

ANNEX I
referred to in Article 3

**METHODOLOGY FOR CALCULATING PROGRESS TOWARDS ACHIEVING
THE TWO UNION AND TWO NATIONAL 2030 REDUCTION TARGETS**

In the Farm to Fork Strategy, the Commission committed to take action to (a) reduce by 50% the overall use and risk from chemical pesticides by 2030 ('Union 2030 reduction target 1') and (b) reduce by 50% the use of more hazardous pesticides by 2030 ('Union 2030 reduction target 2'). This regulation regulates the contribution of each Member State to these Union targets. Each Member State contribution, set in the form of a national target, to Union 2030 reduction target 1 is referred to as a 'National 2030 reduction target 1', while a Member State contribution to Union 2030 reduction target 2 is referred to as a 'National 2030 reduction target 2'. The methodology for calculating progress towards achieving these targets is set out below:

SECTION 1

**Union 2030 reduction target 1 and National 2030 reduction target 1: methodology for
estimating progress towards the reduction in use and risk of chemical plant protection
products**

1. The methodology shall be based on statistics on the quantities of chemical active substances placed on the market in plant protection products under Regulation (EC) No 1107/2009, provided to the Commission (Eurostat) under Annex I to Regulation (EC) No 1185/2009 of the European Parliament and of the Council¹.
2. The following general rules shall apply for the calculation of progress towards achieving reduction target 1:
 - (a) progress shall be calculated on the basis of the categorisation of chemical active substances into the 4 groups set out in the Table in this Annex;
 - (b) the chemical active substances in group 1 shall be those listed in Part D of the Annex to Commission Implementing Regulation (EU) No 540/2011²;
 - (c) the chemical active substances in group 2 shall be those listed in Parts A and B of the Annex to Implementing Regulation (EU) No 540/2011;
 - (d) the chemical active substances in group 3 shall be those listed in Part E of the Annex to Implementing Regulation (EU) No 540/2011;
 - (e) the chemical active substances in group 4 shall be those not approved under Regulation (EC) No 1107/2009, and therefore not listed in the Annex to Implementing Regulation (EU) No 540/2011;
 - (f) the weightings in row (iii) in the Table in this Annex shall apply.

¹ Regulation (EC) No 1185/2009 of the European Parliament and of the Council of 25 November 2009 concerning statistics on pesticides (OJ L 324, 10.12.2009, p. 1).

² Commission Implementing Regulation (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards the list of approved active substances (OJ L 153, 11.6.2011, p. 1).

3. Progress towards achieving reduction target 1 shall be calculated by multiplying the annual quantities of active substances in plant protection products placed on the market for each group in the Table in this Annex by the relevant hazard weighting set out in row (iii), followed by the aggregation of the results of these calculations.

Table

Categorisation of active substances and hazard weightings for the purpose of calculating progress towards Union 2030 reduction target 1 and national 2030 reduction target 1

Row	Groups			
	1	2	3	4
(i)	Low-risk chemical active substances which are approved or deemed to be approved under Article 22 of Regulation (EC) No 1107/2009, and which are listed in Part D of the Annex to Implementing Regulation (EU) No 540/2011	Chemical active substances approved or deemed to be approved under Regulation (EC) No 1107/2009, and not falling in other categories, and which are listed in Parts A and B of the Annex to Implementing Regulation (EU) No 540/2011	Chemical active substances that are approved as candidates for substitution in accordance with Article 24 of Regulation (EC) No 1107/2009.	Chemical active substances which are not approved under Regulation (EC) No 1107/2009, and therefore which are not listed in the Annex to Implementing Regulation (EU) No 540/2011
(ii)	Hazard Weightings applicable to quantities of chemical active substances placed on the market in products authorised under Regulation (EC) No 1107/2009			
(iii)	1	8	16	64

4. The baseline for reduction target 1, at both Union and national levels, shall be set at 100, and is equal to the average result of the above calculation for the period 2015-2017.
5. The progress towards achieving reduction target 1, at both Union and national levels, shall be expressed by reference to the baseline.
6. The Commission shall calculate the progress towards achieving reduction target 1, at both Union and national levels, in accordance with Article 32 of this Regulation for each calendar year and at the latest 20 months after the end of the year for which progress towards the reduction target 1 is being calculated.

SECTION 2

Union 2030 reduction target 2 and National reduction target 2: methodology for estimating progress towards reduction in the use and risk of the more hazardous plant protection products

1. The methodology shall be based on statistics on the quantities of active substances placed on the market in plant protection products under Regulation (EC) No 1107/2009, provided to the Commission under Annex I to Regulation (EC) No 1185/2009.
2. Progress towards achieving target 2, at both Union and national levels, shall be calculated by adding together the annual quantities of chemical active substances contained in more hazardous plant protection products placed on the market each year.
3. The baseline for reduction target 2, at both Union and national levels shall be set at 100, and is equal to the average result of the above calculation for the period 2015-2017.
4. Progress towards achieving reduction target 2, at both Union and national levels, shall be expressed by reference to the baseline.
5. The Commission shall calculate progress towards achieving reduction target 2, at both Union and national levels, in accordance with Article 34(2) of this Regulation for each calendar year and at the latest 20 months after the end of the year for which progress towards reduction target 2 is being calculated.

SECTION 3

Union Reduction Targets

1. The methodology for calculating trends towards the two Union 2030 reductions targets shall be the same as the methodology for calculating trends at national level as set out in Sections 1 and 2.
2. The trend at national level will be calculated using national statistics on the quantities of chemical active substances as defined in point 5 of Article 2 placed on the market in plant protection products under Regulation (EC) No 1107/2009, provided to the Commission under Annex I (Statistics on the placing on the market of pesticides) to Regulation (EC) No 1185/2009.
3. The trend at Union level will be calculated using Union statistics on the quantities of chemical active substances as defined in point 5 of Article 2 placed on the market in plant protection products under Regulation (EC) No 1107/2009, provided to the Commission under Annex I (Statistics on the placing on the market of pesticides) to Regulation (EC) No 1185/2009.

ANNEX II

DATA TO BE PROVIDED IN ANNUAL PROGRESS AND IMPLEMENTATION REPORTS

Part 1: Annual trends in progress towards achieving national 2030 reduction targets

1. by year N + 20 months, whereas year N may be prior to the date of application of this Regulation, the trends in a Member State's progress towards achieving the two national 2030 reduction targets between the baseline period of the average of the years 2015-2017 and year N;
2. each Member State shall update the trends in progress on an annual basis in its annual progress and implementation reports;
3. all other national indicative targets indicated in Article 9(2) and (4).

Part 2: All other quantitative data relevant to implementation of this Regulation and level of compliance with it³

Use of plant protection products:

1. the percentage of professional users controlled for integrated pest management implementation;
2. the percentage of professional users failing to comply with the obligation to keep electronic records on integrated pest management implementation;
3. the percentage of professional users that failed to comply with the obligation to keep pesticide use data electronically;
4. the number of aerial application derogations, the validity period of the derogation, as well as the size and the location of the areas concerned, and reasons for the derogation granted;
5. the percentage of utilisable agricultural areas and other areas covered by aerial application derogations;
6. the number of derogations for use of plant protection products in sensitive areas;
7. the percentage of utilisable agricultural area and other areas covered by derogations for use of plant protection products in sensitive areas;
8. the estimated quantities of illegal plant protection products used and the quantities of illegal plant protection products detected;
9. whether Member States have applied derogations allowing for
 - (a) different inspection requirements to application equipment in professional use that represents a very low scale of use, or
 - (b) exemptions from inspection for handheld application equipment or knapsack sprayers, in professional use.

Training and advisory services:

³ This data is to be provided by N + 6 months after the relevant year N in accordance with Article 10.

10. the percentage of professional users, advisers and distributors trained in the topics listed in Annex IV and holding a training certificate under Article X, broken down by professional user, advisers and distributors;
11. the percentage of professional users that fail to comply with the obligation to use independent advisory services at least once a year.

Application equipment in professional use:

12. the estimated percentage of application equipment in professional use registered on the electronic register of application equipment in professional use;
13. the percentage of registered application equipment in professional use and due for inspection that has been inspected
14. the percentage, at time of inspection, of application equipment in professional use fitted with risk mitigation devices.

Member State further measures to implement integrated pest management:

15. the percentage of utilisable agricultural area in each Member State that is covered by crop-specific rules that have been made legally binding under national legislation.

ANNEX III

TRAINING SUBJECTS REFERRED TO IN ARTICLE 25

1. All relevant legislation regarding plant protection products and their use and risk and in particular this Regulation. While not exclusive, the following legislation is relevant:

Regulation (EC) No 1107/2009 of the European Parliament and of the Council⁴

Regulation (EC) No 396/2005 of the European Parliament and of the Council⁵

Regulation (EU) No 528/2012 of the European Parliament and of the Council⁶

Regulation (EC) No 1185/2009 of the European Parliament and of the Council⁷

Regulation EC No 1272/2008 of the European Parliament and of the Council⁸

Regulation (EU) 2017/625 of the European Parliament and of the Council⁹

Regulation (EU) 2021/2115 of the European Parliament and of the Council¹⁰

Directive 2009/127/EC of the European Parliament and of the Council¹¹

Directive 2000/60/EC of the European Parliament and of the Council¹²

Directive 89/391/EEC¹³

⁴ Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC (OJ L 309, 24.11.2009, p. 1).

⁵ Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC (OJ L 70, 16.3.2005, p. 1).

⁶ Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products (OJ L 167, 27.6.2012, p. 1).

⁷ Regulation (EC) No 1185/2009 of the European Parliament and of the Council of 25 November 2009 concerning statistics on pesticides (OJ L 324, 10.12.2009, p. 1).

⁸ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353, 31.12.2008, p. 1).

⁹ Regulation (EU) 2017/625 of the European Parliament and of the Council of 15 March 2017 on official controls and other official activities performed to ensure the application of food and feed law, rules on animal health and welfare, plant health and plant protection products, amending Regulations (EC) No 999/2001, (EC) No 396/2005, (EC) No 1069/2009, (EC) No 1107/2009, (EU) No 1151/2012, (EU) No 652/2014, (EU) 2016/429 and (EU) 2016/2031 of the European Parliament and of the Council, Council Regulations (EC) No 1/2005 and (EC) No 1099/2009 and Council Directives 98/58/EC, 1999/74/EC, 2007/43/EC, 2008/119/EC and 2008/120/EC, and repealing Regulations (EC) No 854/2004 and (EC) No 882/2004 of the European Parliament and of the Council, Council Directives 89/608/EEC, 89/662/EEC, 90/425/EEC, 91/496/EEC, 96/23/EC, 96/93/EC and 97/78/EC and Council Decision 92/438/EEC (Official Controls Regulation) (OJ L 95, 7.4.2017, p. 1).

¹⁰ Regulation (EU) 2021/2115 of the European Parliament and of the Council of 2 December 2021 establishing rules on support for strategic plans to be drawn up by Member States under the common agricultural policy (CAP Strategic Plans) and financed by the European Agricultural Guarantee Fund (EAGF) and by the European Agricultural Fund for Rural Development (EAFRD) and repealing Regulations (EU) No 1305/2013 and (EU) No 1307/2013 OJ L 435, 6.12.2021, p. 1).

¹¹ Directive 2009/127/EC of the European Parliament and of the Council of 21 October 2009 amending Directive 2006/42/EC with regard to machinery for pesticide application (OJ L 310, 25.11.2009, p. 29).

¹² Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy (OJ L 327, 22.12.2000, p. 1).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council¹⁴

Directive 2008/68/EC of the European Parliament and of the Council¹⁵

2. The existence and risks of illegal and counterfeit plant protection products, the methods to identify such products, and the penalties associated with sale or use of illegal plant protection products.
3. The hazards and risks associated with plant protection products, and how to identify and control them, including the following subjects:
 - (a) risks to human health ;
 - (b) symptoms of plant protection product poisoning and appropriate first aid measures in case of such poisoning;
 - (c) risks to non-target plants and insects, wildlife, biodiversity and the environment in general.
4. Integrated pest management strategies and techniques, integrated crop management strategies and techniques, organic farming principles, biological pest control methods, harmful organism control methods, the obligation to apply integrated pest management as set out in Articles 12 and 13 of this Regulation, and the obligation to enter records in the electronic integrated pest management and plant protection product use register, as set out in Article 16 of this Regulation.
5. When plant protection products are needed, how to choose the plant protection products with the least side effects on human health, non-target organisms and the environment among all authorised products for a given pest problem, in a given situation.
6. Measures to minimise risks to humans, non-target organisms and the environment, including:
 - (a) safe working practices for storing, handling and mixing plant protection products;
 - (b) safe working practices for disposing of empty packaging, other contaminated materials and surplus plant protection products (including tank mixes), whether in concentrate or dilute form;
 - (c) the recommended way to control operator exposure (including personal protection equipment).
 - (d) information on the correct and safe disposal of old and obsolete plant protection products.

¹³ Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work (OJ L 183, 29.6.1989, p. 1).

¹⁴ Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (OJ L 396, 30.12.2006, p. 1).

¹⁵ Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the

inland transport of dangerous goods (OJ L 260, 30.9.2008, p. 13).

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7. Procedures for preparing application equipment for operation, including its calibration, with minimum risks to the user, other persons, non-target animal and plant species, biodiversity and the environment, including water resources.
8. Practical training on the use of application equipment and its maintenance, and on risk mitigation measures including specific spraying techniques, use of new technology including precision farming techniques, as well as the technical check of sprayers in use and ways to improve spray quality. In this subject special attention shall be paid to the drift-reduction nozzles and the recommendations made by the manufacturers concerning optimal conditions of their use. Specific risks linked to use of handheld application equipment or knapsack sprayers and the relevant risk management measures. Practical training shall also cover the specific risks linked to the sowing of seeds treated with plant protection products.
9. Emergency action to protect human health and the environment, including water resources in case of accidental spillage and contamination and extreme weather events that would result in plant protection products leaching risks.
10. Special care in sensitive areas as defined in Article 2(18) of this Regulation and protection areas established under Articles 6 and 7 of Directive 2000/60/EC and an awareness of contamination caused by particular plant protection products in their respective region.
11. Health monitoring and access facilities to report on any poisoning incidents or suspected poisoning incidents.
12. Record keeping of the sale, purchase and use of plant protection products, in accordance with the relevant legislation.
13. How to minimise or eliminate applications of certain plant protection products classified as “harmful to aquatic life with long lasting effects”, “very toxic to aquatic life with long lasting effects” or “toxic to aquatic life with long lasting effects” pursuant to Regulation (EC) 1272/2008 on or along roads, railway lines, very permeable surfaces or other infrastructure close to surface water or groundwater or on sealed surfaces with a high risk of run-off into surface water or sewage systems.
14. In order to protect the aquatic environment and drinking water supplies from the impact of plant protection products, Member States shall ensure that mandatory training of professional users and advice to professional users in accordance with Article 20 includes all the following subjects:
 - (a) the use of plant protection products in accordance with the restrictions indicated on the label in accordance with Article 31, point (4)(a) of Regulation (EC) No 1107/2009, while giving preference to plant protection products that are not classified as “(very) persistent”, “(very) bioaccumulative”, “very toxic to aquatic life with long lasting effects”, “toxic to aquatic life with long lasting effects” or “harmful to aquatic life with long lasting effects” pursuant to Regulation (EC) No 1272/2008¹⁶ or containing priority substances included in the list adopted by the Commission in accordance with Article 16

¹⁶ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353, 31.12.2008, p. 1).

of Directive 2000/60/EC implemented via Directives 2008/105/EC and 2013/39/EU, or pesticides having been identified as river basin specific pollutants under Annex V, point 1.2.6 WFD, in particular those affecting water used for the abstraction of drinking water in accordance with Article 7 of Directive 2000/60/EC and Directive (EU) 2020/2184;

- (b) potential hazards of and risks for human health and the environment from the use of plant protection products, as well as methods to minimise emissions to the environment and occupational exposure to more hazardous plant protection products
- (c) use of drift reducing technology in all field crops;
- (d) use of other mitigation measures which minimise the risk of off-site pollution caused by spray drift, drain-flow and run-off, including in particular mandatory buffer zones adjacent to surface waters courses and groundwater and aquifers;
- (e) how to comply with restrictions set out in Regulation 1107/2009 for minimising or substituting uses of the plant protection products classified as “harmful to aquatic life with long lasting effects”, “very toxic to aquatic life with long lasting effects” or “toxic to aquatic life with long lasting effects” pursuant to Regulation (EC) No 1272/2008 [?] on or along roads, railway lines, very permeable surfaces or other infrastructure close to surface water or groundwater or on sealed surfaces with a high risk of run-off into surface water or sewage systems.

ANNEX IV

INSPECTION OF APPLICATION EQUIPMENT

The inspection of application equipment shall cover all aspects important to ensure a high level of safety and protection of human health and the environment. Full effectiveness and safety of the application operation should be ensured by proper performance of any device or apparatus of the equipment to guarantee the following objectives are met.

The application equipment must function reliably and be used only in accordance with its manual of operation for its intended purpose ensuring that plant protection products can be accurately applied in line with good agricultural practice (GAP) as defined in Article 3(2), point (a), of Regulation (EC) 396/2005 of the European Parliament and the Council¹⁷.

The equipment must be in such a condition to allow it to be filled and emptied safely, easily and completely and to prevent any leakage of either spray solution or concentrated product. It must permit easy and thorough cleaning. It must also allow for safe operation, and be capable of being immediately stopped from the position of the operator. It must be simple to perform any necessary adjustments. Such adjustments must be accurate and capable of being reproduced.

During inspection, compliance with the following requirements shall be checked:

1. Safety

The equipment shall be clean and safe before the inspection starts. The following shall be checked:

- the power take off driveshaft guard and all protective devices for the power take off and other rotating power transmission parts,
- leakage from the hydraulic system and general condition of hydraulic cylinders and pipes,
- safety and functioning of all electrical parts, including solenoid switches,
- functioning of safety valves,
- condition of structural parts, framework, and booms/nozzle holders,
- locking of foldable parts, and
- the guarding and condition of the blower (in case of an equipment with air-assistance).

2. Leakage

Both in stationary and working conditions there shall be no leakage or dripping from any part of the equipment. There shall be no dripping or unintended application after the equipment has been switched off. For equipment to apply liquid products there shall be no leakages from pipes or hoses when running at the maximum obtainable

¹⁷ Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC (OJ L 70, 16.3.2005, p. 1).

pressure for the system and no liquid shall be applied directly on or to the sprayer itself.

3. Pump (for equipment used to apply liquid products)

The pump capacity shall be suited to the needs of the application equipment and the pump must function properly in order to ensure a stable and reliable application rate.

4. Agitation or mixing (for equipment to apply liquid products)

Agitation or mixing devices must ensure a proper recirculation in order to achieve an even concentration of the whole volume of the liquid spray mixture in the tank.

5. Spray liquid tank/hopper

Spray tanks and hoppers including filling level indicators, filling devices, strainers and filters, emptying and rinsing systems and mixing devices shall operate in such a way as to minimise accidental spillage, uneven concentration distribution, operator exposure and residual content.

6. Measuring systems, control and regulation systems

All devices for measuring, switching on and off and adjusting pressure and/or flow rate shall be properly calibrated and work correctly. The controls to be operated during the application operation shall be operable from the operator's position, the necessary instruments to control the operation shall be present and accurate and the instrument displays shall be readable from the operators position. For equipment to apply liquid products, pressure adjustment devices shall maintain a constant working pressure at constant revolutions of the pump, in order to ensure that a stable volume application rate is applied. Additional equipment to dose or inject plant protection products shall function accurately and correctly.

7. Pipes and hoses

Pipes and hoses shall be in properly functioning condition to avoid disturbance of product flow or accidental spillage in case of failure. Pipes and hoses shall not be kinked, excessively worn or in a position which would allow stretching.

8. Filtering (for equipment to apply liquid products)

In order to avoid turbulence and heterogeneity in spray patterns, filters shall be present and in good condition and the mesh size of the filters shall correspond and be appropriate to the size of nozzles fitted on the sprayer. Where applicable the filter blockage indication system shall operate correctly.

9. Spray boom (for equipment applying plant protection products by means of a horizontally or vertically positioned boom, located close to the crop or the material to be treated).

The boom must be in good condition and stable in all directions. The fixation and adjustment systems and the devices for damping unintended movements and slope compensation must work correctly.

10. Nozzles/outlets (for equipment to distribute liquid products)/ Outlets (for solid products)

Nozzles and outlets must work properly. The flow rate of each individual nozzle and outlet shall not deviate significantly from the data of the flow rate tables provided by the manufacturer.

11. Distribution

Where relevant, the longitudinal, transversal and vertical (in case of applications in vertical crops) distribution of the product in the target area must be even.

12. Blower (for equipment distributing plant protection products by air assistance)

The blower must be in good condition and must ensure a stable and reliable air stream.

13. Cleaning

If present, the rinsing/cleaning systems for emptied containers, e.g. fitted on induction bowls of application equipment, shall work reliably. Moreover, if provided, tank cleaning devices, devices for external cleaning, devices for cleaning of induction hoppers and devices for the internal cleaning of the complete application equipment shall function correctly.

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ANNEX V

NOTIFICATION FORM

Reason for notification (Please tick)

New equipment or first registration of equipment

Removal from use

Change of ownership

Return to use

Current owner

Name:

Unique personal / company identifier:
(Tax Number)

Address 1:

Address 2:

Occupation:
(Farmer, Landscaper, Contractor, other please specify)

Address 3:

Address 4:

Country:

Previous owner if applicable

Name:

Address 1:

Address 2:

Address 3:

Address 4:

Country:

Pesticide application equipment type (Please tick most appropriate)							
Boom sprayer	<input type="checkbox"/>	Orchard sprayer	<input type="checkbox"/>	Fogger (cold & hot)	<input type="checkbox"/>	Seed dresser	<input type="checkbox"/>
Granule applicator	<input type="checkbox"/>	Mist blower	<input type="checkbox"/>	Vapour generator	<input type="checkbox"/>	Vertical sprayer	<input type="checkbox"/>
Aircraft (winged)	<input type="checkbox"/>	Aircraft (rotor)	<input type="checkbox"/>	Unmanned aircraft (e.g. drone)	<input type="checkbox"/>	Handheld application equipment	<input type="checkbox"/>
Other	<input type="checkbox"/>	Please describe:					
Is equipment air assisted?							<input type="checkbox"/>
Is equipment fitted with GPS controlled nozzle or section shut off?							<input type="checkbox"/>
Pesticide application equipment							
Make:				Model:			
Chassis No.:				Tank/hopper capacity:			
Manufacture year:				Working width:			
Other information:							

ANNEX VI

referred to in Article 35

METHODOLOGY FOR THE CALCULATION OF HARMONISED RISK INDICATORS AT UNION AND NATIONAL LEVEL

SECTION 1

Harmonised risk indicators

The methodology for calculating harmonised risk indicators at both Union and national levels are listed in Sections 2 to 4 of this Annex. While the methodology for both Union and national indicators are the same, the former are based on Union wide statistics while the latter are based on national statistics. These indicators shall be calculated annually.

SECTION 2

Harmonised risk indicator 1: hazard-based harmonised risk indicator based on the quantities of active substances placed on the market in plant protection products under Regulation (EC) No 1107/2009

1. This indicator shall be based on statistics on the quantities of active substances placed on the market in plant protection products under Regulation (EC) No 1107/2009, provided to the Commission (Eurostat) under Annex I of Regulation (EC) No 1185/2009. Those data are categorised into 4 groups.
2. The following general rules shall apply for the calculation of harmonised risk indicator 1:
 - (a) harmonised risk indicator 1 shall be calculated on the basis of the categorisation of all active substances into the 4 groups set out in Table 1;
 - (b) the active substances in group 1 shall be those listed in Part D of the Annex to Implementing Regulation (EU) No 540/2011;
 - (c) the active substances in group 2 shall be those listed in Parts A and B of the Annex to Implementing Regulation (EU) No 540/2011;
 - (d) the active substances in group 3 shall be those listed in Part E of the Annex to Implementing Regulation (EU) No 540/2011;
 - (e) the active substances in group 4 shall be those not approved under Regulation (EC) No 1107/2009, and therefore not listed in the Annex to Implementing Regulation (EU) No 540/2011;
 - (f) the weightings in row (iii) in Table 1 shall apply.
3. Harmonised risk indicator 1 shall be calculated by multiplying the annual quantities of active substances in plant protection products placed on the market for each group in Table 1 by the relevant hazard weighting set out in row (iii), followed by the aggregation of the results of these calculations.

Table 1

Categorisation of active substances and hazard weightings for the purpose of calculating

harmonised risk indicator 1

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Row	Groups			
	1	2	3	4
(i)	Low-risk active substances which are approved or deemed to be approved under Article 22 of Regulation (EC) No 1107/2009, and which are listed in Part D of the Annex to Implementing Regulation (EU) No 540/2011	Active substances approved or deemed to be approved under Regulation (EC) No 1107/2009, and not falling in other categories, and which are listed in Parts A and B of the Annex to Implementing Regulation (EU) No 540/2011	Active substances that are approved as candidates for substitution in accordance with Article 24 of Regulation (EC) No 1107/2009.	Active substances which are not approved under Regulation (EC) No 1107/2009, and therefore which are not listed in the Annex to Implementing Regulation (EU) No 540/2011
(ii)	Hazard weightings applicable to quantities of active substances placed on the market in products authorised under Regulation (EC) No 1107/2009			
(iii)	1	8	16	64

4. The baseline for harmonised risk indicator 1 shall be set at 100, and is equal to the average result of the above calculation for the period 2011-2013.
5. The result of harmonised risk indicator 1 shall be expressed by reference to the baseline.
6. The Commission shall calculate and publish the results of harmonised risk indicator 1 at Union level in accordance with Article 35(2) of this Regulation for each calendar year and at the latest 20 months after the end of the year for which harmonised risk indicator 1 is being calculated.
7. The Member States shall calculate and publish the results of harmonised risk indicator 1 at national level in accordance with Article 35(3) of this Regulation for each calendar year and at the latest 20 months after the end of the year for which harmonised risk indicator 1 is being calculated.

SECTION 3

Harmonised risk indicator 2: harmonised risk indicator based on the number of authorisations granted under Article 53 of Regulation (EC) No 1107/2009

1. This indicator shall be based on the number of authorisations granted for plant protection products under Article 53 of Regulation (EC) No 1107/2009 as communicated to the Commission in accordance with Article 53(1) of that Regulation. Those data are categorised into 4 groups.
2. The following general rules shall apply for the calculation of harmonised risk indicator 2:
 - (a) harmonised risk indicator 2 shall be based on the number of authorisations granted under Article 53 of Regulation (EC) No 1107/2009, and it shall be

calculated on the basis of the categorisation of active substances into the 4 groups set out in Table 2 of this Section;

- (b) the active substances in group 1 are listed in Part D of the Annex to Implementing Regulation (EU) No 540/2011;
 - (c) the active substances in group 2 are those listed in Parts A and B of the Annex to Implementing Regulation (EU) No 540/2011;
 - (d) the active substances in group 3 shall be those listed in Part E of the Annex to Implementing Regulation (EU) No 540/2011;
 - (e) the active substances in group 4 shall be those not approved under Regulation (EC) No 1107/2009, and therefore not listed in the Annex to Implementing Regulation (EU) No 540/2011;
 - (f) The weightings in row (iii) in Table 2 of this Section shall apply.
3. Harmonised risk indicator 2 shall be calculated by multiplying the number of authorisations granted for plant protection products under Article 53 of Regulation (EC) No 1107/2009 for each group in Table 2 by the relevant hazard weighting set out in row (iii), followed by the aggregation of the results of these calculations.

Table 2

Categorisation of active substances and hazard weightings for the purpose of calculating harmonised risk indicator 2

Row	Groups			
	1	2	3	4
(i)	Low-risk active substances which are approved or deemed to be approved under Article 22 of Regulation (EC) No 1107/2009, and which are listed in Part D of the Annex to Implementing Regulation (EU) No 540/2011	Active substances approved or deemed to be approved under Regulation (EC) No 1107/2009, and not falling in other categories, and which are listed in Parts A and B of the Annex to Implementing Regulation (EU) No 540/2011	Active substances that are approved as candidates for substitution in accordance with Article 24 of Regulation (EC) No 1107/2009.	Active substances which are not approved under Regulation (EC) No 1107/2009, and therefore which are not listed in the Annex to Implementing Regulation (EU) No 540/2011
(ii)	Hazard weightings applicable to quantities of active substances placed on the market in products authorised under Regulation (EC) No 1107/2009			
(iii)	1	8	16	64

4. The baseline for harmonised risk indicator 2 shall be set at 100, and is equal to the average result of the above calculation for the period 2011-2013.
5. The result of harmonised risk indicator 2 shall be expressed by reference to the baseline.
6. The Commission shall calculate and publish the results of harmonised risk indicator 2 at Union level in accordance with Article 35(2) of this Regulation for each calendar year and at the latest 20 months after the end of the year for which harmonised risk indicator 2 is being calculated.
7. The Member States shall calculate and publish the results of harmonised risk indicator 2 at national level in accordance with Article 35(3) of this Regulation for each calendar year and at the latest 20 months after the end of the year for which harmonised risk indicator 2 is being calculated.
8. With effect from 1 January 2027, the methodology of HRI 2 will be replaced by the methodology in section 4 below.

SECTION 4

Harmonised risk indicator 2 (a): Harmonised risk indicator based on the number of and areas treated under authorisations granted under Article 53 of Regulation (EC) No 1107/2009

1. This indicator shall be based on the number of authorisations granted for plant protection products under Article 53 of Regulation (EC) No 1107/2009, and the areas treated under these authorisations, as communicated to the Commission in accordance with Article 53(1) of that Regulation.
2. The following general rules shall apply for the calculation of harmonised risk indicator 2 (a):
 - (a) harmonised risk indicator 2 (a) shall be based on the number of authorisations granted under Article 53 of Regulation (EC) No 1107/2009 and the areas treated under these authorisations. It shall be calculated on the basis of the categorisation of active substances into the 4 groups set out in Table 3 of this Section;
 - (b) the areas treated shall be in hectares;
 - (c) the active substances in group 1 (categories A and B) are listed in Part D of the Annex to Implementing Regulation (EU) No 540/2011;
 - (d) the active substances in group 2 (categories C and D) are those listed in Parts A and B of the Annex to Implementing Regulation (EU) No 540/2011;
 - (e) the active substances in group 3 (categories E and F) shall be those listed in Part E of the Annex to Implementing Regulation (EU) No 540/2011;
 - (f) the active substances in group 4 (category G) shall be those not approved under Regulation (EC) No 1107/2009, and therefore not listed in the Annex to Implementing Regulation (EU) No 540/2011;
 - (g) The weightings in row (iii) in Table 3 of this Section shall apply.
3. Harmonised risk indicator 2 (a) shall be calculated by multiplying the number of authorisations granted for plant protection products under Article 53 of Regulation

(EC) No 1107/2009 for each group in Table 3 by the relevant hazard weighting set out in row (vi), and by the areas treated under these authorisations, followed by the aggregation of the results of these calculations.

Table 3

Categorisation of active substances and hazard weightings for the purpose of calculating harmonised risk indicator 2 (a)

Row	Groups			
	1	2	3	4
(i)	Low-risk active substances which are approved or deemed to be approved under Article 22 of Regulation (EC) No 1107/2009, and which are listed in Part D of the Annex to Implementing Regulation (EU) No 540/2011	Active substances approved or deemed to be approved under Regulation (EC) No 1107/2009, and not falling in other categories, and which are listed in Parts A and B of the Annex to Implementing Regulation (EU) No 540/2011	Active substances that are approved as candidates for substitution in accordance with Article 24 of Regulation (EC) No 1107/2009.	Active substances which are not approved under Regulation (EC) No 1107/2009, and therefore which are not listed in the Annex to Implementing Regulation (EU) No 540/2011
(ii)	Hazard weightings applicable to quantities of active substances placed on the market in products authorised under Regulation (EC) No 1107/2009			
(iii)	1	8	16	64

4. The baseline for harmonised risk indicator 2 (a) shall be set at 100, and is equal to the average result of the above calculation for the period 2022-2024.
5. The result of harmonised risk indicator 2 (a) shall be expressed by reference to the baseline.
6. The Commission shall calculate and publish the results of harmonised risk indicator 2 (a) at Union level in accordance with Article 35(2) of this Regulation. This shall be done for the first time in 2027 using data from calendar years 2022 to 2025, and subsequently for each calendar year, at the latest 20 months after the end of the year for which harmonised risk indicator 2 (a) is being calculated.
7. The Member States shall calculate and publish the results of harmonised risk indicator 2 (a) at national level in accordance with Article 35(3) of this Regulation. This shall be done for the first time in 2027 using data from calendar years 2022 to 2025, and subsequently for each calendar year, at the latest 20 months after the end of the year for which harmonised risk indicator 2 (a) is being calculated.

ANNEX VII**CORRELATION TABLE REFERRED TO IN ARTICLE 43(2)**

Directive 2009/128/EC	This Regulation
Article 1	Article 1
Article 2	—
Article 3	Article 2
Article 4	Article 7
—	Article 8
—	Article 9
—	Article 10
Article 5	Article 20
Article 6	Article 19
Article 7	Article 21
Article 8	Article 24
—	Article 25
—	Article 26
—	Article 27
—	Article 28
—	Article 29
Article 9	Article 16
Article 10	Article 22(3)(g)
Article 11	Article 15
Article 12	Article 14
Article 13	Article 17
Article 14	Article 11
—	Article 30

—	Article 31
Article 15	Article 32
Article 16	—
Article 17	Article 34
Article 18	—
Article 19	Article 35
Article 20	—
Article 21	Article 37
Article 22	—
Article 23	—
Article 24	Article 39
Article 25	—
Annex I	Annex IV
Annex II	Annex V
Annex III	Annex III
Annex IV	Annex VII