

**Location:**

Wageningen Campus  
Atlas Building  
Droevendaalsesteeg 4  
6708 PB Wageningen



# **Advancing Spray drift Deposition Assessment: Comparing Modelling and Measured Data for Regulatory Risk Assessment of Plant Protection Products in Arable Crops**

## **Workshop in Wageningen, Netherlands**

Monday 15 April 2024 12:00h – Tuesday 16 April 20:00h

*Aim of the workshop:*

Current methodologies for estimating spray drift deposition values, used in the risk assessment of plant protection products on non-target terrestrial organisms (NTTOs), do not fully reflect the latest scientific insights. There is a pressing need for more accurate determination of deposition, including within the top layer or canopy of crops and plants, both in-field and off-field. In response, EFSA/SWR has undertaken efforts to enhance the estimation of spray drift depositions for regulatory risk assessments of NTTOs.

The forthcoming workshop aims to address these challenges by facilitating discussions on the current practices and methodologies for measuring spray drift deposition in arable crops, specifically focusing on their application in regulatory risk assessment for NTTOs. Additionally, the workshop will assess datasets and models used for spray drift assessment, including the Dutch IDEFICS model, which has been tested under various agro-climatic conditions across the EU. Through these discussions, the workshop seeks to identify areas for improvement and explore future directions in spray drift deposition assessment within the EU regulatory context.

Overall, the workshop aims to foster collaboration among diverse stakeholders, including regulators, researchers, industry representatives, and academia. By collectively addressing the challenges associated with spray drift deposition, the aim is to enhance the regulatory assessment and management of spray drift in arable crop protection, with a paramount focus on protecting NTTOs.

A visit will be paid to the spray drift laboratory of Wageningen Plant Research including an explanation on the testing of nozzles and an outdoor demonstration on measuring spray drift deposition will be organized.

*Participants:*

The workshop is open to all interested persons but limited to a maximum number of 50 (incl. EFSA staff).

## AGENDA (Final version, 25 March 2024)

Monday 15 April 2024  
Location: Atlas Building  
Chair: Paulien Adriaanse, WUR

Start	End	Speaker	Title
12:00	13:00		Walk-in drinks/wraps/snacks
<i>Welcome, introduction</i>			
13:00	13:10	Paulien Adriaanse, WUR	Welcome, organisational matters
13:10	13:25	All	Introduction round (name, affiliation)
13:25	13:40	EFSA	Welcome, intro, aim of workshop – set the scene
<i>Current situation: measured spray drift deposition is used; 1) background info on measuring spray drift deposition in arable crops across the EU</i>			
13:40	14:00	Olivier Naud, INRAE, France	Methods to measure spray drift deposition in arable crops in the EU – practices in France (15 min presentation, 5 min Q&A)
14:00	14:20	Paolo Marucco University of Turin, Italy	Methods to measure spray drift deposition in arable crops in the EU – practices in Italy (15 min presentation, 5 min Q&A)
<i>Current situation: measured spray drift deposition is used; 2) how is measured spray drift deposition used in the present RA of NTTOs?</i>			
14:20	14:50	Corine van Griethuijsen / Peter van Vliet - Ctgb	Overview of how estimation of spray drift deposition for RA of NTTOs is currently done <ul style="list-style-type: none"> <li>- EU – active substance registration</li> <li>- Zonal/MS – PPP registration</li> <li>- Example from NL - drift deposition for NTAs &amp; NTTPs (Wageningen Drift Calculator)</li> </ul> (20 min presentation, 10 min Q&A)
14:50	15:20	All	Tea/coffee
<i>Prospective: Defining off-target areas for protecting NTTOs</i>			
15:20	15:35	Mechteld ter Horst, WUR	Off-field exposure – definitions of drift deposition areas relevant for NTTOs (10 min presentation, 5 min Q&A)
<i>Prospective: using modelled estimates of spray drift deposition instead of direct measurements</i>			
15:35	16:00	Henk Jan Holterman, WUR	Modelling spray drift deposition in treated field-adjacent habitats <ul style="list-style-type: none"> <li>- Criteria to identify possibly suitable SD models – applying criteria → short-listed models</li> <li>- Question: are models applicable across EU? Should be tested – possibly use data of SETAC-DRAW</li> </ul> (20 min presentation, 5 min Q&A)
16:00	16:30	Neil MacKay, FMC	SETAC-DRAW database for arable crops (possibilities and limitations) (20 min presentation, 10 min Q&A)
16:30	17:00	Henk Jan Holterman, WUR	Selection of datasets <ul style="list-style-type: none"> <li>- Evaluation protocol</li> <li>- Research groups approached for data</li> </ul>

			<ul style="list-style-type: none"> <li>- Evaluating data received using protocol</li> <li>- Data sets selected for model validation</li> <li>- Definitions dataset, experiment, trial, replicate, sample</li> </ul> (25 min presentation, 5 min Q&A)
<i>Highlights of Day 1 by EFSA + closure of day</i>			
17:00	17:10	EFSA	Highlights of Day 1
17:10	17:15	Paulien Adriaanse, WUR	Programme for Tuesday + closure of the day
<i>Dinner</i>			
18:00	20:00	At WUR campus (according to expressed interests to organisers workshop)	Joint dinner (own expenses, to pay in <b>CASH</b> at location)

**AGENDA (Final version, 25 March 2024)**

Tuesday 16 April 2024

Location: Atlas Building

Chair: EFSA

<b>Start</b>	<b>End</b>	<b>Speaker</b>	<b>Title</b>
<i>Welcome, short introduction on agenda</i>			
8:30	8:35	EFSA	Welcome
8:35	8:40	Paulien Adriaanse, WUR	Introduction to agenda + practical matters
<i>Models for simulating spray drift deposition</i>			
8:40	8:55	Henk Jan Holterman, WUR	IDEFICS model for deposition in arable crops (15 min presentation)
8:55	9:10	Clare Butler-Ellis, Silsoe Spray Applications Unit	SSDM model for deposition in arable crops (15 min presentation)
9:10	9:25	Andrew Chapple, Bayer	Casanova model for deposition in arable crops (15 min presentation)
9:25	9:35	Henk Jan, Clare, Andrew	Questions on the models (10 min Q&A)
<i>Comparison of IDEFICS simulations and measured deposition across EU [not NL]</i>			
9:35	10:15	Meriem Djouhri, WUR	Comparison of IDEFICS simulations and measured deposition across EU (30 min presentation, 10 min Q&A)
<i>Break</i>			
10:15	10:30	All	Coffee/tea
<i>Discussion sessions</i>			
10:30	10:50		Plenary introduction of the discussion sessions
10:50	11:45	All	Breakout groups
11:45	12:30	All	Breakout groups
12:30	13:30	All	Lunch
13:30	14:15	All	Breakout groups
<i>Tea/coffee break</i>			
14:15	14:45	All	Tea / coffee
<i>Discussion wrap-up</i>			
14:45	15:45	Rapporteurs All	Plenary: Wrap-up of discussions, take home messages
15:45	16:00	Paulien Adriaanse, WUR	- Thanking speakers/attendants - Practical issues concerning demonstration and dinner
<i>Visit to the spray drift laboratory and demonstration of measuring spray drift deposition</i>			
16:30	18:30	Wageningen Plant Research, Agro Field Technology Innovations	Visit the spray drift laboratory and demonstration of measuring spray drift deposition – Unifarm premises at the Wageningen Campus
<i>Dinner</i>			
18:00	20:00	At Unifarm premises (according to interests expressed to organisers workshop)	Joint dinner (offered by the project)

