurostat, currently around 17 countries.
	·
	[Downscaling] In the future, it could be considered how to make data available at
	regional (NUTS 2) level, using JRC modelling data, or with MS data when they
	have them available.
	[Quality:] The indicator is produced according to the high-level quality standards
	of European Statistics. Details on accuracy can be found in the metadata of the
	source datasets. There is high uncertainty in some coefficients used.
	The problem is that the indicator is only a snapshot at a point in time. It does not
	consider the past-cumulated surplus. I.e, the risk to water quality degradation
	does not come from the actual surplus, but also from past surpluses.

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	Deleted: http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=aei_pr_gnb⟨=en
	Deleted: Data at national level and annual national balances can mask important regional or monthly variations.

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Context and Impact indicators		
<u>1 October 2020</u>		
INDICATOR C.38	Indicator I.15 Improving water quality:	
	Gross nutrient balance on agricultural land	
Indicator Name	Water quality	
Indicator Name	2. Gross nutrient balance – phosphorus	
	<u>Gross Phosphorus Balance</u> (GNB-P): Potential surplus of phosphorus on agricultural land (Gross Phosphorus Surplus).	
Definition	The gross nutrient balance provides an estimate of the potential water pollution. It represents the total potential threat of phosphorus surplus in agricultural soils to the environment. When P is applied in excess, it can cause surface and groundwater (including drinking water) pollution and eutrophication.	
Unit of measurement	kg P/ ha/ year.	
Data source	Statistical Office of the European Union (Eurostat), based on data reported by the countries (only available for those countries that report).	
References / location of	Eurostat: Gross nutrient balance (aei_pr_gnb)	
the data	https://ec.europa.eu/eurostat/cache/metadata/en/t2020_rn310_esmsip2.htm	
Data collection level	National (NUTS 0), covering <20 countries of the EU	
	Data are annual.	
Frequency	Indicator is updated every two years.	
Timeliness	> T+2 years New data points are disseminated within 3 years after the reference year.	
Comments/caveats	Contrary to nitrogen, phosphorus can be loaded into agricultural soils. In several places in the EU, soil is lacking phosphorus and a surplus (loading) can improve soil fertility in the longer run. The problem is that the indicator is only a snapshot at a point in time. It does not consider the past-cumulated surplus. I.e., the risk to water quality degradation does not come from the actual surplus, but also from past surpluses. This is particularly true for phosphorus saturated soils, where P leaching occurs even in negative surplus areas.	

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	Context and Impact indicators	Deleted: Draft list of
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	Indicator I.16 Reducing nutrient leakage:	Deleted: 28
INDICATOR C.38	Nitrate in ground water - percentage of ground water stations with N concentration	Deleted: November
	over 50 mg/l as per the nitrate directive	Deleted: 19
Label as proposed by the	Indicator I.16 Reducing nutrient leakage:	
<u>Presidency</u>	Nitrates in ground water	
Indicator Name	Water quality	
Illuicator Name	3. Nitrates in groundwater	
Definition	Nitrate pollution is measured by current values and trends in nitrate concentrations in groundwater and rivers, expressed in mg NO3/I for groundwater and mg N/I for rivers. This indicator shows the potential impact of agriculture on groundwater quality due to pollution by nitrates. It consists on an index measuring the % of groundwater monitoring sites with nitrates' concentration (NO3-mg/I) over 50 mg/I for groundwater. It makes a linkage with the Nitrates Directive (91/676/EEC) aiming to control nitrogen pollution and requiring Member States to identify groundwaters that contain more than 50 mg/I nitrate. The following related indicators already exist, but there might be some differences with I.16: - Agri-environmental indicator 27.1 Water quality - Nitrates in freshwater: nitrate pollution of water. https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Archive:Agri-environmental indicator - nitrate pollution of water - CSI 020 Nutrients in freshwater (European Environment Agency). Concentrations of nitrate in rivers and groundwater. https://www.eea.europa.eu/data-and-maps/indicators/nutrients-in-freshwater/nutrients-in-freshwater-assessment-published-9 Indicator I.15 Gross Nitrogen Balance on agricultural land, supplements this water	
Unit of measurement	quality indicator. % of groundwater stations above the concentration threshold (50 mg NO3/I)	Deleted:
Data source	Data from the Nitrates Directive reporting system (DG Environment): national and river basin level. European Environment Agency (EEA) – Nutrients in freshwater: Data voluntarily reported by Member States (EEA Member Countries) via the WISE/SOE (State of Environment) data flow annually. (Potential supplement)	
References / location of the data	Location of data: EEA website, based on data reported to EIONET: Waterbase_rivers, Waterbase_groundwaters, CSI020 , http://www.eea.europa.eu/data-and-maps/indicators/nutrients-in-freshwater References: - European Environment Agency (EEA): WISE-SoE Water Information System for Europe - State of Environment - Council Directive 91/676/EEC concerning the protection of waters against pollution by nitrates from agricultural sources.	
Data collection /	National (NUTS 0) and river basin level	Deleted: -
dissemination level		
	Under the Nitrates Directive, Member States have the obligation to report every 4	Deleted: -
Frequency	years.	
	Data from the European Environment Agency: annual but voluntary, could	Deleted: -
Timeliness	Data from the European Environment Agency: Data available 1 ½ year later. Data under the Nitrates Directive, the frequency of data collection is every 4 years. The timeliness (delay for availability of the data) is between 1 and 2 years (Member	

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Context and Impact indicators		Deleted: Draft list of
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	States often provide their national report with delay). For the period 2015-2019 had	Deleted: 28
	to be notified by 31st June 2020; some MSs still have to do so which lead to a delay	Deleted: November
	for the Commission report on the implementation for the Directive.	Deleted: 19
	 [Indication capacity]: It is acknowledged that agriculture is a main contributor to diffuse nitrates pollution. Inter-annual variation in hydrology may give rise to variation in river nitrate concentrations in surface water bodies, but this does not affect long-term trends. Moreover, this indicator refers only to groundwater. 	
		Deleted:).
	An indicator (AEI 27.1) is available, but has not been updated since 2009, needing checking on the sources of information (unofficial MS's reporting) used for its estimation. The current AEI 27.1 is built as follows: for groundwater, groundwater monitoring station data are used for the current situation and groundwater bodies for the time series and trend analysis. However, the density and the stability of the monitoring station networks varies among Member States. The 4 yearly Commission reports on the implementation of the Nitrates Directive includes the percentage of stations with average values equal to or exciding 25, 40 or 50 mg nitrate per litter during the reporting period in question as well as previous	
Comments/caveats	ones, for each single Member State. [Downscaling:] Nationally averaged groundwater nitrate concentrations are all below the Nitrates and Drinking Water Directives limit of 50 mg NO ₃ /l. National aggregation masks considerable variation at the scale of individual groundwater monitoring stations (e.g. approx. 13 % of groundwater monitoring stations across Europe, in 2009, exceeded the 50 mg NO ₃ /l limit). [Quality:] The sampling frequency and density of stations monitored varies between countries. Similarly, the computation of the percentage of stations above the limit of 50 mg NO ₃ /l is not meaningful if the stations location and sampling frequency is not	

According to reports on Nitrates Directive: 'efforts are needed to ensure that the turnover of monitoring stations does not affect the accuracy of water quality trends'. The data provided via WISE-SoE Groundwater might be for the future combined with the data coming from the Nitrate Directive (which reflect more the impact of agriculture). DG Environment and EEA are together with Member States (MS) working on a streamlining of the different MS reporting on water quality including

This indicator has common ground with the one used for the EU reporting

coordination of WISE-SOE and Nitrate Directive reporting.

on UN Sustainable Development Goals.

	Context and Impact indicators	Deleted: Draft list of
	1 October 2020.	Deleted: for the PMEF
	Indicator I.11 Enhancing carbon sequestration:	eleted: 28
INDICATOR C.39	Increase the soil organic carbon	eleted: November
Label as proposed by the	Indicator I.11 Enhancing carbon sequestration:	Deleted: 19
Presidency	Soil organic carbon in agricultural land	
Indicator Name	Soil organic <u>carbon</u> in agricultural land	Deleted: matter
	The indicator estimates the total organic carbon content in soils on agricultural land.	Deleted: arable
	Soil organic carbon (SOC), the major component of soil organic matter extremely important in all soil processes. Organic matter in soil is esser derived from residual plant tissues, while microbial, fungal and a contributions constitute a small part of its total amount. Microbes, fung animals decompose organic matter more or less efficiently dependin temperature, moisture and environmental soil conditions, which is stabilised with the mineral matrix. The annual exchange of carbon betwee and the atmosphere can vary greatly, depending on cultivation practices type of plant/crop cover, drainage status of the soil and weather conditioner are two groups of factors that influence inherent organic matter coand accumulation: • natural factors (climate, soil parent material, land cover a vegetation and topography), • and human-induced factors (land use, management and degradation)	ntially nimal i and g on then n soil s, the tions. ntent
	The indicator is expressed with 3 specific indicators:	Deleted: as
B. C. W.	1. estimate of the total organic carbon content in soils	
Definition	agricultural land of EU Member States (with a breakdown by a	
	land, grassland and permanent crops)	HUD
	2. the mean organic carbon content in agricultural land	
	3. estimate of SOC changes over time	Deleted: in
	The methodology is based on the integration of ground data, from the L	UCAS
	soil survey, with an advanced modelling framework coupling process-base	
	machine learning models. The model will also include scenarios on a implementation of practices which are relevant for SOC accumulation.	
	The LUCAS Land Use and Coverage ¹⁴ Area provides a pan-Europear	n soil
	component measuring the soil organic carbon content (g/kg) in 27 000 to (0-20 cm and 30 cm) samples.	
	The LUCAS data are used to inform a biogeochemical model ¹⁵ which estir SOC stock values (Mg/ha) in time. The model output are then up-scal spatial level by a machine learning approach, up to a resolution of 100 m.	ed at
	The final outputs are maps of SOC stock and changes in time at 10 resolution, than can be aggregated at any administrative level.	
	1: megatonnes (Mt) of C;	Deleted: Total estimated Soil Organic Carbon
Unit of measurement	2: g of C / kg	Content in soils on agricultural land: Deleted:
	3: %	Deleted: Deleted: , 0-30 cm depht
Data cource		\
Data source	High resolution map (100 m) of SOC stock in agricultural soils (in	Deleted: cChanges overin time of SOC at 100 m resolution

 $^{^{14}}$ Orgiazzi et al., 2017. LUCAS Soil, the largest expandable soil dataset for Europe: a review. EJSS

 $^{^{15}}$ Lugato et al., 2018. Mitigation potential of soil carbon management overestimated by neglecting N2O emissions. NCC.

	Context and Impact indicators	Deleted: Draft list of
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	preparation by JRC)	
	• Stock estimates in time (2009-2 <u>0</u> 10) in LUCAS points by a biogeochemical	Deleted: November
	modelling approach	Deleted: 19
	 Joint Research Centre (JRC Ispra) – LUCAS dataset (2015), consisting on 27.000 top-soil samples across Europe, of Topsoil Soil Organic Carbon content in EU-25 in 2009. The LUCAS soil Component was extended to Bulgaria and Romania in 2012 and repeated in 2015 (+ Croatia, Malta and Cyprus) and 2018. 	
References / location of the data	European Soil Data Centre (ESDAC) - https://esdac.jrc.ec.europa.eu/	
Data collection / dissemination level	EU, National (NUTS 0)	
Frequency	Currently, datasets for 2009-2012 and 2015 are available and completed, while data of 2018 campaign are under analysis.	2
	Planning is underway for a new campaign in 2022.	
Timeliness	While the data-model framework is update according to LUCAS frequency, the output can be delivered any time and in the future under climatic projections and scenario analysis and implementation of practices relevant for SOC.	
	[Indication capacity:] Assessing the soil organic carbon is essential as this is basis for all soil processes. However it can vary highly depending on natura (climate, land cover, soil parent material, etc.) and human induced factors suc as land use and management.	al
	It is important that the uncertainty associated with the predicted values in understood by the end-users and should encourage careful use an interpretation of the higher resolution spatial values.	
	As the indicator is an estimate of the topsoil only, the total SOC in agricultural soils is underestimated. Nevertheless, it can give a good indication on the change.	
	[Readily available?]: The indicator is available.	
	[Downscaling:] The indicator is downscaled at 100 m resolution and uncertainty of the estimation provided.	
Comments/caveats	[Quality:] The map produced gives the most up-to-date and harmonised picture of topsoil organic carbon stock at the European Union scale. The combination of ground data with different model approaches, allows to filter out the inherent survey variability. Anyway, the uncertainty estimates it's always associated to the outcomes provided.	
	This method is complementary to national scale or local maps that are ofte based on more detailed information, and sometimes spatialised. Member State have used LUCAS, combined with national data, to enhance estimates within Member State inventories.	s
	[Baseline:] The Commission is currently analysing the LUCAS Soil Organi Carbon data comparing LUCAS 2015 data with previous data sets (LUCAS 200 and 2012). This analysis will provide more information on the soil organi carbon trends in arable land and grassland in particular and this could serve a baseline or if available, the results of the LUCAS survey of 2018.	9 c

	Context and Impact indicators	Deleted: Draft list of
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	Indicator I.13 Reducing soil erosion:	eleted: 28
Indicator C.40	Percentage of land in moderate and severe soil erosion on agricultural land	eleted: November
I = 5 all as arranged by the		Deleted: 19
Label as proposed by the Presidency	Percentage of agricultural land in moderate and severe soil erosion	Deleted: 19
FIESIGENCY		
Indicator Name	Soil erosion by water Percentage of land in moderate and severe soil erosion on agricultural land	
	This indicator consists of 2 specific indicators:	
	1. estimated rate of soil loss by water erosion	Deleted: E
	percentage of agricultural land at risk of moderate and severe soil erosion) These position indicators percent positions by water presidents.	Deleted: eEstimated agricultural area at risk of a certain rate of soil erosion by water (expressed as share
	These specific indicators assess potential soil loss by water erosion processe (rain splash, sheetwash and rills) and identify the agricultural areas susceptible	
	to a rate of soil erosion considered unsustainable, within the following	Deleted: area
	thresholds: (moderate i.e. >5 t/ha/year to severe and severe i.e. >1 t/ha/year).	Deleted: ub
Definition	The two soil erosion specific indicators have been produced by the Joint Research Center of the European Commission (JRC-Ispra), on the basis of an empirical computer model. Assessments of soil erosion are based on the output of an enhanced version of the Revised Universal Soil Loss Equation mode (named RUSLE2015) (JRC-Ispra) which was developed to evaluate soil erosion by water in the European Union ¹⁶ . The model provides an estimate of soi erosion by water on the basis of scientific knowledge, peer review published manuscripts, technical judgment and input datasets. RUSLE2015 improves the quality of estimation by introducing updated (2010), high-resolution (100m) and peer-reviewed input layers of rainfall erosivity, soi erodibility, slope steepness and slope length, Land Cover and management and the support practices applied to control erosion. The Rainfall Erosivity was calculated based on high-resolution temporal rainfall data (5, 10, 15, 30 and 60 minutes) collected from 1,541 well-distributed precipitation stations across Europe. The Soil erodibility is estimated for the 20,000 field sampling point included in the Land Use/Cover Area frame (LUCAS) survey. The Slope Steepness and Slope Length have been calculated using the latest Digita Elevation Model (DEM) at 25 m.	nut el
	Only soil erosion resulting from rains plash, overland flow (also known as sheetwash) and rill formation are considered. Soil loss caused by gully erosion or wind erosion is not predicted by RUSLE. The total area of agricultural land has been defined on the basis of 2012 Corine Land Cover (CLC) classes and includes the area of arable and permanent crops, pastures and permanent grasslands.	n le
	Estimated data on soil erosion are published following a qualitative assessment and compared with EIONET country estimates (available for 9 countries) showing that the model output matches general erosion patterns across Europe. A quantitative validation is foreseen to take place against field measurements on long-term erosion plots.	s) ss
	Estimates of soil loss by water erosion in Europe are expressed in t/ha/year for cells of 100m x 100m for the EU.	r
	The following indicators are based on the JRC data/indicator;	Deleted: also exists
	 Agri-environmental indicator (AEI) 21 - Soil erosion. https://ec.europa.eu/eurostat/statistics-explained/index.php/Agri-environmental indicator - soil erosion An SDG indicator on severe soil loss https://ec.europa.eu/eurostat/statistics- 	

Panagos et al. "The new assessment of soil loss my water erosion in Europe', Environmental and Science Policy 54(2015) 438-447

	Context and Impact indicators	Deleted: Draft list of
	1 October 2020	Deleted: for the PMEF
	explained/index.php?title=SDG_15_	Deleted: 28
	Life on land (statistical annex)#Estimated soil erosion by water	Deleted: November
Unit of measurement	1: t/ha/year,	Deleted: 19
	2: %	Deleted: (Estimates of soil loss by water erosion in
	Joint Research Centre (JRC) – European Soil Data Centre (ESDAC); January data courses and for the gradely LUCAS Tangel 2009. Forces	Europe are expressed in t ha ⁻¹ year ⁻¹ for cells of 100m x 100m for the EU)
Data source	Input data sources used for the model: LUCAS Topsoil 2009, Europed Soil Database, Corine Land Cover 2006/2012, Rainfall Erosivi Database in Europe (REDES), Copernicus Remote Sensing, Eurost Statistics, Digital Elevation Model (DEM), Good Agricultur Environmental Conditions (GAEC), Lucas Earth Observation 2009/2012/2015, Farm Field Survey (FSS) statistical data 2010/2013 (source: Eurostat). Potential sources available at national level (studies, surveys, report can be explored and used.	of moderate and severe soil erosion at al as 66
	Joint Research Centre (JRC)	
	European Soil Data Centre (ESDAC) https://esdac.jrc.ec.europa.eu/	
References / location of	Eurostat	
the data	[aei pr soiler] (full data set)	Deleted: http://appsso.eurostat.ec.europa.eu/nui/sh
	• • [sdg 15 50] (indicator table)	ow.do?dataset=aei_pr_soiler⟨=en
	National studies, surveys, reports.	Deleted: https://ec.europa.eu/eurostat/tgm/table.do ?tab=table&init=1&language=en&pcode=sdg 15 50
Data collection / dissemination level	National (NUTS 0), Regional (NUTS 2-3) level (based on 100m cell – model output).	<u>kapluqin=1</u> <u>kpluqin=1</u>
Frequency	Every 3-4 years depending on the data input availability	
Timeliness	3 years delay between sampling (or surveying) and publication.	
Comments/caveats	[Indication capacity:] Assessing the state and total soil erosion is important soil degradation results in loss of soil fertility, loss of carbon and biodiversit lowers the water retention capacity and makes disruption of gas and nutrie cycles. Soil erosion rates may change due to change in land cover or so management (farming) practices (e.g. soil cover, reduced tillage, contof farming, terraces, grass margins). To evaluate significant changes in so erosion over time it should be noted that an analysis over a time period of least 10-15 years would be necessary (e.g. comparing the current situation the 2000s by retrospective modelling and time series). The time interval of years (e.g. 2000-2006-2012 for which data are available) is limited at differences are primarily due to changes in land cover (as indicated by Corit Land Cover data) and/or management practices (as indicated in the Far Structure Survey and LUCAS survey). Therefore, any conclusion must be draw with caution. [Readily available?]: The indicator is available. [Downscaling:] The results of the soil erosion indicators are aggregated NUTS 3 and NUTS 2 level and Member State level. [Quality:] The soil erosion map provides the most updated and harmonise picture of water erosion in EU based on the best available input factors. The se erodibility is estimated for the 20 000 field sampling points included in the Lar Use/Cover area frame (LUCAS) survey. LUCAS provides harmonised ar comparable statistics across the EU. Results of LUCAS survey are subject multi-steps quality assurance system. The Land cover data are inputs taken to CORINE LC (subject to QA) and Farm Structure Survey (source: Eurostat). The proposed map is not intended to substitute any national or local erosion map which is based on more detailed spatial data.	y, nt boil ur boil at too 6 6 and ane m vn at ed boil ad door of boy

Context and Impact indicators	Deleted: Draft list of
<u>1 October 2020,</u>	Deleted: for the PMEF
[Baseline:] An update of the soil erosion dataset to be published by JRC Autumn 2019, based on data from LUCAS 2015 & Farm Structure Survey 20 could be used as baseline.	016 Deleted: 28
This indicator has common ground with the one used for the reporting on UN Sustainable Development Goals.	EUDeleted: 19

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October</u> 2020	Deleted: for the PMEF
INDICATOR C.41	Indicator I.12 Increasing sustainable energy in agriculture:	eleted: 28
	Production of renewable energy from agriculture and forestry	eleted: November
Label as proposed by the	Indicator I.12 Increasing sustainable energy in agriculture:	Deleted: 19
<u>Presidency</u>	Production of renewable energy from agriculture and forestry	
Indicator Name	INCREASE SUSTAINABLE ENERGY IN AGRICULTURE	
	Production of renewable energy from agriculture and forestry	
	The indicator is a composite indicator of renewable energy from agriculture an forestry. This indicator consists of 3 specific indicators:	
		Deleted: measures
	1. production of renewable energy from agricultural biomass. 2. production of renewable energy from forestry biomass	Deleted: e
	3. production of renewable energy from agriculture and forestry	Deleted: and
	4. share of the combined production of renewable energy from	
	<u>agricultural and forestry biomass, over</u> the total primary energy production of renewable energy.	Deleted: %
	production of renewable energy.	Deleted: this in
	1. The production of renewable energy from agricultural biomass calculated by summing the amount of energy from the following:	Deleted: It is broken down by sector: ¶ Production of renewable energy from agricultural
	Biodiesel from oilseeds crops	biomass¶ Production of renewable energy from forestry biomass
	Bioethanol from starch/sugar crops	Troduction of renewable energy from forestry biolinass
	2 nd generation biofuels (from non-food cellulosic materials)	
	Agricultural biogas (livestock manure and energy crops, waste ar	nd
	residues)	_
	 Where available, energy crops for electricity or heat (including sho rotation coppice), 	Deleted: ¶
	Where available, Agricultural crop residues for electricity or heat.	
	The total production of renewable energy from agriculture is the sum	
Definition	biodiesel, bioethanol and biogas production, agricultural biomass for her and power all expressed in ktoe (kilotons of oil equivalent). The	
	following conversion factors, from the EUROSTAT ¹⁷ should be used. If other	
	conversion factors are used, Member State should report the values.	
	• 1 t biodiesel = 0.86 toe	
	• <u>1 t bioethanol = 0.64 toe</u>	
	2The production of renewable energy from forestry biomass covers the	Deleted: : ¶
	forest biomass for renewable energy production, calculated by summing the	
	amount of energy from:	
	 Wood provided directly from forestry (fuel wood, wood chips, bard shavings, forest residues) or transformed from any of the above 	
	(pellets, briquettes etc.)	
	 forest-based industry by- and co-products in EU used for energy production (e.g. sawdust, black liquor) 	ЗУ
	Member States can use the reporting obligations under the Governance of the	n <u>e</u>
	Energy Union Regulation and/or the Progress Reports under the Renewab Energy Directive.	
	Primary energy production from forestry biomass is expressed in kto	<u>oe</u>
	(kilotons of oil equivalent).	

3. The production of renewable energy from agricultural and forestry biomass is the sum of specific indicators 1 and 2 $\,$

¹⁷ https://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Tonnes of oil equivalent (toe)

	Context and Impact indicators,	Deleted: Draft list of
	<u>1 October 2020,</u>	Deleted: for the PMEF
	<u>1 – 3; ktoe</u>	Deleted: 28
Unit of measurement	4: %	Deleted: November
	Eurostat -Energy statistic	Deleted: 19
		Deleted: Production of renewable energy from
	Governance of the Energy Union Reporting, especially:	agricultural biomass: ¶ The total production of renewable energy from
	Annex IX	agriculture is the sum of biodiesel, bioethanol and biogas production, agricultural biomass for heat and
	Annex VII, Part 1, paragraph (b) and (g)	power all expressed in ktoe (kilotons of oil
Data source	Annex VII, Part 1, paragraph (m) (1) for forest biomass	equivalent). The following conversion factors, from the EUROSTAT ¹⁸ should be used. If other conversion
	 Annex VII, Part 1, paragraph (m) (2) for agricultural biomass for heat and power 	<pre>values. ¶ <#>1 t biodiesel = 0.86 toe¶</pre>
	MS Progress Reports according to Article 22 of Directive 2009/28/EC	<pre><#>1 t bioethanol = 0.64 toe¶ Production of renewable energy from forestry</pre>
	Complete energy balances - annual data	biomass:¶ Member States can use the reporting obligations under
	Eurostat –Energy Statistics	the Governance of the Energy Union Regulation and/or
References / location of the data	Reporting under the Governance of the Energy Union Regulation	the Progress Reports under the Renewable Energy Directive. ¶
the data	Progress Reports under the Renewable Energy Directive	Primary energy production from forestry biomass is expressed in ktoe (kilotons of oil equivalent)¶
Data collection /	EU, National (NUTS 0)	Biomass:¶ All Reporting on biomass used for energy, if available,
dissemination level		should be done in 1000 m3 or in 1000 tonnes of dry
Frequency	Annual	matter for forestry and 1000 tonnes of dry matter for agriculture.
Frequency		Deleted: 2
Starting point	Beginning of the CAP programming period	Deleted: A. B.
		Deleted: 3
Timeliness	2 years	Deleted:
	[Indication capacity] The category "energy from agricultural biogas", even though it predominantly covers agricultural biogas, also contains some biogas from municipal solid waste etc.	
	[Readily available] Data are available	
	[Downscaling] MS have the possibility to provide data at regional level if they are asked. So far, data are available at MS level.	
Comments/caveats	[Quality]	
	[Baseline] Baseline can be set at 2020,	Deleted: ¶
	The indicator have some similarities with the Agri-environnemental indicator 24; Renewable energy production.	
	The indicator measures the production of renewable energy as reported under	
	the Governance Regulation, and according to the requirements for production of	Deleted: r
	renewable energy in accordance to the Renewable Energy Directive.	Deleted: r
		Deleted: e

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	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
Indicator C.42		Deleted: 28
Indicator Name	Energy use in agriculture, forestry and food industry	Deleted: November
	This indicator measures the direct use of energy in agriculture and forestry	Deleted: 19
	and in food processing .	Deleted: ,
	It consist of 3 specific indicators: 1. direct use of energy in agriculture and forestry,	Deleted: The indicator is expressed in various ways: in
	2. direct use of energy in agriculture and forestry, per ha	kilotons, as a share of total final energy consumption and for the direct use of energy in agriculture and
	direct use of energy in food processing	forestry as kg of oil equivalent per ha of UAA and forest land.
	This indicator is based on Eurostat data from the joint IEA/OECD-Eurostat-UNECE	
	questionnaires. There are some limitations of data and sources:	Deleted: in kilotons
	The indicator only refers to direct use of energy by agriculture. Indirect	Deleted, in the of all agriculant new ha
Definition	energy used in agriculture for fertilisers, pesticides, animal feed and agricultural machinery, which are produced using large amounts of energy,	
	is not included.	
	Data on energy consumption by agriculture from the questionnaires	
	include the use of energy by forestry since the separation of the different	
	activities of a farmer/forest owner is not possible. Energy consumption by agriculture may therefore be overestimated in countries with significant	
	forestry sector.	
	Data on food processing are taken from the category "Food and tobacco"	
	and therefore include the NACE category "Manufacture of food products,	
	beverages and tobacco products". Data on food processing are thus overestimated.	
	1: ktoe	Deleted: - agriculture and forestry - energy use, total
Unit of measurement	2: ktoe/ha	in kilotons (1000 tonnes) of oil equivalent,
	3: ktoe	Deleted: agriculture and forestry - energy use in kg of oil equivalent, UAA+forest area in haFor agriculture
	Eurostat - Energy statistics	and forestry:¶
Data source	Eurostat – Crop statistics	- kg of oil equivalent per ha of UAA
	Eurostat – Food and Agriculture Organization of the United Nations (FAO), Forest	Deleted: food, beverages and tobacco - energy use, - total in kilotons (1000 tonnes),
	Europe (FE),	Deleted: .
	<u>Direct use of energy in agriculture and forestry</u> : Eurostat – Energy Statistics	Deleted: Land use, land use change and forestry
	Simplified energy balances, TABLE [nrg_bal_s] - Standard international energy product classification (SIEC)	Deleted:
	"Total" – ENERGY BALANCE – "Final consumption – other sectors – agriculture and	
	forestry – energy use"	
	District Control of Co	
	<u>Direct use of energy in food processing</u> : Eurostat – Energy Statistics, <u>Simplified</u> energy balances	
	TABLE [nrg bal s] - Standard international energy product classification (SIEC)	
	"Total" – ENERGY BALANCE – "Final consumption - industry sector - food,	
References /	beverages and tobacco - energy use"	
location of the data	Final Energy Consumption: Eurostat – Energy Statistics, Simplified energy	
	balances	
	TABLE [nrg_bal_s] - Standard international energy product classification (SIEC)	
	"Total" – ENERGY BALANCE – "Final consumption - energy use"	
	UAA: Eurostat – Crop statistics (from 2000 onwards)	
	TABLE [core coch1] Chrystyre of production "Main area" CDODC "NAA"	

TABLE [$\underline{apro_cpsh1}$] – Structure of production – "Main area", CROPS – "UAA"

Forest area: Eurostat, Food and Agriculture Organization of the United Nations (FAO), Forest Europe (FE)

TABLE [for area] - INDIC_FO - Forests

	Context and Impact indicators		Deleted: Draft list of
	<u>1_October_2020_</u>		Deleted: for the PMEF
Data collection /	EU, National (NUTS 0).		Deleted: 28
dissemination level			Deleted: November
Frequency	Every year for energy statistics. Every 5 years for forest area (e.g. 2010, 2015) Every year for UAA crop statistics.).	Deleted: 19
Timeliness	2 years		
Comments/caveats	¥		Deleted: Germany has not reported data on direct use of energy in agriculture/forestry.

	Context and Impact indicators	Deleted: Draft list of
	1 October 2020	Deleted: for the PMEF
	Indicator I.10 Contribute to climate change mitigation:	Deleted: 28
INDICATOR C. 43	Reducing GHG emissions from agriculture	Deleted: November
Label as proposed by	Indicator I.10 Contributing to climate change mitigation:	Deleted: 19
the Presidency	Greenhouse gases (GHG) emissions from agriculture	
Indicator Name	Greenhouse gas emissions from agriculture	
	This indicator is composed of five specific indicators presenting anthropogenic	Deleted: two
	emissions and removals from agriculture and land use,	Deleted: It presents the cumulative value of the 5
	1. GHG emissions from agriculture	specific indicators:
	Aggregated annual emissions of methane (CH4) and nitrous oxide (N2O) from agriculture reported by Member States under the IPCC 'Agriculture' sector (Sector 3 Agriculture non-CO2) in the national greenhouse gas inventory submitted to the United Nations Framework Convention on Climate Change. That sector includes the following sources of greenhouse gases from agriculture: i. enteric fermentation (CH4); ii. manure management (CH4, N2O); iii. rice cultivation (CH4); iv. agricultural soil management (CH4, N2O, CO2), including burning of field residues, liming and application of C-containing fertilisers. These emissions are part of the binding emission reduction targets laid out under the Effort Sharing Regulation (Regulation 2018/842), and reporting on these emissions is mandatory under the Governance Regulation (Regulation 2018/1999).	Deleted: Sub-indicator 1)
	2. Share of and emissions from agriculture in total and emissions	
Definition	3. GHG emissions and removals from LULUCF Aggregated annual emissions and removals of carbon dioxide (CO2), and emissions of methane (CH4) and nitrous oxide (N2O) from cropland and grassland, reported by Member States under the IPCC Land Use, Land Use Change and Forestry (LULUCF) sector (cropland and grassland from sector 4 (LULUCF)) in the national GHG inventories to the UNFCCC. These emissions and removals are covered by the LULUCF Regulation (Regulation 2018/841), and reporting on these emissions and removals is mandatory under the Governance Regulation (Regulation 2018/1999). The LULUCF categories that are relevant to this indicator are those related to cropland and grassland management, as defined in the Implementing Act accompanying the Governance Regulation. This indicator does not include emissions of CO2 from the energy use of agricultural machinery, buildings and farm operations, which are included in the 'energy' inventory under UNFCCC, or emissions from production of inputs, such as inorganic fertilisers. 4. GHG emissions from agriculture including cropland and grassland Sum of GHG emissions from agriculture and GHG emissions and removals from	Deleted: Sub-indicator 2)
	5. Share of GHG emissions from agriculture including cropland and grassland in total GHG emissions	Deleted: ¶
	Methodology: Member States calculate emissions and removals using standard methodologies	Deleted: Change in the aggregate accounted emissions
	(2006 guidelines of the Intergovernmental Panel on Climate Change – IPCC, and its 2019 refinement) according to a common reporting framework agreed under the UNFCCC.	and removals from above mentioned categories.¶
Unit of measurement	1, 3, 4: Tonnes (Megatonnes) of CO2 equivalents per year for the absolute	Deleted: ¶
omt of measurement	value and % for the change compared to baseline,	Deleted: .

	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020.</u>	Deleted: for the PMEF
	2, 5: %	Deleted: 28
	The indicator is based on the annual national inventory submissions to the EU and subsequently the UNFCCC through the Monitoring Mechanism Regulation	Deleted: November
	(Regulation 2018/1999). This reporting framework moreover describes	Deleted: 19
Data source	requirements for monitoring and reporting under the Effort Sharing Regulation and LULUCF Regulation, e.g., Geospatial data sources for meeting IPCC approach 3 for LULUCF, such as services from the Copernicus programme, IACS/LPIS, LUCAS and others compliant with the INSPIRE directive. The inventory is compiled by each Member State, and then collated and quality-assured by the European Environment Agency (EEA) and the European Topic Centre for Air Pollution and Climate Change Mitigation (ETC/ACM).	Deleted: Relative emissions for sub-indicator 1 are reported as a percentage of the emissions in the reference year 2005, the baseline for Effort Sharing emissions. In the case of emissions and removals for sub-indicator 2, the change in net emissions is reported as a share% change to the average net emissions in the base period from 2005 to 2009, as defined in LULUCF Regulation 2018/841.
	 4. 2. GHG emissions from agriculture Annual EU GHG inventory, section 3, set out through Arts 26 and 37 of 	Deleted: 1)
	2018/1999	Deleted: ¶
	 Like all sectors, GHG emissions from agriculture are provided in 	Deleted: ,)
	Common Reporting Format (CRF) Tables which includes standard reporting tables (SRT)	7
	3: GHG emissions and CO2 removals from LULUCF (cropland and grassland)	Deleted: 2)
	Annual EU GHG inventory, (year X-2), sector 4 CO2, CH4 and N2O emissions from cropland and grassland are reported annually in CRF Tables—European Environment Agency (EEA), which includes standard reporting table (SRT) for sector 4 (LULUCF), set out through Arts 26 and 37 of 2018/1999. The reporting also has to take into account the MS compliance report as specified in the Article 14 of the LULUCF Regulation.	
References / location of the data	The full set of data on GHG emissions and removals (for both sectors 3 and 4), submitted by countries to the EU and subsequently the UNFCCC Governance regulations available at the EEA webpage: National emissions reported to the UNFCCC and to the EU Greenhouse Gas Monitoring Mechanism —European	
	Environment Agency (EEA), The web-based tool EEA GHG viewer provides access and analysis of the data	Deleted: ¶
	contained in the annual EU's GHG inventories since 1990. The EEA GHG data	
	viewer shows emission trends for the main sectors and allows for comparisons of emissions between different countries and activities. This data set can be consulted at:	
	http://www.eea.europa.eu/data-and-maps/data/data-viewers/greenhouse- gases-viewer	Polotodi (I
	Data are also published in the original format in which they were submitted to the UNFCCC:	Deleted: ¶
	https://unfccc.int/process-and-meetings/transparency-and-reporting/reporting-	
	and-review-under-the-convention/greenhouse-gas-inventories-annex-i-	
	parties/national-inventory-submissions-2019 The same data are also published in the UNFCCC database:	Deleted: ¶
	http://di.unfccc.int/time_series_	Deleted: ¶
	and the Eurostat database:	
Data collection /	http://ec.europa.eu/eurostat/product?mode=view&code=env_air_gge EU, National (NUTS 0),	Deleted: Data per Member State and for EU as a whole
Frequency	Data collected annually. Data are also recalculated annually for the whole time series due to update in coefficients or upgrading of Tiers. Therefore it is important to ensure an update of the whole time series each year this indicator is reported on.	
Timeliness	2 years	

Context and Impact indicators

1 October 2020

[Indication capacity] IPCC guidance allows countries to report GHG emissions and removals according to different tiers. For most agriculture and LULUCF emissions and removals, tier 1 is based on the use of activity data (e.g., agricultural production statistics) and global emission factors. Tier 2 follows the same approach but applies nationally defined emission factors. Tier 3 involves the use of models and higher order inventory data tailored to national circumstances. Member States are encouraged to improve GHG inventories towards higher tiers, in accordance with the 2006 IPCC Guidelines for National Greenhouse Gas Inventories, which would allow to reduce uncertainties and to design better targeted policies for decreasing emissions and increasing carbon sinks. The improvement of the inventories can be made more cost-effective by exploiting existing datasets (see 'Data sources').

Methodologies for GHG emission estimates should follow IPCC guidance, but need not be identical across Member States. In particular, when using lower tiers, GHG emission estimates might not capture the effects of all mitigation measures that are supported by the CAP, and therefore upgrading monitoring may in some cases be justified.

[Readily available] Data [from 1990 to 2017] are already submitted annually by MS and the EU. The European Union, as a party to the UNFCCC, reports annually on GHG inventories from the years 1990 to (N) for emissions and removals within the area covered by its Member States (i.e. domestic emissions taking place within its territory)

[Downscaling] Not applicable as regards lower spatial levels.

[Quality] MS can use different tiers, linked to the availability of more specific data and coefficients, for example with high detail on mitigation measures. The use of IPCC standard would anyway ensure comparability among sectors and MS. Thematic resolution can also be very important, e.g. animal subcategories, different farming systems etc.

[Baseline] Relative net emissions are reported as a percentage of the emissions in the reference year 1990 and 2005. The two reference years are both important for the contextualisation of emissions reduction in agriculture with EU policies. European Green Deal and the current framework policy consider targets referring to 1990; while in terms of implementation, particularly for non-CO2 emissions from livestock and soil management, is it also relevant to refer to 2005, as Member States set their reduction targets for the Effort Sharing Regulation sectors, of which agriculture is part, using 2005 as baseline. Specifically for LULUCF agricultural-related land categories cropland and grassland, reference year would be the average of emissions and removals in the reference period 2005-2009 (specific indicator 3), as defined in LULUCF Regulation 2018/841.

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Comments/caveats

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		Deleted: 28
	Indicator I.9 Improving farm resilience,	Deleted: November
Indicator C.44		Deleted: 19
<u>Label as proposed by the</u> <u>Presidency</u>	Indicator I.9 Improving the resilience of agriculture to climate change:	Deleted: : Index
	Agricultural sector resilience progress indicator	
Indicator Name	Agricultural sector resilience progress indicator	
Definition	(under definition/assessment)	Deleted: Index of farm resilience, Adaptation potential to climate change
Definition	The resilience of agriculture to climate change implies the capability to maintain functions and services of the sector in the face of extreme events through short-term adjustment of existing practices and management, and long-term transformational change, according to the duration and the intensity of climate disturbances. Several factors can have an effect on climate resilience, including financial, innovation, governance and biophysical factors.	
	The resilience indicator synthesizes progress of different components with an impact on resilience. The indicator will build on components already available in the current Common Monitoring and Evaluation Framework (CMEF), the future Performance Monitoring and Evaluation Framework (PMEF), and other sources, such as data from Eurostat and JRC, which, appropriately treated, can provide a proxy of how the overall resilience of agriculture is progressing.	
	The indicator will display the components positively contributing to	Deleted: % of
	resilience, for each MS. Relative progress toward resilience of each component will be defined by comparing the evaluation (programming) period to a reference period. The definition of the "progress level" compared to the reference period will depend on the nature and variation of each component and will be defined by JRC with appropriate methodology.	
	Initial set of components	
	Financial:	
	Risk management (R.5)Agricultural factor income (I.3)	
	Bio-physical components:	
	Water exploitation index plus (WEI+) (I.17) Soil organic carbon in agricultural land (I.11) Crop production stability (Eurostat) Crop diversification (Eurostat tbd)	
	The indicator illustrates progress in agriculture resilience in a simple way, while accounting for its different dimensions. It captures both the level of adaptation efforts (e.g. climate/environment investment support, advice and training), as well as effects on resilience (e.g. income stability, crop production stability).	
	* The references in brackets correspond to other PMEF indicators (e.g. R.5 corresponds to Risk management : share of farmers with CAP risks management tools) or to other existing sources of information	
	Agricultural sector resilience progress indicator = proportion of components exhibiting increased progress toward resilience	Deleted:

The components of the indicator have a value of 0 or 1.

A value of 1 is attributed to components that are progressing well towards the threshold or are already beyond the threshold; a value

	Contract and large at its float and	
	Context and Impact indicators	Deleted: Draft list of
	1 October 2020, of 0 is attributed otherwise.	Deleted: for the PMEF
	Progress is assessed compared to baseline reference levels, i.e. the	Deleted: 28
	previous programming period, longer period depending on data	Deleted: November
	availability, or baselines determined in the respective components indicator fiche. - Threshold value and the related methodology is defined by JRC component by component, based on the nature and values of the component.	Deleted: 19
	- The Indicator can have a maximum value of 100%	Deleted: ¶
Unit of measurement	Dimensionless.	
	The indicator value will correspond to the % of components contributing to resilience, i.e. having a value of 1.	
	The fiche will display both the synthetic value of the indicator and the improvement score (0 or 1) of all selected components.	
Data source	CAP CMEF and PMEF, JRC and Eurostat data.	
References / location of the data	CAP CMEF and PMEF, JRC and Eurostat data.	
Data collection / dissemination level	See the individual selected impact indicators	
Frequency	Beginning, mid and end of programming period.	
Timeliness	Corresponding to CAP PMEF, JRC and Eurostat data.	
Comments/caveats	[Indication capacity] Resilience depends on a large number of context specific factors, the selection of component is a subset of a larger number of factors. Elements such as training, participation to innovation schemes, the age structure, investments and others directly or indirectly linked with resilience of the sector can be taken in consideration.	
	It is important to recognize that a comprehensive assessment of the resilience would imply to describe dimensions such as i) Financial; ii) Governance; iii) Social and innovation and iv) Bio-physical. For some components, data is not readily available or data collection will only start with the new programming period. For this reason, the indicator will initially be based on components for which an assessment of the trend or a comparison with a reference period can be carried out. More components related to the financial, governance, social, innovation and bio-physical aspects of resilience would be included at a later stage when data will be available in order to build a more comprehensive picture of agriculture resilience. Those would include for instance: implementation of adaptation measures to climate change, investments related to care for the environment or climate and advice, training, related to environmental/climate performance.	
ı	This indicator provides a basic framework open to further development and selection of components.	
	It is also possible that the overall system resilience will depend on the 'weakest' factor, and careful analysis of the contributing factors and importance in the local context remains imperative. Systematic analysis of relationships between driving factors that enhance or weaken aspects of resilience may help refining the indicator in the local context.	
	The indicator fiche will display both the synthetic value of the indicator and	

Context and Impact indicators

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the direction of each component, giving the possibility to use the fiche as a resilience dashboard.

[Readily available] Directly depend on the readiness of the other components.

[Downscaling/aggregation] The indicator provides aggregated information on MS level, however where possible makes use of (sub-) regional information.

 $[\mbox{Quality}]$ Linked to the components, and the relative importance of these components for resilience aspects.

[Baseline] The situation at the start of the programming period, some of underlying indicators with large variability are based on longer (climate relevant) reference periods prior to the start of the programming period.

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INDICATOR C.45		
Direct agricultural loss attributed to disasters		
Indicator Name	(under definition/assessment)	
	This indicator measures the direct agricultural losses attributed to disasters.	
	It corresponds to a <u>subset of</u> the Sendai Monitoring Framework indicator C-2 which assesses the direct loss occurring in the agricultural sector as a result of disasters. It takes into consideration the specificities of each sub-sector, i.e. crops, livestock, forestry. It applies to disasters of various scales – from large-scale shocks to small and medium-scale events with a cumulative impact. It is calculated according to the following:	
	Impact to agriculture = C2C + C2L + C2FO	
Definition	Where: C-2C: Direct crop loss C-2L: Direct livestock loss C-2FO: Direct forestry loss	
	Each sub-sector is sub-divided into two main sub-components, production (loss from disasters on both production input and outputs) and assets (loss from disasters of facilities, machinery, tools, and key infrastructure). It takes into account losses (changes in economic flows arising from disasters, such as	
	reduction in output of crops, livestock_and_forestry); and replacement_or- recovery costs of totally or partially destroyed physical assets and stocks in disaster-affected areas. Source: https://www.preventionweb.net/files/54970_techguidancefdigitalhr.pdf	
Unit of measurement	USD (US dollar) by year	
Data source	Sendai Monitoring and Reporting Framework	
References / location	UNISDR: https://sendaimonitor.unisdr.org/	
of the data	Member States	
Data collection / dissemination level	EU, National (NUTS 0)	
Frequency	Annual	
Timeliness	N-1	
	The indicator is a subset of Sendai indicator C2, which records direct losses in aquaculture and fisheries in addition to crop, livestock and forestry. Member state who report on an aggregate C2 indicator under Sendai (thus including aquaculture and fisheries) should clearly mention it.	
Comments/caveats	A lag may exist in reporting data, depending on how soon the disaster losses are reported under Sendai. Appropriate information about data time reference should be provided.	
	23 EU MS have already engaged on reporting under this framework. To date, 13 EU MS have already reported economic losses in the agricultural sector due to disasters and 5 have already validated their data (HR, CZ, EE, IE, SE), i.e. made them public. This indicator has common ground with the one used for the EU	

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Deleted: C-2A: Direct aquaculture loss¶ C-2FI: Direct fisheries loss¶

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reporting on UN Sustainable Development Goals.

Context and Impact indicators,	Deleted: Draft list of	
<u>1 October 2020</u>	Deleted: for the PMEF	
	Deleted: 28	
	Deleted: November	
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	Context and Impact indicators	Deleted: Draft list of
	<u>1 October 2020</u>	Deleted: for the PMEF
INDICATOR C.46	Indicator I.14 Improving air quality:	eleted: 28
	Reduce ammonia emissions from agriculture	eleted: November
Label as proposed by the	Indicator I.14 Improving air quality:	Deleted: 19
Presidency	Ammonia emissions from agriculture	
Indicator Name	Ammonia emissions from agriculture	
Definition	This indicator measures total annual ammonia emissions (NH3) fro agriculture, considering manure management, as well as application fertilisers and manure to soils. It includes 2 specific indicators: 1. Total ammonia emissions 2. Change in ammonia emissions compared to 2005 Categories include ¹⁹ : Manure management • 3B1a - Manure management - Dairy cattle • 3B1b - Manure management - Non-dairy cattle • 3B2 - Manure management - Sheep • 3B3 - Manure management - Swine • 3B4a - Manure management - Buffalo • 3B4d - Manure management - Horses • 3B4f - Manure management - Horses • 3B4gi - Manure management - Laying hens • 3B4gii - Manure management - Laying hens • 3B4gii - Manure management - Turkeys • 3B4gii - Manure management - Other poultry • 3B4h - Manure management - Other poultry • 3B4h - Manure management - Other animals Application to soil • 3Da1 - Inorganic N-fertilisers (includes also urea application) • 3Da2a - Animal manure applied to soils • 3Da3 - Urine and dung deposited by grazing animals - Kilotonnes of NH3 per year	of
Unit of measurement	- % this is not clear now. It can also mean % of total emissions. Original was better, also because NECD base year is 2005	
Data source	The Member States report their total national emissions of NH3 every year the European Commission via the Member States national scale emission dai (EEA) reported under the existing requirements from the Directive on the reduction of national emissions of certain atmospheric pollutan (2016/2284/EU) ²⁰ , and collected at the European Environment Agency. The reported data is available through the EEA's website.	ta ne ts ne
References / location of the data	Annual data on ammonia emissions from agriculture is available at the EEA website. The information, broken down by Member State and sub-category, also provided through the web-based tool "Air pollutant emissions data view (NEC Directive)" https://www.eea.europa.eu/data-and-maps/dashboards/necddirective-data-viewer-1 or Eurostat's table on ammonia emission [Tai07]	is er <u>1-</u>
Data collection / dissemination level	EU, National (NUTS 0),	Deleted: Data per Member State and for EU as a whole
Frequency	Data collected annually. Data are recalculated annually for the whole tim series due to update in coefficients or upgrading of Tiers. Therefore it important to ensure an update of the whole time series <u>for</u> each year th indicator is reported on.	is

¹⁹ The codes used refer to the so-called NFR codes used for reporting under the UNECE Convention on Long Range Transboundary Air Pollution (LRTAP)

20 The Directive on the reduction of national emissions of certain atmospheric pollutants (2016/2284/EU), also referred to as the (new) NEC, came into force in 2016 and sets national emission reduction targets for SO₂, NO_x, NMVOC, PM_{2.5} and NH₃, for 2020 and 2030.

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Timeliness	One year (Member States shall report on the emissions in year Y no later t February of year Y + 2).	
Timemess	Projections covering 2020, 2025, 2030 and where available 2040 and 20 shall be reported by the Member States to the EEA on a biennial basis.	Deleted: November
	[Indication capacity:] Data are able to show emission trends over time compare trends among Member States, and the distance to National Emiss Ceilings ²¹ (NEC). Also, it is able to show differences in the subcategories, s as identifying main sources within the agricultural sector within a coun although these can be strongly dependent on the Tier used. Absolute values not fully comparable, due to the different Tiers available for use.	sion uch try,
	[Readily available:] Data are already submitted by MS every year.	Deleted: ed
Comments/caveats	[Downscaling:] National emission reporting (NECD; <u>UNECE/CLTAP</u> Gothenb Protocol) follows recommendations of the 2016 EMEP/EEA air pollutant emissinventory guidebook, with 3 Tiers: Tier 1 (standard emission factors), Tie (based on Total Ammonia Nitrogen (TAN) flows), Tier 3 (more sophistical approaches, modelling, which can include spatial information on implementation of specific abatement measures). Evaluation of impacts of pollution of NH3 emissions, requires spatial information in conjunction with models. Science based gridded emission inventories, and gridded invento from some MS are available. Satellite observations of NH3 provide ropportunities to derive spatial information. [Quality:] The use by MS of Tier 1 approaches may prevent tracking progrand policy effectiveness when using MS inventory information. Improvement	sion er 2 sted the a air with ries new
	such as on manure spreading methods or in productivity of milk, should detected. Along with inventory MS submit an Informative Inventory Rep (IIR). To link NH3 emission improvement to CAP, detailed information on who measures have been implemented, implementation rate (# livestock or m2 UAA affected) are necessary, as well as improvement in emission factors.	port nich

Air Quality Directive consider the % of reduction from 2005. The same year can be proposed for the impact indicator.

This indicator is also used for the EU reporting on UN Sustainable Development Goals.

[Baseline:] Data on emissions of air pollutants, including ammonia, are available for every year, giving the possibility to define baselines. Collection of these data is required under the reporting regime in the Directive on the reduction of national emissions of certain atmospheric pollutants

(2016/2284/EU) and will not add any additional administrative burden for

²¹ The absolute national emission ceilings will be replaced by (relative) national reduction targets in 2020.

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INDICATOR C.47	Indicator I.26 Limiting antibiotic use in agriculture:	eleted: 28
INDICATOR C.47	Sales/use in food producing animals	eleted: November
Label as proposed by	Indicator I.26 Limiting antimicrobials use in farmed animals:	Deleted: 19
the Presidency	Sales/use of antimicrobials in food producing animals	
Indicator Name	Antimicrobials sales in food producing animals	
Definition	This indicator refers to action to improve the response of EU agriculture to societa demands on food and public health such as fighting antimicrobial resistance (AMR), promoting production of safe, nutritious and sustainable food, as well as anima welfare. - Data available per calendar year for any given year by MS ²² - Provided by total sales of veterinary medicinal products containing antimicrobial substances - Per species of food-producing animals	
Unit of measurement	Sales of antimicrobial substances, (product package level), corrected by a Population Correction Unit (PCU).	1
Data source	European Surveillance of Veterinary Antimicrobial Consumption (ESVAC) project, started by the European Medicines Agency (EMA) upon a request from the EC in 2009 to develop a harmonised approach for the collection and reporting of data or the use of antimicrobial agents in animals from EU Member States. Data is collected on a voluntary basis on sales of antimicrobial veterinary medicina products (VMP) at package level from the EU Member States (MSs), EEA countries and Switzerland.	
References / location of the data	EU Action plan on antimicrobial resistance 2017 https://ec.europa.eu/health/sites/health/files/antimicrobial resistance/docs/amr-2017-action-plan.pdf ESVAC interactive database https://bi.ema.europa.eu/analyticsSOAP/saw.dll?PortalPages ESVAC Annual Reports http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/document_listing_000302.jsp#annual	Deleted: https://ec.europa.eu/health/amr/sites/amr/fles/amr_action_plan_2017_en.pdf
Data collection / dissemination level	EU, National (NUTS 0), European Economic Area (EEA)	Deleted: -MS
Frequency	Annual, from 2010 onwards	
Timeliness	2 years	
Comments/caveats	 One of the three pillars of the new European One Health Action Plan against AMR (2017) includes as key objective making the EU a best practice region in the fight against AMR, consolidating surveillance of AMR and antimicrobial consumption. Long term objective is the responsible and prudent use of antimicrobials (prevention/reduction) Stratification factors are used to calculate use data from the sales data according to target species for the different VMPs with more than one target specie; this is a pilot project within 5 MS, to be developed in the future. Once the new Regulation on veterinary medicinal products is to be applied (beginning 2022), all MS are obliged to start collecting data on sales and use of antimicrobials at farm level²³ in a stepwise approach for different species.²⁴ 	

²³ Malta did not contribute to the recent published data till 2017, ESVAC is till now a voluntary project
²³ Article 57 in New Veterinary Medicinal Product Regulation: "Member States shall collect relevant and comparable data on the volume of sales and the use of antimicrobial medicinal products used in animals, to enable in particular the direct or indirect evaluation of the use of such products in food-producing animals at farm level "

^{...} ²⁴ Article in New Veterinary Medicinal Product Regulation: "Member States shall be allowed to apply a progressive stepwise approach regarding the obligations set out in this Article."

	Context and Impact indicators	Deleted: Draft list of
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	Indicator I.27 Sustainable use of pesticides:	eleted: November
Indicator C.48	Reduce risks and impacts of pesticides	eleted: 19
Label as proposed by	Indicator I.27 Sustainable use of pesticides:	Deleted: ——Page Break———
the Presidency	Risks and impacts of pesticides	
Indicator Name	Risk and impacts of pesticides	
	The Harmonised Risk indicator, refers to the risk associated with pesticides ar	nd Deleted: is indicator
	is based on European Statistics on the placing on the market of pesticides. indicator is available at EU and MS level.	
Definition	Sales data collected by Eurostat are categorised and weighted based on regulatory status of the active substances under Regulation (EC) No 1107/20. The resulting weights are aggregated according to the Commission Directive (2019/782 resulting in a harmonised, EU wide indicator.	009.
	NB: All references to pesticides refer to plant protection products only. Bioc are included in the term pesticides, but data on biocides are not included in indicator.	
Unit of management	Index based on annual volumes of active substances placed on the market multiplied by the relevant weighs	Palatadu ting
Unit of measurement	(100 - average for the period 2011-2013)	Deleted: ting Deleted: Baseline: Index
Data source	Methodology for categorisation and weighting is based on the definition in An IV to the Directive 2009/128/EC (adopted by the Commission in May 2019)	Deleted: calculated
	Eurostat – Statistics on the placing on the market (sales) of pesticides table	Deleted: as
Deferences / leasting of	[aei fm salpest09	
References / location of the data	https://ec.europa.eu/eurostat/cache/metadata/en/aei fm salpest09 esms.htm	
	The indicator at EU level published <u>here</u> .	Deleted: :
	The indicator at MS level is published by each MS <u>here</u> .	
Data collection / dissemination level	EU, National (NUTS 0)	
Frequency	Annual	
Timeliness	2 years (at the latest 20 months after the end of the year for which the Harmonised Risk Indicator is being calculated)	Deleted: '
Comments/caveats	The indicator is based on of the quantities of active substances sold in pestic each year. Active substances are classified in 4 groups and 7 categories according to An IV to the Directive 2009/128/EC. A weighting is developed for each groups and of active substances are multiplied for the respective weighting order to calculate a harmonised index which can be monitored over time. This indicator is also used for the EU reporting on UN Sustainan Development Goals. Moreover, Harmonised risk indicator is used as measurement for the first pesticide target under the Farm to Farategy, i.e. overall reduction of use and risk from chemical pesticide pesticide target under the strategy.	Deleted: A second indicator based on authorisations granted for plant protection products under Article 53 of Regulation (EC) No 1107/2009 (authorisations for emergency situations in plant protection) and weighted
	by 50% by 2030, however using a baseline of 2015-2017.	in the same way as above has also been adopted.¶

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INDICATOR I.1	Indicator I.1 Sharing knowledge and innovation	eleted: 28
Label as proposed by	Indicator 1.1 Sharing knowledge and innovation.	Deleted: November
the Presidency	Share of CAP budget for knowledge sharing and innovation	Deleted: 19
Indicator Name	Share of CAP budget for knowledge sharing and innovation	
Definition	Share of CAP budget for knowledge sharing and innovation	
	The main purpose of this index is to measure efforts for fostering innovation and knowledge sharing, as required under the cross-cutting objective on modernisation. The impact of knowledge and innovation will be resulting from the efforts made under the part of the CAP strategic plans related to Agricultural Knowledge and Innovation Systems (Art 102), and under the relevant articles of the sectorial programmes (e.g. Art 43(1)(b), (o) and (p). Article 43(2)(h) and (k)).	
	Through its components it captures as well various types of knowledge creation (EIP Operational Group innovation projects and other interactive innovation projects, and/or multi-actor research under sectorial POs and experimental production) as well as knowledge exchange/sharing dimensions: knowledge exchange and advice, demonstration activities, actions to enhance the exchange of needs of farmers and the sharing of existing knowledge. In particular, it is expected that the cross-cutting objective on modernisation will incentivise multi-actor creation of new knowledge where needed, for instance through organising various types of encounters and knowledge sharing between AKIS actors such as farmers, advisors, researchers etc. with the help of the innovation strand of the CAP networks.	
	"Experimental production" production is used in sectoral legislation and corresponds to a specific intervention which can be undertaken by Producers' Organisations (POs) in the F&V sector (Art. 43(1)(b)), or in 'other sectors' (Article 60(1)(a)). Experimental production may concern new varieties / more environmental friendly practices / digitised production, etc. and is usually carried out by research units of POs in greenhouses or open field as a test before production.	
	For wine, the wording of Art 52.1.e is slightly different ("investments in innovation"). For apiculture too, art 49.1.f ("implementation of research programs") for example.	
	Methodology/formula: Calculation based on annual financial transactions.	
Unit of measurement	Share of CAP expenditure dedicated to knowledge exchange and information: • interventions under Article 72 (knowledge exchange and information),	
	 e.g. use of advice by farmers; training of advisors; cross-visits for advisors; knowledge exchange activities between advisors, CAP networks and research working together; setting up and implementing of EIP OG innovative projects etc.) innovative projects of EIP operational groups (interventions funded under Article 71 according to specific requirements detailed in Art 114) 	
	Support to research, innovation and experimental production through PO's Operational Programmes and experimental production (Art 43(1)(b), (o) and (p). Article 43(2)(h) and (k), Art 52(1)(e))	
Data source	Annual expenditure	
References / location of the data	DG AGRI (Annual Performance Reports)	

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Data collection /	National (NUTS 0)		Deleted: 28
dissemination level			Deleted: November
Frequency	Annual		Deleted: 19
Timeliness	One year		Deleted: Member State
Comments/caveats			

	Context and Impact indicators	Deleted: Draft list of
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INDICATOR I.24	Indicator I.24 A fairer CAP	Deleted: 28
Label as proposed by the	Indicator I.24 A fairer CAP:	Deleted: November
Presidency	<u>Distribution of CAP support</u>	Deleted: 19
Indicator Name	Distribution of CAP support	
Definition	The indicator is composed by two specific indicators: 1. Share of support received by 20% of the largest beneficiaries of the CAP; 2. Interquartile range of CAP support by beneficiary. The main purpose of this indicator is to check the fairness of support distribution. It measures notably the impact of the redistributive payment to small and medium size farms, capping, degressivity,	
	Methodology/formula: Distribution analysis based on the ranked level of income support per beneficiary CAP support included: all direct payments, payment for natural or other area-specific constraints and payment for area specific disadvantages – Natura 2000 and Water framework directive.	
Unit of measurement	<u>1:</u> %	Deleted: for the share
	2: EUR/beneficiary	Deleted: for the interquartile range
Data source	Member States' operations database	
References / location of the data	tbd	
Data collection / dissemination level	National (NUTS 0)	Deleted: Member States
Frequency	Annual	
Timeliness	1-2 years	
Comments/caveats	For the calculation, individual data (at anonymised beneficiary level) is necessary.	
	A unique identifier of beneficiaries is required.	