

REGISTRATION REPORT  
**Part B**  
**Section 3**  
**Efficacy Data and Information**  
Concise summary

Product code: GLOB1912H

Product name: **Jura Max**

Chemical active substances:

Prosulfocarb 667 g/L

Diflufenican 14 g/L

Central Zone

Zonal Rapporteur Member State: Poland

CORE ASSESSMENT

Applicant: Globachem N.V.

Submission date: November 2021

MS Finalisation date: December 2022

## Version history

When	What
November 2021	Initial submission by the applicant for approval of new product.
December 2022	RR finalization after comments by zRMS

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### 3 Efficacy Data and Information (including Value Data) on the Plant Protection Product (KCP 6)

#### 3.1 Summary and conclusions of zRMS on Section 3: Efficacy (KCP 6)

##### Abstract

GLOB1912H is an emulsifiable concentrate formulation containing prosulfocarb and diflufenican at concentrations of 667 g/L and 14 g/L per l product. It is recommended as a pre-emergence or early post-emergence treatment for the control of some annual grasses and broadleaved weeds in winter cereals and as a pre-emergence application in potatoes and sunflowers. Results referring to the efficacy of GLOB1912H were obtained in 104 efficacy trials carried out in 2019 – 2020. The applicant highly lights that GLOB1912H is similar to the already registered in many countries of UE product Jura (EC). It should be noted that the majority of the data were produced in the Maritime and North-East EPPO zones, with a limited number of trials in the South-East zone. Therefore, CMS based on national experience should consider whether presented data there are appropriate to support the registration of GLOB1912H.

##### Preliminary tests

No preliminary results are presented in support of GLOB1912H. The applicant claims that the product GLOB1912H contains the same amount of active substances as the already registered product JURA EC. JURA EC was developed with 667 g/l prosulfocarb and 14 g/l diflufenican (ratio 47.6:1) with a target dose of 4 l/ha (2201 g/ha prosulfocarb and 56 g/ha diflufenican). The applicant concluded that the dose rate of GLOB1912H can be reduced by 20% (3.2 l/ha) when applied to winter cereals compared to Jura (EC), while still providing the same level of weed control.

##### Minimum effective dose

###### MARITIME EPPO Zone

###### Minimum effective dose for the pre-emergence use on potatoes

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on potatoes was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha. Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate tested. Especially for CHEAL, POLCO and SOLNI, a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

###### Minimum effective dose for the pre-emergence use on sunflower

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on sunflower was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha. Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate tested. Especially for CHEAL, ECHCG, POLCO and POLLA, a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

###### SOUTH-EAST EPPO ZONE

###### Minimum effective dose for the pre-emergence use on potatoes

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on potatoes was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha. Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application

rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate tested. Especially for CHEAL, ECHCG and SOLNI a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

**Minimum effective dose for the pre-emergence use on sunflower**

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on sunflower was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha. Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate tested. Especially for AMARE, CHEAL, ECHCG, POALV and POLLA a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

**NORTH-EAST EPPO ZONE**

**Minimum effective dose for the pre-emergence use on potatoes**

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on potatoes was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha. Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate tested. Especially for CHEAL, GAETE, GASPA, POLCO and VIOAR, a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

**Minimum effective dose for the pre and post-emergence on winter cereals - all EPPO ZONES**

The applicant claims that GLOB1912H is similar to Jura (EC), which is registered to use on cereal crops in many countries across Europe with a dose rate of 4 L/ha for both the pre-emergence as well as the post-emergence application. Both products contain the same amount of active substances in the same formulation type. The applicant provided bridging trials to demonstrate that the GLOB1912H applied at a dose rate of 3.2 L/ha can give similar performance to Jura (EC) applied at a dose rate of 4 L/ha. Having considered the results it can be concluded that there is no difference between the performance of the formulations GLOB1912H and Jura EC. Presented data suggest that this rate of 3,2 L/ha GLOB1912H is necessary to control of susceptible weeds in winter cereals crops. Therefore, it can be considered that the MED data are sufficient to indicate that 3,2 L/ha of GLOB1912H is required.

**Efficacy**

The results of 108 trials of using GLOB1912H at a rate of 3.2 l/ha to control annual grasses and dicotyledonous weeds in claimed uses are as follows.

Maritime EPPO zone		
crop	Weed susceptibility	
	Susceptible (S)	Moderately Susceptible (MS)
Winter cereals pre-emergence n=19	<i>Poa annua, Apera spica-venti, Alopecurus myosuroides</i> and annual broadleaved weeds: <i>Viola arvensis, Veronica persica, Stellaria media, Papaver rhoeas, Matricaria chamomilla, Tripleurospermum inodorum</i>	<i>Galium aparine</i>
Winter cereals post-emergence n=14	<i>Poa annua and Apera spica-venti and annual broadleaved weeds: Galium aparine, Geranium pusillum, Matricaria chamomilla, Tripleurospermum inodorum, Papaver rhoeas, Stellaria media, Veronica persica and Viola arvensis</i>	<i>Alopecurus myosuroides and Centaurea cyanus</i>
Potato n=15	<i>Poa annua, Galeopsis tetrahit, Viola arvensis, Persicaria lapathifolia, Thlaspi arvense, and Fallopia convolvulus</i>	<i>Veronica persica, Tripleurospermum inodorum, Chenopodium album, Solanum nigrum, and Mercurialis annua</i>

Sunflower n=7	<i>Chenopodium album, Fallopia convolvulus, Persicaria lapathifolia</i>	<i>Echinochloa crus-galli</i>
<b>North-east EPPO zone</b>		
crop	Susceptible (S)	Moderately Susceptible (MS)
Winter cereals pre-emergence n=11+12	<i>Poa annua</i> and <i>Apera spica-venti</i> and annual broadleaved weeds: <i>Viola arvensis, Papaver rhoeas, Tripleuspermum inodorum, Geranium pusillum, Matricaria chamomilla, Stellaria media, and Veronica hederifolia</i>	<i>Alopecurus myosuroides</i> and <i>Galium aparine</i>
Winter cereals post-emergence n=11+10	<i>Poa annua</i> and <i>Apera spica-venti</i> and annual broadleaved weeds: <i>Galium aparine, Tripleuspermum inodorum, Papaver rhoeas, Viola arvensis, Fumaria officinalis, Geranium pusillum, Lamium purpureum, Stellaria media, Veronica hederifolia, Veronica persica</i>	<i>Alopecurus myosuroides</i>
Potato n=15	<i>Poa annua, Fallopia convolvulus, Persicaria lapathifolia, Persicaria maculosa, Polygonum persicarioides, Thlaspi arvense, Viola arvensis, Galeopsis tetrahit, Galinsoga parviflora, Amaranthus retroflexus, and Capsella bursa-pastoris</i>	<i>Veronica persica, Tripleuspermum inodorum, Solanum nigrum, Chenopodium album, Fumaria officinalis and Echinochloa crus-galli</i>
Sunflower n=4	<i>Chenopodium album, Fallopia convolvulus, Persicaria lapathifolia</i>	<i>Echinochloa crus-galli</i>
<b>South-east EPPO zone</b>		
crop	Susceptible (S)	Moderately Susceptible (MS)
Winter cereals pre-emergence n=3	<i>Poa annua, Apera spica-venti, Papaver rhoeas</i>	<i>Stellaria media</i>
Winter cereals post-emergence n=3	<i>Apera spica-venti, Poa annua, Papaver rhoeas, and Stellaria media.</i>	
Potato n=3	<i>Chenopodium album, Echinochloa crus-galli</i>	<i>Solanum nigrum</i>
Sunflower n=7		<i>Ambrosia artemisiifolia, Chenopodium album, and annual grass Echinochloa crus-galli</i>

### Phytotoxicity to host crop

#### Winter cereals - Maritime and North East EPPO zone

Phytotoxicity symptoms to cereals occurred in trials using GLOB 1912H at the highest proposed dose (3,2 L/ha) and at 2 N soon after application and at the last assessments. The data also show that phytotoxic symptoms were observed in a similar number of trials following application with the reference products. The values presented indicate that phytotoxicity symptoms caused by GLOB1912H may slightly affect the yield of winter rye, winter wheat, winter triticale, winter spelt and winter durum wheat. A label restriction regarding phytotoxicity should be addressed on the label. Due to phytotoxicity effects in most cereal crops, extrapolation to other cereal crops is not possible.

#### Winter cereals - South-East EPPO Zone.

The applicant did not provide phytotoxicity data in winter cereals. He did not provide justify this approach. Since a close correlation between phytotoxicity symptoms caused by GLOB1912H and cereals yield was observed in the Maritime and North-east EPPO zone, it is not possible to evaluate and draw conclusions on the crop safety of GLOB1912H applied as pre or early post-emergence treatments in winter cereals in South-East EPPO Zone.

#### Phytotoxicity on potatoes and sunflowers all EPPO Zones

Phytotoxicity symptoms on sunflower and potatoes caused by a single application of GLOB1912H applied pre-emergence at the proposed use rate of 3,2 L/ha, were transient. Overall the values presented indicate that phytotoxicity symptoms have no negative effects on yield. Given the possibility of a lower potatoes and sunflower yield with a double dose rate of 6,4 l / ha of GLOB1912H compared to the proposed dose rate of 3,2 l/ha, label warnings regarding phytotoxicity should be included on the label.

#### **Information on the occurrence or possible occurrence of the development of resistance**

The applicant addresses all points of EPPO Standard PP 1/213 to evaluate the possible actual risk of resistance to GLOB1912H. The applicant states that weed resistance to prosulfocarb and diflufenican has never been observed together, additionally resistance to diflufenican has never been observed in Europe. Because the product is only applied once per year before there is a very limited selection pressure. This makes resistance unlikely to occur. Overall, zRMS considers that the risk of developing resistance to prosulfocarb and diflufenican of the proposed use of GLOB1912H is low to moderate. The risk is primarily due to the inherent risk of certain target weeds. Given this risk, an overall strategy to prevent and manage such resistance should be adopted following the HRAC.

#### **Effects on the quality of plants and plant products**

The presented data correspond with the requirements of the EPPO Standards EPPO 1/135(4). The applicant showed that in selectivity trials no negative effects of GLOB1912H on quality parameters could be determined such as:

- number of tubers, % of tubers per weight class, the weight of malformed tubers (kg), starch content (%) in potatoes
- moisture content (%), oil content (%), dry matter content (%) in sunflowers
- Thousand Kernel Weight (g), Moisture content (%), Hectolitre Weight (kg) in winter cereals.

Overall it was demonstrated that the application of GLOB1912H should be considered as safe in potatoes, sunflowers and winter cereals since no significant negative effects on yield quality are to be expected if label recommendations were obeyed.

#### **Impact on succeeding crops**

From the results presented it can be concluded that there is a risk of adverse effects of GLOB1912H herbicide on succeeding crops. There is a particular risk if crops have to be liquidated. In the case of crop failure, following soil cultivation, oats, cucumber, wheat and salsify may be sown, field beans or broad beans should not be sown within 12 months of application. The recommendation proposed by the applicant is acceptable.

#### **Impact on other plants including adjacent crops**

The application of GLOB1912H will not have unacceptable effects on tested plants when applied at maximum application rates of 3200 ml product/ha at a spray distance of 1 m except tomato where a minimum buffer zone of 3 m is necessary.



Zonal uses (field or outdoor uses, certain types of protected crops)													
1	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW), Spelt (TRZSP)	F	<i>Poa annua</i> and <i>Apera spica-venti</i> and annual broadleaved weeds: <i>Viola arvensis</i> , <i>Papaver rhoeas</i> , <i>Tripleusperrum inodorum</i> , <i>Geranium pusillum</i> , <i>Matricaria chamomilla</i> , <i>Stellaria media</i> , and <i>Veronica hederifolia</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	a) 3.2 b) 3.2	a) Prosulfocarb: 2.134 Diflufenican: 0.0448 b) Prosulfocarb: 2.134 Diflufenican: 0.0448	160-300	/	
2	DE, CZ, BE	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW), Spelt (TRZSP)	F	<i>Poa annua</i> , <i>Apera spica-venti</i> , <i>Alopecurus myosuroides</i> and annual broadleaved weeds: <i>Viola arvensis</i> , <i>Veronica persica</i> , <i>Stellaria media</i> , <i>Papaver rhoeas</i> , <i>Matricaria chamomilla</i> , <i>Tripleurospermum inodorum</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	c) 3.2 d) 3.2	c) Prosulfocarb: 2.134 Diflufenican: 0.0448 d) Prosulfocarb: 2.134 e) Diflufenican: 0.0448	160-300	/	
3	HU	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW), Spelt (TRZSP)	F	<i>Poa annua</i> , <i>Apera spica-venti</i> , <i>Papaver rhoeas</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	e) 3.2 f) 3.2	f) Prosulfocarb: 2.134 Diflufenican: 0.0448 g) Prosulfocarb: 2.134 h) Diflufenican: 0.0448	160-300	/	
4	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW), Spelt (TRZSP)	F	<i>Poa annua</i> and <i>Apera spica-venti</i> and annual broadleaved weeds: <i>Viola arvensis</i> , <i>Papaver rhoeas</i> , <i>Tripleusperrum inodorum</i> , <i>Geranium pusillum</i> , <i>Matricaria chamomilla</i> , <i>Stellaria media</i> , and <i>Veronica hederifolia</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	a) 3.0 b) 3.0	a) Prosulfocarb: 2.001 Diflufenican: 0.042 b) Prosulfocarb: 2.001 Diflufenican: 0.042	160-300	/	/

5	DE, CZ, BE	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW) , Spelt (TRZSP)	F	<i>Poa annua, Apera spica-venti, Alopecurus myosuroides</i> and annual broadleaved weeds: <i>Viola arvensis, Veronica persica, Stellaria media, Papaver rhoeas, Matricaria chamomilla, Tripleurospermum inodorum</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	c) 3.0 d) 3.0	c)Prosulfocarb: 2.001 Diflufenican: 0.042 d)Prosulfocarb: 2.001 e)Diflufenican: 0.042	160-300	/	/
6	HU	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW) , Spelt (TRZSP)	F	<i>Apera spica-venti, Poa annua, Papaver rhoeas, and Stellaria media.</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	e) 3.0 f) 3.0	f)Prosulfocarb: 2.001 Diflufenican: 0.042 g)Prosulfocarb: 2.001 h) Diflufenican: 0.042	160-300	/	/
7	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW) , Spelt (TRZSP)	F	<i>Poa annua and Apera spica-venti and annual broadleaved weeds: Galium aparine, Tripleurospermum inodorum, Papaver rhoeas, Viola arvensis, Fumaria officinalis, Geranium pusillum, Lamium purpureum, Stellaria media, Veronica hederifolia, Veronica persica</i>	Downward spraying	BBCH10-13	a) 1 b) 1	/	a) 3.2 b) 3.2	a)Prosulfocarb: 2.134 Diflufenican: 0.0448 b)Prosulfocarb: 2.134 Diflufenican: 0.0448	160-300	/	
8	DE, CZ, BE	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW) , Spelt (TRZSP)	F	<i>Poa annua and Apera spica-venti and annual broadleaved weeds: Galium aparine, Geranium pusillum, Matricaria chamomilla, Tripleurospermum inodorum, Papaver rhoeas, Stellaria media, Veronica persica and Viola arvensis)</i>	Downward spraying	BBCH10-13	a) 1 b) 1	/	c) 3.2 d) 3.2	c)Prosulfocarb: 2.134 Diflufenican: 0.0448 d)Prosulfocarb: 2.134 e)Diflufenican: 0.0448	160-300		

9	HU	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW) , Spelt (TRZSP)	F	<i>Apera spica-venti, Poa annua, Papaver rhoeas, and Stellaria media.</i>	Downward spraying	BBCH10-13	a) 1 b) 1	/	e) 3.2 f) 3.2	f) Prosulfocarb: 2.134 Diflufenican: 0.0448 g) Prosulfocarb: 2.134 h) Diflufenican: 0.0448	160-300		
10	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW) , Spelt (TRZSP)	F	<i>Poa annua and Apera spica-venti and annual broadleaved weeds: Galium aparine, Tripleuspermum inodorum, Papaver rhoeas, Viola arvensis, Fumaria officinalis, Geranium pusillum, Lamium purpureum, Stellaria media, Veronica hederifolia, Veronica persica</i>	Downward spraying	BBCH10-13	a) 1 b) 1	/	a) 3.0 b) 3.0	a) Prosulfocarb: 2.001 Diflufenican: 0.042 b) Prosulfocarb: 2.001 Diflufenican: 0.042	160-300	/	
11	DE, CZ, BE	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW) , Spelt (TRZSP)	F	<i>Poa annua and Apera spica-venti and annual broadleaved weeds: Galium aparine, Geranium pusillum, Matricaria chamomilla, Tripleuspermum inodorum, Papaver rhoeas, Stellaria media, Veronica persica and Viola arvensis</i>	Downward spraying	BBCH10-13	a) 1 b) 1	/	c) 3.0 d) 3.0	c) Prosulfocarb: 2.001 Diflufenican: 0.042 d) Prosulfocarb: 2.001 e) Diflufenican: 0.042	160-300		
12	HU	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI), Winter durum wheat (TRZDW) , Spelt (TRZSP)	F	<i>Apera spica-venti, Poa annua, Papaver rhoeas, and Stellaria media.</i>	Downward spraying	BBCH10-13	a) 1 b) 1	/	e) 3.0 f) 3.0	f) Prosulfocarb: 2.001 Diflufenican: 0.042 g) Prosulfocarb: 2.001 h) Diflufenican: 0.042	160-300		

13	PL	Potato (SOLTU)	F	<i>Poa annua, Fallopia convolvulus, Persicaria lapathifolia, Persicaria maculosa, Polygonum persicarioides, Thlaspi arvense, Viola arvensis, Galeopsis tetrahit, Galinsoga parviflora, Amaranthus retroflexus, and Capsella bursa-pastoris</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	a) 3.2 b) 3.2	a)Prosulfocarb: 2.134 Diflufenican: 0.0448 b)Prosulfocarb: 2.134 Diflufenican: 0.0448	160-300		
14	DE, CZ, BE	Potato (SOLTU)	F	<i>Poa annua, Galeopsis tetrahit, Viola arvensis, Persicaria lapathifolia, Thlaspi arvense, and Fallopia convolvulus</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	c) 3.2 d) 3.2	c)Prosulfocarb: 2.134 Diflufenican: 0.0448 d)Prosulfocarb: 2.134 e)Diflufenican: 0.0448	160-300		
15	HU	Potato (SOLTU)	F	<i>Chenopodium album, Echinochloa crus-galli</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	e) 3.2 f) 3.2	f) Prosulfocarb: 2.134 Diflufenican: 0.0448 g)Prosulfocarb: 2.134 h)Diflufenican: 0.0448	160-300		
16	PL	Potato (SOLTU)	F	<i>Poa annua, Fallopia convolvulus, Persicaria lapathifolia, Persicaria maculosa, Polygonum persicarioides, Thlaspi arvense, Viola arvensis, Galeopsis tetrahit, Galinsoga parviflora, Amaranthus retroflexus, and Capsella bursa-pastoris</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	a) 3.0 b) 3.0	a)Prosulfocarb: 2.001 Diflufenican: 0.042 b)Prosulfocarb: 2.001 Diflufenican: 0.042	160-300	/	/
17	DE, CZ, BE	Potato (SOLTU)	F	<i>Poa annua, Galeopsis tetrahit, Viola arvensis, Persicaria lapathifolia, Thlaspi arvense, and Fallopia convolvulus</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	c) 3.0 d) 3.0	c)Prosulfocarb: 2.001 Diflufenican: 0.042 d)Prosulfocarb: 2.001 e)Diflufenican: 0.042	160-300		
18	HU	Potato (SOLTU)	F	<i>Chenopodium album, Echinochloa crus-galli</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	e) 3.0 f) 3.0	f) Prosulfocarb: 2.001 Diflufenican: 0.042 g)Prosulfocarb: 2.001 h)Diflufenican: 0.042	160-300		

19	PL	Sunflower (HELAN)	F	<i>Chenopodium album, Fallopia convolvulus, Persicaria lapathifolia</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	a) 3.2 b) 3.2	a) Prosulfocarb: 2.134 Diflufenican: 0.0448 b) Prosulfocarb: 2.134 Diflufenican: 0.0448	160-300		
20	DE, CZ	Sunflower (HELAN)	F	<i>Chenopodium album, Fallopia convolvulus, Persicaria lapathifolia</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	c) 3.2 d) 3.2	c) Prosulfocarb: 2.134 Diflufenican: 0.0448 d) Prosulfocarb: 2.134 e) Diflufenican: 0.0448	160-300		
21	HU	Sunflower (HELAN)	F	<i>Ambrosia artemisiifolia, Chenopodium album, and annual grass Echinochloa crus-galli</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	e) 3.2 f) 3.2	f) Prosulfocarb: 2.134 Diflufenican: 0.0448 g) Prosulfocarb: 2.134 h) Diflufenican: 0.0448	160-300		
22	PL	Sunflower (HELAN)	F	<i>Chenopodium album, Fallopia convolvulus, Persicaria lapathifolia</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	a) 3.0 b) 3.0	a) Prosulfocarb: 2.001 Diflufenican: 0.042 b) Prosulfocarb: 2.001 Diflufenican: 0.042	160-300	/	/
23	DE, CZ	Sunflower (HELAN)	F	<i>Chenopodium album, Fallopia convolvulus, Persicaria lapathifolia</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	c) 3.0 d) 3.0	c) Prosulfocarb: 2.001 Diflufenican: 0.042 d) Prosulfocarb: 2.001 e) Diflufenican: 0.042	160-300		
24	HU	Sunflower (HELAN)	F	<i>Ambrosia artemisiifolia, Chenopodium album, and annual grass Echinochloa crus-galli</i>	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	e) 3.0 f) 3.0	f) Prosulfocarb: 2.001 Diflufenican: 0.042 g) Prosulfocarb: 2.001 h) Diflufenican: 0.042	160-300		

\* Use number(s) in accordance with the list of all intended GAPs in Part B, Section 0 should be given in column 1.

\*\* F: professional field use, Fn: non-professional field use, Fpn: professional and non-professional field use, G: professional greenhouse use, Gn: non-professional greenhouse use, Gpn: professional and non-professional greenhouse use, I: indoor application

Column 15: zRMS conclusion.

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A	Acceptable
R	Acceptable with further restriction
C	To be confirmed by cMS
N	Not acceptable / evaluation not possible
n.r.	Not relevant for section 3

## 3.2 Efficacy data (KCP 6)

### Introduction

This document summarizes the information related to the efficacy of the plant protection product Jura Max, further referred to as GLOB1912H, which contains the active substances prosulfocarb and diflufenican in concentrations of 667 g/L and 14 g/L, respectively. Prosulfocarb was included into Annex I of Directive 91/414/EEC by Commission Directive 2007/76/EC of December 2007, diflufenican was included by Commission Directive 2008/66/EC of June 2008.

Both Annex I Inclusion Directives provide specific provisions under Part B which need to be considered by the applicant in the preparation of their submission and by the MS prior to granting an authorisation.

The approval periods of prosulfocarb and diflufenican were last extended by Commission Implementing Regulations (EU) 2020/1511 of 16 October 2020 and 2019/1589 of 26 September 2019, respectively.

The SANCO reports for prosulfocarb (SANCO/2824/07) and diflufenican (SANCO/3782/08) are considered to provide the relevant review information or a reference to where such information can be found.

For the implementation of the uniform principles of Annex VI, the conclusions of the review report on prosulfocarb and diflufenican, and in particular Appendices I and II thereof, as finalised in the Standing Committee on the Food Chain and Animal Health shall be taken into account. In this overall assessment there are however no efficacy related concerns.

Appendix 1 of this document contains the list of references included in this document for support of the evaluation.

### Description of active substances

GLOB1912H contains the active substances prosulfocarb and diflufenican. Both active substances are used for pre- and post-emergence control of grasses and broad-leaved weeds in a range of crops.

Prosulfocarb and diflufenican are both systemic in action and have foliar as well as residual action to provide extended weed control.

### Mode of action

The table below summarizes the information regarding the mode of action of prosulfocarb and diflufenican.

**Table 3.2-1: Details of the active substances**

Active substance	Prosulfocarb	Diflufenican
Concentration (Unit: g/kg or g/L...)	667 g/L	14 g/L
Chemical group	Thiocarbamates	Phenyl-ether
Mode of action	HRAC/WSS group 15 Inhibitor of Very Long-Chain Fatty Acid Synthesis	HRAC/WSSA group 12 Inhibitor of Phytoene Desaturase
Biological action	Necroses of meristem and surrounding tissues leading to plant death.	Bleaching by inhibition of carotenoid biosynthesis

### Description of the plant protection product

GLOB1912H contains the active substances prosulfocarb and diflufenican at concentrations of 667 g/L and

14 g/L, respectively. GLOB1912H is formulated as an emulsifiable concentrate, GLOB1912H is similar to the already registered product Jura (EC).

**Table 3.2-2: Simplified table of currently registered uses and requested uses for GLOB1912H**

Uses		Member State	Currently registered rate(s)	Requested rate(s)	Comments / Other relevant details on GAPs
Crop(s)	Target(s)				
Winter cereals TRZAW HORVW SECCW TTLWI TRZDW TRZSP	Broad-leaved weeds and grasses	PL, BE, CZ, DE, HU	-	3 L/ha 3.2 L/ha	Pre-emergence (BBCH 00-09) Post-emergence (BBCH 10-21)
Potato SOLTU			-		Pre-emergence (BBCH 00-09)
Sunflower HELAN			-		Pre-emergence (BBCH 00-09)

Sunflowers are considered a minor crop in Poland.

Efficacy trials for the pre-emergence use on sunflowers were performed in the Maritime, Mediterranean and South-East EPPO Zone. These trials demonstrate the good efficacy of GLOB1912H in a broad range of conditions. Of the Maritime trials 4 were performed in the Czech republic and Germany, these should be considered by Poland.

Additionally, because it concerns the pre-emergence use of GLOB1912H on sunflowers, efficacy data obtained with the pre-emergence application of GLOB1912H on other crops can be used to support this use, as there is no crop interception. The efficacy trials presented on winter cereals and potatoes that were performed in the North-East EPPO Zone, the Czech Republic and Germany confirm the good efficacy of GLOB1912H at a dose rate of 3.2 L/ha in a pre-emergence application.

Further details are in the table “All intended uses” in Part B - Section 0.

### Description of the target pests

**Table 3.2-3: Glossary of pests mentioned in the dossier**

EPPO code	Scientific name
ABUTH	<i>Abutilon theophrasti</i>
AGGRE	<i>Elymus repens</i>
ALOMY	<i>Alopecurus myosuroides</i>
AMARE	<i>Amaranthus retroflexus</i>
AMBEL	<i>Ambrosia artemisiifolia</i>
ANTAR	<i>Anthemis arvensis</i>
ANTNO	<i>Chamaemelum nobile</i>
ANYCL	<i>Anacyclus clavatus</i>
APHAR	<i>Aphanes arvensis</i>
APESV	<i>Apera spica-venti</i>
ARBTH	<i>Arabidopsis thaliana</i>
AVEFA	<i>Avena fatua</i>

AVEST	<i>Avena sterilis</i>
BRSNN	<i>Brassica napus</i>
CAPBP	<i>Capsella bursa-pastoris</i>
CENCY	<i>Centaurea cyanus</i>
CHEAL	<i>Chenopodium album</i>
CHEHY	<i>Chenopodium hybridum</i>
CHYSE	<i>Glebionis segetum</i>
CLDAR	<i>Calendula arvensis</i>
CONAR	<i>Convolvulus arvensis</i>
CYNDA	<i>Cynodon dactylon</i>
DATST	<i>Datura stramonium</i>
DESSO	<i>Descurainia sophia</i>
DIGIS	<i>Digitaria ischaemum</i>
DIPER	<i>Diploaxis erucoides</i>
ECHCG	<i>Echinochloa crus-galli</i>
EROCI	<i>Erodium cicutarium</i>
FUMOF	<i>Fumaria officinalis</i>
GAETE	<i>Galeopsis tetrahit</i>
GALAP	<i>Galium aparine</i>
GASCI	<i>Galinsoga quadriradiata</i>
GASPA	<i>Galinsoga parviflora</i>
GERDI	<i>Geranium dissectum</i>
GERPU	<i>Geranium pusillum</i>
HELAN	<i>Helianthus annuus</i>
LACSE	<i>Lactuca serriola</i>
LAMAM	<i>Lamachus marginatus</i>
LAMPU	<i>Lamium purpureum</i>
LOLMU	<i>Lolium multiflorum</i>
LOLPE	<i>Lolium perenne</i>
LOLRI	<i>Lolium rigidum</i>
LYCAR	<i>Anchusa arvensis</i>
MATCH	<i>Matricaria chamomilla</i>
MATIN	<i>Tripleospermum inodorum</i>
MERAN	<i>Mercurialis annua</i>
MYOAR	<i>Myosotis arvensis</i>
PANCA	<i>Panicum capillare</i>
PANDI	<i>Panicum dichotomiflorum</i>
PANMI	<i>Panicum miliaceum</i>
PAPRH	<i>Papaver rhoeas</i>
PICEC	<i>Helminthotheca echioides</i>
PICHI	<i>Picris hieracioides</i>
POAAN	<i>Poa annua</i>
POLAV	<i>Polygonum aviculare</i>
POLCO	<i>Fallopia convolvulus</i>
POLLA	<i>Persicaria lapathifolia</i>

POLPE	<i>Persicaria maculosa</i>
POLPI	<i>Polygonum persicarioides</i>
POROL	<i>Portulaca oleracea</i>
RAPRA	<i>Raphanus raphanistrum</i>
SASKA	<i>Salsola kali</i>
SENVU	<i>Senecio vulgare</i>
SETVI	<i>Setaria viridis</i>
SINAR	<i>Schleranthus annuus</i>
SOLNI	<i>Solanum nigrum</i>
SSYOF	<i>Sisymbrium officinale</i>
STEME	<i>Stellaria media</i>
SYMOF	<i>Symphytum officinale</i>
THLAR	<i>Thlaspi arvense</i>
VERAG	<i>Veronica agrestis</i>
VERHE	<i>Veronica hederifolia</i>
VERHT	<i>Veronica hederifolia subsp. triloba</i>
VERPE	<i>Veronica persica</i>
VICCR	<i>Vicia cracca</i>
VIOAR	<i>Viola arvensis</i>

The table below presents the susceptibility scales used in the EU and in the UK. For each summary of the efficacy data, regardless of the EPPO Zone the trials were performed in, the resulting susceptibility according to both scales is given.

**Table 3.2-4 Susceptibility scales**

<b>Weed species susceptibility (EU)</b>	<b>Level of control</b>
Highly susceptible (HS)	95-100%
Susceptible (S)	85-94.9%
Moderately Susceptible (MS)	70 - 84.9 %
Moderately Tolerant (MT)	50 - 69.9 %
Tolerant (T)	0 - 49.9 %
<b>Weed species susceptibility (UK)</b>	<b>Level of control</b>
Susceptible (S)	≥ 85 %
Moderately Susceptible (MS)	75 - 84.9 %
Moderately Tolerant (MT)	60 - 74.9 %
Tolerant (T)	0 - 59.9 %

**Table 3.2-5: Major / minor status of intended uses (for all cMS and zRMS)**

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	Major	minor		Major	minor
Winter cereals TRZAW HORVW SECCW TTLWI TRZDW	PL, BE, CZ, DE, HU		Broad-leaved weeds and grasses	X	
Potato SOLTU	PL, BE, CZ, DE, HU			X	
Sunflower HELAN	BE, CZ, DE, HU	PL		X	

All trials presented in this dossier are property of the applicant. A summary of the number of trials per crop, application timing is given in the table below. Further details of these trials can be found in section 3.2.3 of this document.

**Table 3.2-6: Presentation of efficacy trials**

Crop(s) *	Target(s)*	Country	Years	Type of trial**	MAR Zone <sup>(1)</sup>	N-E Zone <sup>(2)</sup>	MED Zone <sup>(3)</sup>	S-E Zone <sup>(4)</sup>	GEP, non-GEP, official***	Comments	
HORVW Pre-em	Annual weeds	CZ	2020	E	1				GEP		
		DE	2020	E	1				GEP		
		ES	2019	E			1			GEP	
			2020	E			1			GEP	
		HR	2020	E				1 <sup>(5)</sup>		GEP	
		NL	2020	E	1					GEP	
		PL	2020	E		3				GEP	
<b>TOTAL</b>					<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>			
HORVW Post-em	Annual weeds	CZ	2020	E	1				GEP		
		DE	2018	E	1				GEP		
			2020	E	1				GEP		
		ES	2018	E			1			GEP	
			2020	E			1			GEP	
		FR	2020	E			1		GEP		
		HR	2020	E				1 <sup>(5)</sup>		GEP	
		NL	2020	E	1					GEP	
		PL	2018	E		1				GEP	
2020	E			3				GEP			
<b>TOTAL</b>					<b>4</b>	<b>4</b>	<b>3</b>	<b>1</b>			
TRZAW pre-em	Annual weeds	CZ	2018	E	1				GEP		
			2019	E	1				GEP		
			2020	E	2					GEP	
		DE	2018	E	2					GEP	
			2019	E	1					GEP	
			2020	E	3					GEP	
		DK	2020	E	2					GEP	
		FR	2018	E	1			1		GEP	
			2019	E				1		GEP	
			2020	E				1		GEP	
		HR	2019	E				1		GEP	
			2020	E				2	1 <sup>(6)</sup>	GEP	
		IT	2019	E				1		GEP	
			2020	E				2		GEP	
		LV	2020	E		1				GEP	
NL	2020	E	1					GEP			
PL	2018	E		1				GEP			
	2019	E		1				GEP			

			2020	E		4			GEP		
		RO	2020	E				1 <sup>(6)</sup>	GEP		
		SE	2020	E	1				GEP		
		<b>TOTAL</b>				<b>15</b>	<b>7</b>	<b>9</b>	<b>2</b>		
TRZAW Post-em	Annual weeds	CZ	2018	E	1				GEP		
			2020	E	2				GEP		
		DE	2020	E	3				GEP		
		DK	2020	E	2				GEP		
		ES	2019	E			1			GEP	
			2020	E						GEP	
		FR	2018	E	1			1		GEP	
			2019	E				1		GEP	
			2020	E				1		GEP	
		HR	2019	E				1	1 <sup>(6)</sup>	GEP	
			2020	E				2		GEP	
		IT	2019	E				1		GEP	
			2020	E				2		GEP	
		LV	2020	E			1			GEP	
		NL	2020	E	1					GEP	
PL	2019	E			1			GEP			
	2020	E			4			GEP			
RO	2020	E					1 <sup>(6)</sup>	GEP			
		<b>TOTAL</b>			<b>10</b>	<b>6</b>	<b>10</b>	<b>2</b>		<b>28</b>	
TRZDW Pre-em	Annual weeds	IT	2018	E			1		GEP		
TTLWI Pre-em	Annual weeds	PL	2018	E		1			GEP		
TTLWI Post-em	Annual weeds	PL	2018	E		1			GEP		
		SE	2020	E	1				GEP		
		<b>TOTAL</b>			<b>1</b>	<b>2</b>	<b>1</b>			<b>4</b>	
SOLTU	Annual weeds	CZ	2018-2020	MED, E	6				GEP		
		DE	2019-2020	MED, E	3				GEP		
		FR	2018-2019	MED, E	5				GEP		
		NL	2020	MED, E	1				GEP		
		EE	2020	MED, E			1		GEP		
		LV	2020	MED, E			1		GEP		
		PL	2019-2020	MED, E			10		GEP		
		HR	2020	MED, E					1	GEP	
		HU	2020	MED, E					1	GEP	
		RO	2020	MED, E					1	GEP	
		<b>TOTAL</b>			<b>15</b>	<b>12</b>		<b>3</b>			
HELAN	Annual weeds	CZ	2020	MED, E	3				GEP		
		DE	2019	MED, E	1				GEP		
		FR	2020	MED, E	3		2		GEP		
		ES	2019-2020	MED, E			3		GEP		
		IT	2019-2020	MED, E			4		GEP		
		HR	2020	MED, E			1	1	GEP		

		HU	2019-2020	MED, E				3	GEP	
		RO	2019-2020	MED, E				2	GEP	
		<b>TOTAL</b>						<b>7</b>	<b>10</b>	<b>6</b>

\* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-emergence vs post-emergence, spring vs autumn).

\*\* P = preliminary trial, MED = minimum effective dose, E = efficacy trial.

\*\*\* GEP: Good Experimental Practices. Official: carried out by a national official organisation.

(1)Maritime EPPO Zone

(2)North-East EPPO Zone

(3)Mediterranean EPPO Zone

(4)South-East EPPO Zone

(5)KCP 6.2-27 pre- and post- emergence application

(6)KCP 6.2-26, 28 pre- and post- emergence application

The table below presents all reference products used in this dossier. It should be noted that a lot of reference products contain the same active substance(s) in the same concentration(s). For a better overview of the efficacy results, all of the highly similar products were grouped together under the treatment names mentioned in the final column of the table (Remark). Roxy 800 EC is summarized separately from all other reference products containing 800 g/L prosulfocarb, because several trials included treatments with Roxy 800 EC as well as treatments with other similar products.

**Table 3.2-7: Presentation of reference standards used in trials (efficacy trials, preliminary trials...)**

Crop(s)	Reference standard	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
Winter cereals	Boxer	NL	10701	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha	Ref. Pro.
		DK	1-211	prosulfocarb	EC	800 g/L	1.5-5 L/ha	1.5-5 L/ha	
		SE	3887	prosulfocarb	EC	800 g/L	1.5-5 L/ha	1.5-5 L/ha	
		LV	0271	prosulfocarb	EC	800 g/L	1.5-2.5 L/ha	1.5-2.5 L/ha	
		RO	2787	prosulfocarb	EC	800 g/L	3 L/ha	3 L/ha	
	Filon 80 EC	HR	753	prosulfocarb	EC	800 g/L	3-5 L/ha	5 L/ha	
	Auros	ES	24737	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha	
	Défi	FR	8700462	prosulfocarb	EC	800 g/L	3-5 L/ha	3-5 L/ha	
	Fidox 800 EC	HU	04.2/2504	prosulfocarb	EC	800 g/L	3 L/ha	3 L/ha	
	Polarpec	ES	ES-00293	prosulfocarb	EC	800 g/L	4-5 L/ha	3-5 L/ha	
	Roxy 800 EC <sup>(5)</sup>	CZ	4929	prosulfocarb	EC	800 g/L	4 L/ha	3-4 L/ha	
		FR	2090186	prosulfocarb	EC	800 g/L	5 L/ha	3-5 L/ha	
		IT	012799	prosulfocarb	EC	800 g/L	4 L/ha	3-4 L/ha	
DE		008975-00	prosulfocarb	EC	800 g/L	5 L/ha	3-5 L/ha		

Crop(s)	Reference standard	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>	
					Type <sup>(2)</sup>	Concentration of a.s.				
						PL				R-31/2016 wu
Potatoes	Herold	NL	13579	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.3-0.6 L/ha	Ref. Dif. Flu.	
	Naceto	CZ	5265-0	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.3-0.6 L/ha		
		DE	008362-60	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.3-0.6 L/ha		
	Naceto SC	PL	R-25/2019wu	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.3-0.6 L/ha		
	Battle Delta	FR	016041	flufenacet diflufenican	SC	400 g/L 200 g/L	0.6 L/ha	0.6 L/ha		
		IT	016041	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.3-0.6 L/ha		
	Fuga Delta	HR	1162	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6 L/ha		
	Jura (EC)	CZ	33506	prosulfocarb diflufenican	EC	667 g/L 14 g/L	4 L/ha	4 L/ha		
		DE	008324-00	prosulfocarb diflufenican	EC	667 g/L 14 g/L	4 L/ha	4 L/ha		
		HR	1231	prosulfocarb diflufenican	EC	667 g/L 14 g/L	4 L/ha	4 L/ha		
IT		017128	prosulfocarb diflufenican	EC	667 g/L 14 g/L	4 L/ha	4 L/ha			
PL		R-108/2017	prosulfocarb diflufenican	EC	667 g/L 14 g/L	4 L/ha	4 L/ha			
Potatoes	Boxer 800 EC	PL	R-88/2015	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha	Ref. Pro.	
		EE	21.12.2008	prosulfocarb	EC	800 g/L	3-4 L/ha	3-4 L/ha		
		LV	0271	prosulfocarb	EC	800 g/L	3-4 L/ha	3-4 L/ha		
	Boxer	NL	10701	prosulfocarb	EC	800 g/L	3-5 L/ha	3-5 L/ha		
		CZ	4566-0	prosulfocarb	EC	800 g/L	3-5 L/ha	3-5 L/ha		
		DE	033838-00	prosulfocarb	EC	800 g/L	3-5 L/ha	3-5 L/ha		
		RO	2787	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha		
	Roxy 800 EC	FR	2090186	prosulfocarb	EC	800 g/L	3-5 L/ha	3-5 L/ha		
	Fidox 800 EC	HU	04.2/2504-1/2017	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha		
	Filon 80 EC	HR	753	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha		
Défi	FR	8700462	prosulfocarb	EC	800 g/L	3-5 L/ha	3-5 L/ha			

Crop(s)	Reference standard	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
	Challenge	FR	8600243	aclonifen	SC	600 g/L	2-3 L/ha	2-3 L/ha	
Sunflowers	Boxer	DE	033838-00	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha	Ref. Pro.
		CZ	4566-0	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha	
	Fidox 800 EC	HU	04.2/2504-1/2017	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha	
	Challenge	IT	008184	aclonifen	SC	600 g/L	3-4 L/ha	3-4 L/ha	Ref. Acl.
		ES	19131	aclonifen	SC	600 g/L	4 L/ha	4 L/ha	
	Challenge 600	FR	8600243	aclonifen	SC	600 g/L	4 L/ha	4 L/ha	
		HR	1174	aclonifen	SC	600 g/L	4 L/ha	4 L/ha	
		RO	475PC	aclonifen	SC	600 g/L	4 L/ha	4 L/ha	
Chanon	FR	2190722	aclonifen	SC	600 g/L	4 L/ha	4 L/ha		
Pelican 500 SC	RO	2774/27.03.2008	diflufenican	SC	500 g/L	0.12-0.25 L/ha	0.12-0.25 L/ha		

(1) only on use(s) applied for (with the test product).

(2) e.g. WP (wetttable powder), EC (emulsifiable concentrate), etc.

(3) dose(s) / dose range authorized on that use in the country.

(4) Other relevant information (e.g. uses, number of applications, spray volume, method of application, etc.).

(5) Roxy 800 EC is property of Globachem NV and was often included as a reference in the trials on winter cereals, even when the trials already included a reference product with the same characteristics. Therefore the results for Roxy 800 EC are summarized separately.

### Compliance with the Uniform Principles

All data submitted in this dossier are performed by GEP-certified research organisations following the specific EPP0 Standards and are therefore in compliance with the Uniform Principles.

### 3.2.1 Preliminary tests (KCP 6.1)

GLOB1912H is highly similar to the already registered product Jura (EC), alternatively called Boxer Evo or Defi Evo, which is registered in many countries across the EU for the pre- and post- emergence use on cereals with a registered dose rate of 4 L/ha.

When Jura EC was initially developed the following approach was taken.

Even though prosulfocarb and diflufenican were already old active ingredients that had been registered for years in many countries, and were often used together in tank mix, the combination of these active substances in a single product did not exist. In Northern Europe, tank mixtures of prosulfocarb and diflufenican are often used on cereals. A typical spray scheme applies 48 times more prosulfocarb than diflufenican, this was used as a starting point for the development of Jura (EC).

Multiple screening field trials were set up by the applicant to test several a.i.-ratios and quantities for the pre-emergence application of Jura (EC). The mean results of the final efficacy assessments against *Stellaria media* and *Alopecurus myosuroides* are shown in the table below.

**Screening results table 3.2-1 Efficacy against Common chickweed (STEME)**

DFE ai g/ha	Prosulfocarb g ai/ha			
	0	1280	2201	4000
0	6/m <sup>2</sup>	65	90	96
25	60	85	94	96
56	100	98	<b>99</b>	100
187	99	100	100	99*

**Screening results table 3.2-2 Efficacy against Blackgrass (ALOMY)**

DFE ai g/ha	Prosulfocarb g ai/ha			
	0	1280	2201	4000
0	30/m <sup>2</sup>	10	46	75
25	20	28	51	70
56	50	60	<b>86</b>	86
187	55	58	87	89*

The treatment with the highest amount of prosulfocarb and diflufenican (4000 g/ha and 187 g/ha, respectively) reflects the maximum registered dose rates of both active substances at the time (\*). The preliminary trials confirmed that a ratio of around 1:48 (diflufenican to prosulfocarb) indeed provides the best control and that the dose rate of both active substances could be substantially lowered (compared to their maximum registered dose rates) when they are used in combination (synergistic effect). In accordance with the results presented above, Jura EC was developed with 667 g/l prosulfocarb and 14 g/L diflufenican (ratio of 47.6:1) with a target dose rate of 4 L/ha (2201 g/ha prosulfocarb and 56 g/ha diflufenican).

In its many years of use in many EU countries Jura (EC), applied at a dose rate of 4 L/ha, has proven to provide good control of annual weeds when applied pre- or post-crop emergence in winter cereals.

GLOB1912H can be considered a further development of Jura (EC).

The same amount of active substances and formulation type as Jura were used as the starting point for the development of GLOB1912H. However, as this dossier demonstrates, the dose rate of GLOB1912H can be lowered by 20% (3.2 L/ha) for the use on winter cereals compared to Jura (EC) whilst still providing the same level of control. The minimum effective dose tests presented in section 3.2.2 confirm that the same dose rate of GLOB1912H (3.2 L/ha) also provides good control in the pre-emergence use on potatoes and sunflowers.

Comments of zRMS:	No preliminary results are presented in support of GLOB1912H. The applicant claims that the product GLOB1912H contains the same amount of active substances as the already registered product JURA EC. JURA EC was developed with 667 g/l
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	<p>prosulfocarb and 14 g/l diflufenican (ratio 47.6:1) with a target dose of 4 l/ha (2201 g/ha prosulfocarb and 56 g/ha diflufenican). The applicant concluded that the dose rate of GLOB1912H can be reduced by 20% (3.2 l/ha) when applied to winter cereals compared to Jura (EC), while still providing the same level of weed control. Results are discussed in detail in sections 3.2.2 and 3.2.3.</p>
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### 3.2.2 Minimum effective dose tests (KCP 6.2)

Reference is made tot section 3.2.3 in which individual trials including several dose rates of GLOB1912H are presented. Sites and application details of these trials and individual trial results are also presented in this section.

In accordance with EPPO Guideline 1/1225(2), the minimum effective dose is demonstrated by comparing the efficacy of the requested dose rate to that of a lower dose rate. In this case the lower dose rate is 2 L/ha, or 62.5% of the maximum requested dose rate.

#### 3.2.2.1 Minimum effective dose for the pre-emergence use on potatoes

First, the minimum effective dose results are summarized for all EPPO Zones to demonstrate the efficacy of GLOB1912H in a wide range of (climatic) conditions. Next, a summary is given for each EPPO Zone. Because Poland also accepts data from the Czech Republic and Germany the trials results presented for the Polish trials only and for the Polish trials together with the Czech and German trials.

**Minimum effective dose table 3.2-1 Efficacy of pre-em use on potatoes across all EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
CHEAL	PLANT	39-123 DA-A	17	17.93	4.88	55.00	70.26	18.75	98.00	83.21	50.00	100.00
ECHCG	PLANT	30-123 DA-A	15	24.80	0.00	155.80	45.84	0.00	87.50	60.75	10.00	91.30
	EAR	39-98 DA-A	13	68.82	2.25	493.75	75.00	33.20	100.00	79.51	33.20	100.00
GAETE	PLANT	39-43 DA-A	2	13.50	10.50	16.50	90.00	80.00	100.00	96.25	92.50	100.00
GASPA	PLANT	45-120 DA-A	2	6.88	6.00	7.75	83.75	67.50	100.00	91.25	82.50	100.00
MATIN	PLANT	39-98 DA-A	3	10.92	7.00	15.25	74.58	58.75	96.25	79.58	51.25	100.00
POLCO	PLANT	39-120 DA-A	7	12.15	5.00	38.33	80.00	46.25	100.00	90.46	56.25	100.00
SOLNI	PLANT	39-119 DA-A	11	12.02	1.75	25.00	63.11	1.25	100.00	76.59	21.25	100.00
VIOAR	PLANT	39-80 DA-A	4	9.50	5.50	15.00	86.56	72.50	100.00	93.75	85.00	100.00

**Minimum effective dose table 3.2-2 Efficacy of pre-em use on potatoes in the Maritime EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
CHEAL	PLANT	39-119 DA-A	7	16.80	4.88	55.00	66.14	18.75	96.25	78.32	57.50	100.00
ECHCG	PLANT	30-119 DA-A	8	16.36	0.00	52.00	34.82	0.00	60.00	51.43	10.00	83.75
	EAR	39-98 DA-A	6	22.06	3.00	52.00	57.70	33.20	97.71	65.29	33.20	97.71
POLCO	PLANT	60-62 DA-A	2	9.50	7.25	11.75	75.00	56.25	93.75	88.50	81.25	95.75
SOLNI	PLANT	61-119 DA-A	9	12.00	5.25	25.00	60.61	1.25	100.00	75.42	21.25	100.00

**Minimum effective dose table 3.2-3 Efficacy of pre-em use on potatoes in Poland**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
CHEAL	PLANT	39-123 DA-A	7	20.20	6.00	35.50	67.39	32.50	98.00	83.21	50.00	100.00
	PLANT	39-123 DA-A	7	33.79	0.00	155.80	48.33	0.00	87.50	63.13	12.50	90.00
ECHCG	EAR	39-82 DA-A	5	147.20	8.00	493.75	88.12	75.26	100.00	89.93	83.54	100.00
GAETE	PLANT	43-43 DA-A	1	16.50	16.50	16.50	80.00	80.00	80.00	92.50	92.50	92.50
GASPA	PLANT	45-120 DA-A	2	6.88	6.00	7.75	83.75	67.50	100.00	91.25	82.50	100.00
MATIN	PLANT	45-80 DA-A	1	15.25	15.25	15.25	68.75	68.75	68.75	87.50	87.50	87.50
POLCO	PLANT	39-120 DA-A	5	13.22	5.00	38.33	82.00	46.25	100.00	91.25	56.25	100.00
SOLNI	PLANT	39-80 DA-A	3	10.25	1.75	22.50	82.92	63.75	100.00	87.92	73.75	100.00
VIOAR	PLANT	43-80 DA-A	3	7.67	5.50	9.50	82.08	72.50	100.00	91.67	85.00	100.00

**Minimum effective dose table 3.2-4 Efficacy of pre-em use on potatoes in Poland, Czech and Germany**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
CHEAL	PLANT	39-123 DA-A	12	16.60	5.50	35.50	66.81	18.75	98.00	80.90	50.00	100.00
ECHCG	PLANT	30-123 DA-A	12	27.71	0.00	155.80	42.50	0.00	87.50	58.64	12.50	90.00
	EAR	39-98 DA-A	9	91.45	3.00	493.75	75.77	37.60	100.00	79.51	39.30	100.00
GAETE	PLANT	39-43 DA-A	2	13.50	10.50	16.50	90.00	80.00	100.00	96.25	92.50	100.00
GASPA	PLANT	45-120 DA-A	2	6.88	6.00	7.75	83.75	67.50	100.00	91.25	82.50	100.00
MATIN	PLANT	39-98 DA-A	3	10.92	7.00	15.25	74.58	58.75	96.25	79.58	51.25	100.00
POLCO	PLANT	39-120 DA-A	6	12.22	5.00	38.33	83.96	46.25	100.00	92.00	56.25	100.00
SOLNI	PLANT	39-119 DA-A	5	11.85	1.75	23.00	69.75	30.00	100.00	82.50	68.75	100.00
VIOAR	PLANT	39-80 DA-A	4	9.50	5.50	15.00	86.56	72.50	100.00	93.75	85.00	100.00

**Minimum effective dose table 3.2-5 Efficacy of pre-em use on potatoes in the South-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
CHEAL	PLANT	44-46 DA-A	3	15.25	6.25	20.25	86.58	75.00	97.25	94.58	91.00	97.75
ECHCG	PLANT	44-46 DA-A	2	2.25	0.00	4.50	76.90	70.00	83.80	86.28	81.25	91.30
SOLNI	PLANT	44-46 DA-A	3	8.25	5.25	12.50	69.00	50.00	94.50	82.33	75.00	93.25

### Conclusion

The tables above demonstrate that 3.2 L/ha can be considered the minimum effective dose for the pre-emergence use of GLOB1912H on potatoes. It should be noted that all data in support of the 3.2 L/ha dose rate can be used to support a dose rate of 3 L/ha, because they differ less than 10%.

This is supported by the “CRD Data Requirements Handbook: Chapter 8 Efficacy” as well as the “Guidance on requirements for efficacy data for zonal evaluation of a plant protection product in the Northern Zone”. Both documents state that changes of less than 10% in the amount of any formulation component applied, including the active substance, are minor and as such require no further data.

### 3.2.2.2 Minimum effective dose for the pre-emergence use on sunflower

First, the minimum effective dose is demonstrated across all EPPO Zones to demonstrate the efficacy of GLOB1912H in a wide range of (climatic) conditions. Next, a summary is given for each EPPO Zone. Because Poland accepts data from the Czech Republic and Germany the trials results from these countries are also summarized separately.

**Minimum effective dose table 3.2-6 Efficacy of pre-em use on sunflowers across all EPPO Zones**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
AMARE	PLANT	56-115 DA-A	4	34.38	12.00	66.25	71.56	62.50	76.25	81.58	67.50	91.30
CHEAL	PLANT	55-115 DA-A	14	27.00	5.50	138.00	75.09	45.00	100.00	89.64	58.80	100.00
ECHCG	PLANT	55-115 DA-A	13	21.56	4.50	76.75	50.43	0.00	96.00	72.01	25.00	99.00
POLAV	PLANT	112-115 DA-A	3	6.25	4.50	8.75	62.50	57.50	67.50	73.37	65.00	78.80
POLCO	PLANT	56-62 DA-A	4	10.44	6.25	21.00	57.69	10.00	98.25	91.53	82.50	100.00
POLLA	PLANT	55-115 DA-A	5	18.65	3.00	59.50	68.00	25.00	100.00	87.50	55.00	100.00
SOLNI	PLANT	60-112 DA-A	2	8.38	7.25	9.50	81.00	67.50	94.50	93.00	87.50	98.50

**Minimum effective dose table 3.2-7 Efficacy of pre-em use on sunflowers in the Maritime EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
CHEAL	PLANT	56-71 DA-A	5	53.80	11.75	138.00	75.75	55.00	100.00	94.96	90.00	100.00
ECHCG	PLANT	56-71 DA-A	4	20.06	9.00	43.75	44.11	1.25	96.00	77.25	62.50	99.00
POLCO	PLANT	56-62 DA-A	4	10.44	6.25	21.00	57.69	10.00	98.25	91.53	82.50	100.00
POLLA	PLANT	56-56 DA-A	2	13.38	6.75	20.00	75.00	50.00	100.00	100.00	100.00	100.00

**Minimum effective dose table 3.2-8 Efficacy of pre-em use on sunflowers in Czech and Germany**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
CHEAL	PLANT	56-71 DA-A	3	21.83	11.75	41.25	76.67	55.00	100.00	98.10	95.00	100.00
ECHCG	PLANT	56-71 DA-A	3	12.17	9.00	18.00	49.92	1.25	96.00	78.83	62.50	99.00
POLCO	PLANT	56-56 DA-A	3	11.75	6.25	21.00	60.25	10.00	98.25	94.10	82.50	100.00

POLLA	PLANT	56-56 DA-A	2	13.38	6.75	20.00	75.00	50.00	100.00	100.00	100.00	100.00
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**Minimum effective dose table 3.2-9 Efficacy of pre-em use on sunflowers in the Mediterranean EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
AMARE	PLANT	56-115 DA-A	4	34.38	12.00	66.25	71.56	62.50	76.25	81.58	67.50	91.30
CHEAL	PLANT	56-112 DA-A	6	8.83	5.50	15.00	79.38	52.50	100.00	87.93	58.80	100.00
ECHCG	PLANT	56-112 DA-A	4	29.25	4.75	76.75	50.31	0.00	80.00	65.63	25.00	95.00
POLAV	PLANT	112-112 DA-A	2	7.13	5.50	8.75	60.00	57.50	62.50	70.65	65.00	76.30
SOLNI	PLANT	60-112 DA-A	2	8.38	7.25	9.50	81.00	67.50	94.50	93.00	87.50	98.50

**Minimum effective dose table 3.2-10 Efficacy of pre-em use on sunflowers in the South-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
							GLOB1912H-2 L/ha			GLOB1912H-3.2 L/ha		
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
AMARE	PLANT	102-115 DA-A	1	13.50	13.50	13.50	73.75	73.75	73.75	82.50	82.50	82.50
CHEAL	PLANT	55-115 DA-A	3	18.67	15.50	21.25	65.42	45.00	76.25	84.17	82.50	85.00
ECHCG	PLANT	55-115 DA-A	5	16.60	4.50	49.50	56.88	30.00	68.75	73.15	52.50	82.50
POLAV	PLANT	115-115 DA-A	1	4.50	4.50	4.50	67.50	67.50	67.50	78.80	78.80	78.80
POLLA	PLANT	55-115 DA-A	2	31.75	4.00	59.50	47.50	25.00	70.00	68.75	55.00	82.50

**Conclusion**

The tables above demonstrate that 3.2 L/ha can be considered the minimum effective dose for the pre-emergence use of GLOB1912H on sunflowers. It should be noted that all data in support of the 3.2 L/ha dose rate can be used to support a dose rate of 3 L/ha, because they differ less than 10%.

This is supported by the “CRD Data Requirements Handbook: Chapter 8 Efficacy” as well as the “Guidance on requirements for efficacy data for zonal evaluation of a plant protection product in the Northern Zone”. Both documents state that changes of less than 10% in the amount of any formulation component applied, including the active substance, are minor and as such require no further data.

**3.2.2.3 Minimum effective dose for the uses on winter cereals**

As mentioned above, GLOB1912H is similar to Jura (EC), which is registered in many countries across Europe with a dose rate 4 L/ha for both the pre-emergence as well as the post-emergence application. Both products contain the same amount of active substances in the same formulation type. However, the 4 L/ha dose rate currently registered for Jura (EC) is no longer sustainable due to additional restrictions. Therefore bridging trials are provided to demonstrate that the new formulation GLOB1912H applied at a dose rate of 3.2 L/ha can provide similar performance to Jura (EC) applied at a dose rate of 4 L/ha. For the orthogonal comparison between these products at the respective dose rates reference is made to the summarizing tables at the end of section 3.2.3. Because 3.2 L/ha of GLOB1912H is equivalent to the already established minimum effective dose of 4 L/ha for Jura (EC) it can be considered the minimum effective dose.

It should be noted that all data in support of the 3.2 L/ha dose rate can be used to support a dose rate of 3 L/ha, because they differ less than 10%.

This is supported by the “CRD Data Requirements Handbook: Chapter 8 Efficacy” as well as the “Guidance on requirements for efficacy data for zonal evaluation of a plant protection product in the Northern Zone”. Both documents state that changes of less than 10% in the amount of any formulation component applied, including the active substance, are minor and as such require no further data.

**Maritime EPPO Zone**

**Minimum effective dose for the pre-emergence use on potatoes**

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on potatoes was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha.

Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate

tested. Especially for CHEAL, POLCO and SOLNI, a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

#### **Minimum effective dose for the pre-emergence use on sunflower**

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on sunflower was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha.

Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate tested. Especially for CHEAL, ECHCG, POLCO and POLLA, a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

#### **SOUTH-EAST EPPO ZONE**

##### **Minimum effective dose for the pre-emergence use on potatoes**

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on potatoes was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha.

Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate tested. Especially for CHEAL, ECHCG and SOLNI a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

##### **Minimum effective dose for the pre-emergence use on sunflower**

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on sunflower was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha.

Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate tested. Especially for AMARE, CHEAL, ECHCG, POALV and POLLA a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

#### **NORTH EAST EPPO ZONE**

##### **Minimum effective dose for the pre-emergence use on potatoes**

To fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1) GLOB1912H on potatoes was tested in a range of field efficacy trials at application rates of the intended full application rate of 3,2 L/ha and at the reduced rates of 2 L/ha.

Overall, all trials showed a numerical, if not statistically significant efficacy increase if the maximum claimed application rate of 3,2 L/ha for GLOB1912H was applied in comparison to reduced dose rate tested. Especially for CHEAL, GAETE, GASPA, POLCO and VIOAR, a dose-response was observed after application of GLOB1912H at a full dose rate of 3,2 L/ha compared to reduced dose rate.

##### **Minimum effective dose for the pre and post-emergence on winter cereals - all EPPO ZONES**

The applicant claims that GLOB1912H is similar to Jura (EC), which is registered to use on cereal crops in many countries across Europe with a dose rate of 4 L/ha for both the pre-emergence as well as the post-emergence application. Both products contain the same amount of active substances in the same formulation type. The applicant provided bridging trials to demonstrate that the GLOB1912H applied at a dose rate of 3.2 L/ha can give similar performance to Jura (EC) applied at a dose rate of 4 L/ha. A summary of the efficacy comparisons between the prosulfocarb and diflufenican-based test product GLOB1912H and the prosulfocarb and diflufenican-based reference standard JURA are shown in Tables 1-6. Having considered the results it can be concluded that there is no difference between the performance of the formulations GLOB1912H and Jura EC. Presented data suggest that this rate of 3,2 L/ha GLOB1912H is necessary to control of susceptible weeds in winter cereals crops. Therefore, it can be considered that the MED data are sufficient to indicate that 3,2 L/ha of GLOB1912H is required.

However, it is noted that the susceptibility of each weed to the test product will vary, therefore, the effectiveness of the dose rate of 3,2 L/ha will be discussed in detail under section 3.2.3.

**Tab.1. Orthogonal comparison to Jura EC winter cereals pre-emergence application -MARITIME EPPO Zone**

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control	
				GLOB1912H- 3.2 L/ha	Jura EC - 4L
				Mean Min-Max	Mean Min-Max
MATCH	198-235 DA-A	2	4,9 3,9-6,0	100,00	98,7 97,5-100
STEME	158-273 DA-A	8	22,8 5,0-98,0	99,5 97,0-100	99,7 98,5-100
VERPE	158-247 DA-A	2	46,7 18,0-75,5	99,5 99,0-100	99,5 99,0-100
MATIN	158-273 DA-A	5	9,5 4,5-19,5	99,8 99,0-100	99,7 99,0-100
PAPRH	217-248 DA-A	3	16,0 5,0-37,0	99,6 99,0-100	99,4 99,0-99,7
GALAP	158-248 DA-A	4	6,2 3,0-8,0	92,4 77,5-100	97,2 90,0-100
APESV	217-253 DA-A	4	33,0 6,0-106,5	99,7 99,0-100	99,7 99,0-100
ALOMY	213-248 DA-A	4	111,7 7,0-192,5	79,0 67,5-100	83,9 77,5-95,0

**Tab.2. Orthogonal comparison to Jura EC winter cereals post-emergence- MARITIME EPPO Zone**

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control	
				GLOB1912H - 3.2 L/ha	Jura EC - 4L
				Mean Min-Max	Mean Min-Max
ALOMY	197-257 DA-A	2	116,5 8,0-225,0	73,7 47,5-100	78,7 57,5-100
APESV	202-257 DA-A	3	102,8 10,0-161,5	99,7 99,0-100	99,7 99,0-100
CENCY	202-219 DA-A	2	22,4 14,0-30,7	72,5 61,2-83,7	73,5 62,5-84,5
GALAP	173-257 DA-A	3	6,3 6,0-6,8	93,8 88,7-100	95,2 91,7-100
MATCH	218-228 DA-A	2	13,4 4,3-22,5	93,9 87,7-100	97,2 94,5-100
MATIN	197-257 DA-A	4	41,6 10,0-100	89,9 67,5-100	93,1 73,7-100
PAPRH	15-257 DA-A	6	18,3 5,0-75,5	98,0 95,0-100	98,0 94,2-100
STEME	15-257 DA-A	4	11,8 4,3-24,8	96,9 93,7-100	98,0 95,0-100,0
VERPE	173-221 DA-A	2	9,1 3,3-15,0	97,7 95,5-100	97,7 95,5-100
VIOAR	197-257 DA-A	4	89,2 30,0-259,5	99,2 98,0-100	99,1 98,0-100

**Tab.3. Orthogonal comparison to Jura EC winter cereals pre-emergency NORTH-EAST EPPO ZONE**

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control	
				GLOB1912H - 3.2 L/ha	Jura EC - 4L
				Mean Min-Max	Mean Min-Max
ALOMY	213-256 DA-A	5	99,6 16,2-192,5	75,7 67,5-85,0	83,1 77,5-90,0
APESV	217-259 DA-A	7	26,8 6,0-106,5	96,6 77,5-100	97,7 85,0-100
GALAP	158-271 DA-A	8	6,6 3,0-9,7	89,8 75,0-100	90,6 56,2-100
GERPU	220-238 DA-A	2	6,5 5,0-8,0	100	100
MATIN	158-253 DA-A	9	8,6 4,5-19,5	95,6 78,7-100	95,4 83,7-100
PAPRH	205-271 DA-A	9	10,3 4,7-37,0	96,8 83,7-100	94,0 67,5-100
STEME	158-271 DA-A	12	11,0 5,0-37,0	99,6 97,0-100	99,8 98,5-100
VERHE	207-231 DA-A	3	6,3 5,0-7,0	98,7 96,2-100	100,00
VERPE	158-256 DA-A	4	27,4 6,0-75,5	97,4 91,7-100	97,6 91,2-100
VIOAR	217-271 DA-A	3	103,5 6,0-294,5	96,2 90,0-100	99,7 99,0-100

**Tab.4. Orthogonal comparison to Jura EC winter cereals post-emergency NORTH-EAST EPPO ZONE**

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control	
				GLOB1912H - 3.2 L/ha	Jura EC - 4L
				Mean Min-Max	Mean Min-Max
ALOMY	197-257 DA-A	3	90,8 13,0-225,0	77,7 47,5-100	80,8 57,5-100
APESV	202-257 DA-A	8	50,3 7,0-161,5	97,7 91,2-100	99,0 93,2-100
CENCY	202-236 DA-A	3	17,6 8,0-30,7	59,2 32,5-83,7	61,9 38,7-84,5
GALAP	197-259 DA-A	5	6,6 5,0-8,0	97,7 88,7-100	98,7 93,7-100

GERPU	207-257 DA-A	2	13,5 9,0-18,0	100	100
MATIN	197-257 DA-A	5	53,3 10,0-100	89,4 67,5-100	94,5 73,7-100
PAPRH	15-259 DA-A	10	22,2 5,0-75,5	89,0 55,0-100	89,9 55,0-100
POAAN	219-220 DA-A	2	18,9 7,7-30,0	100	100
STEME	15-259 DA-A	10	12,2 6,0-24,8	98,8 93,7-100	99,2 95,0-100
VERHE	193-217 DA-A	3	8,3 7,0-10,0	100	100
VERPE	193-236 DA-A	3	8,7 5,0-15,0	100	100
VIOAR	197-259 DA-A	8	54,1 10,0-259,5	99,5 98,0-100	99,2 97,5-100

**Tab.5.**

**Orthogonal comparison to Jura EC winter cereals pre-emergence - SOUTH EAST EPPO ZONE**

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control	
				GLOB1912H - 3.2 L/ha	Jura EC - 4L
				Mean Min-Max	Mean Min-Max
APESV	200-228 DA-A	3	20.9 10.3-40.0	88.1 72.5-96.8	87.3 70.0-96.2
PAPRH	200-228 DA-A	2	57.2 55.5-59.0	94.4 93.7-95.00	95.3 95.0-95.6
POAAN	200-228 DA-A	2	38.3 33.8-42.8	94.7 94.4-95.0	95.0 93.1-96.8
STEME	200-228 DA-A	3	43.2 16.0-67.8	84.6 70.0-93.1	86.0 68.7-95.6

**Tab. 6. Orthogonal comparison to Jura EC winter cereals post-emergence - SOUTH EAST EPPO ZONE**

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control	
				GLOB1912H - 3.2 L/ha	Jura EC - 4L
				Mean Min-Max	Mean Min-Max
APESV	186-214 DA-A	3	20.9 10.3-40.0	90.0 77.5-96.8	90.6 77.5-97.5
PAPRH	186-214 DA-A	2	57.2 55.5-59.0	95.6 94.4-96.9	96.6 96.2-96.9
POAAN	186-214 DA-A	2	38.3 33.8-42.8	96.6 96.2-96.9	95.0 93.7-96.2
STEME	186-214 DA-A	3	43.2 16.0-67.8	89.8 81.2-94.4	90.0 80.0-95.0

### 3.2.3 Efficacy tests (KCP 6.2)

The trials presented in this BAD were conducted by contractor companies and official Research Institutes, all of which followed the EPPO standards and are officially recognized by the competent authorities to carry out field registration trials in accordance with the principles of Good Experimental Practice (GEP). Trials were conducted across a wide range of sites and across different EPPO Zones. The trials are therefore representative of a wide range of environmental conditions likely to be encountered in practice in the area of proposed use.

For a complete overview of the number of efficacy trials performed by crop, country and EPPO Climatic Zone reference is made to Table 3.2-6.

GLOB1912H is similar to the already registered product Jura (EC) (product code GLOB1319H). Just like Jura (EC), GLOB1912H is an EC formulation that contains the active substances prosulfocarb and diflufenican in concentrations of 667 g/L and 14 g/L, respectively.

Some of the efficacy trials performed on winter cereals tested both the old Jura (EC) (GLOB1319H) and GLOB1912H. These trials can therefore be used to demonstrate the equivalence of these products.

Both products were also tested together in some of the trials that support the pre-emergence use on potatoes. For the pre-emergence use GLOB1319H and GLOB1912H can be considered identical products, because they contain the same amount of active substances. When both products were tested at the same rate, a mean efficacy of the efficacy of the two products was calculated.

In sunflower only GLOB1319H was tested in the efficacy trials. As explained earlier, the data obtained with GLOB1319H can be used to support the registration of GLOB1912H, because they contain the same amount of active substances and are used in pre-emergence.

#### 3.2.3.1 Information on efficacy trials performed on potatoes

**Table 3.2-8 Details on trial methodology**

<b>Guidelines</b>	General guidelines	EPPO PP 1/135(4); 1/152(4); 1/181(4)
	Specific guidelines	EPPO PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD
	Plot size	12-28 m <sup>2</sup>
	Number of replications	4
<b>Crop</b>	Trials per crop	Potatoes (30) Maritime EPPO Zone: 15 CZ/DE: 9 North-East EPPO Zone: 15
	Varieties per crop	Adela Amado Antonie Anushka Artus Bellarosa Bintje Dali Desiree Gala Goldmarie Kuras Lady Amarilla Lilly Lord

		Melody Opal Sirtema Solist Stemster Teele
	Sowing period	April 7 – June 6 (All EPPO Zones) Maritime EPPO Zone: April 19 – June 6 CZ/DE: April 19 – May 31 North-East EPPO Zone: April 7 – May 27
<b>Application</b>	Crop stage (BBCH)* at application	Pre-emergence (BBCH <10)
	Timing Pest stage at application	CHEAL: 0-10 ECHCG: 0-10 FUMOF: 0-10 GERPU: 0-10 LAMPU: 10 POLAV: 10 POLCO: 0-10 SOLNI: 0-12 SYMOF: 12 THLAR: 0-10 VERPE: 0-10 Rest: BBCH <10 (pre-emergence)
	Number of applications	1
	Spray volumes	200-300 L/ha
<b>Assessment</b>	Assessment types	Number of weeds/m <sup>2</sup> , % of weed coverage, phytotoxicity
	Assessment timing	From application until end of the trial
	Field / Greenhouse...	Field trials

### 3.2.3.2 Information on efficacy trials performed on sunflowers

**Table 3.2-9 Details on trial methodology**

<b>Guidelines</b>	General guidelines	EPP0 PP 1/135(4); 1/152(4); 1/181(4)
	Specific guidelines	EPP0 PP 1/63(3)
<b>Experimental design</b>	Plot design	RCBD
	Plot size	12-27.5 m <sup>2</sup>
	Number of replications	4
<b>Crop</b>	Trials per crop	Sunflowers (23) Maritime EPP0 Zone: 7 CZ/DE: 4 Mediterranean EPP0 Zone: 10 South-East EPP0 Zone: 6
	Varieties per crop	Apolon Columbella ES Baltic ES Shakira Euromis CL Express Sun Klarika LG 54.92 HO (CL) LG 5687 HO LG50627 CLP Luka P64HE39 Parma Peredovick RGT Buffalo SY Excellio SY Experto SY Valeo UNIC
	Sowing period	April 9 – May 23 (All EPP0 Zones) Maritime EPP0 Zone: April 9 – April 29 CZ/DE: April 17 – April 29 Mediterranean EPP0 Zone: April 14 – May 23 South-East EPP0 Zone: April 11 – April 22
<b>Application</b>	Crop stage (BBCH)* at application	Pre-emergence (BBCH <10)
	Timing Pest stage at application	Pre-emergence (BBCH <10)
	Number of applications	1
	Spray volumes	150-300
<b>Assessment</b>	Assessment types	Number of weeds/m <sup>2</sup> , % of weed coverage, phytotoxicity
	Assessment timing	From application until end of the trial
	Field / Greenhouse...	Field trials

### 3.2.3.3 Information on efficacy trials performed on winter cereals

**Table 3.2-10 Details on trial methodology**

<b>Guidelines</b>	General guidelines	EPPO PP 1/135(4); 1/152(4); 1/181(4)
	Specific guidelines	EPPO PP 1/93 (3)
<b>Experimental design</b>	Plot design	RCBD
	Plot size	Pre-emergence application: 12-50 m <sup>2</sup> Post-emergence application: 12-30 m <sup>2</sup>
	Number of replications	4
<b>Crop</b>	Trials per crop	<b>Ref. Table 3.2-6: Presentation of efficacy trials</b> HORVW pre-em: 10 / post-em: 11 <sup>(1)</sup> TRZAW pre-em : 32 / post-em 30 <sup>(2)</sup> TRZDW pre-em 1 TTLWI pre-em : 1 / post-em 2 <sup>(1)</sup> KCP 6.2-27 pre- and post- emergence application <sup>(2)</sup> KCP 6.2-26, 28 pre- and post- emergence application
	Varieties per crop	HORVW pre-em: 9 / post-em: 10 <sup>(1)</sup> TRZAW pre-em: 29 / post-em 26 <sup>(2)</sup> TRZDW pre-em 1 TTLWI pre-em : 1 / post-em 2 <sup>(1)</sup> KCP 6.2-27 pre- and post- emergence application <sup>(2)</sup> KCP 6.2-26, 28 pre- and post- emergence application
	Sowing period	<b>HORVW pre-em</b> September 29– December 21 (All EPPO Zones) Maritime EPPO Zone: October 8 – October 23 CZ/DE: October 8 – October 23 North-East EPPO Zone: September 29 – October 10 South-East EPPO Zone: 10 October <b>HORVW post-em</b> September 23 – December 26 (All EPPO Zones) Maritime EPPO Zone: September 23 – October 15 CZ/DE: September 23 – October 15 North-East EPPO Zone: September 25 – October 5 South-East EPPO Zone: October 10 <b>TRZAW pre-em</b> September 23 – November 6 (All EPPO Zones) Maritime EPPO Zone: September 29 – October 21 CZ/DE: September 30 – October 21 North-East EPPO Zone: September 23 – October 21 South-East EPPO Zone: October 10 – November 6 <b>TRZAW post-em</b> September 23 – November 6 (All EPPO Zones) Maritime EPPO Zone: September 14 – October 24 CZ/DE: September 22 – October 15 North-East EPPO Zone: September 23 – October 8 South-East EPPO Zone: October 10 – November 6 <b>TRZDW pre-em</b> Mediterrane EPPO Zone: November 16 <b>TTLWI pre-em</b> North-East EPPO Zone: October 12 <b>TTLWI post-em</b> September 7 – September 30 (All EPPO Zones) Maritime EPPO Zone: September 30

		North-East Eppo Zone: September 7
<b>Application</b>	Crop stage (BBCH)* at application	Pre-emergence application: BBCH <10 Post-emergence application: BBCH 10-13
	Timing Pest stage at application	Pre-emergence application: APESV 0-11 ANTNO: 12 CYNDA: 11 Rest: BBCH <10 (pre-emergence) <u>Post-emergence</u> ALOMY BBCH: 0-12 ANTNO BBCH: 12 ANYCL BBCH: 14 APESV BBCH: 0-12 AVEFA BBCH: 11 AVEST BBCH: 11-13 BRSNN BBCH: 12 CAPBP BBCH: 10 CENCY BBCH: 0-12 CHYSE BBCH: 14 CLDAR BBCH: 13 CONAR BBCH: 0 CYNDA BBCH: 11 DESSO BBCH: 11 DIGIS BBCH: 13 FUMOF BBCH: 10-12 GALAP BBCH: 0-13 GERPU BBCH: 0-12 LACSE BBCH: 12 LAMPU BBCH: 0-10 LOLMU BBCH: 10-13 LOLPE BBCH: 11 LOLRI BBCH: 10-13 MATCH BBCH: 0-10 MATIN BBCH: 0-12 PAPRH BBCH: 0-13 PICEC BBCH: 10 POAAN BBCH: 0-12 POLAV BBCH: 10 POLCO BBCH: 0-10 SINAR BBCH: 12-14 STEME BBCH: 0-13 THLAR BBCH: 10 VERAG BBCH: 0 VERHE BBCH: 0-12 VERPE BBCH: 0-12 VIOAR BBCH: 0-12
	Number of applications	1
	Spray volumes	Pre-emergence application: 150-300 L/ha Post-emergence application: 150-300 L/ha
<b>Assessment</b>	Assessment types	Number of weeds/m <sup>2</sup> , % of weed coverage, phytotoxicity
	Assessment timing	From application until end of the trial
	Field / Greenhouse...	Field trials

### 3.2.3.4 Presentation of the data

#### Statistical analysis

Data were analysed using a two-way analysis of variance (ANOVA). The probability of no significant differences occurring between treatment means is calculated as the F probability value (Prob(F)). Student-Newman-Keuls test was then applied to separate any treatment differences that may be implied by the ANOVA TEST (Prob(F) < 0.05) and these are indicated by the LSD-value and by a letter-test. The ANOVA data and the plot data are included in the appendices of the study reports.

#### Trial results

The individual assessment results of the final assessments made in each trial are presented below for all trials regardless of the EPPO Climatic Zone they were performed in. All results are summarized based on crop and weed species. Weed species with only 1 (valid) trial result are all shown together at the end of the efficacy results.

The efficacy of the pre-emergence and the post-emergence application of GLOB1912H are summarized separately, but for all winter cereals combined, because the BBCH range at application (for the respective application timings) was almost identical for all crops. Because of their highly similar morphology and the similar developmental stage at application (i.e. height and crop interception) the amount of product that reaches the weeds can be considered the same. Therefore it is acceptable to summarize the efficacy data obtained in all winter cereals together.

It should be noted that a lot of these reference products are highly similar and contain the same active substance(s) at the same dose rates(s). When similar products were applied at the same dose rates the efficacy results are taken together under the following treatment names.

Ref. Pros.\*

reference products containing 800 g/L propamocarb (EC formulation)

Ref. Dif. Flu.

reference products containing 400 g/L flufenacet + 200 g/L diflufenican (SC formulation)

Ref Acl.

reference products containing 600 g/L aclonifen (SC formulation)

\*Roxy 800 EC is property of Globachem NV and was often included as a reference in the trials on winter cereals, even when the trials already included a reference product with the same characteristics. Therefore the results for Roxy 800 EC are shown in separate lines.

For more information on trial-specific reference products reference is made to Table 3.2-7, **Błąd! Nie można odnaleźć źródła odwołania.**, and **Błąd! Nie można odnaleźć źródła odwołania.**

The minimum pest pressure in the untreated should be at least 5 plants per square meter or alternatively 2% ground coverage for the results of any assessment to be valid. For all results this information is given in the results tables. It should be noted that in the summaries the pest pressure for the untreated is expressed in number of weeds per square meter. All results shown in summaries fulfil the minimum requirement.

Assessments that do not have high enough pest pressure are marked in grey and are not included in any of the summaries. For some trials pest pressure was only expressed as % ground coverage.

It should be noted that the efficacy results obtained with the 3 L/ha dose rate of GLOB1912H can be used to support the 3.2 L/ha dose rate, because there is less than 10% difference between the two.

This is supported by the “CRD Data Requirements Handbook: Chapter 8 Efficacy” as well as the “Guidance on requirements for efficacy data for zonal evaluation of a plant protection product in the Northern Zone”. Both documents state that changes of less than 10% in the amount of any formulation component applied, including the active substance, are minor and as such require no further data.

It can also be expected that GLOB1912H applied at a 3.2 L/ha dose rate will perform at least as good as any lower dose rate.

Efficacy data extrapolated from the 3 L/ha dose rate is indicated in bold in the results tables.

Some trials on winter cereals and potatoes included treatment with GLOB1912H and GLOB1319H, which is the product code of the currently registered Jura (EC). This product contains the same amount of active substances in the same (EC) formulation type. As demonstrated in the trial results these products have highly similar performance. Therefore a mean efficacy was calculated for the efficacy of both products when they were performed at the same dose rate.

For the trials on sunflowers only GLOB1319H was tested in the trials. However, because it contains the same amount of active substances and the product is used in a pre-emergence application the efficacy is not impacted by the differences in formulation between the two.

### 3.2.3.5 Results of efficacy trials performed on potatoes

The tables below show the summarized efficacy results of GLOB1912H for all trial data shown in the tables above with the resulting susceptibility of each weed, in accordance with Table 3.2-4.

An orthogonal comparison between the efficacy results obtained with the maximum requested dose rate of 3.2 L/ha of GLOB1912H and the best performing reference product in each individual trial is also included in these tables.

Just like for the presentation of the individual efficacy assessment data presented above, the results are presented for all trials regardless of the EPPO Climatic Zone they were performed in. Next, a summary is made for the Maritime EPPO Zone (MAR), Polish trials (PL), Polish trials combined with Czech and German trials (PL + CZ/DE) and for the South-East EPPO Zone (S-E).

**Efficacy results table 3.2.3.5-1 Summary and orthogonal comparison of all efficacy data on pre-em use on potatoes across all EPPO Zones**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control						# trials >, <, = comp. to standard > 5% diff.		
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.			
							Mean	Min	Max			Mean		Min	Max
AGRRE	PLANT	123-123 DA-A	2	15.75	14.75	16.75	5.63	3.75	7.50			20.00	15.00	25.00	2x <
AMARE	PLANT	39-87 DA-A	5	19.10	5.25	46.00	91.25	75.00	100.00	S	S	93.50	72.50	100.00	1x =, 1x <
CAPBP	PLANT	33-43 DA-A	2	32.33	9.00	55.65	92.50	85.00	100.00	S	S	92.50	85.00	100.00	2x =
CHEAL	PLANT	39-123 DA-A	27	17.26	4.88	55.00	82.58	30.00	100.00	MS	MS	79.84	20.00	100.00	15x >, 6x =, 6x <
ECHCG	PLANT	30-123 DA-A	23	25.60	4.50	155.80	62.97	5.00	100.00	MT	MT	60.98	15.00	100.00	5x >, 10x =, 8x <
ECHCG	EAR	39-98 DA-A	20	55.66	2.25	493.75	78.31	17.85	100.00	MS	MS	74.07	8.30	100.00	10x >, 5x =, 5x <
FUMOF	PLANT	43-98 DA-A	3	9.92	6.25	17.00	71.04	50.00	82.50	MS	MT	68.75	47.50	90.00	1x >, 2x <
GAETE	PLANT	39-43 DA-A	3	13.58	10.50	16.50	97.50	92.50	100.00	HS	S	89.17	80.00	100.00	1x >, 2x =
GASPA	PLANT	45-120 DA-A	4	9.19	6.00	16.00	91.88	82.50	100.00	S	S	95.63	82.50	100.00	1x >, 1x =, 2x <
GERPU	PLANT	98-123 DA-A	4	9.31	5.75	13.00	49.94	36.25	74.75			73.13	35.00	95.00	1x =, 3x <
MATIN	PLANT	39-98 DA-A	7	10.32	6.00	15.25	83.84	51.25	100.00	MS	MS	84.82	53.75	100.00	2x >, 4x =, 1x <
MERAN	PLANT	61-62 DA-A	2	11.88	10.50	13.25	76.88	61.25	92.50	MS	MS	36.88	31.25	42.50	2x >
POAAN	PLANT	39-39 DA-A	2	15.00	15.00	15.00	100.00	100.00	100.00	HS	S	100.00	100.00	100.00	2x =
POLCO	PLANT	39-120 DA-A	11	12.01	5.00	38.33	89.20	56.25	100.00	S	S	74.18	20.00	100.00	7x >, 3x =, 1x <
POLLA	PLANT	39-39 DA-A	2	5.00	5.00	5.00	94.69	94.38	95.00	S	S	83.13	72.50	93.75	1x >, 1x =
POLPE	PLANT	39-80 DA-A	5	6.50	5.25	7.50	98.00	91.88	100.00	HS	S	94.25	83.75	100.00	2x >, 3x =
POLPI	PLANT	39-39 DA-A	2	61.88	20.50	103.25	92.81	88.13	97.50	S	S	98.75	98.75	98.75	1x =, 1x <
SOLNI	PLANT	39-119 DA-A	16	10.78	1.75	25.00	79.66	21.25	100.00	MS	MS	76.09	0.00	100.00	5x >, 4x =, 7x <
THLAR	PLANT	30-98 DA-A	4	18.38	7.25	30.00	99.69	98.75	100.00	HS	S	98.44	95.00	100.00	4x =
VERPE	PLANT	30-98 DA-A	4	13.13	5.25	21.25	85.00	40.00	100.00	S	S	87.50	50.00	100.00	3x =, 1x <
VIOAR	PLANT	39-80 DA-A	7	9.82	5.25	17.50	96.43	85.00	100.00	HS	S	82.68	50.00	100.00	6x >, 1x <

**Efficacy results table 3.2.3.5-2 Summary and orthogonal comparison of all efficacy data on pre-em use on potatoes in the Maritime EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control							
							GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.		
				Mean	Min	Max	Mean	Min	Max			Mean	Min	Max
AMARE	PLANT	87-87 DA-A	1	46.00	46.00	46.00	75.00	75.00	75.00	MS	MS	72.50	72.50	72.50
CHEAL	PLANT	39-119 DA-A	13	15.98	4.88	55.00	76.28	30.00	100.00	MS	MS	80.04	63.75	100.00
ECHCG	PLANT	30-119 DA-A	11	22.06	5.00	92.50	56.76	10.00	100.00	MT		54.09	16.25	100.00
ECHCG	EAR	39-98 DA-A	9	21.18	3.00	52.00	62.86	17.85	100.00	MT	MT	58.19	8.30	100.00
FUMOF	PLANT	98-98 DA-A	2	6.38	6.25	6.50	65.31	50.00	80.63	MT	MT	79.38	68.75	90.00
GAETE	PLANT	39-39 DA-A	2	12.13	10.50	13.75	100.00	100.00	100.00	HS	S	90.00	80.00	100.00
GERPU	PLANT	98-98 DA-A	2	6.13	5.75	6.50	44.38	36.25	52.50			82.50	70.00	95.00
MATIN	PLANT	39-98 DA-A	4	9.56	7.00	11.25	77.97	51.25	100.00	MS	MS	81.88	53.75	100.00
MERAN	PLANT	61-62 DA-A	2	11.88	10.50	13.25	76.88	61.25	92.50	MS	MS	36.88	31.25	42.50
POAAN	PLANT	39-39 DA-A	2	15.00	15.00	15.00	100.00	100.00	100.00	HS	S	100.00	100.00	100.00
POLCO	PLANT	60-62 DA-A	4	11.25	5.00	21.00	87.03	75.00	96.13	S	S	71.19	42.50	96.50
POLLA	PLANT	39-39 DA-A	2	5.00	5.00	5.00	94.69	94.38	95.00	S	S	83.13	72.50	93.75
SOLNI	PLANT	61-119 DA-A	12	11.79	5.25	25.00	76.57	21.25	100.00	MS	MS	71.03	0.00	100.00
THLAR	PLANT	30-98 DA-A	4	18.38	7.25	30.00	99.69	98.75	100.00	HS	S	98.44	95.00	100.00
VERPE	PLANT	30-98 DA-A	4	13.13	5.25	21.25	85.00	40.00	100.00	S	S	87.50	50.00	100.00
VIOAR	PLANT	39-39 DA-A	2	16.25	15.00	17.50	100.00	100.00	100.00	HS	S	77.50	75.00	80.00

**Efficacy results table 3.2.3.5-3 Summary and orthogonal comparison of all efficacy data on pre-em use on potatoes in Poland**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control							
							GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.		
				Mean	Min	Max	Mean	Min	Max			Mean	Min	Max
AGRRE	PLANT	123-123 DA-A	2	15.75	14.75	16.75	5.63	3.75	7.50			20.00	15.00	25.00
AMARE	PLANT	39-42 DA-A	4	12.38	5.25	29.75	95.31	81.25	100.00	HS	S	98.75	96.25	100.00
CAPBP	PLANT	33-43 DA-A	2	32.33	9.00	55.65	92.50	85.00	100.00	S	S	92.50	85.00	100.00
CHEAL	PLANT	39-123 DA-A	11	19.33	6.00	35.50	86.76	50.00	100.00	S	S	75.80	20.00	100.00
ECHCG	PLANT	39-123 DA-A	10	33.43	8.25	155.80	65.13	5.00	92.50	MT	MT	63.13	15.00	100.00
ECHCG	EAR	39-82 DA-A	9	99.59	7.30	493.75	89.80	82.24	100.00	S	S	85.63	71.41	100.00
FUMOF	PLANT	43-43 DA-A	1	17.00	17.00	17.00	82.50	82.50	82.50	MS	MS	47.50	47.50	47.50
GAETE	PLANT	43-43 DA-A	1	16.50	16.50	16.50	92.50	92.50	92.50	S	S	87.50	87.50	87.50
GASPA	PLANT	45-120 DA-A	4	9.19	6.00	16.00	91.88	82.50	100.00	S	S	95.63	82.50	100.00
GERPU	PLANT	123-123 DA-A	2	12.50	12.00	13.00	55.50	36.25	74.75	MT		63.75	35.00	92.50
MATIN	PLANT	45-80 DA-A	3	11.33	6.00	15.25	91.67	87.50	100.00	S	S	88.75	77.50	100.00
POLCO	PLANT	39-120 DA-A	7	12.44	5.00	38.33	90.45	56.25	100.00	S	S	75.89	20.00	100.00
POLPE	PLANT	39-80 DA-A	5	6.50	5.25	7.50	98.00	91.88	100.00	HS	S	94.25	83.75	100.00
POLPI	PLANT	39-39 DA-A	2	61.88	20.50	103.25	92.81	88.13	97.50	S	S	98.75	98.75	98.75
SOLNI	PLANT	39-80 DA-A	5	7.50	1.75	22.50	91.13	73.75	100.00	S	S	93.00	83.75	100.00
VIOAR	PLANT	43-80 DA-A	5	7.25	5.25	9.50	95.00	85.00	100.00	HS	S	84.75	50.00	100.00

**Efficacy results table 3.2.3.5-4 Summary and orthogonal comparison of all efficacy data on pre-em use on potatoes in Poland, Czech and Germany**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control							
							GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.		
				Mean	Min	Max	Mean	Min	Max			Mean	Min	Max
AGRRE	PLANT	123-123 DA-A	2	15.75	14.75	16.75	5.63	3.75	7.50			20.00	15.00	25.00
AMARE	PLANT	39-87 DA-A	5	19.10	5.25	46.00	91.25	75.00	100.00	S	S	93.50	72.50	100.00
CAPBP	PLANT	33-43 DA-A	2	32.33	9.00	55.65	92.50	85.00	100.00	S	S	92.50	85.00	100.00
CHEAL	PLANT	39-123 DA-A	20	16.91	5.50	43.00	81.21	30.00	100.00	MS	MS	78.78	20.00	100.00
ECHCG	PLANT	30-123 DA-A	18	24.98	5.00	155.80	64.90	5.00	100.00	MT	MT	62.57	15.00	100.00
ECHCG	EAR	39-98 DA-A	15	67.22	3.00	493.75	82.02	39.30	100.00	MS	MS	80.68	47.74	100.00
FUMOF	PLANT	43-98 DA-A	3	9.92	6.25	17.00	71.04	50.00	82.50	MS	MT	68.75	47.50	90.00
GAETE	PLANT	39-43 DA-A	3	13.58	10.50	16.50	97.50	92.50	100.00	HS	S	89.17	80.00	100.00
GASPA	PLANT	45-120 DA-A	4	9.19	6.00	16.00	91.88	82.50	100.00	S	S	95.63	82.50	100.00
GERPU	PLANT	98-123 DA-A	4	9.31	5.75	13.00	49.94	36.25	74.75			73.13	35.00	95.00
MATIN	PLANT	39-98 DA-A	7	10.32	6.00	15.25	83.84	51.25	100.00	MS	MS	84.82	53.75	100.00
POAAN	PLANT	39-39 DA-A	2	15.00	15.00	15.00	100.00	100.00	100.00	HS	S	100.00	100.00	100.00
POLCO	PLANT	39-120 DA-A	9	11.04	5.00	38.33	91.67	56.25	100.00	S	S	80.25	20.00	100.00
POLLA	PLANT	39-39 DA-A	2	5.00	5.00	5.00	94.69	94.38	95.00	S	S	83.13	72.50	93.75
POLPE	PLANT	39-80 DA-A	5	6.50	5.25	7.50	98.00	91.88	100.00	HS	S	94.25	83.75	100.00
POLPI	PLANT	39-39 DA-A	2	61.88	20.50	103.25	92.81	88.13	97.50	S	S	98.75	98.75	98.75
SOLNI	PLANT	39-119 DA-A	8	8.91	1.75	23.00	82.89	58.75	100.00	MS	MS	88.69	70.00	100.00
THLAR	PLANT	30-98 DA-A	4	18.38	7.25	30.00	99.69	98.75	100.00	HS	S	98.44	95.00	100.00
VERPE	PLANT	30-98 DA-A	4	13.13	5.25	21.25	85.00	40.00	100.00	S	S	87.50	50.00	100.00
VIOAR	PLANT	39-80 DA-A	7	9.82	5.25	17.50	96.43	85.00	100.00	HS	S	82.68	50.00	100.00

**Efficacy results table 3.2.3.5-5 Summary and orthogonal comparison of all efficacy data on pre-em use on potatoes in the South-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control							
							GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.		
				Mean	Min	Max	Mean	Min	Max			Mean	Min	Max
CHEAL	PLANT	44-46 DA-A	3	15.25	6.25	20.25	94.58	91.00	97.75	S	S	93.79	88.13	98.25
ECHCG	PLANT	44-46 DA-A	2	5.90	4.50	7.30	86.28	81.25	91.30	S	S	88.13	86.25	90.00
ECHCG	EAR	0-0 DA-A	2	13.13	2.25	24.00	96.13	92.26	100.00	HS	S	93.48	86.96	100.00
SOLNI	PLANT	44-46 DA-A	3	8.25	5.25	12.50	82.33	75.00	93.25	MS	MS	64.38	18.75	93.75

## Conclusion

The tables above demonstrate the good efficacy of GLOB1912H at the maximum requested dose rate of 3.2 L/ha. Furthermore, its performance is highly similar to that of the reference products. It should be noted that all data in support of the 3.2 L/ha dose rate can be used to support a dose rate of 3 L/ha, because they differ less than 10%.

This is supported by the “CRD Data Requirements Handbook: Chapter 8 Efficacy” as well as the “Guidance on requirements for efficacy data for zonal evaluation of a plant protection product in the Northern Zone”. Both documents state that changes of less than 10% in the amount of any formulation component applied, including the active substance, are minor and as such require no further data.

### 3.2.3.6 Results of efficacy trials performed on sunflowers

The tables below show the summarized efficacy results of GLOB1912H for all trial data shown in the tables above with the resulting susceptibility of each weed, in accordance with Table 3.2-4.

An orthogonal comparison between the efficacy results obtained with the maximum requested dose rate of 3.2 L/ha of GLOB1912H and the best performing reference product in each individual trial is also included in these tables.

Just like for the presentation of the individual efficacy assessment data presented above, the results are presented for all trials regardless of the EPPO Climatic Zone they were performed in. Next, a summary is made for each EPPO Zone. Because Poland accepts data from the Czech Republic and Germany the trials results from these countries are also summarized separately.

**Efficacy results table 3.2.3.6-1 Summary and orthogonal comparison of all efficacy data on pre-em use on sunflowers across all EPPO Zones**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control						# trials >, <, = comp. to standard > 5% diff.		
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.			
							Mean	Min	Max			Mean		Min	Max
AMARE	PLANT	56-115 DA-A	6	30.17	12.00	66.25	80.01	55.00	98.75	MS	MS	84.13	57.50	100.00	4x =, 2x <
AMBEL	PLANT	56-108 DA-A	4	40.00	7.00	115.00	61.28	12.50	85.00	MT	MT	53.13	6.25	80.00	2x >, 2x =
CHEAL	PLANT	55-115 DA-A	19	26.58	5.50	138.00	89.42	58.80	100.00	S	S	84.45	15.00	100.00	5x >, 10x =, 4x <
CONAR	PLANT	63-92 DA-A	2	8.25	6.75	9.75	50.65	47.50	53.80	MT	MT	51.88	50.00	53.75	1x =, 1x <
ECHCG	PLANT	55-115 DA-A	17	24.93	4.50	76.75	69.30	17.50	99.00	MT	MT	69.31	0.00	96.25	2x >, 9x =, 6x <
MATIN	PLANT	56-108 DA-A	2	7.88	7.50	8.25	99.00	98.00	100.00	HS	S	47.75	0.00	95.50	1x >, 1x =
MERAN	PLANT	64-68 DA-A	2	25.50	24.50	26.50	41.90	6.30	77.50	S	S	81.25	72.50	90.00	2x <
POLAV	PLANT	112-115 DA-A	3	6.25	4.50	8.75	73.37	65.00	78.80	MS	MT	79.17	75.00	86.25	1x =, 2x <
POLCO	PLANT	56-62 DA-A	4	10.44	6.25	21.00	91.53	82.50	100.00	S	S	65.75	22.50	98.50	2x >, 1x =, 1x <
POLLA	PLANT	55-115 DA-A	5	18.65	3.00	59.50	87.50	55.00	100.00	S	S	65.00	0.00	100.00	2x >, 3x =
SOLNI	PLANT	60-112 DA-A	2	8.38	7.25	9.50	93.00	87.50	98.50	S	S	95.25	93.75	96.75	1x =, 1x <

**Efficacy results table 3.2.3.6-2 Summary and orthogonal comparison of all efficacy data on pre-em use on sunflowers in the Maritime Eppo Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control							
							GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.		
				Mean	Min	Max	Mean	Min	Max			Mean	Min	Max
AMARE	PLANT	71-71 DA-A	1	26.00	26.00	26.00	98.75	98.75	98.75	HS	S	94.75	94.75	94.75
AMBEL	PLANT	56-56 DA-A	1	115.00	115.00	115.00	12.50	12.50	12.50			6.25	6.25	6.25
CHEAL	PLANT	56-71 DA-A	6	57.08	11.75	138.00	95.59	90.00	100.00	HS	S	76.13	15.00	98.50
ECHCG	PLANT	56-71 DA-A	5	30.25	9.00	71.00	79.85	62.50	99.00	MS	MS	64.75	0.00	96.25
MATIN	PLANT	56-56 DA-A	1	7.50	7.50	7.50	100.00	100.00	100.00	HS	S	0.00	0.00	0.00
MERAN	PLANT	64-64 DA-A	1	24.50	24.50	24.50	77.50	77.50	77.50	MS	MS	90.00	90.00	90.00
POLCO	PLANT	56-62 DA-A	4	10.44	6.25	21.00	91.53	82.50	100.00	S	S	65.75	22.50	98.50
POLLA	PLANT	56-56 DA-A	2	13.38	6.75	20.00	100.00	100.00	100.00	HS	S	42.50	0.00	85.00

**Efficacy results table 3.2.3.6-3 Summary and orthogonal comparison of all efficacy data on pre-em use on sunflowers in Czech and Germany**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control							
							GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.		
				Mean	Min	Max	Mean	Min	Max			Mean	Min	Max
AMARE	PLANT	71-71 DA-A	1	26.00	26.00	26.00	98.75	98.75	98.75	HS	S	94.75	94.75	94.75
CHEAL	PLANT	56-71 DA-A	4	34.75	11.75	73.50	98.26	95.00	100.00	HS	S	66.50	15.00	98.50
ECHCG	PLANT	56-71 DA-A	4	26.88	9.00	71.00	81.69	62.50	99.00	MS	MS	59.69	0.00	96.25
MATIN	PLANT	56-56 DA-A	1	7.50	7.50	7.50	100.00	100.00	100.00	HS	S	0.00	0.00	0.00
POLCO	PLANT	56-56 DA-A	3	11.75	6.25	21.00	94.10	82.50	100.00	S	S	57.00	22.50	98.50
POLLA	PLANT	56-56 DA-A	2	13.38	6.75	20.00	100.00	100.00	100.00	HS	S	42.50	0.00	85.00

**Efficacy results table 3.2.3.6-4 Summary and orthogonal comparison of all efficacy data on pre-em use on sunflowers in the Mediterranean Eppo Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control							
							GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.		
				Mean	Min	Max	Mean	Min	Max			Mean	Min	Max
AMARE	PLANT	56-115 DA-A	4	34.38	12.00	66.25	81.58	67.50	91.30	MS	MS	88.13	82.50	100.00
CHEAL	PLANT	56-112 DA-A	8	8.22	5.50	15.00	88.39	58.80	100.00	S	S	95.19	80.00	100.00
CONAR	PLANT	92-92 DA-A	1	6.75	6.75	6.75	47.50	47.50	47.50			53.75	53.75	53.75
ECHCG	PLANT	56-112 DA-A	6	22.63	4.75	76.75	56.46	17.50	95.00	MT		69.88	28.75	95.50
MERAN	PLANT	68-68 DA-A	1	26.50	26.50	26.50	6.30	6.30	6.30			72.50	72.50	72.50
POLAV	PLANT	112-112 DA-A	2	7.13	5.50	8.75	70.65	65.00	76.30	MS	MT	80.63	75.00	86.25
POLLA	PLANT	59-59 DA-A	1	3.00	3.00	3.00	100.00	100.00	100.00	HS	S	100.00	100.00	100.00
SOLNI	PLANT	60-112 DA-A	2	8.38	7.25	9.50	93.00	87.50	98.50	S	S	95.25	93.75	96.75

**Efficacy results table 3.2.3.6-5 Summary and orthogonal comparison of all efficacy data on pre-em use on sunflowers in the South-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control							
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept	Best Ref.		
							Mean	Min	Max			Mean	Min	Max
AMARE	PLANT	102-115 DA-A	2	15.50	13.50	17.50	68.75	55.00	82.50	MT	MT	70.00	57.50	82.50
AMBEL	PLANT	62-108 DA-A	3	15.00	7.00	24.75	77.53	71.30	85.00	MS	MS	68.75	52.50	80.00
CHEAL	PLANT	55-115 DA-A	5	19.35	7.00	33.75	83.65	67.50	98.25	MS	MS	77.25	55.00	98.75
CONAR	PLANT	63-63 DA-A	1	9.75	9.75	9.75	53.80	53.80	53.80	MT		50.00	50.00	50.00
ECHCG	PLANT	55-115 DA-A	6	22.79	4.50	49.50	73.35	52.50	90.00	MS	MT	72.54	50.00	89.00
MATIN	PLANT	108-108 DA-A	1	8.25	8.25	8.25	98.00	98.00	98.00	HS	S	95.50	95.50	95.50
POLAV	PLANT	115-115 DA-A	1	4.50	4.50	4.50	78.80	78.80	78.80	MS	MS	76.25	76.25	76.25
POLLA	PLANT	55-115 DA-A	2	31.75	4.00	59.50	68.75	55.00	82.50	MT	MT	70.00	55.00	85.00

**Conclusion**

The tables above demonstrate the good efficacy of GLOB1912H at the maximum requested dose rate of 3.2 L/ha. Furthermore, its performance is highly similar to that of the reference products. It should be noted that all data in support of the 3.2 L/ha dose rate can be used to support a dose rate of 3 L/ha, because they differ less than 10%.

This is supported by the “CRD Data Requirements Handbook: Chapter 8 Efficacy” as well as the “Guidance on requirements for efficacy data for zonal evaluation of a plant protection product in the Northern Zone”. Both documents state that changes of less than 10% in the amount of any formulation component applied, including the active substance, are minor and as such require no further data.

### **3.2.3.7 Results of efficacy trials performed for the pre-emergence use on winter cereals**

The tables below show the summarized efficacy results of GLOB1912H for all trial data shown in the tables above with the resulting susceptibility of each weed, in accordance with Table 3.2-4.

Just like for the presentation of the individual efficacy assessment data presented above, the results are presented for all trials regardless of the EPPO Climatic Zone they were performed in. Next, a summary is made for the Maritime EPPO Zone (MAR), North East EPPO Zone (PL), North-East EPPO Zone combined with Czech and German trials (PL + CZ/DE), the Mediterranean EPPO Zone (MED) and for the South-East EPPO Zone (S-E).

**Efficacy results table 3.2.3.7-1 Summary of all efficacy data on pre-em use on winter cereals - all EPPO Zones**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	213-256 DA-A	12	58.82	6.00	192.50	87.15	67.50	100.00	S	S
	EAR	213-256 DA-A	12	128.80	4.56	383.00	85.57	50.69	100.00	S	S
APESV	PLANT	112-259 DA-A	14	25.65	5.00	106.50	95.71	72.50	100.00	HS	S
	EAR	112-274 DA-A	15	39.09	4.50	133.00	92.53	39.40	100.00	S	S
GALAP	PLANT	158-271 DA-A	19	7.81	3.00	18.00	83.82	12.50	100.00	MS	MS
GERPU	PLANT	220-238 DA-A	3	7.67	5.00	10.00	100.00	100.00	100.00	HS	S
LOLMU	PLANT	180-218 DA-A	5	15.00	5.00	28.00	90.75	75.00	97.50	S	S
	EAR	180-218 DA-A	5	34.85	4.75	127.75	91.42	77.59	100.00	S	S
MATCH	PLANT	112-235 DA-A	6	13.03	3.90	39.00	90.92	72.50	100.00	S	S
MATIN	PLANT	113-273 DA-A	19	8.65	4.50	19.50	94.00	72.50	100.00	S	S
PAPRH	PLANT	184-271 DA-A	24	31.98	4.00	225.00	95.91	95.91	95.91	HS	-
POAAN	PLANT	200-273 DA-A	8	101.24	5.00	550.00	94.77	88.75	100.00	S	S
	EAR	200-259 DA-A	8	286.45	12.00	2056.25	95.93	90.73	100.00	HS	S
POLAV	PLANT	271-273 DA-A	2	8.20	8.00	8.40	56.25	35.00	77.50	MT	-
POLCO	PLANT	271-273 DA-A	2	10.50	6.00	15.00	36.25	5.00	67.50	-	-
STEME	PLANT	158-273 DA-A	33	19.57	4.00	98.00	96.18	55.00	100.00	HS	S
VERHE	PLANT	184-231 DA-A	7	12.14	5.00	41.00	93.61	62.50	100.00	S	S
VERPE	PLANT	158-256 DA-A	6	21.58	6.00	75.50	98.00	91.75	100.00	HS	S
VIOAR	PLANT	217-273 DA-A	1	46.15	5.00	294.50	100.00	100.00	100.00	HS	S

**Efficacy results table 3.2.3.7-2 Summary of all efficacy data on pre-em use on winter cereals - Maritime EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	213-248 DA-A	9	69.92	6.00	192.50	87.58	67.50	100.00	S	S
	EAR	213-248 DA-A	9	137.08	5.75	383.00	85.36	50.69	100.00	S	S
APESV	PLANT	217-253 DA-A	4	33.08	6.00	106.50	99.75	99.00	100.00	HS	S
	EAR	242-274 DA-A	5	53.60	4.50	131.00	95.00	75.00	100.00	S	S
GALAP	PLANT	158-248 DA-A	9	7.14	3.00	12.00	85.83	12.50	100.00	S	S
GERPU	PLANT	238-238 DA-A	1	10.00	10.00	10.00	100.00	100.00	100.00	HS	S
MATCH	PLANT	198-235 DA-A	5	12.63	3.90	39.00	94.60	88.75	100.00	S	S
MATIN	PLANT	158-273 DA-A	9	8.28	4.50	19.50	97.33	82.50	100.00	HS	S
PAPRH	PLANT	217-248 DA-A	7	57.71	5.00	225.00	98.39	98.39	98.39	HS	S
POAAN	PLANT	248-273 DA-A	2	292.50	35.00	550.00	90.00	88.75	91.25	S	S
	EAR	248-259 DA-A	2	1047.50	38.75	2056.25	90.99	90.73	91.25	S	S
POLAV	PLANT	273-273 DA-A	1	8.00	8.00	8.00	77.50	77.50	77.50	MS	MS
POLCO	PLANT	273-273 DA-A	1	6.00	6.00	6.00	67.50	67.50	67.50	MT	MT
STEME	PLANT	158-273 DA-A	13	16.54	5.00	98.00	98.83	93.75	100.00	HS	S
VERHE	PLANT	190-190 DA-A	1	10.00	10.00	10.00	62.50	62.50	62.50	MT	MT
VERPE	PLANT	158-247 DA-A	4	28.38	8.00	75.50	99.38	98.50	100.00	HS	S

**Efficacy results table 3.2.3.7-3 Summary of all efficacy data on pre-em use on winter cereals - North-East Eppo Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	253-256 DA-A	2	29.13	16.25	42.00	81.25	77.50	85.00	MS	MS
	EAR	253-256 DA-A	2	153.63	16.25	291.00	80.58	75.51	85.64	MS	MS
APESV	PLANT	238-259 DA-A	7	23.43	5.00	74.00	96.64	77.50	100.00	HS	S
	EAR	238-259 DA-A	7	24.08	10.00	68.75	97.83	85.83	100.00	HS	S
GALAP	PLANT	205-271 DA-A	5	6.29	3.70	9.75	75.25	27.50	100.00	MS	MS
GERPU	PLANT	220-231 DA-A	2	6.50	5.00	8.00	100.00	100.00	100.00	HS	S
MATIN	PLANT	205-253 DA-A	7	9.43	6.00	19.00	91.79	78.75	100.00	S	S
PAPRH	PLANT	205-271 DA-A	9	7.97	4.75	10.00	96.22	96.22	96.22	HS	S
POAAN	PLANT	231-247 DA-A	2	8.50	5.00	12.00	100.00	100.00	100.00	HS	S
	EAR	238-247 DA-A	2	18.25	12.00	24.50	100.00	100.00	100.00	HS	S
POLAV	PLANT	271-271 DA-A	1	8.40	8.40	8.40	35.00	35.00	35.00	-	-
POLCO	PLANT	271-271 DA-A	1	15.00	15.00	15.00	5.00	5.00	5.00	-	-
STEME	PLANT	205-271 DA-A	10	10.14	6.00	23.00	99.85	99.00	100.00	HS	S
VERHE	PLANT	207-231 DA-A	4	6.75	5.00	8.00	99.06	96.25	100.00	HS	S
VERPE	PLANT	207-256 DA-A	2	8.00	6.00	10.00	95.25	91.75	98.75	HS	S
VIOAR	PLANT	217-271 DA-A	1	11.34	5.00	27.70	100.00	100.00	100.00	HS	S

**Efficacy results table 3.2.3.7-4 Summary of all efficacy data on pre-em use on winter cereals - North-East Eppo Zone, Czech and Germany**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	213-256 DA-A	9	74.28	6.00	192.50	84.39	67.50	100.00	MS	MS
	EAR	213-256 DA-A	9	169.64	9.50	383.00	81.69	50.69	100.00	MS	MS
APESV	PLANT	217-259 DA-A	10	28.65	5.00	106.50	97.55	77.50	100.00	HS	S
	EAR	238-259 DA-A	11	30.50	4.50	131.00	96.35	75.00	100.00	HS	S
GALAP	PLANT	158-271 DA-A	13	6.60	3.00	12.00	87.40	27.50	100.00	S	S
GERPU	PLANT	220-238 DA-A	3	7.67	5.00	10.00	100.00	100.00	100.00	HS	S
MATCH	PLANT	213-229 DA-A	2	21.63	4.25	39.00	92.13	90.50	93.75	S	S
MATIN	PLANT	158-253 DA-A	14	8.89	4.50	19.50	95.43	78.75	100.00	HS	S
PAPRH	PLANT	205-271 DA-A	14	9.34	4.75	37.00	97.41	97.41	97.41	HS	-
POAAN	PLANT	231-247 DA-A	2	8.50	5.00	12.00	100.00	100.00	100.00	HS	S
	EAR	238-247 DA-A	2	18.25	12.00	24.50	100.00	100.00	100.00	HS	S
POLAV	PLANT	271-271 DA-A	1	8.40	8.40	8.40	35.00	35.00	35.00	-	-
POLCO	PLANT	271-271 DA-A	1	15.00	15.00	15.00	5.00	5.00	5.00	-	-
STEME	PLANT	158-271 DA-A	19	10.36	5.00	37.00	99.38	93.75	100.00	HS	S
VERHE	PLANT	207-231 DA-A	4	6.75	5.00	8.00	99.06	96.25	100.00	HS	S
VERPE	PLANT	158-256 DA-A	5	23.50	6.00	75.50	97.90	91.75	100.00	HS	S
VIOAR	PLANT	217-271 DA-A	1	51.17	5.00	294.50	100.00	100.00	100.00	HS	S

**Efficacy results table 3.2.3.7-5 Summary of all efficacy data on pre-em use on winter cereals - Mediterranean EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	232-232 DA-A	1	18.30	18.30	18.30	95.00	95.00	95.00	S	S
	EAR	232-232 DA-A	1	4.56	4.56	4.56	97.50	97.50	97.50	HS	S
GALAP	PLANT	180-232 DA-A	4	10.90	5.30	18.00	87.81	75.00	93.75	S	S
	PLANT	180-218 DA-A	5	15.00	5.00	28.00	90.75	75.00	97.50	S	S
LOLMU	EAR	180-218 DA-A	5	34.85	4.75	127.75	91.42	77.59	100.00	S	S
	PLANT	112-180 DA-A	1	15.00	15.00	15.00	72.50	72.50	72.50	MS	MT
MATCH	PLANT	113-211 DA-A	3	7.93	5.80	10.00	89.17	72.50	100.00	S	S
PAPRH	PLANT	184-232 DA-A	6	29.56	4.00	86.75	93.06	93.06	93.06	S	S
POAAN	PLANT	211-212 DA-A	2	65.65	56.30	75.00	94.38	94.38	94.38	S	S
	EAR	211-211 DA-A	2	52.40	38.80	66.00	97.93	97.66	98.20	HS	S
STEME	PLANT	180-218 DA-A	7	28.54	4.00	59.80	90.98	55.00	100.00	S	S
VERHE	PLANT	184-218 DA-A	2	24.00	7.00	41.00	98.25	96.50	100.00	HS	S

**Efficacy results table 3.2.3.7-6 Summary of all efficacy data on pre-em use on winter cereals - South-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
APESV	PLANT	200-228 DA-A	3	20.93	10.30	40.00	88.13	72.50	96.88	S	S
	EAR	200-228 DA-A	3	49.92	7.50	133.00	76.05	39.40	95.45	MS	MS
GALAP	PLANT	228-228 DA-A	1	9.00	9.00	9.00	92.50	92.50	92.50	S	S
PAPRH	PLANT	200-228 DA-A	2	57.25	55.50	59.00	94.38	94.38	94.38	S	S
POAAN	PLANT	200-228 DA-A	2	38.30	33.80	42.80	94.69	94.38	95.00	S	S
	EAR	200-228 DA-A	2	27.65	23.30	32.00	94.79	93.44	96.14	S	S
STEME	PLANT	200-228 DA-A	3	43.20	16.00	67.80	84.59	70.00	93.13	MS	MS

The tables below show the orthogonal comparison between GLOB1912H at the maximum requested dose rate of 3.2 L/ha and the best performing reference products (per individual trial), but without Jura EC (GLOB1319H). As mentioned earlier GLOB1912H is highly similar to the already registered Jura EC (GLOB1319H). It contains the same amount of the active substances prosulfocarb (667 g/L) and diflufenican (14 g/L) in the same (EC) formulation type. Therefore separate orthogonal comparisons are made between GLOB1912H and Jura EC.

**Efficacy results table 3.2.3.7-7 Orthogonal comparison to best performing reference products (excl. Jura EC) pre-em winter cereals - all Eppo Zones**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control						# trials >, <, = comp. to standard > 5% diff.
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			Best Ref. excl. Jura EC			
							Mean	Min	Max	Mean	Min	Max	
ALOMY	PLANT	213-256 DA-A	11	58.78	6.00	192.50	88.25	67.50	100.00	81.61	25.00	100.00	3x >, 4x =, 4x <
	EAR	213-256 DA-A	11	105.69	4.56	380.00	88.74	68.15	100.00	82	19	100	3x >, 5x =, 3x <
APESV	PLANT	112-259 DA-A	12	27.01	5.00	106.50	96.87	72.50	100.00	94.66	67.50	100.00	1x >, 10x =
	EAR	112-274 DA-A	13	42.52	4.50	133.00	92.47	39.40	100.00	91.77	38.61	100.00	1x >, 10x =
GALAP	PLANT	158-271 DA-A	17	7.79	3.00	18.00	82.72	12.50	100.00	75.93	-1.79	100.00	4x >, 11x =, 2x <
GERPU	PLANT	220-238 DA-A	3	7.67	5.00	10.00	100.00	100.00	100.00	97.92	93.75	100.00	1x >, 2x =
LOLMU	PLANT	180-218 DA-A	5	15.00	5.00	28.00	90.75	75.00	97.50	91.00	77.50	98.75	1x >, 4x =
	EAR	180-218 DA-A	5	34.85	4.75	127.75	91.42	77.59	100.00	95.45	80.35	100.00	3x =, 2x <
MATCH	PLANT	112-235 DA-A	6	13.03	3.90	39.00	90.92	72.50	100.00	80.21	0.00	100.00	2x >, 1x =, 2x <
MATIN	PLANT	113-273 DA-A	17	8.75	4.50	19.50	93.29	72.50	100.00	75.02	0.00	100.00	6x >, 10x =, 1x <
PAPRH	PLANT	184-271 DA-A	24	31.98	4.00	225.00	95.91	83.75	100.00	72.21	0.00	100.00	14x >, 10x =
POAAN	PLANT	200-273 DA-A	8	101.24	5.00	550.00	94.77	88.75	100.00	84.06	0.00	100.00	1x >, 7x =
	EAR	200-259 DA-A	8	286.45	12.00	2056.25	95.93	90.73	100.00	86.62	11.54	100.00	1x >, 7x =
POLAV	PLANT	271-273 DA-A	2	8.20	8.00	8.40	56.25	35.00	77.50	36.25	5.00	67.50	2x >
POLCO	PLANT	271-273 DA-A	2	10.50	6.00	15.00	36.25	5.00	67.50	38.75	5.00	72.50	2x =
STEME	PLANT	158-273 DA-A	31	20.22	4.00	98.00	95.93	55.00	100.00	82.83	0.00	100.00	9x >, 21x =, 1x <
VERHE	PLANT	184-231 DA-A	6	13.00	5.00	41.00	93.17	62.50	100.00	79.58	5.00	100.00	2x =, 4x =
VERPE	PLANT	158-256 DA-A	4	26.38	8.00	75.50	97.31	91.75	100.00	79.52	41.57	100.00	2x >, 2x =
VIOAR	PLANT	217-273 DA-A	11	46.15	5.00	294.50	98.07	90.00	100.00	64.15	0.00	100.00	6x >, 5x =

**Efficacy results table 3.2.3.7-8 Orthogonal comparison to best performing reference products (excl. Jura EC) pre-em winter cereals - Maritime EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			Best Ref. excl. Jura EC		
							Mean	Min	Max	Mean	Min	Max
ALOMY	PLANT	213-248 DA-A	8	71.25	6.00	192.50	89.16	67.50	100.00	86.75	25.00	100.00
	EAR	213-248 DA-A	8	106.34	5.75	380.00	89.69	68.15	100.00	85.42	19.08	100.00
APESV	PLANT	217-253 DA-A	3	40.77	6.00	106.50	99.67	99.00	100.00	99.67	99.00	100.00
	EAR	242-274 DA-A	4	62.06	4.50	131.00	93.75	75.00	100.00	93.75	75.00	100.00
GALAP	PLANT	158-248 DA-A	8	7.04	3.00	12.00	84.06	12.50	100.00	77.06	-1.79	100.00
GERPU	PLANT	238-238 DA-A	1	10.00	10.00	10.00	100.00	100.00	100.00	100.00	100.00	100.00
MATCH	PLANT	198-235 DA-A	5	12.63	3.90	39.00	94.60	88.75	100.00	96.25	90.00	100.00
MATIN	PLANT	158-273 DA-A	7	8.43	4.50	19.50	96.57	82.50	100.00	83.62	26.31	100.00
PAPRH	PLANT	217-248 DA-A	7	57.71	5.00	225.00	98.39	92.50	100.00	69.08	0.00	100.00
POAAN	PLANT	248-273 DA-A	2	292.50	35.00	550.00	90.00	88.75	91.25	46.88	0.00	93.75
	EAR	248-259 DA-A	2	1047.50	38.75	2056.25	90.99	90.73	91.25	52.65	11.54	93.75
POLAV	PLANT	273-273 DA-A	1	8.00	8.00	8.00	77.50	77.50	77.50	67.50	67.50	67.50
POLCO	PLANT	273-273 DA-A	1	6.00	6.00	6.00	67.50	67.50	67.50	72.50	72.50	72.50
STEME	PLANT	158-273 DA-A	12	17.00	5.00	98.00	98.73	93.75	100.00	84.83	32.50	100.00
VERHE	PLANT	190-190 DA-A	1	10.00	10.00	10.00	62.50	62.50	62.50	5.00	5.00	5.00
VERPE	PLANT	158-247 DA-A	3	31.83	8.00	75.50	99.17	98.50	100.00	80.19	41.57	100.00
VIOAR	PLANT	221-273 DA-A	5	88.60	7.00	294.50	97.95	93.75	100.00	51.39	0.00	100.00

**Efficacy results table 3.2.3.7-9 Orthogonal comparison to best performing reference products (excl. Jura EC) pre-em winter cereals - North-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			Best Ref. excl. Jura EC		
							Mean	Min	Max	Mean	Min	Max
ALOMY	PLANT	253-256 DA-A	2	29.13	16.25	42.00	81.25	77.50	85.00	81.88	75.00	88.75
	EAR	253-256 DA-A	2	153.63	16.25	291.00	80.58	75.51	85.64	81.24	78.19	84.28
APESV	PLANT	238-259 DA-A	6	23.17	5.00	74.00	99.83	99.00	100.00	96.46	80.00	100.00
	EAR	238-259 DA-A	6	25.79	10.00	68.75	99.83	98.97	100.00	98.13	89.58	100.00
GALAP	PLANT	205-271 DA-A	4	5.86	3.70	9.75	72.50	27.50	100.00	70.94	38.75	100.00
GERPU	PLANT	220-231 DA-A	2	6.50	5.00	8.00	100.00	100.00	100.00	96.88	93.75	100.00
MATIN	PLANT	205-253 DA-A	7	9.43	6.00	19.00	91.79	78.75	100.00	70.71	0.00	100.00
PAPRH	PLANT	205-271 DA-A	9	7.97	4.75	10.00	96.22	83.75	100.00	69.86	7.50	100.00
POAAN	PLANT	231-247 DA-A	2	8.50	5.00	12.00	100.00	100.00	100.00	100.00	100.00	100.00
	EAR	238-247 DA-A	2	18.25	12.00	24.50	100.00	100.00	100.00	100.00	100.00	100.00
POLAV	PLANT	271-271 DA-A	1	8.40	8.40	8.40	35.00	35.00	35.00	5.00	5.00	5.00
POLCO	PLANT	271-271 DA-A	1	15.00	15.00	15.00	5.00	5.00	5.00	5.00	5.00	5.00
STEME	PLANT	205-271 DA-A	9	10.38	6.00	23.00	99.83	99.00	100.00	80.83	32.50	100.00
VERHE	PLANT	207-231 DA-A	3	6.67	5.00	8.00	100.00	100.00	100.00	100.00	100.00	100.00
VERPE	PLANT	207-256 DA-A	1	10.00	10.00	10.00	91.75	91.75	91.75	77.50	77.50	77.50
VIOAR	PLANT	217-271 DA-A	5	11.34	5.00	27.70	97.80	90.00	100.00	69.75	27.50	100.00



**Efficacy results table 3.2.3.7-12 Orthogonal comparison to best performing reference products (excl. Jura EC) pre-em winter cereals - South-East Eppo Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			Best Ref. excl. Jura EC		
							Mean	Min	Max	Mean	Min	Max
APESV	PLANT	200-228 DA-A	3	20.93	10.30	40.00	88.13	72.50	96.88	86.04	67.50	95.63
	EAR	200-228 DA-A	3	49.92	7.50	133.00	76.05	39.40	95.45	76.40	38.61	96.43
GALAP	PLANT	228-228 DA-A	1	9.00	9.00	9.00	92.50	92.50	92.50	90.00	90.00	90.00
PAPRH	PLANT	200-228 DA-A	2	57.25	55.50	59.00	94.38	93.75	95.00	75.63	71.25	80.00
POAAN	PLANT	200-228 DA-A	2	38.30	33.80	42.80	94.69	94.38	95.00	94.38	92.50	96.25
	EAR	200-228 DA-A	2	27.65	23.30	32.00	94.79	93.44	96.14	95.83	94.60	97.06
STEME	PLANT	200-228 DA-A	3	43.20	16.00	67.80	84.59	70.00	93.13	84.58	70.00	92.50

The tables below show the orthogonal comparison between GLOB1912H and Jura EC (GLOB1319H). A limited amount of trials allowed for a direct comparison of both products applied at the 4 L/ha dose rate. However, the 4 L/ha dose rate currently registered for Jura (EC) is no longer sustainable due to additional restrictions. Therefore bridging trials are provided to demonstrate that the new formulation GLOB1912H applied at a dose rate of 3.2 L/ha can provide similar performance to Jura (EC) applied at a dose rate of 4 L/ha.









**Efficacy results table 3.2.3.7-17 Orthogonal comparison to Jura EC pre-em winter cereals - Mediterranean EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 3.2 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
ALOMY	PLANT	232-232 DA-A	1	18.30	18.30	18.30	95.00	95.00	95.00	86.25	86.25	86.25
	EAR	232-232 DA-A	1	92.43	92.43	92.43	97.50	97.50	97.50	92.43	92.43	92.43
GALAP	PLANT	180-232 DA-A	3	10.77	5.30	18.00	85.83	75.00	92.50	88.33	82.50	93.75
LOLMU	PLANT	180-218 DA-A	3	13.00	5.00	28.00	89.17	75.00	97.50	92.08	81.25	98.75
	EAR	180-218 DA-A	3	46.17	4.75	127.75	90.10	77.59	100.00	92.64	84.18	100.00
MATCH	PLANT	112-180 DA-A	1	15.00	15.00	15.00	72.50	72.50	72.50	77.50	77.50	77.50
MATIN	PLANT	113-211 DA-A	1	10.00	10.00	10.00	72.50	72.50	72.50	77.50	77.50	77.50
PAPRH	PLANT	184-232 DA-A	5	26.37	4.00	86.75	92.93	85.00	100.00	90.65	82.50	100.00
POAAN	PLANT	211-212 DA-A	1	56.30	56.30	56.30	94.38	94.38	94.38	95.00	95.00	95.00
	EAR	211-211 DA-A	1	38.80	38.80	38.80	98.20	98.20	98.20	98.10	98.10	98.10
STEME	PLANT	180-218 DA-A	5	25.00	4.00	53.00	88.63	55.00	100.00	96.13	88.75	100.00
VERHE	PLANT	184-218 DA-A	2	24.00	7.00	41.00	98.25	96.50	100.00	97.88	95.75	100.00
VIOAR	PLANT	218-218 DA-A	1	8.00	8.00	8.00	100.00	100.00	100.00	100.00	100.00	100.00
Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 4 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
ALOMY	PLANT	232-232 DA-A	1	18.30	18.30	18.30	85.00	85.00	85.00	86.25	86.25	86.25
	EAR	232-232 DA-A	1	4.56	4.56	4.56	97.50	97.50	97.50	92.43	92.43	92.43
GALAP	PLANT	180-232 DA-A	2	11.65	5.30	18.00	86.25	82.50	90.00	85.63	82.50	88.75
MATCH	PLANT	112-180 DA-A	1	15.00	15.00	15.00	77.50	77.50	77.50	77.50	77.50	77.50
MATIN	PLANT	113-211 DA-A	1	10.00	10.00	10.00	77.50	77.50	77.50	77.50	77.50	77.50
PAPRH	PLANT	184-232 DA-A	1	8.80	8.80	8.80	95.00	95.00	95.00	85.00	85.00	85.00
STEME	PLANT	180-218 DA-A	1	8.00	8.00	8.00	87.50	87.50	87.50	88.75	88.75	88.75

**Efficacy results table 3.2.3.7-18 Orthogonal comparison to Jura EC pre-em winter cereals - South-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 3.2 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
APESV	PLANT	200-228 DA-A	3	20.93	10.30	40.00	88.13	72.50	96.88	87.29	70.00	96.25
	EAR	200-228 DA-A	3	49.92	7.50	133.00	76.05	39.40	95.45	78.09	43.74	97.22
GALAP	PLANT	228-228 DA-A	1	9.00	9.00	9.00	92.50	92.50	92.50	92.50	92.50	92.50
PAPRH	PLANT	200-228 DA-A	2	57.25	55.50	59.00	94.38	93.75	95.00	95.32	95.00	95.63
POAAN	PLANT	200-228 DA-A	2	38.30	33.80	42.80	94.69	94.38	95.00	95.01	93.13	96.88
	EAR	200-228 DA-A	2	27.65	23.30	32.00	94.79	93.44	96.14	95.99	95.06	96.91
STEME	PLANT	200-228 DA-A	3	43.20	16.00	67.80	84.59	70.00	93.13	86.04	68.75	95.63

### **Conclusion**

The tables above demonstrate the good efficacy of GLOB1912H at the maximum requested dose rate of 3.2 L/ha. The performance of GLOB1912H at the maximum requested dose rate of 3.2 L/ha is highly similar to that of the reference products, even to Jura EC (GLOB1319H) applied at the currently registered dose rate of 4 L/ha. It should be noted that all data in support of the 3.2 L/ha dose rate can be used to support a dose rate of 3 L/ha, because they differ less than 10%.

This is supported by the “CRD Data Requirements Handbook: Chapter 8 Efficacy” as well as the “Guidance on requirements for efficacy data for zonal evaluation of a plant protection product in the Northern Zone”. Both documents state that changes of less than 10% in the amount of any formulation component applied, including the active substance, are minor and as such require no further data.

### 3.2.3.8 Results of efficacy trials performed for the post-emergence use on winter cereals

The tables below show the summarized efficacy results of GLOB1912H for all trial data shown in the tables above with the resulting susceptibility of each weed, in accordance with Table 3.2-4.

Just like for the presentation of the individual efficacy assessment data presented above, the results are presented for all trials regardless of the EPPO Climatic Zone they were performed in. Next, a summary is made for the Maritime EPPO Zone (MAR), North East EPPO Zone (PL), North-East EPPO Zone combined with Czech and German trials (PL + CZ/DE), the Mediterranean EPPO Zone (MED) and for the South-East EPPO Zone (S-E).

**Efficacy results table 3.2.3.8-1 Summary of all efficacy data on post-em use on winter cereals - all EPPO Zones**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	86-257 DA-A	11	54.39	5.00	225.00	79.61	23.00	100.00	MS	MS
	EAR	86-257 DA-A	11	151.75	4.75	767.00	71.57	3.75	100.00	MS	MT
APESV	PLANT	84-257 DA-A	17	36.99	6.00	161.50	96.38	77.50	100.00	HS	S
	EAR	84-273 DA-A	16	51.22	7.50	183.50	94.50	50.18	100.00	S	S
CENCY	PLANT	200-236 DA-A	5	17.74	2.67	33.30	64.83	32.50	96.67	MT	MT
FUMOF	PLANT	232-257 DA-A	2	11.40	5.00	17.80	99.88	99.75	100.00	HS	S
GALAP	PLANT	71-259 DA-A	17	8.48	5.00	16.50	92.91	68.75	100.00	S	S
GERPU	PLANT	207-257 DA-A	4	9.88	6.00	18.00	100.00	100.00	100.00	HS	S
LAMPU	PLANT	141-259 DA-A	4	6.20	3.30	11.00	93.25	85.00	100.00	S	S
LOLMU	PLANT	86-197 DA-A	5	8.33	7.00	11.00	79.25	62.50	96.25	MS	MS
	EAR	86-197 DA-A	5	45.50	5.00	174.25	67.40	33.08	95.00	MT	MT
LOLRI	PLANT	71-159 DA-A	2	28.00	12.25	43.75	60.00	35.00	85.00	MT	MT
	EAR	71-159 DA-A	2	90.75	50.00	131.50	89.20	86.63	91.76	S	S
MATCH	PLANT	200-228 DA-A	4	19.53	4.30	37.33	96.86	87.75	100.00	HS	S
MATIN	PLANT	90-257 DA-A	16	13.24	4.00	40.50	92.98	67.50	100.00	S	S
PAPRH	PLANT	15-259 DA-A	27	22.67	5.00	75.50	90.89	55.00	100.00	S	S
POAAN	PLANT	141-239 DA-A	8	33.40	4.75	72.30	97.74	95.00	100.00	HS	S
	EAR	184-239 DA-A	6	50.93	23.30	130.75	97.90	96.06	100.00	HS	S
POLCO	PLANT	42-259 DA-A	2	5.20	5.00	5.40	50.00	5.00	95.00	MT	-
STEME	PLANT	15-259 DA-A	30	16.27	4.30	67.80	96.66	80.00	100.00	HS	S
VERHE	PLANT	193-217 DA-A	5	13.40	7.00	35.00	96.35	81.75	100.00	HS	S
VERPE	PLANT	86-236 DA-A	7	7.40	3.30	15.00	99.25	95.50	100.00	HS	S
VIOAR	PLANT	197-259 DA-A	15	40.34	8.00	259.50	98.67	87.75	100.00	HS	S

**Efficacy results table 3.2.3.8-2 Summary of all efficacy data on post-em use on winter cereals - Maritime EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	197-257 DA-A	8	66.63	5.00	225.00	76.09	23.00	100.00	MS	MS
	EAR	197-257 DA-A	8	163.16	4.75	767.00	75.52	45.42	100.00	MS	MS
APESV	PLANT	202-257 DA-A	6	55.88	7.25	161.50	98.96	94.75	100.00	HS	S
	EAR	219-273 DA-A	7	62.93	11.25	183.50	96.71	79.44	100.00	HS	S
CENCY	PLANT	202-219 DA-A	2	22.38	14.00	30.75	72.50	61.25	83.75	MS	MT
FUMOF	PLANT	257-257 DA-A	1	5.00	5.00	5.00	99.75	99.75	99.75	HS	S
GALAP	PLANT	173-257 DA-A	6	6.30	5.00	9.00	96.79	88.75	100.00	HS	S
GERPU	PLANT	216-257 DA-A	2	12.00	6.00	18.00	100.00	100.00	100.00	HS	S
LAMPU	PLANT	221-221 DA-A	1	5.00	5.00	5.00	99.25	99.25	99.25	HS	S
MATCH	PLANT	218-228 DA-A	3	13.60	4.30	22.50	95.92	87.75	100.00	HS	S
MATIN	PLANT	197-257 DA-A	9	15.11	4.00	40.50	93.33	67.50	100.00	S	S
PAPRH	PLANT	15-257 DA-A	8	14.98	5.00	75.50	98.50	95.00	100.00	HS	S
POAAN	PLANT	219-239 DA-A	2	22.50	15.00	30.00	100.00	100.00	100.00	HS	S
	EAR	239-239 DA-A	1	130.75	130.75	130.75	100.00	100.00	100.00	HS	S
STEME	PLANT	15-257 DA-A	8	9.92	4.30	24.80	98.16	93.75	100.00	HS	S
VERPE	PLANT	173-221 DA-A	3	8.43	3.30	15.00	98.25	95.50	100.00	HS	S
VIOAR	PLANT	197-257 DA-A	7	56.51	10.75	259.50	99.21	97.50	100.00	HS	S

**Efficacy results table 3.2.3.8-3 Summary of all efficacy data on post-em use on winter cereals - North-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	220-232 DA-A	2	23.65	13.00	34.30	92.88	85.75	100.00	S	S
	EAR	220-232 DA-A	2	170.13	18.00	322.25	51.88	3.75	100.00	MT	-
APESV	PLANT	204-255 DA-A	8	28.85	6.00	105.80	96.84	91.25	100.00	HS	S
	EAR	224-255 DA-A	6	38.22	15.00	111.25	99.05	94.31	100.00	HS	S
CENCY	PLANT	216-236 DA-A	2	20.65	8.00	33.30	41.25	32.50	50.00	-	-
FUMOF	PLANT	232-232 DA-A	1	17.80	17.80	17.80	100.00	100.00	100.00	HS	S
GALAP	PLANT	204-259 DA-A	6	9.32	5.00	16.50	93.13	68.75	100.00	S	S
GERPU	PLANT	207-236 DA-A	2	7.75	6.50	9.00	100.00	100.00	100.00	HS	S
LAMPU	PLANT	217-259 DA-A	2	7.15	3.30	11.00	86.88	85.00	88.75	S	S
MATIN	PLANT	204-249 DA-A	4	11.00	8.00	17.00	92.88	87.50	100.00	S	S
PAPRH	PLANT	204-259 DA-A	10	21.03	6.00	63.80	86.18	55.00	100.00	S	S
POAAN	PLANT	220-220 DA-A	1	7.75	7.75	7.75	100.00	100.00	100.00	HS	S
	EAR	215-215 DA-A	1	29.50	29.50	29.50	100.00	100.00	100.00	HS	S
POLCO	PLANT	42-259 DA-A	2	5.20	5.00	5.40	50.00	5.00	95.00	MT	-
STEME	PLANT	193-259 DA-A	11	11.65	6.00	23.75	98.89	88.75	100.00	HS	S
VERHE	PLANT	193-217 DA-A	5	13.40	7.00	35.00	96.35	81.75	100.00	HS	S
VERPE	PLANT	193-236 DA-A	3	6.50	5.00	8.50	100.00	100.00	100.00	HS	S
VIOAR	PLANT	203-259 DA-A	8	26.20	8.00	92.30	98.19	87.75	100.00	HS	S

**Efficacy results table 3.2.3.8-4 Summary of all efficacy data on post-em use on winter cereals - North-East EPPO Zone, Czech and Germany**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	197-257 DA-A	7	73.76	5.00	225.00	81.82	47.50	100.00	MS	MS
	EAR	197-257 DA-A	7	227.61	9.00	767.00	66.67	3.75	100.00	MT	MT
APESV	PLANT	202-257 DA-A	12	45.94	6.00	161.50	97.81	91.25	100.00	HS	S
	EAR	219-257 DA-A	11	56.57	11.25	183.50	99.26	94.31	100.00	HS	S
CENCY	PLANT	202-236 DA-A	4	21.51	8.00	33.30	56.88	32.50	83.75	MT	-
FUMOF	PLANT	232-257 DA-A	2	11.40	5.00	17.80	99.88	99.75	100.00	HS	S
GALAP	PLANT	197-259 DA-A	11	7.90	5.00	16.50	95.16	68.75	100.00	HS	S
GERPU	PLANT	207-257 DA-A	4	9.88	6.00	18.00	100.00	100.00	100.00	HS	S
LAMPU	PLANT	217-259 DA-A	3	6.43	3.30	11.00	91.00	85.00	99.25	S	S
MATCH	PLANT	219-219 DA-A	1	22.50	22.50	22.50	87.75	87.75	87.75	S	S
MATIN	PLANT	197-257 DA-A	12	13.54	4.00	40.50	92.67	67.50	100.00	S	S
PAPRH	PLANT	15-259 DA-A	16	19.89	5.00	75.50	90.89	55.00	100.00	S	S
POAAN	PLANT	219-220 DA-A	2	18.88	7.75	30.00	100.00	100.00	100.00	HS	S
	EAR	215-215 DA-A	1	29.50	29.50	29.50	100.00	100.00	100.00	HS	S
POLCO	PLANT	42-259 DA-A	2	5.20	5.00	5.40	50.00	5.00	95.00	MT	-
STEME	PLANT	15-259 DA-A	16	11.50	6.00	24.80	98.47	88.75	100.00	HS	S
VERHE	PLANT	193-217 DA-A	5	13.40	7.00	35.00	96.35	81.75	100.00	HS	S
VERPE	PLANT	193-236 DA-A	5	8.30	5.00	15.00	99.85	99.25	100.00	HS	S
VIOAR	PLANT	197-259 DA-A	13	44.57	8.00	259.50	98.65	87.75	100.00	HS	S

**Efficacy results table 3.2.3.8-5 Summary of all efficacy data on post-em use on winter cereals - Mediterranean EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
ALOMY	PLANT	86-186 DA-A	1	18.00	18.00	18.00	81.25	81.25	81.25	MS	MS
	EAR	86-186 DA-A	1	23.75	23.75	23.75	79.39	79.39	79.39	MS	MS
CENCY	PLANT	200-200 DA-A	1	2.67	2.67	2.67	96.67	96.67	96.67	HS	S
GALAP	PLANT	71-197 DA-A	4	10.38	6.00	13.20	87.19	70.00	95.63	S	S
LAMPU	PLANT	141-141 DA-A	1	5.50	5.50	5.50	100.00	100.00	100.00	HS	S
LOLMU	PLANT	86-197 DA-A	5	8.33	7.00	11.00	79.25	62.50	96.25	MS	MS
	EAR	86-197 DA-A	5	45.50	5.00	174.25	67.40	33.08	95.00	MT	MT
LOLRI	PLANT	71-159 DA-A	2	28.00	12.25	43.75	60.00	35.00	85.00	MT	MT
	EAR	71-159 DA-A	2	90.75	50.00	131.50	89.20	86.63	91.76	S	S
MATCH	PLANT	200-200 DA-A	1	37.33	37.33	37.33	99.67	99.67	99.67	HS	S
MATIN	PLANT	90-197 DA-A	3	10.60	5.80	14.00	92.08	80.00	98.75	S	S
PAPRH	PLANT	71-200 DA-A	7	23.92	6.00	60.80	87.59	58.75	100.00	S	S
POAAN	PLANT	141-197 DA-A	3	45.95	4.75	72.30	96.25	95.00	97.50	HS	S
	EAR	184-197 DA-A	2	45.00	42.75	47.25	97.26	96.71	97.80	HS	S
STEME	PLANT	141-200 DA-A	8	18.88	5.00	58.50	94.69	80.00	100.00	S	S
VERPE	PLANT	86-186 DA-A	1	7.00	7.00	7.00	100.00	100.00	100.00	HS	S

**Efficacy results table 3.2.3.8-6 Summary of all efficacy data on post-em use on winter cereals - South-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control				
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			EU Suscept	UK Suscept
							Mean	Min	Max		
APESV	PLANT	186-214 DA-A	3	20.93	10.30	40.00	90.00	77.50	96.88	S	S
	EAR	186-214 DA-A	3	49.92	7.50	133.00	80.24	50.18	96.88	MS	MS
GALAP	PLANT	214-214 DA-A	1	9.00	9.00	9.00	91.25	91.25	91.25	S	S
PAPRH	PLANT	186-214 DA-A	2	57.25	55.50	59.00	95.63	94.38	96.88	HS	S
POAAN	PLANT	186-214 DA-A	2	38.30	33.80	42.80	96.57	96.25	96.88	HS	S
	EAR	186-214 DA-A	2	27.65	23.30	32.00	96.45	96.06	96.83	HS	S
STEME	PLANT	186-214 DA-A	3	43.20	16.00	67.80	89.79	81.25	94.38	S	S

The tables below show the orthogonal comparison between GLOB1912H at the maximum requested dose rate of 3.2 L/ha and the best performing reference products (per individual trial), but without Jura EC (GLOB1319H). As mentioned earlier GLOB1912H is highly similar to the already registered Jura EC (GLOB1319H). It contains the same amount of the active substances prosulfocarb (667 g/L) and diflufenican (14 g/L) in the same (EC) formulation type. Therefore separate orthogonal comparisons are made between GLOB1912H and Jura EC.

**Efficacy results table 3.2.3.8-7 Orthogonal comparison to best performing reference products (excl. Jura EC) post-em winter cereals - all EPPO Zones**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control						# trials >, <, = comp. to standard > 5% diff.
							GLOB1912H- 3.2 L/ha			Best Ref. excl. Jura EC			
				Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	
ALOMY	PLANT	86-257 DA-A	11	54.39	5.00	225.00	79.61	23.00	100.00	83.16	35.00	100.00	3x >, 5x =, 3x <
	EAR	86-257 DA-A	11	151.75	4.75	767.00	71.57	3.75	100.00	71.87	4.75	100.00	3x >, 6x =, 2x <
APESV	PLANT	84-257 DA-A	16	37.74	6.00	161.50	37.74	6.00	161.50	96.10	75.00	100.00	1x >, 15x =
	EAR	84-273 DA-A	15	53.22	7.50	183.50	94.13	50.18	100.00	95.05	53.83	100.00	13x =, 2x <
CENCY	PLANT	200-236 DA-A	5	17.74	2.67	33.30	64.83	32.50	96.67	36.25	5.00	70.00	4x >, 1x =
FUMOF	PLANT	232-257 DA-A	2	11.40	5.00	17.80	99.88	99.75	100.00	100.00	100.00	100.00	2x =
GALAP	PLANT	71-259 DA-A	16	8.51	5.00	16.50	92.47	68.75	100.00	84.97	0.00	100.00	3x >, 13x =
GERPU	PLANT	207-257 DA-A	4	9.88	6.00	18.00	100.00	100.00	100.00	99.38	97.50	100.00	4x =
LAMPU	PLANT	141-259 DA-A	4	6.20	3.30	11.00	93.25	85.00	100.00	92.50	82.50	100.00	4x =
LOLMU	PLANT	86-197 DA-A	5	8.33	7.00	11.00	79.25	62.50	96.25	76.13	42.50	95.63	2x >, 2x =, 1x <
	EAR	86-197 DA-A	5	45.50	5.00	174.25	67.40	33.08	95.00	73.07	47.42	100.00	3x =, 2x <
LOLRI	PLANT	71-159 DA-A	2	28.00	12.25	43.75	60.00	35.00	85.00	70.00	60.00	80.00	1x =, 1x <
	EAR	71-159 DA-A	2	90.75	50.00	131.50	89.20	86.63	91.76	86.05	80.96	91.14	1x >, 1x =
MATCH	PLANT	200-228 DA-A	4	19.53	4.30	37.33	96.86	87.75	100.00	70.96	0.00	100.00	2x >, 2x =
MATIN	PLANT	90-257 DA-A	16	13.24	4.00	40.50	92.98	67.50	100.00	80.40	0.00	100.00	4x >, 10x =, 2x <
PAPRH	PLANT	15-259 DA-A	27	22.67	5.00	75.50	90.89	55.00	100.00	77.18	0.00	100.00	10x >, 15x =, 2x <
POAAN	PLANT	141-239 DA-A	8	33.40	4.75	72.30	97.74	95.00	100.00	97.03	93.13	100.00	8x =
	EAR	184-239 DA-A	6	50.93	23.30	130.75	97.90	96.06	100.00	97.47	95.06	100.00	6x =
POLCO	PLANT	42-259 DA-A	2	5.20	5.00	5.40	50.00	5.00	95.00	50.00	5.00	95.00	2x =
STEME	PLANT	15-259 DA-A	29	16.56	4.30	67.80	96.55	80.00	100.00	90.94	17.50	100.00	5x >, 24x =
VERHE	PLANT	193-217 DA-A	4	15.00	7.00	35.00	95.44	81.75	100.00	93.00	72.00	100.00	1x >, 3x =
VERPE	PLANT	86-236 DA-A	6	7.63	3.30	15.00	99.13	95.50	100.00	99.13	95.50	100.00	6x =
VIOAR	PLANT	197-259 DA-A	15	40.34	8.00	259.50	98.67	87.75	100.00	62.23	0.00	100.00	10x >, 5x =

**Efficacy results table 3.2.3.8-8 Orthogonal comparison to best performing reference products (excl. Jura EC) post-em winter cereals - Maritime EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			Best Ref. excl. Jura EC		
							Mean	Min	Max	Mean	Min	Max
ALOMY	PLANT	197-257 DA-A	8	66.63	5.00	225.00	76.09	23.00	100.00	82.63	35.00	100.00
	EAR	197-257 DA-A	8	163.16	4.75	767.00	75.52	45.42	100.00	76.01	8.33	100.00
APESV	PLANT	202-257 DA-A	6	55.88	7.25	161.50	55.88	7.25	161.50	97.63	88.00	100.00
	EAR	219-273 DA-A	7	62.93	11.25	183.50	96.71	79.44	100.00	97.36	86.31	100.00
CENCY	PLANT	202-219 DA-A	2	22.38	14.00	30.75	72.50	61.25	83.75	29.38	11.25	47.50
FUMOF	PLANT	257-257 DA-A	1	5.00	5.00	5.00	99.75	99.75	99.75	100.00	100.00	100.00
GALAP	PLANT	173-257 DA-A	6	6.30	5.00	9.00	96.79	88.75	100.00	80.63	0.00	100.00
GERPU	PLANT	216-257 DA-A	2	12.00	6.00	18.00	100.00	100.00	100.00	100.00	100.00	100.00
LAMPU	PLANT	221-221 DA-A	1	5.00	5.00	5.00	99.25	99.25	99.25	99.50	99.50	99.50
MATCH	PLANT	218-228 DA-A	3	13.60	4.30	22.50	95.92	87.75	100.00	65.83	0.00	100.00
MATIN	PLANT	197-257 DA-A	9	15.11	4.00	40.50	93.33	67.50	100.00	68.83	0.00	100.00
PAPRH	PLANT	15-257 DA-A	8	14.98	5.00	75.50	98.50	95.00	100.00	75.09	0.00	100.00
POAAN	PLANT	219-239 DA-A	2	22.50	15.00	30.00	100.00	100.00	100.00	98.88	97.75	100.00
	EAR	239-239 DA-A	1	130.75	130.75	130.75	100.00	100.00	100.00	98.23	98.23	98.23
STEME	PLANT	15-257 DA-A	8	9.92	4.30	24.80	98.16	93.75	100.00	81.38	17.50	100.00
VERPE	PLANT	173-221 DA-A	3	8.43	3.30	15.00	98.25	95.50	100.00	98.25	95.50	100.00
VIOAR	PLANT	197-257 DA-A	7	56.51	10.75	259.50	99.21	97.50	100.00	54.64	0.00	100.00

**Efficacy results table 3.2.3.8-9 Orthogonal comparison to best performing reference products (excl. Jura EC) post-em winter cereals - North-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			Best Ref. excl. Jura EC		
							Mean	Min	Max	Mean	Min	Max
ALOMY	PLANT	220-232 DA-A	2	23.65	13.00	34.30	92.88	85.75	100.00	86.25	80.00	92.50
	EAR	220-232 DA-A	2	170.13	18.00	322.25	51.88	3.75	100.00	49.14	4.75	93.52
APESV	PLANT	204-255 DA-A	7	29.40	6.00	105.80	29.40	6.00	105.80	97.32	91.25	100.00
	EAR	224-255 DA-A	5	41.60	15.00	111.25	98.86	94.31	100.00	99.33	96.65	100.00
CENCY	PLANT	216-236 DA-A	2	20.65	8.00	33.30	41.25	32.50	50.00	26.25	5.00	47.50
FUMOF	PLANT	232-232 DA-A	1	17.80	17.80	17.80	100.00	100.00	100.00	100.00	100.00	100.00
GALAP	PLANT	204-259 DA-A	5	9.58	5.00	16.50	91.75	68.75	100.00	91.90	72.50	100.00
GERPU	PLANT	207-236 DA-A	2	7.75	6.50	9.00	100.00	100.00	100.00	98.75	97.50	100.00
LAMPU	PLANT	217-259 DA-A	2	7.15	3.30	11.00	86.88	85.00	88.75	85.25	82.50	88.00
MATIN	PLANT	204-249 DA-A	4	11.00	8.00	17.00	92.88	87.50	100.00	96.88	88.00	100.00
PAPRH	PLANT	204-259 DA-A	10	21.03	6.00	63.80	86.18	55.00	100.00	71.08	12.50	100.00
POAAN	PLANT	220-220 DA-A	1	7.75	7.75	7.75	100.00	100.00	100.00	99.75	99.75	99.75
	EAR	215-215 DA-A	1	29.50	29.50	29.50	100.00	100.00	100.00	100.00	100.00	100.00
POLCO	PLANT	42-259 DA-A	2	5.20	5.00	5.40	50.00	5.00	95.00	50.00	5.00	95.00
STEME	PLANT	193-259 DA-A	10	12.02	6.00	23.75	98.78	88.75	100.00	97.00	80.00	100.00
VERHE	PLANT	193-217 DA-A	4	15.00	7.00	35.00	95.44	81.75	100.00	93.00	72.00	100.00
VERPE	PLANT	193-236 DA-A	2	6.75	5.00	8.50	100.00	100.00	100.00	100.00	100.00	100.00
VIOAR	PLANT	203-259 DA-A	8	26.20	8.00	92.30	98.19	87.75	100.00	68.88	2.50	100.00



**Efficacy results table 3.2.3.8-12 Orthogonal comparison to best performing reference products (excl. Jura EC) post-em winter cereals - South-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H- 3.2 L/ha			Best Ref. excl. Jura EC		
							Mean	Min	Max	Mean	Min	Max
APESV	PLANT	186-214 DA-A	3	20.93	10.30	40.00	20.93	10.30	40.00	90.21	75.00	98.75
	EAR	186-214 DA-A	3	49.92	7.50	133.00	80.24	50.18	96.88	82.49	53.83	97.22
GALAP	PLANT	214-214 DA-A	1	9.00	9.00	9.00	91.25	91.25	91.25	90.00	90.00	90.00
PAPRH	PLANT	186-214 DA-A	2	57.25	55.50	59.00	95.63	94.38	96.88	77.50	75.00	80.00
POAAN	PLANT	186-214 DA-A	2	38.30	33.80	42.80	96.57	96.25	96.88	93.13	93.13	93.13
	EAR	186-214 DA-A	2	27.65	23.30	32.00	96.45	96.06	96.83	95.98	95.06	96.90
STEME	PLANT	186-214 DA-A	3	43.20	16.00	67.80	89.79	81.25	94.38	90.84	82.50	95.63

The tables below show the orthogonal comparison between GLOB1912H and Jura EC (GLOB1319H). A limited amount of trials allowed for a direct comparison of both products applied at the 4 L/ha dose rate. However, the 4 L/ha dose rate currently registered for Jura (EC) is no longer sustainable due to additional restrictions. Therefore bridging trials are provided to demonstrate that the new formulation GLOB1912H applied at a dose rate of 3.2 L/ha can provide similar performance to Jura (EC) applied at a dose rate of 4 L/ha.

**Efficacy results table 3.2.3.8-13 Orthogonal comparison to Jura EC post-em winter cereals - all EPP0 Zones**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control						# trials >, <, = comp. to standard > 5% diff.
				Mean	Min	Max	GLOB1912H - 3.2 L/ha			Jura EC - 4L			
							Mean	Min	Max	Mean	Min	Max	
ALOMY	PLANT	86-257 DA-A	5	59.66	8.00	225.00	82.90	47.50	100.00	85.75	57.50	100.00	4x =, 1x <
	EAR	86-257 DA-A	5	227.15	4.75	767.00	65.78	3.75	100.00	67.09	3.50	100.00	4x =, 1x <
APESV	PLANT	84-257 DA-A	11	42.30	7.00	161.50	95.61	77.50	100.00	96.74	77.50	100.00	11x =
	EAR	84-273 DA-A	11	53.66	7.50	183.50	93.87	50.18	100.00	94.49	51.69	100.00	10x =, 1x <
CENCY	PLANT	200-236 DA-A	4	13.86	2.67	30.75	68.54	32.50	96.67	69.77	38.75	93.33	3x =, 1x <
GALAP	PLANT	71-259 DA-A	9	8.14	5.00	13.20	92.88	70.00	100.00	94.71	80.00	100.00	8x =, 1x <
GERPU	PLANT	207-257 DA-A	2	13.50	9.00	18.00	100.00	100.00	100.00	100.00	100.00	100.00	2x =
LOLMU	PLANT	86-197 DA-A	3	9.15	7.30	11.00	75.00	62.50	95.00	80.00	70.00	96.25	1x =, 2x <
	EAR	86-197 DA-A	3	64.75	5.00	174.25	70.75	53.98	95.00	73.07	60.32	88.75	1x >, 2x <
LOLRI	PLANT	71-159 DA-A	2	28.00	12.25	43.75	60.00	35.00	85.00	74.38	63.75	85.00	1x =, 1x <
	EAR	71-159 DA-A	2	90.75	50.00	131.50	89.20	86.63	91.76	88.84	86.26	91.42	1x >, 1x =
MATCH	PLANT	200-228 DA-A	3	21.38	4.30	37.33	95.81	87.75	100.00	98.17	94.50	100.00	2x =, 1x <
MATIN	PLANT	90-257 DA-A	5	53.30	10.00	100.00	89.40	67.50	100.00	94.50	73.75	100.00	2x =, 3x <
PAPRH	PLANT	15-259 DA-A	20	22.77	5.00	75.50	89.88	55.00	100.00	91.58	55.00	100.00	18x =, 2x <
POAAN	PLANT	141-239 DA-A	5	37.33	7.75	72.30	97.88	96.25	100.00	97.38	93.75	100.00	5x =
	EAR	184-239 DA-A	3	34.18	23.30	47.25	96.53	96.06	96.83	96.78	95.13	98.38	3x =
STEME	PLANT	15-259 DA-A	19	18.20	4.30	67.80	96.43	80.00	100.00	96.78	80.00	100.00	19x =
VERHE	PLANT	193-217 DA-A	3	8.33	7.00	10.00	100.00	100.00	100.00	100.00	100.00	100.00	3x =
VERPE	PLANT	86-236 DA-A	5	7.26	3.30	15.00	99.10	95.50	100.00	99.10	95.50	100.00	5x =
VIOAR	PLANT	197-259 DA-A	8	54.14	10.00	259.50	99.47	98.00	100.00	99.25	97.50	100.00	8x =
Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control						# trials >, <, = comp. to standard > 5% diff.
				Mean	Min	Max	GLOB1912H - 4 L/ha			Jura EC - 4L			
							Mean	Min	Max	Mean	Min	Max	
APESV	PLANT	84-257 DA-A	4	46.50	7.00	137.00	99.00	96.00	100.00	98.31	93.25	100.00	4x =
	EAR	84-273 DA-A	4	47.95	11.25	136.50	100.00	100.00	100.00	100.00	100.00	100.00	4x =
CENCY	PLANT	200-236 DA-A	2	11.00	8.00	14.00	69.25	47.50	91.00	61.63	38.75	84.50	2x >
GALAP	PLANT	71-259 DA-A	6	7.83	5.00	13.20	94.75	73.75	100.00	95.29	80.00	100.00	5x =, 1x <
MATIN	PLANT	90-257 DA-A	2	6.50	5.00	8.00	100.00	100.00	100.00	100.00	100.00	100.00	2x =
PAPRH	PLANT	15-259 DA-A	7	16.43	5.00	54.00	94.29	71.25	100.00	94.36	80.00	100.00	1x >, 5x =, 1x <
STEME	PLANT	15-259 DA-A	5	7.00	6.00	8.00	99.80	99.00	100.00	99.80	99.00	100.00	5x =
VERPE	PLANT	86-236 DA-A	3	4.77	3.30	6.00	98.67	96.00	100.00	98.50	95.50	100.00	3x =
VIOAR	PLANT	197-259 DA-A	3	21.33	10.00	30.00	99.83	99.50	100.00	99.33	98.00	100.00	3x =

**Efficacy results table 3.2.3.8-14 Orthogonal comparison to Jura EC post-em winter cereals - Maritime Eppo Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 3.2 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
ALOMY	PLANT	197-257 DA-A	2	116.50	8.00	225.00	73.75	47.50	100.00	78.75	57.50	100.00
	EAR	197-257 DA-A	2	385.88	4.75	767.00	72.88	45.76	100.00	73.18	46.35	100.00
APESV	PLANT	202-257 DA-A	3	102.83	10.00	161.50	99.67	99.00	100.00	99.67	99.00	100.00
	EAR	219-273 DA-A	4	86.88	11.25	183.50	99.38	97.52	100.00	99.86	99.45	100.00
CENCY	PLANT	202-219 DA-A	2	22.38	14.00	30.75	72.50	61.25	83.75	73.50	62.50	84.50
GALAP	PLANT	173-257 DA-A	3	6.27	6.00	6.80	93.83	88.75	100.00	95.17	91.75	100.00
GERPU	PLANT	216-257 DA-A	1	18.00	18.00	18.00	100.00	100.00	100.00	100.00	100.00	100.00
MATCH	PLANT	218-228 DA-A	2	13.40	4.30	22.50	93.88	87.75	100.00	97.25	94.50	100.00
MATIN	PLANT	197-257 DA-A	4	41.63	10.00	100.00	89.88	67.50	100.00	93.13	73.75	100.00
PAPRH	PLANT	15-257 DA-A	6	18.30	5.00	75.50	98.00	95.00	100.00	98.04	94.25	100.00
POAAN	PLANT	219-239 DA-A	1	30.00	30.00	30.00	100.00	100.00	100.00	100.00	100.00	100.00
STEME	PLANT	15-257 DA-A	4	11.78	4.30	24.80	96.94	93.75	100.00	98.00	95.00	100.00
VERPE	PLANT	173-221 DA-A	2	9.15	3.30	15.00	97.75	95.50	100.00	97.75	95.50	100.00
VIOAR	PLANT	197-257 DA-A	4	89.20	30.00	259.50	99.25	98.00	100.00	99.13	98.00	100.00
Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 4 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
APESV	PLANT	202-257 DA-A	1	137.00	137.00	137.00	100.00	100.00	100.00	100.00	100.00	100.00
	EAR	219-273 DA-A	2	73.88	11.25	136.50	100.00	100.00	100.00	100.00	100.00	100.00
CENCY	PLANT	202-219 DA-A	1	14.00	14.00	14.00	91.00	91.00	91.00	84.50	84.50	84.50
GALAP	PLANT	173-257 DA-A	2	6.40	6.00	6.80	97.38	94.75	100.00	95.88	91.75	100.00
MATIN	PLANT	197-257 DA-A	1	5.00	5.00	5.00	100.00	100.00	100.00	100.00	100.00	100.00
PAPRH	PLANT	15-257 DA-A	3	5.67	5.00	6.50	97.67	93.00	100.00	98.08	94.25	100.00
STEME	PLANT	15-257 DA-A	1	6.00	6.00	6.00	99.00	99.00	99.00	99.00	99.00	99.00
VERPE	PLANT	173-221 DA-A	1	3.30	3.30	3.30	96.00	96.00	96.00	95.50	95.50	95.50
VIOAR	PLANT	197-257 DA-A	1	30.00	30.00	30.00	99.50	99.50	99.50	98.00	98.00	98.00



**Efficacy results table 3.2.3.8-16 Orthogonal comparison to Jura EC post-em winter cereals - N-E Eppo Zone, CZ and DE**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 3.2 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
ALOMY	PLANT	197-257 DA-A	3	90.77	13.00	225.00	77.75	47.50	100.00	80.83	57.50	100.00
	EAR	197-257 DA-A	3	369.08	18.00	767.00	49.84	3.75	100.00	49.95	3.50	100.00
APESV	PLANT	202-257 DA-A	8	50.31	7.00	161.50	97.72	91.25	100.00	99.03	93.25	100.00
	EAR	219-257 DA-A	8	55.07	11.25	183.50	98.98	94.31	100.00	99.22	94.31	100.00
CENCY	PLANT	202-236 DA-A	3	17.58	8.00	30.75	59.17	32.50	83.75	61.92	38.75	84.50
GALAP	PLANT	197-259 DA-A	5	6.60	5.00	8.00	97.75	88.75	100.00	98.75	93.75	100.00
GERPU	PLANT	207-257 DA-A	2	13.50	9.00	18.00	100.00	100.00	100.00	100.00	100.00	100.00
MATCH	PLANT	219-219 DA-A	1	22.50	22.50	22.50	87.75	87.75	87.75	94.50	94.50	94.50
MATIN	PLANT	197-257 DA-A	5	53.30	10.00	100.00	89.40	67.50	100.00	94.50	73.75	100.00
PAPRH	PLANT	15-259 DA-A	10	22.25	5.00	75.50	89.08	55.00	100.00	89.98	55.00	100.00
POAAN	PLANT	219-220 DA-A	2	18.88	7.75	30.00	100.00	100.00	100.00	100.00	100.00	100.00
STEME	PLANT	15-259 DA-A	10	12.24	6.00	24.80	98.78	93.75	100.00	99.20	95.00	100.00
VERHE	PLANT	193-217 DA-A	3	8.33	7.00	10.00	100.00	100.00	100.00	100.00	100.00	100.00
VERPE	PLANT	193-236 DA-A	3	8.67	5.00	15.00	100.00	100.00	100.00	100.00	100.00	100.00
VIOAR	PLANT	197-259 DA-A	8	54.14	10.00	259.50	99.47	98.00	100.00	99.25	97.50	100.00
Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 4 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
APESV	PLANT	202-257 DA-A	4	46.50	7.00	137.00	99.00	96.00	100.00	98.31	93.25	100.00
	EAR	219-257 DA-A	4	47.95	11.25	136.50	100.00	100.00	100.00	100.00	100.00	100.00
CENCY	PLANT	202-236 DA-A	2	11.00	8.00	14.00	69.25	47.50	91.00	61.63	38.75	84.50
GALAP	PLANT	197-259 DA-A	4	6.75	5.00	8.00	100.00	100.00	100.00	100.00	100.00	100.00
MATIN	PLANT	197-257 DA-A	2	6.50	5.00	8.00	100.00	100.00	100.00	100.00	100.00	100.00
PAPRH	PLANT	15-259 DA-A	4	19.25	5.00	54.00	98.94	96.25	100.00	96.56	91.25	100.00
STEME	PLANT	15-259 DA-A	4	7.25	6.00	8.00	99.75	99.00	100.00	99.75	99.00	100.00
VERPE	PLANT	193-236 DA-A	2	5.50	5.00	6.00	100.00	100.00	100.00	100.00	100.00	100.00
VIOAR	PLANT	197-259 DA-A	3	21.33	10.00	30.00	99.83	99.50	100.00	99.33	98.00	100.00

**Efficacy results table 3.2.3.8-17 Orthogonal comparison to Jura EC post-em winter cereals - Mediterranean EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 3.2 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
ALOMY	PLANT	86-186 DA-A	1	18.00	18.00	18.00	81.25	81.25	81.25	86.25	86.25	86.25
	EAR	86-186 DA-A	1	23.75	23.75	23.75	79.39	79.39	79.39	85.58	85.58	85.58
CENCY	PLANT	200-200 DA-A	1	2.67	2.67	2.67	96.67	96.67	96.67	93.33	93.33	93.33
GALAP	PLANT	71-197 DA-A	2	12.25	11.30	13.20	81.57	70.00	93.13	87.82	80.00	95.63
LOLMU	PLANT	86-197 DA-A	3	9.15	7.30	11.00	75.00	62.50	95.00	80.00	70.00	96.25
	EAR	86-197 DA-A	3	64.75	5.00	174.25	70.75	53.98	95.00	73.07	60.32	88.75
LOLRI	PLANT	71-159 DA-A	2	28.00	12.25	43.75	60.00	35.00	85.00	74.38	63.75	85.00
	EAR	71-159 DA-A	2	90.75	50.00	131.50	89.20	86.63	91.76	88.84	86.26	91.42
MATCH	PLANT	200-200 DA-A	1	37.33	37.33	37.33	99.67	99.67	99.67	100.00	100.00	100.00
PAPRH	PLANT	71-200 DA-A	6	17.77	6.00	42.80	86.67	58.75	100.00	90.73	72.50	100.00
POAAN	PLANT	141-197 DA-A	1	72.30	72.30	72.30	96.25	96.25	96.25	96.88	96.88	96.88
	EAR	184-197 DA-A	1	47.25	47.25	47.25	96.71	96.71	96.71	95.13	95.13	95.13
STEME	PLANT	141-200 DA-A	5	17.90	5.00	58.50	95.00	80.00	100.00	95.38	82.50	100.00
VERPE	PLANT	86-186 DA-A	1	7.00	7.00	7.00	100.00	100.00	100.00	100.00	100.00	100.00

  

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 4 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
GALAP	PLANT	71-197 DA-A	1	13.20	13.20	13.20	73.75	73.75	73.75	80.00	80.00	80.00
PAPRH	PLANT	71-200 DA-A	2	15.75	12.50	19.00	85.63	71.25	100.00	90.00	80.00	100.00
STEME	PLANT	141-200 DA-A	1	6.00	6.00	6.00	100.00	100.00	100.00	100.00	100.00	100.00

**Efficacy results table 3.2.3.8-18 Orthogonal comparison to Jura EC post-em winter cereals - South-East EPPO Zone**

Target	Part rated	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )			Max. control					
				Mean	Min	Max	GLOB1912H - 3.2 L/ha			Jura EC - 4L		
							Mean	Min	Max	Mean	Min	Max
APESV	PLANT	186-214 DA-A	3	20.93	10.30	40.00	90.00	77.50	96.88	90.63	77.50	97.50
	EAR	186-214 DA-A	3	49.92	7.50	133.00	80.24	50.18	96.88	81.87	51.69	97.50
GALAP	PLANT	214-214 DA-A	1	9.00	9.00	9.00	91.25	91.25	91.25	91.25	91.25	91.25
PAPRH	PLANT	186-214 DA-A	2	57.25	55.50	59.00	95.63	94.38	96.88	96.57	96.25	96.88
POAAN	PLANT	186-214 DA-A	2	38.30	33.80	42.80	96.57	96.25	96.88	95.00	93.75	96.25
	EAR	186-214 DA-A	2	27.65	23.30	32.00	96.45	96.06	96.83	97.61	96.83	98.38
STEME	PLANT	186-214 DA-A	3	43.20	16.00	67.80	89.79	81.25	94.38	90.00	80.00	95.00

### **Conclusion**

The tables above demonstrate the good efficacy of GLOB1912H at the maximum requested dose rate of 3.2 L/ha. The performance of GLOB1912H at the maximum requested dose rate of 3.2 L/ha is highly similar to that of the reference products, even to Jura EC (GLOB1319H) applied at the currently registered dose rate of 4 L/ha. It should be noted that all data in support of the 3.2 L/ha dose rate can be used to support a dose rate of 3 L/ha, because they differ less than 10%.

This is supported by the “CRD Data Requirements Handbook: Chapter 8 Efficacy” as well as the “Guidance on requirements for efficacy data for zonal evaluation of a plant protection product in the Northern Zone”. Both documents state that changes of less than 10% in the amount of any formulation component applied, including the active substance, are minor and as such require no further data.

## EFFICACY

There were some trials on winter cereals and potatoes including applications with GLOB1912H and GLOB1319H, which is the product code of the currently registered Jura (EC). As demonstrated in the MED trial results these products have highly similar performance. Therefore a mean efficacy was calculated for the efficacy of both products when they were performed at the same dose rate. For the trials on sunflowers, only GLOB1319H was tested in the trials. However, because it contains the same amount of active substances and the product is used in a pre-emergence application the efficacy is not impacted by the differences in formulation between the two. This approach of the applicant can be considered acceptable.

### Results of efficacy trials performed on winter cereals.

In summary, the efficacy provided by a single application of GLOB1912H at the maximum claimed dose rate of 3,2 L/ha was evaluated in a total of 61 trials against some annual grasses and broad-leaved weeds. Data to support efficacy claims for pre-emergence and early post-emergence applications of GLOB1912H was taken from the Maritime (33 trials), the North-East (22 trials) and the South-East (6 trials) EPPO zones. These 61 trials were conducted in winter cereals comprising winter barley (16 trials), winter wheat (42 trials) and winter triticale (3 trials). Additionally as support were provided data from the Mediterranean EPPO zone (25 trials). The presented data correspond with the requirements of the EPPO Standards EPPO PP 1/135(4); 1/152(4); 1/181(4) and EPPO PP 1/93 (3). GLOB1912H is proposed for use as a pre-emergence (BBCH 00-09) or early post-emergence (BBCH 10 -13) herbicide and was once applied at the full intended application rate of 3,2 L/ha. This product was applied with a water volume of 150-300 l/ha. No trials were conducted in winter rye (SECCW) or winter durum wheat (TRZDW) and spelt (TRZSP). Since application was carried out at early crop stages, differences in efficacy are not expected and extrapolation from other presented crops is possible. The GAP table shows that the applicant is also requesting registration of GLOB1912H at a dose of 3 L/ha. Compared to the 3.2 L/ha dose, the requested change in the amount of active substances is less than 10%. It is a minor change, and no further data is required.

Control was assessed visually where 0% = no control, 100% = complete control. Based on “National guidance” the susceptibility will be rated on the following scale:

% efficacy	Weed species susceptibility
at least a 85 %	Susceptible (S)
70 - 85 %	Moderately Susceptible (MS)
60% - 70%	Moderately Resistant (MR)

### Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence or early post-emergence for weed control on winter cereals, Maritime EPPO Zone

The following tables show the levels of control provided by 3.2 l/ha GLOB1912H against each weed. It is expected that the relevance of each weed will vary across the countries of the Maritime zone and the zRMS cannot confirm how important each weed is in each cMS. Weeds that were observed in only one trial was not included in this assessment as this is insufficient to support a claim.

#### Pre-emergence application

Efficacy evaluations for pre-emergence weed control in winter cereals in the maritime zone are summarized from 19 trials, where GLOB1912H was applied at the full intended application rate of 3,2 L/ha. These 19 trials were conducted in winter cereals comprising winter barley (3 trials), winter wheat (15 trials) and winter triticale (1 trial).

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control in winter cereals.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control		
				GLOB1912H- 3.2 L/ha		Roxy 800 EC/Naceto
				Mean Min-Max	Mean Min-Max	Weed species susceptibility
VIOAR	221-273 DA-A	5	88,6 7,0-294,5	97,9 93,7-100	S	51,4 0,0-100
VERPE	158-247 DA-A	3	31,8 8,0-75,5	99,2 98,5-100	S	80,2 41,2-100
STEME	158-273 DA-A	12	17,0 5,0-98,0	98,7 93,7-100	S	84,8 32,5-100
PAPRH	217-248 DA-A	7	57,71 5,0-225,0	98,4 92,5-100	S	69,0 0,0-100
MATCH	198-235 DA-A	5	12,6 3,9-39,0	94,6 88,7-100	S	96,2 90,0-100
MATIN	158-273 DA-A	7	8,4 4,5-19,5	96,6 82,5-100	S	83,6 26,3-100
GALAP	158-248 DA-A	8	7,0 3,0-12,0	84,0 12,5-100	MS	77,0 -1,8-100
POAAN	248-273 DA-A	2	292,5 35,0-550,0	90,0 88,7-91,2	S	46,8 0,0-93,7
APESV	217-253 DA-A	3	40,7 6,0-106,5	99,7 99,0-100	S	99,7 99,0-100,0
ALOMY	213-248 DA-A	8	71,2 6,0-192,5	89,2 67,5-100	S	86,7 25,0-100

An overview summary for GLOB1912H at the claimed dose rate of 3,2 L/ha shows that a susceptible (S) response (>85%) was observed for annual grasses *Poa annua*, *Apera spica-venti*, *Alopecurus myosuroides* and annual broadleaved weeds: *Viola arvensis*, *Veronica persica*, *Stellaria media*, *Papaver rhoeas*, *Matricaria chamomilla*, *Tripleurospermum inodorum* with except *Galium aparine* where weed was controlled to 84%. Notably, in most trials, the efficacy of GLOB1912H was numerical or statistically significantly better than the reference product.

### Post-emergence application

Efficacy evaluations for post-emergence weed control in winter cereals in the maritime zone are summarized from 14 trials, where GLOB1912H was applied at the full intended application rate of 3,2 L/ha. These 14 trials were conducted in winter cereals comprising winter barley (4 trials), and winter wheat (10 trials).

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha post-emergence for weed control in winter cereals.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control		
				GLOB1912H- 3.2 L/ha		Roxy 800 EC/Naceto
				Mean Min-Max	Mean Min-Max	Weed species susceptibility
ALOMY	197-257 DA-A	8	66,6 5,0-225,0	76,0 23,0-100	MS	82,6 35,0-100
APESV	202-257 DA-A	6	55,9 7,2-161,5	99,0 94,7-100	S	96,0 88,0-100
POAAN	219-239 DA-A	2	22,5 15,0-30,0	100	S	98,9 97,7-100
GALAP	173-257 DA-A	6	6,3 5,0-9,0	96,8 88,7-100	S	80,6 0,00-100
GERPU	216-257 DA-A	2	12,0 6,0-18,0	100	S	100
MATCH	218-228 DA-A	3	13,6 4,3-22,5	95,9 87,7-100	S	65,8 0,0-100
MATIN	197-257 DA-A	9	15,1 4,0-40,5	93,3 67,5-100	S	68,8 0,0-100
PAPRH	15-257 DA-A	8	14,9 5,0-75,5	98,5 95,0-100	S	75,0 0,0-100
STEME	15-257 DA-A	8	9,9 4,3-24,8	98,2 93,7-100	S	81,4 17,5-100
VERPE	173-221 DA-A	3	8,4 3,3-15,00	98,2 95,5-100	S	98,2 95,5-100
VIOAR	197-257 DA-A	7	56,5 10,7-259,5	99,2 97,5-100	S	54,6 0,0-100
CENCY	202-219 DA-A	2	22,4 14,0-30,7	72,5 61,2-83,7	MS	29,4 11,2-47,5

An overview summary for GLOB1912H at the claimed dose rate of 3,2 L/ha shows that a susceptible (S) response (>85%) was observed for annual grasses *Poa annua* and *Apera spica-venti* and annual broadleaved weeds: *Galium aparine*, *Geranium pusillum*, *Matricaria chamomilla*, *Tripleusperrum inodorum*, *Papaver rhoeas*, *Stellaria media*, *Veronica persica* and *Viola arvensis* with except *Alopecurus myosuroides* and *Centaurea cyanus* where weeds were controlled to 76% and 72,5% accordingly. Notably, in most trials, the efficacy of GLOB1912H was numerical or statistically significantly better than the reference product.

### Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control on potatoes

The presented data correspond with the requirements of the EPPO Standards EPPO: EPPO PP 1/135(4); 1/152(4); 1/181(4) and PP 1/51(3). The efficacy of GLOB1912H against weeds on potatoes was tested from 2019 to 2020 in 15 field trials. GLOB1912H is proposed for use as a pre-emergence (BBCH 00-09) herbicide and was once applied at the full intended application rate of 3,2 L/ha. This product was applied with a water volume of 200-300 l/ha.

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control on potatoes.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max, control		
				GLOB1912H- 3,2 L/ha		BOXER
				Mean Min-Max	Weed species susceptibility	Mean Min-Max
ECHCG	30-119 DA-A	11	22,06 5,0-92,5	56,8 10,0-100	MT	54,0 16,2-100
POAAN	39-39 DA-A	2	15,0 15,0-15,0	100	S	100
GAETE	39-39 DA-A	2	12,13 10,5-13,7	100	S	90,0 80,0-100
VIOAR	39-39 DA-A	2	16,2 15,0-17,5	100	S	77,5 75,0-80,0
POLLA	39-39 DA-A	2	5,0 5,0-5,0	94,7 94,4-95,0	S	83,1 72,5-93,7
THLAR	30-98 DA-A	4	18,38 7,2-30,0	99,7 98,7-100	S	98,4 95,0-100
POLCO	60-62 DA-A	4	11,2 5,0- 21,0	87,0 75,0-96,1	S	71,19 42,5-96,5
VERPE	30-98 DA-A	4	13,13 5,2-21,2	85,0 40,0-100	MS	87,5 50,0-100
MATIN	39-98 DA-A	4	9,56 7,0-11,2	78,0 51,2-100	MS	81,8 53,7-100
CHEAL	39-119 DA-A	13	15,98 4,9-55,0	76,3 30,0-100	MS	80,0 63,7-100
SOLNI	61-119 DA-A	12	11,79 5,2-25,0	76,6 21,25-100	MS	71,03 0,0-100
MERAN	61-62 DA-A	2	11,88 10,5-13,2	76,88 61,2-92,5	MS	36,8 31,2-42,5
FUMOF	98-98 DA-A	2	6,38 6,2-6,5	65,31 50,0-80,6	MT	79,3 68,7-90,0
GERPU	98-98 DA-A	2	6,13 5,7-6,5	44,38 36,2-52,5	T	82,5 70,0-95,0

As can be seen from the data, there were some weed species where the 3,2 l/ha dose provided high levels of control and was comparable to the reference product. These were *Poa annua*, *Galeopsis tetrahit*, *Viola arvensis*, *Persicaria lapathifolia*, *Thlaspi arvense*, and *Fallopia convolvulus*. All of these weeds appear to be particularly sensitive to GLOB1912H. Whereas *Veronica persica*, *Tripleusperrum inodorum*, *Chenopodium album*, *Solanum nigrum*, and *Mercurialis annua* were partially controlled. For *Fumaria officinalis*, *Geranium pusillum* and *Echinochloa crus-galli* dose rate 3,2 L/ha of GLOB1912H was insufficient.

### Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control on sunflowers

The presented data correspond with the requirements of the EPPO Standards EPPO: EPPO PP 1/135(4); 1/152(4); 1/181(4) and EPPO PP 1/63(3). Data are presented from 7 efficacy trials with GLOB1912H. The trials were conducted in the Maritime, EPPO zone between 2019 and 2020 by GEP certified research institutions in the Czech Republic, France, and Germany.

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control in sunflowers.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max, control		
				GLOB1912H- 3,2 L/ha		BOXER
				Mean Min-Max	Weed species susceptibility	Mean Min-Max
CHEAL	56-71 DA-A	6	57,0 11,7-138	95,6 90,0-100	S	76,1 15,0-98,5
ECHCG	56-71 DA-A	5	30,2 9,0-71,0	79,8 62,5-99,0	MS	64,7 0,0-96,2
POLCO	56-62 DA-A	4	10,4 6,2-21,0	91,5 82,5-100	S	67,7 22,5-98,5
POLLA	56-56 DA-A	2	13,4 6,7-20,0	100	S	42,5 0,0-85,0

In these trials GLOB1912H at the recommended application rate of 3,2 L/ha provided effective control (>85%) of the annual broadleaved weeds *Chenopodium album*, *Fallopia convolvulus*, *Persicaria lapathifolia* while annual grass *Echinochloa crus-galli* was partially controlled. In this case, data demonstrated that a pre-emergence single application of GLOB1912H performed much better overall control of weeds than a standard product.

#### NORTH-EAST EPPO ZONE

#### Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence or early post-emergence for weed control on winter cereals, NORTH-EAST EPPO ZONE.

#### PRE-EMERGENCE APPLICATION

Efficacy evaluations for pre-emergence weed control in winter cereals in the North-east EPPO zone are summarized from 11 trials, where GLOB1912H was applied at the full intended application rate of 3,2 L/ha. These 11 trials were conducted in winter cereals comprising winter barley (3 trials), winter wheat (7 trials) and winter triticale (1 trial). Additionally, 12 field results from trials conducted in countries neighboring Poland were included in this assessment. These 12 trials were conducted in winter cereals comprising winter barley (2 trials), and winter wheat (10 trials).

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control in winter cereals.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control		
				GLOB1912H- 3.2 L/ha		Roxy 800 EC/Naceto
				Mean Min-Max	Weed species susceptibility	Mean Min-Max
<b>MAJOR WEEDS</b>						
VIOAR	217-271 DA-A	7	51,2 5,0-294,5	98,2 90,0-100	S	73,0 27,5100
PAPRH	205-271 DA-A	14	9,3 4,7-37,0	97,4 83,7-100	S	78,79 7,50-100
MATIN	158-253 DA-A	12	9,1 4,5-19,5	94,7 78,7-100	S	80,54 0,0-100
APESV	217-259 DA-A	8	31,4 5,0-106,5	99,7 99,0-100	S	97,2 80,0-100
GALAP	158-271 DA-A	11	6,3 3,0-12,0	86,4 27,5-100	MS	82,00 27,50-100
ALOMY	213-256 DA-A	8	76,2 6,0-192,5	85,6 67,5-100	MS	82,2 25,0-100
<b>MINOR WEEDS</b>						
VERHE	207-231 DA-A	3	6,7 5,0-8,0	100	S	100
GERPU	220-238 DA-A	3	7,6 5,0-10,0	100	S	97,9 93,75-100

STEME	158-271 DA-A	17	10,4 5,0-37,0	99,3 93,7-100	S	83,4 32,5-100
VERPE	158-256 DA-A	3	31,2 8,0-75,5	96,9 91,7-100	S	92,17 77,5100
MATCH	213-229 DA-A	2	21,6 4,2-39,0	92,1 90,5-93,7	S	97,5 95,0-100
POAAN	231-247 DA-A	2	8,5 5,0-12,0	100	S	100,00

An overview summary for GLOB1912H at the claimed dose rate of 3,2 L/ha shows that a susceptible (S) response (>85%) was observed for annual grasses *Poa annua* and *Apera spica-venti* and annual broadleaved weeds: *Viola arvensis*, *Papaver rhoeas*, *Tripleuspermum inodorum*, *Geranium pusillum*, *Matricaria chamomilla*, *Stellaria media*, and *Veronica hederifolia* with except *Alopecurus myosuroides* and *Galium aparine* where weeds were controlled to 85,6% and 86,6% accordingly. The susceptibility of these two weeds was downgraded to moderately susceptible (MS) due to their highly variable susceptibility to the dose rate of 3.2 l/ha GLOB1912H in individual trials. Notably, in most trials, the efficacy of GLOB1912H was numerical or statistically significantly better than the reference product.

### Post-emergence application

Efficacy evaluations for pre-emergence weed control in winter cereals in the North-east EPPO zone are summarized from 11 trials, where GLOB1912H was applied at the full intended application rate of 3,2 L/ha. These 11 trials were conducted in winter cereals comprising winter barley (4 trials), winter wheat (6 trials) and winter triticale (1 trial). Additionally, 10 field results from trials conducted in countries neighboring Poland were included in this assessment. These 10 trials were conducted in winter cereals comprising winter barley (3 trials), and winter wheat (6 trials) and winter triticale (1 trial).

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha post-emergence for weed control in winter cereals.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> ) Mean Min-Max	Max. control		
				GLOB1912H- 3.2 L/ha Mean Min-Max	Weed species susceptibility	Roxy 800 EC/Naceto Mean Min-Max
<b>MAJOR WEEDS</b>						
ALOMY	197-257 DA-A	7	73,7 5,0-225,0	81,8 47,5-100	MS	83,7 35,0-100
APESV	202-257 DA-A	11	47,8 6,0-161,5	99,3 94,3-100	S	98,2 91,2-100
GALAP	197-259 DA-A	10	7,9 5,0-16,5	94,7 68,7-100	S	85,9 0,0-100,0
MATIN	197-257 DA-A	12	13,5 4,0-40,5	92,7 67,5-100	S	79,4 0,0-100
PAPRH	15-259 DA-A	16	19,89 5,00-75,50	90,9 55,0-100	S	72,4 0,0-100
VIOAR	197-259 DA-A	13	44,6 8,0-259,5	98,6 87,7-100	S	62,0 0,0-100
<b>MINOR WEEDS</b>						
FUMOF	232-257 DA-A	2	11,4 5,0-17,8	99,9 99,7-100	S	100
GERPU	207-257 DA-A	4	9,9 6,0-18,0	100	S	99,4 97,5-100
LAMPU	217-259 DA-A	3	6,4 3,3-11,0	91,0 85,0-99,2	S	90,0 82,5-99,5
POAAN	219-220 DA-A	2	18,9 7,7-30,0	100	S	99,9 99,7-100
STEME	15-259 DA-A	15	11,7 6,0-24,8	98,4 88,7-100	S	89,9 17,5-100
VERHE	193-217 DA-A	4	15,0 7,0-35,0	95,44 81,75-100	S	93,0 72,0-100
VERPE	193-236 DA-A	4	8,9 5,0-15,0	99,8 99,2-100	S	99,8 99,2-100
POLCO	42-259 DA-A	2	5,20 5,00-5,40	50,0 5,0-95,0	T	50,0 5,0-95,0
CENCY	202-236 DA-A	4	21,5 8,0-33,3	56,9 32,5-83,7	MT	27,8 5,0-47,5

An overview summary for GLOB1912H at the claimed dose rate of 3,2 L/ha shows that a susceptible (S) response (>85%) was observed for annual grasses *Poa annua* and *Apera spica-venti* and annual

broadleaved weeds: *Galium aparine*, *Tripleuspermum inodorum*, *Papaver rhoeas*, *Viola arvensis*, *Fumaria officinalis*, *Geranium pusillum*, *Lamium purpureum*, *Stellaria media*, *Veronica hederifolia*, *Veronica persica* with except *Alopecurus myosuroides* where was controlled to 82%. *Fallopia convolvulus* and *Centaurea cyanus* were insufficiently controlled by GLOB1912H. Notably, in most trials, the efficacy of GLOB1912H was numerical or statistically significantly better than the reference product.

### Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control on potatoes.

The presented data correspond with the requirements of the EPPO Standards EPPO: EPPO PP 1/135(4); 1/152(4); 1/181(4) and PP 1/51(3). The efficacy of GLOB1912H against weeds on potatoes was tested from 2019 to 2020 in 12 field trials. GLOB1912H is proposed for use as a pre-emergence (BBCH 00-09) herbicide and was once applied at the full intended application rate of 3,2 L/ha. This product was applied with a water volume of 200-300 l/ha.

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control in potatoes.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max, control		
				GLOB1912H- 3,2 L/ha	Weed species susceptibility	BOXER
			Mean Min-Max	Mean Min-Max		Mean Min-Max
ECHCG	39-98 DA-A	15	67,2 3,0-493,7	82,0 39,3-100	MS	80,7 47,7-100
POAAN	39-39 DA-A	2	15,0 15,0-15,0	100	S	100 100
POLCO	39-120 DA-A	9	11,0 5,0-38,3	91,7 56,2-100	S	80,2 20,0-100
POLLA	39-39 DA-A	2	5,0 5,0-5,0	94,7 94,4-95,0	S	83,1 72,5-93,7
POLPE	39-80 DA-A	5	6,5 5,2-7,5	98,0 91,9-100	S	94,2 83,7-100
POLPI	39-39 DA-A	2	61,9 20,5-103,2	92,8 88,1-97,5	S	98,7 98,7- 98,7
THLAR	30-98 DA-A	4	18,4 7,2-30,0	99,7 98,7-100	S	98,4 95,0-100
VIOAR	39-80 DA-A	7	9,8 5,2-17,5	96,4 85,0-100	S	82,7 50,0-100
GAETE	39-43 DA-A	3	13,6 10,5-16,5	97,5 92,5-100	S	89,2 80,0-100
GASPA	45-120 DA-A	4	9,2 6,0-16,0	91,9 82,5-100	S	95,6 82,5-100
AMARE	39-87 DA-A	5	19,1 5,2-46,0	91,2 75,0-100	S	93,5 72,5-100
CAPBP	33-43 DA-A	2	32,3 9,0-55,6	92,5 85,0-100	S	92,5 85,0-100
VERPE	30-98 DA-A	4	13,1 5,2-21,2	85,0 40,0-100,0	MS	87,5 50,0-100,0
MATIN	39-98 DA-A	7	10,3 6,0-15,2	83,8 51,2-100	MS	84,8 53,7-100
SOLNI	39-119 DA-A	8	8,9 1,7-23,0	82,9 58,7-100	MS	88,7 70,0-100
CHEAL	39-123 DA-A	20	16,9 5,5-43,0	81,2 30,0-100	MS	78,8 20,0-100
FUMOF	43-98 DA-A	3	9,9 6,2-17,0	71,0 50,0-82,5	MS	68,7 47,5-90,0
GERPU	98-123 DA-A	4	9,3 5,7-13,0	49,9 36,2-74,7	T	73,1 35,0-95,0
AGRRE	123-123 DA-A	2	15,7 14,7-16,7	5,6 3,7-7,5	T	20,0 15,0-25,0

As can be seen from the data, there were some weed species where the 3,2 l/ha dose provided high levels of control and was comparable to the reference product. These were *Poa annua*, *Fallopia convolvulus*, *Persicaria lapathifolia*, *Persicaria maculosa*, *Polygonum persicarioides*, *Thlaspi arvense*, *Viola arvensis*, *Galeopsis tetrahit*, *Galinsoga parviflora*, *Amaranthus retroflexus*, and *Capsella bursa-pastoris*. All of these weeds appear to be particularly sensitive to GLOB1912H. While in the case of *Veronica persica*,

*Tripleuspermum inodorum*, *Solanum nigrum*, *Chenopodium album*, *Fumaria officinalis* and *Echinochloa crus-galli* these weeds were only partially controlled. For *Geranium pusillum* and *Elymus repens* herbicide GLOB1912H at dose rate of 3,2 l/ha was insufficient.

### Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control on sunflowers.

Data from 4 efficacy trials with GLOB1912H are presented. The trials were conducted in the EPPO Maritime zone in 2019-2020 by GEP-certified research institutions in the Czech Republic and Germany. Sunflowers are considered a minor crop in Poland, therefore, these trials are acceptable.

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control in sunflowers.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control		
				GLOB1912H- 3.2 L/ha		BOXER
				Mean Min-Max	Mean Min-Max	Weed species susceptibility
CHEAL	56-71 DA-A	4	34,7 11,7-73,5	98,2 95,0-100	S	66,5 15,0-98,5
ECHCG	56-71 DA-A	4	26,8 9,0-71,0	81,7 62,5-99,0	MS	59,7 0,0-96,2
POLCO	56-56 DA-A	3	11,7 6,2-21,0	94,1 82,5-100	S	57,0 22,5-98,5
POLLA	56-56 DA-A	2	13,4 6,7-20,0	100	S	42,5 0,0-85,0

In these trials GLOB1912H at the recommended application rate of 3,2 L/ha provided effective control (>85%) of the annual broadleaved weeds *Chenopodium album*, *Fallopia convolvulus*, *Persicaria lapathifolia* while annual grass *Echinochloa crus-galli* was partially controlled. In this case, data demonstrated that a pre-emergence single application of GLOB1912H performed much better overall control of weeds than a standard product.

### SOUTH-EAST EPPO Zone

### Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence or early post-emergence for weed control on winter cereals.

#### Pre-emergence application

Efficacy evaluations for pre-emergence weed control in winter cereals in the South-east EPPO zone are summarized from 3 trials, where GLOB1912H was applied at the full intended application rate of 3,2 L/ha. These 3 trials were conducted in winter cereals comprising winter barley (1 trials), winter wheat (2 trials).

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control in winter cereals.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max. control		
				GLOB1912H- 3.2 L/ha		Best Ref. excl. Jura EC
				Mean Min-Max	Mean Min-Max	Weed species susceptibility
APESV	200-228 DA-A	3	20,9 10,3-40,0	88,1 72,5-96,8	S	86,0 67,5-95,6
PAPRH	200-228 DA-A	2	57,2 55,5-59,0	94,3 93,7-95,0	S	75,6 71,2-80,0
POAAN	200-228 DA-A	2	38,3 33,8-42,8	94,7 94,4-95,0	S	94,4 92,5-96,2
STEME	200-228 DA-A	3	43,2 16,0-67,8	84,6 70,0-93,1	MS	84,6 70,0-92,5

An overview summary for GLOB1912H at the claimed dose rate of 3,2 L/ha shows that a susceptible (S) response (>85%) was observed for annual grasses *Poa annua* and *Apera spica-venti* and annual

broadleaved weed *Papaver rhoeas* whereas *Stellaria media* was moderately susceptible (MS) with mean control level of 84,6%

Notably, in most trials, the efficacy of GLOB1912H was numerical or statistically significantly better than the reference product.

### Post-emergence application

Efficacy evaluations for post-emergence weed control in winter cereals in the South-east EPPO zone are summarized from 3 trials, where GLOB1912H was applied at the full intended application rate of 3,2 L/ha. These 3 trials were conducted in winter cereals comprising winter barley (1 trials), winter wheat 2 trials).

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha post-emergence for weed control in winter cereals.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> ) Mean Min-Max	GLOB1912H- 3,2 L/ha		Max. control
				Mean Min-Max	Weed species susceptibility	Best Ref. excl. Jura EC Mean Min-Max
APESV	186-214 DA-A	3	20,9	90,0	S	90,2
			10,3-40,0	77,5-96,8		75,0-98,7
PAPRH	186-214 DA-A	2	57,2	95,6	S	77,5
			55,5-59,0	94,4-96,9		75,0-80,0
POAAN	186-214 DA-A	2	38,3	96,6	S	93,1
			33,8-42,8	96,2-96,9		93,1-93,1
STEME	186-214 DA-A	3	43,2	89,8	S	90,8
			16,0-67,8	81,2-94,4		82,5-95,6

Collected results clearly shown that dose rate of 3,2 l/ha of GLOB1912H effectively controlled *Apera spica-venti*, *Poa annua*, *Papaver rhoeas*, and *Stellaria media*. Notably, in most trials, the efficacy of GLOB1912H was numerical or statistically significantly better than the reference product.

### Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control on potatoes.

The presented data correspond with the requirements of the EPPO Standards EPPO: EPPO PP 1/135(4); 1/152(4); 1/181(4) and PP 1/51(3). The efficacy of GLOB1912H against weeds on potatoes was tested from 2019 to 2020 in 3 field trials. GLOB1912H is proposed for use as a pre-emergence (BBCH 00-09) herbicide and was once applied at the full intended application rate of 3,2 L/ha. This product was applied with a water volume of 200-300 l/ha.

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control in potatoes.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> ) Mean Min-Max	Max, control		
				GLOB1912H- 3,2 L/ha		Best Ref,
				Mean Min-Max	Weed species susceptibility	Mean Min-Max
CHEAL	44-46 DA-A	3	15,25	94,6	S	93,8
			6,2-20,2	91,0-97,7		88,1-98,2
ECHCG	44-46 DA-A	2	5,9	86,3	S	88,1
			4,5-7,3	81,2-91,3		86,2-90,0
SOLNI	44-46 DA-A	3	8,25	82,3	MS	64,4
			5,2-12,5	75,0-93,2		18,7-93,7

Collected results clearly shown that dose rate of 3,2 l/ha of GLOB1912H effectively controlled *Chenopodium album*, *Echinochloa crus-galli*, while *Solanum nigrum* was partially controlled. Notably, in most trials, the efficacy of GLOB1912H was numerical or statistically significantly better than the reference product.

### Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control on sunflowers.

The presented data correspond with the requirements of the EPPO Standards EPPO: EPPO PP 1/135(4); 1/152(4); 1/181(4) and EPPO PP 1/63(3). Data are presented from 7 efficacy trials with GLOB1912H. The trials were conducted in the South-east EPPO zone between 2019 and 2020 by GEP certified research institutions in the Croatia, Hungary and Romania.

Tab. Summary of efficacy results for GLOB1912H applied at 3,2 L/ha pre-emergence for weed control in sunflowers.

Target	Timing	n	Infestation in the untreated control (#/m <sup>2</sup> )	Max, control		
				GLOB1912H- 3,2 L/ha		Best Ref,
				Mean Min-Max	Mean Min-Max	Weed species susceptibility
AMARE	102-115 DA-A	2	15,5 13,5-17,5	68,7 55,0-82,5	MT	70,0 57,5-82,5
AMBEL	62-108 DA-A	3	15,0 7,0-24,7	77,5 71,3-85,0	MS	68,75 52,5-80,0
CHEAL	55-115 DA-A	5	19,3 7,0-33,7	83,6 67,5-98,25	MS	77,2 55,0-98,7
ECHCG	55-115 DA-A	6	22,8 4,5-49,5	73,3 52,5-90,0	MS	72,5 50,0-89,0
POLLA	55-115 DA-A	2	31,7 4,0-59,5	68,7 55,0-82,5	MT	70,0 55,0-85,0

In this use, data demonstrated that a pre-emergence single application of GLOB1912H performed a similar effect of control of weeds to the standard product. As can be seen from the data above *Ambrosia artemisiifolia*, *Chenopodium album*, and annual grass *Echinochloa crus-galli* were moderately susceptible while *Amaranthus retroflexus* and *Persicaria lapathifolia* were tolerant to dose rate of 3,2 l/ha of GLOB1912H.

### 3.3 Information on the occurrence or possible occurrence of the development of resistance (KCP 6.3)

#### 3.3.1 Mode of action and resistance mechanism

Prosulfocarb belongs to the chemical family of the thiocarbamates and is a member of HRAC/WSSA group 15; it is an inhibitor of Very Long-Chain Fatty Acid (VLCFA) synthesis. The primary site of absorption and action of these herbicides on broadleaf species is the roots, while the primary site of absorption and action on grass species is the emerging shoot.

Symptoms on grasses include failure of the shoot to emerge from the coleoptile of the plant. Susceptible grass seedlings often fail to emerge from the soil. Injury symptoms on broadleaved plants include enlarged cotyledons, restricted growth of the true leaves, dark green colour, and stunting. Other symptoms on broadleaf plants include leaf crinkling, leaf red colouring, chlorosis, necrosis, and leaf distortion.

Prosulfocarb is systemic and must be activated within the plant by a P450 enzyme to become herbicidal. Resistance to prosulfocarb is suspected to be caused by the absence of one or more P450s, although there no research yet to support this hypothesis.

Diflufenican belongs to the chemical family of the phenyl ethers and is a member of HRAC/WSSA group 12; it is an inhibitor of Phytoene Desaturase, used to control broadleaved weeds. It is a foliar herbicide mostly taken up by the growing shoots of young plants. It also has a long lasting residual action, thereby providing long lasting control against weeds emerging after application.

When enzymes involved in carotenoid biosynthesis are inhibited, degradation of chlorophyll and the destruction of the chloroplast membranes occurs. This causes pronounced bleaching symptoms and necrosis of the tissues of susceptible plants, leading to plant death.

Resistance to diflufenican was studied in *Sisymbrium orientale*<sup>1</sup>, in the study resistance was conferred by target site mutations in the Phytoene Desaturase (PDS) gene which reduces its sensitivity to the active substance. Another study on the resistance of diflufenican-resistance in *Raphanus raphanistrum*<sup>2</sup> showed that resistance in this species was likely due to non-target-site based enhanced herbicide metabolism involving cytochrome P450s.

### 3.3.2 Evidence of resistance

Ian Heap's Database<sup>3</sup> 'The International Survey of herbicide Resistant Weeds' was consulted to look for reported cases of resistance to prosulfocarb and diflufenican.

The results are shown in the table below.

**Table 3.3-1 Resistance events for diflufenican**

Year	Species	Country	MOAs	Actives	Crop
2006	<i>Raphanus raphanistrum</i>	Australia	Auxin Mimics; HRAC Group 4 Inhibition of Acetolactate Synthase; HRAC Group 2 Phytoene Desaturase inhibitors HRAC Group 12	triasulfuron diflufenican MCPA 2,4-D	Cereals
1998	<i>Raphanus raphanistrum</i>	Australia	Inhibition of Acetolactate Synthase; HRAC Group 2 Phytoene Desaturase inhibitors HRAC Group 12	chlorsulfuron metosulam diflufenican	Cropland
2010	<i>Raphanus raphanistrum</i>	Australia	Auxin Mimics; HRAC Group 4 Inhibition of Acetolactate Synthase; HRAC Group 2 Inhibition of Enolpyruvyl Shikimate Phosphate Synthase; HRAC Group 9 Phytoene Desaturase inhibitors HRAC Group 12	imazethapyr chlorsulfuron sulfometuron-methyl metosulam diflufenican glyphosate MCPA 2,4-D	Fallow
2015	<i>Raphanus raphanistrum</i>	Australia	Auxin Mimics; HRAC Group 4 Inhibition of Acetolactate Synthase; HRAC Group 2 Inhibition of Hydroxyphenyl Pyruvate Dioxygenase; HRAC Group 27 Phytoene Desaturase inhibitors HRAC Group 12 PSII inhibitors - Serine 264 Binders; HRAC Group 5	chlorsulfuron atrazine diflufenican fluridone isoxaflutole 2,4-D mesotrione tembotrione	Wheat
2011	<i>Sisymbrium orientale</i>	Australia	Phytoene Desaturase inhibitors HRAC Group 12	diflufenican	Peas
2020	<i>Arctotheca calendula</i>	Australia	Inhibition of Acetolactate Synthase; HRAC Group 2 Inhibition of Enolpyruvyl Shikimate Phosphate Synthase; HRAC Group 9 Phytoene Desaturase inhibitors HRAC Group 12	metosulam diflufenican glyphosate	Wheat

**Table 3.3-2 Resistance events for prosulfocarb**

Year	Species	Country	MOAs	Actives	Crop
2011	<i>Alopecurus myosuroides</i>	Sweden	Inhibition of Acetolactate Synthase; HRAC Group 2 Inhibition of Acetyl CoA Carboxylase; HRAC Group 1 Very Long-Chain Fatty Acid Synthesis inhibitors HRAC Group 15	fenoxaprop-ethyl flupyrulfuron- methyl-Na prosulfocarb pyroxsulam	Wheat

<sup>1</sup> Dang, Hue & Malone, Jenna & Boutsalis, Peter & Gill, Gurjeet & Preston, Christopher. (2018). The Mechanism of Diflufenican Resistance and its Inheritance in Oriental Mustard (*Sisymbrium orientale* L.) from Australia. *Pest Management Science*. 74. 10.1002/ps.485

<sup>2</sup> Lu H, Yu Q, Han H, Owen MJ, Powles SB. Non-target-site resistance to PDS-inhibiting herbicides in a wild radish (*Raphanus raphanistrum*) population. *Pest Manag Sci*. 2020 Jun;76(6):2015-2020. doi: 10.1002/ps.5733. Epub 2020 Jan 10. PMID: 31867843.

<sup>3</sup> Heap, I. The International Survey of Herbicide Resistant Weeds. [www.weedscience.com](http://www.weedscience.com)

### 3.3.3 Inherent risk of target species

Ian Heap's Database<sup>4</sup> 'The International Survey of herbicide Resistant Weeds' was consulted to look for all reported resistance events (for all herbicides) for weeds that have developed resistance to either diflufenican or prosulfocarb.

*Raphanus raphanistrum* has developed resistance to a range of herbicides with different modes of action. It should be noted that all reported cases of resistance to diflufenican occurred in Australia, all other resistance events (incl. resistance to other active substances) occurred in Australia, Brazil and South Africa. Resistance events in *Sisymbrium orientale* and *Arctotheca calendula* was also limited to Australia, with resistance to Group 2 herbicides being the most prominent.

*Alopecurus myosuroides* is known to have a high risk of developing resistance to a broad range of herbicides. It is a problematic weed across Europe, with reported resistance against many different herbicides. However, resistance to diflufenican has not been observed and resistance to prosulfocarb is limited to one observation.

It is clear from the efficacy results shown in section 3.2.3 that GLOB1912H provides good pre- and post-emergence control of *Alopecurus myosuroides* in winter cereals when applied at the maximum requested dose rate of 3.2 L/ha.

### 3.3.4 Agronomic risk

As can be seen in the sections above, weed resistance to prosulfocarb and diflufenican has never been observed together, additionally resistance to diflufenican has never been observed in Europe.

The fact that resistance to both actives has not been observed together in the many years these substances have been used underscores the importance of GLOB1912H to combat resistant weeds.

Because GLOB1912 is only applied once per year it has a very limited selection pressure. This makes resistance unlikely to occur.

### 3.3.5 Cross resistance

Ian Heap's Database<sup>5</sup> 'The International Survey of herbicide Resistant Weeds' was consulted to look for instances of weeds resistant to diflufenican that were also resistant to other member of HRAC/WSSA Group 12. For all other Group 12 herbicides except fluridone (beflubutamid, picolinafen, flurochloridone, norflurazon, fluramone) no resistance was observed at all.

The only reported case of cross-resistance to any of the other PDS herbicides was the 2015 case of *Raphanus raphanistrum* in Table 3.3-1. In this instance resistance to diflufenican and fluridone was observed together. The only other observation of resistance to fluridone showed no sign of cross-resistance to diflufenican.

As can be seen in Table 3.3-2 only one case of resistance to prosulfocarb has been reported, with no resistance to other Group 15 herbicides.

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<sup>4</sup> Heap, I. The International Survey of Herbicide Resistant Weeds. [www.weedscience.com](http://www.weedscience.com)

<sup>5</sup> Heap, I. The International Survey of Herbicide Resistant Weeds. [www.weedscience.com](http://www.weedscience.com)

### **3.3.6 Sensitivity data**

No studies on baseline sensitivity data are available to the applicant.

### **3.3.7 Use pattern**

The use pattern is detailed in the GAP table.

### **3.3.8 Resistance risk assessment of the unrestricted use pattern**

Considering all of the above no label restrictions or other resistance measures are required.

Comments of zRMS:	The applicant addresses all points of EPPO Standard PP 1/213 to evaluate the possible actual risk of resistance to GLOB1912H. The applicant states that weed resistance to prosulfocarb and diflufenican has never been observed together, additionally resistance to diflufenican has never been observed in Europe. Because the product is only applied once per year before there is a very limited selection pressure. This makes resistance unlikely to occur. Overall, zRMS considers that the risk of developing resistance to prosulfocarb and diflufenican of the proposed use of GLOB1912H is low to moderate. The risk is primarily due to the inherent risk of certain target weeds. Given this risk, an overall strategy to prevent and manage such resistance should be adopted following the HRAC.
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### 3.4 Adverse effects on treated crops (KCP 6.4)

Separate crop safety trials were performed to demonstrate the absence of negative effects. The number of trials per crop and EPPO Zone are shown in the table below.

**Table 3.4-1: Presentation of trials (selectivity trials, transformation trials...)**

Crop(s) *	Country	Years	Type of trial**	MAR Zone <sup>(1)</sup>	N-E Zone <sup>(2)</sup>	MED Zone <sup>(3)</sup>	S-E Zone <sup>(4)</sup>	GEP, non-GEP, official***	Comments
HORVW Pre-em	BE	2020	S, Y, Q	1				GEP	
	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	IT	2020	S, Y, Q			1		GEP	
	PL	2020	S, Y, Q		1			GEP	
	<b>TOTAL</b>				<b>3</b>	<b>1</b>	<b>1</b>		
HORVW Post-em	BE	2020	S, Y, Q	1				GEP	
	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	IT	2020	S, Y, Q			1		GEP	
	PL	2020	S, Y, Q		1			GEP	
	<b>TOTAL</b>				<b>3</b>	<b>1</b>	<b>1</b>		
SECCW Pre-em	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	UK	2020	S, Y, Q	1				GEP	
	PL	2020	S, Y, Q		1			GEP	
	<b>TOTAL</b>				<b>3</b>	<b>1</b>			
SECCW Post-em	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S., Q	1				GEP	
	UK	2020	S, Y, Q	1				GEP	
	PL	2020	S, Y, Q		1			GEP	
	<b>TOTAL</b>				<b>3</b>	<b>1</b>			
TRZAW Pre-em	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	ES	2020	S, Y, Q			1		GEP	
	FR	2020	S, Y, Q	1				GEP	
	HR	2020	S, Y, Q			1		GEP	
	PL	2020	S, Y, Q		1			GEP	
	<b>TOTAL</b>				<b>3</b>	<b>1</b>	<b>2</b>		
TRZAW Post-em	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	ES	2020	S, Y, Q			1		GEP	
	FR	2020	S, Y, Q	1		1		GEP	
	PL	2020	S, Y, Q		1			GEP	
	<b>TOTAL</b>				<b>3</b>	<b>1</b>	<b>2</b>		
TRZDW Pre-em	FR	2020	S, Y, Q	2		1		GEP	
	IT	2020	S, Y, Q			2		GEP	
	<b>TOTAL</b>			<b>2</b>		<b>3</b>			

TRZDW Post-em	FR	2020	S, Y, Q	2		1		GEP	
	HR	2020	S, Y, Q			1		GEP	
	IT	2020	S, Y, Q			1		GEP	
	<b>TOTAL</b>				<b>2</b>		<b>3</b>		
TRZSP Pre-em	BE	2020	S, Y, Q	1				GEP	
	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	<b>TOTAL</b>				<b>4</b>				
TRZSP Post-em	BE	2020	S, Y, Q	1				GEP	
	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	UK	2020	S, Y, Q	1				GEP	
	<b>TOTAL</b>				<b>4</b>				
TTLWI Pre-em	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	NL	2020	S, Y, Q	1				GEP	
	PL	2020	S, Y, Q		1			GEP	
	<b>TOTAL</b>				<b>3</b>	<b>1</b>			
TTLWI Post-em	CZ	2020	S, Y, Q	1				GEP	
	DE	2020	S, Y, Q	1				GEP	
	NL	2020	S, Y, Q	1				GEP	
	PL	2020	S, Y, Q		1			GEP	
	SE	2020	S, Y, Q	1				GEP	
	<b>TOTAL</b>				<b>4</b>	<b>1</b>			
SOLTU	CZ	2019-2020	S, Y, Q	4				GEP	
	DE	2019-2020	S, Y, Q	3				GEP	
	FR	2019	S, Y, Q	1				GEP	
	NL	2020	S, Y, Q	1				GEP	
	PL	2019-2020	S, Y, Q		7			GEP	
	HU	2020	S, Y, Q				3	GEP	
	<b>TOTAL</b>				<b>9</b>	<b>7</b>		<b>3</b>	
HELAN	CZ	2020	S, Y, Q	2				GEP	
	DE	2020	S, Y, Q	2				GEP	
	FR	2020	S, Y, Q	3		2		GEP	
	NL	2020	S, Y, Q	1				GEP	
	ES	2020	S, Y, Q			2		GEP	
	HR	2020	S, Y, Q			1		GEP	
	IT	2020	S, Y, Q			3		GEP	
	HU	2020	S, Y, Q				2	GEP	
	RO	2020	S, Y, Q				1	GEP	
	<b>TOTAL</b>				<b>8</b>		<b>8</b>	<b>3</b>	

\* According to the GAP table

\*\* S = selectivity trial, Y = trial with yield assessment, Q = trial with quality assessment, T = trial on the basis of the study of

impact on transformation process (TP: Physical transformation, TF: transformation involving microbial fermentation), P = trial with assessment of impact on propagation

\*\*\* Official: carried out by a national official organisation

(1)Maritime EPPO Zone

(2)North-East EPPO Zone

(3)Mediterranean EPPO Zone

(4)South-East EPPO Zone

The table below shows all reference products used in the trials.

**Table 3.4-2: Presentation of reference standards used in trials (selectivity trials, transformation trials...)**

Crop(s)	Reference standards	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s) (a.s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
Winter cereals	Défi	BE	7864P/B	prosulfocarb	EC	800 g/L	5 L/ha	5-10 L/ha	Ref. Pro.
		FR	8700462	prosulfocarb	EC	800 g/L	3-5 L/ha	5-10 L/ha	
	Defy	UK	16202	prosulfocarb	EC	800 g/L	6 L/ha	3-6 L/ha	
	Roxy	NL	13164	prosulfocarb	EC	800 g/L	5 L/ha	5-10 L/ha	
	Boxer	DK	1-211	prosulfocarb	EC	800 g/L	1.5-5 L/ha	5-10 L/ha	
		SE	3887	prosulfocarb	EC	800 g/L	1.5-5 L/ha	5-10 L/ha	
	Jura EC	CZ	33506	prosulfocarb diflufenican	EC	667 g/L 14 g/L	4 L/ha	4-8 L/ha	
		DE	008324-00	prosulfocarb diflufenican	EC	667 g/L 14 g/L	4 L/ha	4-8 L/ha	
		PL	R-108/2017	prosulfocarb diflufenican	EC	667 g/L 14 g/L	4 L/ha	4-8 L/ha	
	Herold	ES	25621	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.3-0.6 L/ha	Ref. Dif. Flu..
	Fosburi	FR	2080145	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6-1.2 L/ha	
	Fuga Delta	IT	016041	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6-1.2 L/ha	
	Battle Delta	HR	1162	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6-1.2 L/ha	
	Herold	UK	16195	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6-1.2 L/ha	
	Naceto	BE	10603P/B	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6-1.2 L/ha	
DE		008362-60	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6-1.2 L/ha		
UK		18063	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6-1.2 L/ha		
Diflanil 500 SC	CZ	5295-0	diflufenican	SC	500 g/L	0.375 L/ha	0.375-0.75 L/ha		
Potato	Boxer 800 EC	PL	R-88/2015	prosulfocarb	EC	800 g/L	5 L/ha	5-10 L/ha	Ref. Pro.
	Boxer	CZ	4566-0	prosulfocarb	EC	800 g/L	3-5 L/ha	5-10 L/ha	
		DE	033838-00	prosulfocarb	EC	800 g/L	3-5 L/ha	5-10 L/ha	
		FR	2090077	prosulfocarb	EC	800 g/L	3-5 L/ha	5-10 L/ha	
	Fidox 800 EC	NL	15029	prosulfocarb	EC	800 g/L	4 L/ha	4-8 L/ha	
		HU	04.2/2504	prosulfocarb	EC	800 g/L	4 L/ha	4-8 L/ha	

Crop(s)	Reference standards	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s) (a.s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
Sunflower	Fidox 800 EC	HU	04.2/2504-1/2017	prosulfocarb	EC	800 g/L	5 L/ha	5-10 L/ha	
	Challenge	RO	475PC	aclonifen	SC	600 g/L	4 L/ha	4 L/ha	Ref. AcI.
		ES	19131	aclonifen	SC	600 g/L	4 L/ha	4-8 L/ha	
		FR	8600243	aclonifen	SC	600 g/L	4 L/ha	4-8 L/ha	
		HR	1174	aclonifen	SC	600 g/L	4 L/ha	4-8 L/ha	
		IT	008184	aclonifen	SC	600 g/L	3 L/ha	3-6 L/ha	
	Boxer	DE	033838-00	prosulfocarb	EC	800 g/L	5 L/ha	5-10 L/ha	
		CZ	4566-0	prosulfocarb	EC	800 g/L	5 L/ha	5-10 L/ha	
		NL	10701	prosulfocarb	EC	800 g/L	4 L/ha	4-8 L/ha	

(1) only on use(s) applied for (with the test product)

(2) e.g. WP (wetable powder), EC (emulsifiable concentrate), etc.

(3) Dose / dose range authorized in the country

(4) Other relevant information (e.g. uses, number of applications, spray volume, method of application...)

### 3.4.1 Phytotoxicity to host crop (KCP 6.4.1)

The trials methodology and trial site information of the selectivity trials discussed in this dossier is presented per crop in tables below.

#### 3.4.1.1 Information on selectivity trials performed on potatoes

**Table 3.4-3: Details on trial methodology**

<b>Guidelines</b>	General guidelines	EPPO PP 1/135(4); 1/152(4); 1/181(4)
	Specific guidelines	EPPO PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD
	Plot size	20.1-36 m <sup>2</sup>
	Number of replications	4
<b>Crop</b>	Trials per crop	Potatoes (19) Maritime EPPO Zone: 9 CZ/DE: 7 North-East EPPO Zone: 7 South-East EPPO Zone: 3
	Varieties per crop	Adela Altus Antonia Bintje Boryna Dali Desiree Gala Goldmarie Irga Kuras Lady Claire

		Liliana Red Scarlet Red Scarlett Tajfun Zuzanna
	Sowing period	April 7 – May 24 Maritime EPPO Zone: April 7 – May 24 CZ/DE: April 7 – May 24 North-East EPPO Zone: April 10 – May 8 South-East EPPO Zone: April 12 – April 25
<b>Application</b>	Crop stage (BBCH)* at application	Pre-emergence (BBCH <10)
	Number of applications	1
	Spray volumes	200-333 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity, yield, yield quality
	Assessment timing	From application until harvest
	Field / Greenhouse...	Field trials

### 3.4.1.2 Information on selectivity trials performed on sunflowers

**Table 3.4-4: Details on trial methodology**

<b>Guidelines</b>	General guidelines	EPPO PP 1/135(4); 1/152(4); 1/181(4)
	Specific guidelines	EPPO PP 1/63(3)
<b>Experimental design</b>	Plot design	RCBD
	Plot size	21-42 m <sup>2</sup>
	Number of replications	4
<b>Crop</b>	Trials per crop	Sunflowers (19) Maritime EPPO Zone: 8 Mediterranean EPPO Zone: 8 South-East EPPO Zone: 3
	Varieties per crop	Apolon Autumn Beauty Columbella ES Savana Euromis CL Express Sun Inotop Klarika LG 50.635 LCP P63HH152 P63LE113 P64HE118 P64HH98 P64LE25 Peredovick RGT Axell Talento Tutti
	Sowing period	April 2 – May 9 Maritime EPPO Zone: April 7 – May 9 CZ/DE: April 7 – May 9 Mediterranean EPPO Zone: April 2 – May 7 South-East EPPO Zone: April 10 – May 2
<b>Application</b>	Crop stage (BBCH)* at application	Pre-emergence (BBCH <10)
	Number of applications	1
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity, yield, yield quality
	Assessment timing	From application until harvest
	Field / Greenhouse...	Field trials

### 3.4.1.3 Information on selectivity trials performed on winter cereals

**Table 3.4-5: Details on trial methodology**

<b>Guidelines</b>	General guidelines	EPPO PP 1/135(4); 1/152(4); 1/181(4)
	Specific guidelines	EPPO PP 1/93 (3)
<b>Experimental design</b>	Plot design	RCBD
	Plot size	12-36 m <sup>2</sup>
	Number of replications	4
<b>Crop</b>	Trials per crop	<b>Ref. Table 3.4-1: Presentation of trials</b> (selectivity trials, transformation trials...) HORVW pre-em: 5 / post-em: 5 SECCW pre-em: 4 / post-em: 4 TRZAW pre-em: 6 / post-em: 6 TRZDW: pre-em: 5 / post-em: 5 TTLWI: pre-em: 4 / post-em: 4 TRZSP: pre-em: 4 / post-em: 4
	Varieties per crop	HORVW pre-em: 5 / post-em: 5 SECCW pre-em: 4 / post-em: 4 TRZAW pre-em: 6 / post-em: 6 TRZDW: pre-em: 4 / post-em: 3 TTLWI: pre-em: 4 / post-em: 3 TRZSP: pre-em: 4 / post-em: 4
	Sowing period	<b>HORVW pre-em</b> September 30 – October 26 (All EPPO Zones) Maritime EPPO Zone: September 30 – October 10 CZ/DE: October 2 – October 10 North-East EPPO Zone: October 3 Mediterranean EPPO Zone: October 26 <b>HORVW post-em</b> September 20 – November 11 (All EPPO Zones) Maritime EPPO Zone: September 20 – October 13 CZ/DE: September 20 – October 13 North-East EPPO Zone: September 26 Mediterranean EPPO Zone: November 11 <b>SECCW pre-em</b> October 8 – November 18 (All EPPO Zones) Maritime EPPO Zone: October 9 – November 18 CZ/DE: October 9 – November 18 North-East EPPO Zone: October 8 <b>SECCW post-em</b> October 2 – October 24 (All EPPO Zones) Maritime EPPO Zone: October 2 – October 24 CZ/DE: October 2 – October 9 North-East EPPO Zone: October 8 <b>TRZAW pre-em</b> October 8 – November 30 (All EPPO Zones) Maritime EPPO Zone: October 10 – November 13 CZ/DE: October 10 – October 18 North-East EPPO Zone: October 8 Mediterranean EPPO Zone: October 24 – November 30 <b>TRZAW post-em</b> October 4 – November 30 (All EPPO Zones) Maritime EPPO Zone: October 4 – November 6

		CZ/DE: October 4 – October 11 North-East EPPO Zone: October 10 Mediterranean EPPO Zone: November 2 – November 30 <b>TRZDW pre-em</b> October 22 – November (All EPPO Zones) Maritime EPPO Zone: November 5 – November 7 Mediterranean EPPO Zone: October 22 – November 12 <b>TRZDW post-em</b> October 20 – November 7 (All EPPO Zones) Maritime EPPO Zone: October 22 – November 7 Mediterranean EPPO Zone: October 20 – October 28 <b>TTLWI pre-em</b> October 8 – October 15 (All EPPO Zones) Maritime EPPO Zone: October 8 – October 15 CZ/DE: October 8 – October 11 North-East EPPO Zone: October 2 <b>TTLWI post-em</b> September 21 – October 7 (All EPPO Zones) Maritime EPPO Zone: September 21 – October 18 CZ/DE: September 21 – October 18 North-East EPPO Zone: October 7 <b>TRZSP pre-em</b> Maritime EPPO Zone: October 25 – November 18 CZ/DE: November 6 – November 18 <b>TRZSP post-em</b> Maritime EPPO Zone: October 2 – November 27 CZ/DE: October 2 – November 10
<b>Application</b>	Crop stage (BBCH)* at application	Pre-emergence: BBCH <10 Post-emergence: BBCH 11-13
	Number of applications	1
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity, yield, yield quality
	Assessment timing	From application until harvest
	Field / Greenhouse...	Field trials

### 3.4.1.4 Summary of phytotoxicity assessments in selectivity trials

The tables below summarize the results of the phytotoxicity assessments in the efficacy and crop safety trials presented in this dossier.

**Table 3.4-6: Phytotoxicity of product in selectivity trials on potatoes**

Number of trials with...		Selectivity trials (19 trials) 9 Maritime trials 7 North-East trials 3 South-East trials				Efficacy trials (30 trials)	
		GLOB1319H		Reference product		Test product	Standard 1
		4 L/ha	8 L/ha	N	2N	N	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	15	11	18	17	22	30
	>5% to 10%	1 <sup>89</sup>	2 <sup>89, 83</sup>			4 <sup>67, 69, 74, 78</sup>	
	>10% to 15%		2 <sup>83, 84</sup>	1 <sup>89</sup>	2 <sup>83, 89</sup>	1 <sup>94</sup>	
	>15 %	3 <sup>85, 92, 100</sup>	4 <sup>85, 91, 92, 100</sup>			3 <sup>91, 93, 97</sup>	
Level of symptoms at the last assessments	0% to 5%	18	16	19	18	30	30
	>5% to 10%	1 <sup>100</sup>	3 <sup>83, 93, 100</sup>		1 <sup>83</sup>		
	>10% to 15%						
	>15 %						

\*Trial reference number (KCP 6.4/6.2-...) indicated in superscript

**Table -3.4-7: Relationship between phytotoxicity and yield in selectivity trials on potatoes**

Test report	Country (EPPO Zone <sup>1</sup> )	Variety	Maximum phyto. at N rate (%)		Maximum phyto. at 2N rate (%)		Yield in control Absolute figures (t/ha)	Yield at 1N as % of untreated		Yield at 2N rate as % of untreated	
			GLOB 1912H	Ref.	GLOB 1912H	Ref.		GLOB 1912H	Ref.	GLOB 1912H	Ref.
83	PL (N-E)	Liliana	4	1	13.5	13.5	35.62	107.07	81.55	105.16	80.48
84	PL (N-E)	Gala	4.5	1.25	14.25	1.25	36.07	102.77	100.63	101.6	98.95
85	PL (N-E)	Irga	22.5	0	60	0	27.73	97.29	96.77	93.11	98.9
89	CZ (N-E)	Gala	8.75	11.25	10	12.5	18.2	100.87	98.13	98.18	97.22
91	FR (MAR)	Bintje	5	0	30	1.25	29.07	113.08	122.94	96.76	108.73
92	PL (N-E)	Boryna	20	0	22.5	1.25	39.19	93.58	94.73	98	98.38
93	PL (N-E)	Lady Claire	5	0	7.5	0	33.76	102.37	96.04	99.45	106.82
100	HU (S-E)	Red Scarlet	75	0	78.75	0	39.27	77.76	97.1	72.43	80.91

### Conclusion

From the results shown above it can be concluded that GLOB1912H can be considered safe for use on potatoes, even at double the maximum requested dose rate of 3.2 L/ha.

**Table 3.4-8: Phytotoxicity of product in selectivity trials on sunflowers**

Number of trials with...		Selectivity trials (19 trials) 8 Maritime trials 8 Mediterranean trials 3 South-East trials				Efficacy trials (23 trials)	
		GLOB1319H		Reference product		Test product	Ref.
		3.6 L/ha	7.5 L/ha	N	2N	N	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	13	1	15	17	17	20
	>5% to 10%	2 <sup>110, 120</sup>	4 <sup>103, 110, 111, 112</sup>	2 <sup>107, 108</sup>	2 <sup>110, 118</sup>	6 <sup>99, 103, 106, 112, 115, 116</sup>	3 <sup>102, 103, 116</sup>
	>10% to 15%						
	>15 %	4 <sup>105, 107, 114, 117</sup>	8 <sup>104, 105, 107, 108, 113, 114, 117, 120</sup>	1 <sup>105</sup>	1 <sup>105</sup>		
Level of symptoms at the last assessments	0% to 5%	16	16	18	17	23	23
	>5% to 10%	2 <sup>107, 120</sup>	1 <sup>117</sup>	1 <sup>107</sup>	2 <sup>105, 118</sup>		
	>10% to 15%		1 <sup>105</sup>				
	>15 %	1 <sup>114</sup>	1 <sup>107</sup>				

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-9: Relationship between phytotoxicity and yield in selectivity trials on sunflowers**

Test report	Country (EPPO Zone <sup>1</sup> )	Variety	Maximum phyto. at N rate (%)		Maximum phyto. at 2N rate (%)		Yield in control Absolute figures (t/ha)	Yield at 1N as % of untreated		Yield at 2N rate as % of untreated	
			GLOB 1912H	Ref.	GLOB 1912H	Ref.		GLOB 1912H	Ref.	GLOB 1912H	Ref.
103	HU (S-E)	P63LE113	1.25	0	7.5	0	2.79	93.44	99.93	98.71	96.62
104	RO (S-E)	P64LE25	3.75	0	17.5	0	1.73	124.23	118.36	122.87	106.91
105	ES (MED)	Klarika	60	68.75	88.75	78.75	1.42	44.69	42.42	51.92	38.97
107	FR (MED)	P64HH98	18.28	6.25	46.25	3.75	3.46	89.96	109.41	99.03	104.61
108	FR (MED)	Tutti	5	8.75	18	2.5	2.06	109.58	99.33	88.08	103.78
110	IT (MED)	Talento	6.25	0.5	9.25	9.25	4.14	95.28	99.63	77.46	94.32
111	IT (MED)	P64HE118	4.5	0.5	6.5	1.5	2.9	86.76	93.12	80.87	82.18
112	IT (MED)	Inotop	3.75	0	8.5	0	4.72	101.64	95.63	82.42	93.32
113	CZ (MAR)	Euromis CL	5	5	22.5	5	2.27	120.26	112.12	139.46	109.6
114	CZ (MAR)	P64LE25	52.5	0.75	67.5	3	4.57	98.93	100.91	83.24	91.37
117	FR (MAR)	RGT Axell	27.5	1.75	65	4.75	2.6	119.76	112.59	111.38	115.96
120	NL (MAR)	Autumn Beauty	0	0	27.5	25	1.72	103.07	110.64	96.04	91.74

### Conclusion

From the results shown above it can be concluded that GLOB1912H can be considered safe for use on sunflowers. At double the maximum requested dose rate of 3.2 L/ha, however, there is an increased risk of yield loss. The applicant would therefore like to add a warning on the label to avoid spray overlap.

**Table 3.4-10: Phytotoxicity of product in pre-em selectivity trials on winter barley**

Number of trials with...		Selectivity trials (5 trials) 3 Maritime trials (2 CZ/DE) 1 North-East 1 Mediterranean				Efficacy trials (9 trials)		
		GLOB1319H		Reference product		Test product		Ref.
		3.2 L/ha	6.4 L/ha	N	2N	3.2 L/ha	3.6 L/ha	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	3	2	3	3	9	1	8
	>5% to 10%							1 <sup>18</sup>
	>10% to 15%	1 <sup>07</sup>						
	>15 %	1 <sup>28</sup>	3 <sup>01, 07, 28</sup>	2 <sup>07, 28</sup>	2 <sup>07, 28</sup>			
Level of symptoms at the last assessments	0% to 5%	4	2	3	3	9	1	9
	>5% to 10%	1 <sup>07</sup>	1 <sup>28</sup>					
	>10% to 15%							
	>15 %		2 <sup>01, 07</sup>	2 <sup>07</sup>	2 <sup>07</sup>			

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-11: Phytotoxicity of product in post-em selectivity trials on winter barley**

Number of trials with...		Selectivity trials (5 trials) 3 Maritime trials (2 CZ/DE) 1 North-East trial 1 Mediterranean trial				Efficacy trials (12 trials)	
		GLOB1319H		Reference product		Test product	Ref.
		3.2 L/ha	6.4 L/ha	N	2N	3.2 L/ha	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	2	-	1	1	5	7
	>5% to 10%	2 <sup>65, 73</sup>				1 <sup>64</sup>	1 <sup>61</sup>
	>10% to 15%			2 <sup>65, 73</sup>		2 <sup>38, 59</sup>	1 <sup>38</sup>
	>15 %	1 <sup>48</sup>	5 <sup>38, 44, 48, 65, 73</sup>	2 <sup>44, 48</sup>	4 <sup>44, 48, 65, 73</sup>	4 <sup>29, 30, 61, 139</sup>	3 <sup>29, 30, 139</sup>
Level of symptoms at the last assessments	0% to 5%	5	5	5	4	12	12
	>5% to 10%				1 <sup>73</sup>		
	>10% to 15%						
	>15 %						

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-12: Phytotoxicity of product in pre-em selectivity trials on winter rye**

Number of trials with...		Selectivity trials (4 trials) 3 Maritime trials (2 CZ/DE) 1 North-East trial			
		GLOB1319H		Reference product	
		3.2 L/ha	6.4 L/ha	N	2N
Maximum of	0% to 5%	2	-	4	2

Number of trials with...		Selectivity trials (4 trials) 3 Maritime trials (2 CZ/DE) 1 North-East trial			
		GLOB1319H		Reference product	
		3.2 L/ha	6.4 L/ha	N	2N
phytotoxicity recorded during the trials	>5% to 10%		2 <sup>14,31</sup>		2 <sup>14,31</sup>
	>10% to 15%				
	>15 %	1 <sup>06</sup>	1 <sup>06</sup>		
Level of symptoms at the last assessments	0% to 5%	4	4	4	4
	>5% to 10%				
	>10% to 15%				
	>15 %				

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-13: Phytotoxicity of product in post-em selectivity trials on winter rye**

Number of trials with...		Selectivity trials (4 trials) 3 Maritime trials (2 CZ/DE) 1 North-East			
		GLOB1319H		Reference product	
		3.2 L/ha	6.4 L/ha	N	2N
Maximum of phytotoxicity recorded during the trials	0% to 5%	2	1	2	1
	>5% to 10%		1 <sup>47,68</sup>	1 <sup>68</sup>	1 <sup>43,47</sup>
	>10% to 15%	1 <sup>43</sup>			
	>15 %	1 <sup>51</sup>	2 <sup>43,51</sup>	1 <sup>51</sup>	2 <sup>51,68</sup>
Level of symptoms at the last assessments	0% to 5%	3	3	3	3
	>5% to 10%				
	>10% to 15%				
	>15 %	1 <sup>51</sup>	1 <sup>51</sup>	1 <sup>51</sup>	1 <sup>51</sup>

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-14: Phytotoxicity of product in pre-em selectivity trials on winter wheat**

Number of trials with...		Selectivity trials (6 trials) 3 Maritime trials (2 CZ/DE) 1 North-East trial 2 Mediterranean trials				Efficacy trials (33 trials)		
		GLOB1319H		Reference product		Test product		Ref.
		3.2 L/ha	6.4 L/ha	N	2N	3.2 L/ha	3.6 L/ha	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	5	4	5	4	27	1	29
	>5% to 10%		1 <sup>12</sup>		1 <sup>12</sup>	2 <sup>22, 129</sup>		2 <sup>22, 129</sup>
	>10% to 15%					1 <sup>55</sup>		
	>15 %	1 <sup>02</sup>	1 <sup>02</sup>	1 <sup>02</sup>	1 <sup>02</sup>		2 <sup>2, 4</sup>	2 <sup>2, 4, 55</sup>
Level of symptoms at the last assessments	0% to 5%	5	5	5	5	29	2	31
	>5% to 10%					1 <sup>55</sup>		1 <sup>55</sup>
	>10% to 15%			1 <sup>02</sup>				
	>15 %	1 <sup>02</sup>	1 <sup>02</sup>		1 <sup>02</sup>		1 <sup>2</sup>	1 <sup>2</sup>

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-15: Phytotoxicity of product in post-em selectivity trials on winter wheat**

Number of trials with...		Selectivity trials (6 trials) 3 Maritime trials (2 CZ/DE) 1 North-East trial 2 Mediterranean trials				Efficacy trials (28 trials)		
		GLOB1319H		Reference product		Test product		Ref.
		3.2 L/ha	6.4 L/ha	N	2N	3.2 L/ha	3.6 L/ha	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	3	4	4	3	14	4	26
	>5% to 10%			1 <sup>49</sup>		5 <sup>31, 34, 42, 56, 60</sup>		2 <sup>31, 42</sup>
	>10% to 15%	2 <sup>49, 70</sup>	1 <sup>49</sup>			4 <sup>32, 33, 44, 62</sup>		
	>15 %	1 <sup>39</sup>	1 <sup>39</sup>	1 <sup>39</sup>	3 <sup>39, 49, 70</sup>	1 <sup>66</sup>		
Level of symptoms at the last assessments	0% to 5%	5	5	5	3	23	4	27
	>5% to 10%				1 <sup>49</sup>	1 <sup>31</sup>		1 <sup>31</sup>
	>10% to 15%	1 <sup>39</sup>						
	>15 %		1 <sup>39</sup>	1 <sup>39</sup>	2 <sup>39, 70</sup>			

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-16: Phytotoxicity of product in pre-em selectivity trials on durum wheat**

Number of trials with...		Selectivity trials (5 trials) 2 Maritime trials 3 Mediterranean trials			
		GLOB1319H		Reference product	
		3.2 L/ha	6.4 L/ha	N	2N
Maximum of phytotoxicity recorded during the trials	0% to 5%	3	2	3	3
	>5% to 10%	2 <sup>04, 33</sup>	2 <sup>04, 33</sup>		
	>10% to 15%		1 <sup>36</sup>		
	>15 %			2 <sup>33, 36</sup>	2 <sup>33, 36</sup>
Level of symptoms at the last assessments	0% to 5%	5	4	4	3
	>5% to 10%				
	>10% to 15%		1 <sup>36</sup>	1 <sup>36</sup>	
	>15 %				2 <sup>33, 36</sup>

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-17: Phytotoxicity of product in post-em selectivity trials on durum wheat**

Number of trials with...		Selectivity trials (5 trials) 2 Maritime trials 3 Mediterranean trials			
		GLOB1319H		Reference product	
		3.2 L/ha	6.4 L/ha	N	2N
Maximum of phytotoxicity recorded during the trials	0% to 5%	2	-	3	2
	>5% to 10%	1 <sup>41</sup>	1 <sup>74</sup>	2 <sup>40, 71</sup>	1 <sup>41</sup>
	>10% to 15%	2 <sup>40, 71</sup>	1 <sup>41</sup>		1 <sup>40</sup>
	>15 %		2 <sup>40, 71</sup>		1 <sup>71</sup>
Level of symptoms at the last assessments	0% to 5%	5	3	4	4
	>5% to 10%				
	>10% to 15%		1 <sup>40</sup>	1 <sup>71</sup>	
	>15 %		1 <sup>71</sup>		1 <sup>71</sup>

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-18: Phytotoxicity of product in pre-em selectivity trials on spelt**

Number of trials with...		Selectivity trials (4 trials) 4 Maritime trials (3 CZ/DE)			
		GLOB1319H		Reference product	
		3.2 L/ha	6.4 L/ha	N	2N
Maximum of phytotoxicity recorded during the trials	0% to 5%	3	3	3	2
	>5% to 10%	1 <sup>76</sup>	1 <sup>76</sup>	1 <sup>76</sup>	2 <sup>76,78</sup>
	>10% to 15%				
	>15 %				
Level of symptoms at the last assessments	0% to 5%	4	4	4	4
	>5% to 10%				
	>10% to 15%				
	>15 %				

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-19: Phytotoxicity of product in post-em selectivity trials on spelt**

Number of trials with...		Selectivity trials (3 trials) 4 Maritime trials (2 CZ/DE)			
		GLOB1319H		Reference product	
		3.2 L/ha	6.4 L/ha	N	2N
Maximum of phytotoxicity recorded during the trials	0% to 5%	3	2	3	3
	>5% to 10%	1 <sup>80</sup>	2 <sup>80,81</sup>	1 <sup>80</sup>	1 <sup>80</sup>
	>10% to 15%				
	>15 %				
Level of symptoms at the last assessments	0% to 5%	4	4	4	4
	>5% to 10%				
	>10% to 15%				
	>15 %				

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-20: Phytotoxicity of product in pre-em selectivity trials on winter triticale**

Number of trials with...		Selectivity trials (4 trials) 3 Maritime trials (2 CZ/DE) 1 North-East trial			
		GLOB1319H		Reference product	
		3.2 L/ha	6.4 L/ha	N	2N
Maximum of phytotoxicity recorded during the trials	0% to 5%	3	2	3	3
	>5% to 10%				
	>10% to 15%	1 <sup>13</sup>		1 <sup>13</sup>	
	>15 %		2 <sup>05, 13</sup>		1 <sup>13</sup>
Level of symptoms at the last assessments	0% to 5%	4	2	4	3
	>5% to 10%		1 <sup>05</sup>		
	>10% to 15%		1 <sup>13</sup>		
	>15 %				1 <sup>13</sup>

\*Trial reference number (KCP 6.4-...) indicated in superscript

**Table 3.4-21: Phytotoxicity of product in post-em selectivity trials on winter triticale**

Number of trials with...		Selectivity trials (4 trials) 3 Maritime trials (2 CZ/DE) 1 North-East trial			
		GLOB1319H		Reference product	
		3.2 L/ha	6.4 L/ha	N	2N
Maximum of phytotoxicity recorded during the trials	0% to 5%	2	2	3	3
	>5% to 10%				
	>10% to 15%	2 <sup>42, 50</sup>	1 <sup>42</sup>		
	>15 %		1 <sup>50</sup>	1 <sup>50</sup>	1 <sup>50</sup>
Level of symptoms at the last assessments	0% to 5%	3	3	3	3
	>5% to 10%	1 <sup>50</sup>		1 <sup>50</sup>	1 <sup>50</sup>
	>10% to 15%		1 <sup>50</sup>		
	>15 %				

\*Trial reference number (KCP 6.4-...) indicated in superscript

The table below investigates the relationship between phytotoxicity and yield for the selectivity trials that observed phytotoxic effects in excess of 5% for treatments with GLOB1912H and/or the reference product(s). It should be noted that for some of the trials presented in the table the final yield for the maximum requested dose rate for GLOB1912H (N=3.2 L/ha) or the registered dose rate of the reference product (N) was lower compared to the double dose rates (2N). Because it can be expected that a lower dose rate (N) will have less of a negative effect than a higher dose rate (2N) it can be assumed that the yield of the N dose rate will be at least as high as the yield of the 2N dose rate. These instances are marked in grey in the table below.

**Table 3.4-22: Relationship between phytotoxicity and yield in selectivity trials on winter cereals**

Test report	Country (EPPO Zone <sup>1</sup> )	Appl. timing	Crop	Variety	Maximum phyto. at N rate (%)		Maximum phyto. at 2N rate (%)		Yield in the untreated control Absolute figures (t/ha)	Yield at 1N as % of untreated		Yield at 2N rate as % of untreated	
					GLOB 1912H	Ref.	GLOB 1912H	Ref.		GLOB 1912H	Ref.	GLOB 1912H	Ref.
01	BE (MAR)	Pre-em	HORVW	Sensation	4.25	0.5	67.5	0.5	7.59	101.83	101.28	93.48	96.83
07	CZ (MAR)	Pre-em	HORVW	Yatzy	13.75	17.5	45	53.75	8.91	99.17	96.92	90.31	86.68
28	PL (N-E)	Pre-em	HORVW	Astaire	35	40	65	65	4.38	97.59	105.3	90.89	95.99
38	BE (MAR)	Post-em	HORVW	LZ zebra	5	2	16.25	6.25	9.51	100.89	99.08	90.03	94.81
44	CZ (MAR)	Post-em	HORVW	Breunskylie	0	40	50	55	4.92	98.15	99.34	97.78	98.24
48	DE (MAR)	Post-em	HORVW	Pionier	20	17.5	20	21.25	9.51	104.29	104.47	101.23	103.08
65	PL (N-E)	Post-em	HORVW	Sandra	11.25	13.75	21.25	17.5	6.36	99.89	100.91	100.83	102.03
73	IT (MED)	Post-em	HORVW	Bente	12.5	13.75	20	25	7.22	97.86	98.68	99.6	94.97
06	UK (MAR)	Pre-em	SECCW	Mephisto/Dukato	16.25	0	25	0	9.08	102.44	98.39	97.78	99.56
14	DE (MAR)	Pre-em	SECCW	KWS Tayo	No yield data gathered, complete trial lodged (incl untreated)								
31	PL (N-E)	Pre-em	SECCW	KWS Serafino	0	0	8.5	9.25	6.95	101.63	98.75	91.22	91.33
43	UK (MAR)	Post-em	SECCW	Mephisto/Dukato	11.25	2.5	17.5	7.5	10.25	98.16	100.81	95.74	97.79
51	DE (MAR)	Post-em	SECCW	KWS Tayo	47.5	47.5	52.5	72.5	7.45	79.46	99.4	94.97	81.48
68	PL (N-E)	Post-em	SECCW	Tur	0	7.5	11.25	40	5.77	99.12	97.81	98.85	96.94
02	FR (MAR)	Pre-em	TRZAW	Providence	18.75	18.75	25	22.5	8.07	97.69	99.53	94.54	102.8
12	DE (MAR)	Pre-em	TRZAW	Pionier	3.25	3.5	10	11	7.33	99.11	97.59	99.27	99.27
39	FR (MAR)	Post-em	TRZAW	RGT Venezia	21.25	25	37.5	47.5	6.3	99.06	98.5	96.14	92.4
49	DE (MAR)	Post-em	TRZAW	Faustus	12.5	7.5	15	25	9.06	101.49	101.2	101.64	98.64
69	ES (MED)	Post-em	TRZAW	Akim	0	0.5	3.5	6.25	2.04	100.53	97.9	98.6	97.54
70	FR (MED)	Post-em	TRZAW	Tiepolo	11.25	11.25	25	35	5.95	91.57	96.25	93.29	86.16
04	FR (MAR)	Pre-em	TRZDW	RGT Voilur	10	2.5	10	1.25	8.04	96.78	91.83	98.43	92.23
33	FR (MAR)	Pre-em	TRZDW	Anvergur	6.25	21.25	9.25	50	2.47	89.38	113.47	91.56	115.57
36	IT (MED)	Pre-em	TRZDW	Brancaleone	2.5	21.25	13.75	55	7.26	101.76	68.35	67.87	44.34
40	FR (MAR)	Post-em	TRZDW	Envergur	13.25	8.75	37.75	15	7.59	96.88	102.24	98.39	103.48
41	FR (MAR)	Post-em	TRZDW	Anvergur	10	1	12.5	10	4.25	98.02	93.54	94.37	101.81
71	FR (MED)	Post-em	TRZDW	Anvergur	12	10	26.25	35	3.03	109.11	103.47	103.03	95.82
74	IT (MED)	Post-em	TRZDW	Levante	4.75	0.5	7.5	3.5	2.35	92.93	96.88	95.14	94.95
76	CZ (MAR)	Pre-em	TRZSP	Tauro C1 Bio	6.5	6.5	8	8	8.08	94.85	97.84	99.87	98.59
78	DE (MAR)	Pre-em	TRZSP	Albertino	No yield data gathered, complete trial lodged (incl untreated)								
80	CZ (MAR)	Post-em	TRZSP	Tauro C1 Bio	6	4.5	7	6	8.82	96.47	99.83	100.69	96.14
81	DE (MAR)	Post-em	TRZSP	Albertino	2.25	0	7.75	0	9.61	98.01	94.77	98.98	95.77
05	NL (MAR)	Pre-em	TTLWI	Cedrico	0	5	20.5	5	10.53	99.47	99.14	100.87	98.24
13	DE (MAR)	Pre-em	TTLWI	Lombardo	10.75	12.75	40.25	44.5	4.8	98.32	103.11	103.06	101.39
42	NL (MAR)	Post-em	TTLWI	Cedrico	11.25	0	15	0	10.34	95.63	102.38	100.47	101.85
50	DE (MAR)	Post-em	TTLWI	Lombardo	11.25	22.5	16.25	50	7.93	96.6	97.71	96.59	100.11

## Conclusion

From the results shown above it can be concluded that GLOB1912H can be considered safe for pre- and post-emergence use on winter cereals. At double the maximum requested dose rate of 3.2 L/ha, however, there is an increased risk of yield loss. The applicant would therefore like to add a warning on the label to avoid spray overlap.

## Phytotoxicity

All of the 95 specific selectivity trials (weed-free) discussed have been carried out according to EPPO Standards PP1/135, PP1/152, PP1/181 and PP1/093, following GEP. In all the selectivity trials GLOB 1912H was applied once according to the GAP table at the rate of 3,2 L/ha (N) and 6,4 L/ha (2N), respectively representing the maximum target rate and the double target rate of application. Commercial standards were as well applied at N and 2N as a comparison. Details of the reference standards used in trials and application rates are presented in Table 3.4 2. The number of trials per application, crop and EPPO Zone are shown in the table below.

Crop(s)	MARITIME Zone	NORTH-EAST Zone	Mediterranean Zone	South-East Zone
HORVW Pre-emergence	3	1	1	
HORVW Post-emergence	3	1	1	
SECCW Pre-emergence	3	1		
SECCW Post-emergence	3	1		
TRZAW Pre-emergence	3	1	2	
TRZAW Post-emergence	3	1	2	
TRZDW Pre-emergence	2		3	
TRZDW Post-emergence	2		3	
TRZSP Pre-emergence	4			
TRZSP Post-emergence	4			
TTLWI Pre-emergence	3	1		
TTLWI Post-emergence	4	1		
SOLTU Pre-emergence	9	7		3
HELAN Pre-emergence	8		8	3
<b>TOTAL</b>	<b>54</b>	<b>15</b>	<b>20</b>	<b>6</b>

## MARITIME EPPO ZONE

Phytotoxicity in cereals was assessed in all efficacy trials. In addition, it was assessed in 36 specific crop safety trials conducted in 2020 in the Czech Republic, Germany, northern part of France, the Netherlands, Belgium and the United Kingdom. The results of the selectivity trials where phytotoxicity was observed were summarised by the applicant in Table 3.4 15-26 These tables includes the maximum levels of phytotoxicity (%). Phytotoxicity symptoms to cereals occurred in the majority of trials using GLOB 1912H at the highest proposed dose (3,2 L/ha) and at 2 N soon after application and at the last assessments. The data also show that phytotoxic symptoms were observed in a similar number of trials following application with the reference products. Additionally, the maximum levels of phytotoxicity observed were comparable between the test and reference products. The following table shows the average yield for all trials calculated in which GLOB 1912H caused phytotoxicity symptoms.

Tab. The average yield for all trials that GLOB 1912H caused phytotoxicity symptoms in winter cereals.

Test report	Country	Appl. timing	Crop	Variety	Maximum phyto. at N rate (%)		Maximum phyto. at 2N rate (%)		Yield in the untreated control Absolute figures (t/ha)	Yield at 1N as % of untreated		Yield at 2N rate as % of untreated	
					GLOB 1912H	Ref.	GLOB 1912H	Ref.		GLOB 1912H	Ref.	GLOB 1912H	Ref.
01	BE	Pre-em	HORVW	Sensation	4,25	0,5	67,5	0,5	7,59	101,83	101,28	93,48	96,83
07	CZ	Pre-em	HORVW	Yatzy	13,75	17,5	45	53,75	8,91	99,17	96,92	90,31	86,68
38	BE	Post-em	HORVW	LZ zebra	5	2	16,25	6,25	9,51	100,89	99,08	90,03	94,81
44	CZ	Post-em	HORVW	Breunskylic	0	40	50	55	4,92	98,15	99,34	97,78	98,24
48	DE	Post-em	HORVW	Pionier	20	17,5	20	21,25	9,51	104,29	104,47	101,23	103,08
									Mean	100,9	100,2	94,6	95,9
06	UK	Pre-em	SECCW	Mephisto/Dukato	16,25	0	25	0	9,08	102,44	98,39	97,78	99,56
43	UK	Post-em	SECCW	Mephisto/Dukato	11,25	2,5	17,5	7,5	10,25	98,16	100,81	95,74	97,79
51	DE	Post-em	SECCW	KWS Tayo	47,5	47,5	52,5	72,5	7,45	79,46	99,4	94,97	81,48
									Mean	93,3	99,5	96,1	92,9
02	FR	Pre-em	TRZAW	Providence	18,75	18,75	25	22,5	8,07	97,69	99,53	94,54	102,8
12	DE	Pre-em	TRZAW	Pionier	3,25	3,5	10	11	7,33	99,11	97,59	99,27	99,27
39	FR	Post-em	TRZAW	RGT Venezia	21,25	25	37,5	47,5	6,3	99,06	98,5	96,14	92,4
49	DE	Post-em	TRZAW	Faustus	12,5	7,5	15	25	9,06	101,49	101,2	101,64	98,64
									Mean	99,3	99,2	97,9	98,2
04	FR	Pre-em	TRZDW	RGT Voilur	10	2,5	10	1,25	8,04	96,78	91,83	98,43	92,23
33	FR	Pre-em	TRZDW	Anvergur	6,25	21,25	9,25	50	2,47	89,38	113,47	91,56	115,57
40	FR	Post-em	TRZDW	Envergur	13,25	8,75	37,75	15	7,59	96,88	102,24	98,39	103,48
41	FR	Post-em	TRZDW	Anvergur	10	1	12,5	10	4,25	98,02	93,54	94,37	101,81
									Mean	95,2	100,2	95,7	103,2
76	CZ	Pre-em	TRZSP	Tauro C1 Bio	6,5	6,5	8	8	8,08	94,85	97,84	99,87	98,59
80	CZ	Post-em	TRZSP	Tauro C1 Bio	6	4,5	7	6	8,82	96,47	99,83	100,69	96,14
81	DE	Post-em	TRZSP	Albertino	2,25	0	7,75	0	9,61	98,01	94,77	98,98	95,77
									Mean	96,4	97,5	99,8	96,8
05	NL	Pre-em	TTLWI	Cedrico	0	5	20,5	5	10,53	99,47	99,14	100,87	98,24
13	DE	Pre-em	TTLWI	Lombardo	10,75	12,75	40,25	44,5	4,8	98,32	103,11	103,06	101,39
42	NL	Post-em	TTLWI	Cedrico	11,25	0	15	0	10,34	95,63	102,38	100,47	101,85
50	DE	Post-em	TTLWI	Lombardo	11,25	22,5	16,25	50	7,93	96,6	97,71	96,59	100,11
									Mean	97,5	100,5	100,2	100,3

For some of the trials presented in the table the final yield for the maximum requested dose rate for GLOB1912H (N=3.2 L/ha) or the registered dose rate of the reference product (N) was lower compared to the double dose rates (2N). The single test reports do not provide adequate explanations for these cases, however, as applicant states it can be expected that a lower dose rate (N) will have less of a negative effect than a higher dose rate (2N) it can be assumed that the yield of the N dose rate will be at least as high as the yield of the 2N dose rate. Notwithstanding this point, the values presented indicate that phytotoxicity symptoms caused by the test product may slightly affect the yield of winter rye, winter wheat, winter triticale, winter spelt and winter durum wheat..

**General conclusion:** Due to phytotoxicity effects in most cereal crops, extrapolation to other cereal crops is not possible. A label restriction regarding phytotoxicity should be addressed on the label.

The number of selectivity trials presented is slightly lower than required but their results are consistent and conclusions can be drawn. It should also be noted that both active substances are registered for use

in winter cereals at higher application dose rates compared to the target application dose rate of GLOB1912H, thus the data provided by the applicant may be considered sufficient.

### SUNFLOWERS

The results of the selectivity trials where phytotoxicity was observed were summarised by the applicant in Table 3.4.13. This table includes the maximum levels of phytotoxicity (%).

Phytotoxicity symptoms to sunflowers occurred in four trials using GLOB 1912H at the highest proposed dose (3,2 L/ha) and at 2 N soon after application and at the last assessments. The data also show that phytotoxic symptoms were observed in a similar number of trials following application with the reference products. Additionally, the maximum levels of phytotoxicity observed were comparable between the test and reference products. The following table shows the average yield for all trials calculated in which GLOB 1912H caused phytotoxicity symptoms.

Tab. The average yield for all trials that GLOB 1912H caused phytotoxicity symptoms in sunflower.

Test report	Country (EPPO Zone <sup>1</sup> )	Variety	Maximum phyto. at N rate (%)		Maximum phyto. at 2N rate (%)		Yield in control Absolute figures (t/ha)	Yield at 1N as % of untreated		Yield at 2N rate as % of untreated	
			GLOB 1912H	Ref.	GLOB 1912H	Ref.		GLOB 1912H	Ref.	GLOB 1912H	Ref.
113	CZ	Euromis CL	5	5	22,5	5	2,27	120,26	112,12	139,46	109,6
114	CZ	P64LE25	52,5	0,75	67,5	3	4,57	98,93	100,91	83,24	91,37
117	FR	RGT Axell	27,5	1,75	65	4,75	2,6	119,76	112,59	111,38	115,96
120	NL	Autumn Beauty	0	0	27,5	25	1,72	103,07	110,64	96,04	91,74
								<b>110,5</b>	<b>109,0</b>	<b>107,5</b>	<b>102,1</b>

Phytotoxicity symptoms in sunflower caused by a single application of GLOB1912H applied pre-emergence at the proposed use rate of 3,2 L/ha, were transient. Overall the values presented indicate that phytotoxicity symptoms have no negative effects on yield. Given the possibility of a lower sunflower yield with a double dose rate of 6,4 l / ha of GLOB1912H compared to the proposed dose rate of 3,2 l/ha, label warnings regarding phytotoxicity should be included on the label.

### POTATOES

Phytotoxicity was evaluated in 15 efficacy trials and 9 weed-free selectivity trials. Crop phytotoxicity symptoms were seen in 1 selectivity trial. The yield for a trial that caused phytotoxic symptoms was calculated and at N was 113,8% relative to untreated, and at 2N it was 108,73%. It is considered that these values indicate that the phytotoxicity did not affect the yield at the recommended dose rate of 3,2 l/ha.

### NORTH-EAST EPPO ZONE

### WINTER CEREALS

The number of trials per application, crop and EPPO Zone are shown in the table below.

Crop(s)	MARITIME Zone	NORTH-EAST Zone
HORVW Pre-emergence	2	1
HORVW Post-emergence	2	1
SECCW Pre-emergence	2	1

SECCW Post-emergence	2	1
TRZAW Pre-emergence	2	1
TRZAW Post-emergence	2	1
TRZSPPre-emergence	3	
TRZSP Post-emergence	2	
TTLWI Pre-emergence	2	1
TTLWI Post-emergence	2	1
<b>TOTAL</b>	<b>21</b>	<b>8</b>

The results of the selectivity trials where phytotoxicity was observed were summarised by the applicant in Table 3.4 15-26 these tables includes the maximum levels of phytotoxicity (%)

Phytotoxicity symptoms to cereals occurred in the majority of trials using GLOB 1912H at the highest proposed dose (3,2 L/ha) and at 2 N soon after application and at the last assessments. The data also show that phytotoxic symptoms were observed in a similar number of trials following application with the reference products. Additionally, the maximum levels of phytotoxicity observed were comparable between the test and reference products. The following table shows the average yield for all trials calculated in which GLOB 1912H caused phytotoxicity symptoms.

Test report	Country	Appl. timing	Crop	Variety	Maximum phyto. at N rate (%)		Maximum phyto. at 2N rate (%)		Yield in the untreated control Absolute figures (t/ha)	Yield at 1N as % of untreated		Yield at 2N rate as % of untreated	
					GLOB 1912H	Ref.	GLOB 1912H	Ref.		GLOB 1912H	Ref.	GLOB 1912H	Ref.
28	PL	Pre-em	HORVW	Astaire	35	40	65	65	4.38	97,59	105,3	90,89	95,99
65	PL	Post-em	HORVW	Sandra	11,25	13,75	21,25	17,5	6.36	99,89	100,91	100,83	102,03
07	CZ	Pre-em	HORVW	Yatzy	13,75	17,5	45	53,75	8,91	99,17	96,92	90,31	86,68
44	CZ	Post-em	HORVW	Breunskyllie	0	40	50	55	4,92	98,15	99,34	97,78	98,24
48	DE	Post-em	HORVW	Pionier	20	17,5	20	21,25	9,51	104,29	104,47	101,23	103,08
									Mean	<b>99,8</b>	101,3	<b>96,2</b>	97,2
31	PL	Pre-em	SECCW	KWS Serafino	0	0	8.5	9.25	6.95	101,63	98,75	91,22	91,33
68	PL	Post-em	SECCW	Tur	0	7.5	11.25	40	5.77	99,12	97,81	98,85	96,94
51	DE	Post-em	SECCW	KWS Tayo	47,5	47,5	52,5	72,5	7,45	79,46	99,4	94,97	81,48
									Mean	<b>93,4</b>	98,6	<b>95,0</b>	89,0
12	DE	Pre-em	TRZAW	Pionier	3,25	3,5	10	11	7,33	99,11	97,59	99,27	99,27
49	DE	Post-em	TRZAW	Faustus	12,5	7,5	15	25	9,06	101,49	101,2	101,64	98,64
									Mean	<b>100,3</b>	99,395	<b>100,4</b>	98,955
76	CZ	Pre-em	TRZSP	Tauro C1 Bio	6,5	6,5	8	8	8,08	94,85	97,84	99,87	98,59
80	CZ	Post-em	TRZSP	Tauro C1 Bio	6	4,5	7	6	8,82	96,47	99,83	100,69	96,14
81	DE	Post-em	TRZSP	Albertino	2,25	0	7,75	0	9,61	98,01	94,77	98,98	95,77
									Mean	<b>96,4</b>	97,4	<b>99,8</b>	96,8
13	DE	Pre-em	TTLWI	Lombardo	10,75	12,75	40,25	44,5	4,8	98,32	103,11	103,06	101,39
50	DE	Post-em	TTLWI	Lombardo	11,25	22,5	16,25	50	7,93	96,6	97,71	96,59	100,11
									Mean	<b>97,4</b>	100,4	<b>99,8</b>	100,7

For some of the trials presented in the table the final yield for the maximum requested dose rate for GLOB1912H (N=3.2 L/ha) or the registered dose rate of the reference product (N) was lower compared to the double dose rates (2N). The single test reports do not provide adequate explanations for these cases, however, as applicant states it can be expected that a lower dose rate (N) will have less of a negative effect than a higher dose rate (2N) it can be assumed that the yield of the N dose rate will be at least as

high as the yield of the 2N dose rate. Notwithstanding this point, the values presented indicate that phytotoxicity symptoms caused by GLOB1912H may slightly affect the yield of winter cereals.

The applicant submitted fewer than the four required selectivity trials for the requested uses. However, given that the results are consistent, clear conclusions can be drawn. It should also be noted that both active substances are registered for use in winter cereals at higher application dose rates compared to the target application dose rate of GLOB1912H, thus the data provided by the applicant may be considered sufficient.

**General conclusion:** Due to phytotoxicity effects in most cereal crops, extrapolation to other cereal crops is not possible. A label restriction regarding phytotoxicity should be addressed on the label.

### POTATOES

The results of the selectivity trials where phytotoxicity was observed were summarised by the applicant in Table 3.4 -11 This table includes the maximum levels of phytotoxicity (%)

Phytotoxicity symptoms in potatoes occurred in five of seven trials using GLOB 1912H at the highest proposed dose (3,2 L/ha) and at 2 N soon after application and at the last assessments. The data also show that phytotoxic symptoms were observed in a similar number of trials following application with the reference products. Additionally, the maximum levels of phytotoxicity observed were comparable between the test and reference products. The following table shows the average yield for all trials calculated in which GLOB 1912H caused phytotoxicity symptoms.

Test report	Country (EPPO Zone <sup>1</sup> )	Variety	Maximum phyto. at N rate (%)		Maximum phyto. at 2N rate (%)		Yield in control Absolute figures (t/ha)	Yield at 1N as % of untreated		Yield at 2N rate as % of untreated	
			GLOB 1912H	Ref.	GLOB 1912H	Ref.		GLOB 1912H	Ref.	GLOB 1912H	Ref.
83	PL (N-E)	Liliana	4	1	13,5	13,5	35,62	107,07	81,55	105,16	80,48
84	PL (N-E)	Gala	4,5	1,25	14,25	1,25	36,07	102,77	100,63	101,6	98,95
85	PL (N-E)	Irga	22,5	0	60	0	27,73	97,29	96,77	93,11	98,9
92	PL (N-E)	Boryna	20	0	22,5	1,25	39,19	93,58	94,73	98	98,38
93	PL (N-E)	Lady Claire	5	0	7,5	0	33,76	102,37	96,04	99,45	106,82
<b>Mean</b>								<b>100,6</b>	<b>93,9</b>	<b>99,4</b>	<b>96,7</b>

Phytotoxicity symptoms in potatoes caused by a single application of GLOB1912H applied pre-emergence at the proposed use rate of 3,2 L/ha, were transient. Overall the values presented indicate that phytotoxicity symptoms have no negative effects on yield. Given the possibility of a lower potatoes yield with a double dose rate of 6,4 l / ha of GLOB1912H compared to the proposed dose rate of 3,2 l /ha, label warnings regarding phytotoxicity should be included on the label.

### SUNFLOWER

The results of the selectivity trials where phytotoxicity was observed were summarised by the applicant in Table 3.4.13. This table includes the maximum levels of phytotoxicity (%)

Phytotoxicity symptoms to sunflowers occurred in two trials of four using GLOB 1912H at the highest proposed dose (3,2 L/ha) and at 2 N soon after application and at the last assessments. These trials were conducted in Germany and The Czech Republic. The data also show that phytotoxic symptoms were observed in a similar number of trials following application with the reference products. Additionally, the maximum levels of phytotoxicity observed were comparable between the test and reference products. The following table shows the average yield for all trials calculated in which GLOB 1912H caused phytotoxicity symptoms.

Test report	Country (EPPO Zone <sup>1</sup> )	Variety	Maximum phyto. at N rate (%)		Maximum phyto. at 2N rate (%)		Yield in control Absolute figures (t/ha)	Yield at 1N as % of untreated		Yield at 2N rate as % of untreated	
			GLOB 1912H	Ref.	GLOB 1912H	Ref.		GLOB 1912H	Ref.	GLOB 1912H	Ref.
113	CZ	Euromis CL	5	5	22,5	5	2,27	120,26	112,12	139,46	109,6
114	CZ	P64LE25	52,5	0,75	67,5	3	4,57	98,93	100,91	83,24	91,37
								<b>109,6</b>	<b>106,5</b>	<b>111,5</b>	<b>100,4</b>

Phytotoxicity symptoms in sunflower caused by a single application of GLOB1912H applied pre-emergence at the proposed use rate of 3,2 L/ha, were transient, and the values presented indicate that phytotoxicity symptoms have no negative effects on yield. Given the possibility of a lower sunflower yield with a double dose rate of 6,4 l / ha of GLOB1912H compared to the proposed dose rate of 3,2 l/ha, label warnings regarding phytotoxicity should be included on the label.

### SOUTH-EAST EPPO ZONE

#### Winter cereals

The applicant did not provide phytotoxicity data in winter cereals. He did not justify this approach. Since a close correlation between phytotoxicity symptoms and cereals yield was observed in the Maritime and North-east EPPO zone, it is not possible to evaluate and draw conclusions on the crop safety of GLOB1912H applied as pre- or early post-emergence treatments in winter cereals in South-East EPPO Zone.

#### Potatoes

The results of the selectivity trials where phytotoxicity was observed were summarised by the applicant in Table 3.4 -11 This table includes the maximum levels of phytotoxicity (%)

Phytotoxicity symptoms in potatoes occurred in one of three trials using GLOB 1912H at the highest proposed dose (3,2 L/ha) and at 2 N soon after application and at the last assessments. The data also show that phytotoxic symptoms were observed in a similar number of trials following application with the reference products. Phytotoxicity symptoms in potatoes caused by a single application of GLOB1912H applied pre-emergence at the proposed use rate of 3,2 L/ha, were transient and, the values presented indicate that phytotoxicity symptoms have no negative effects on yield.

#### Sunflower

Phytotoxicity symptoms in sunflower caused by a single application of GLOB1912H applied pre-emergence at the proposed use rate of 3,2 L/ha, were transient. Overall the values presented indicate that phytotoxicity symptoms have no negative effects on yield. Given the possibility of a lower sunflower yield with a double dose rate of 6,4 l / ha of GLOB1912H compared to the proposed dose rate of 3,2 l/ha, label warnings regarding phytotoxicity should be included on the label.

### 3.4.2 Effect on the yield of treated plants or plant product (KCP 6.4.2)

The results of the crop safety trials presented above demonstrate that GLOB1912H does not cause any negative effects on yield quantity at the maximum requested dose rate of 3.2 L/ha.

Comments of zRMS:	As described in the previous section GLOB1912H caused phytotoxic symptoms and some slight yield reduction were recorded in winter rye, winter wheat, winter triticale, winter spelt and winter durum wheat. Therefore, negative effects on yield cannot be excluded. A label-restriction regarding phytotoxicity should be addressed on the label. For application in sunflower and potato, the values presented indicate that phytotoxicity symptoms have no negative effects on yield.
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### **3.4.3 Effects on the quality of plants and plant products (KCP 6.4.3)**

The results of the crop safety trials presented above demonstrate that GLOB1912H does not cause any negative effects on yield quality at the maximum requested dose rate of 3.2 L/ha.

Results extracted from BAD

3.4.3.1 Results of selectivity trials performed on potatoes

Table 3.4-23 Number of tubers as %UNCK

	6.4-83	6.4-84	6.4-85	6.4-86	6.4-87	6.4-88	6.4-89	6.4-90	6.4-91	6.4-92																
Crop Code	SOLTU																									
Part Rated	# TUBERS																									
UNTREATED (#tubers)	565.50	bc	1205.25	-	1489.50	-	1297.50	ab	857.50	-	394.00	-	753.00	-	1444.00	-	1279.75	ab	1039.50	-						
GLOB1912H 4 L/ha									95.85	-					104.51	-	97.65	ab								
GLOB1319H 4 L/ha	120.97	a	97.79	-	93.88	-	106.48	a	102.10	-	113.57	-	105.69	-	102.92	-	109.23	ab	95.26	-						
Mean 4 L/ha	120.97	a	97.79	-	93.88	-	106.48	a	98.98	-	113.57	-	105.69	-	103.72	-	103.44	-	95.26	-						
GLOB1319H 8 L/ha	111.69	ab	103.37	-	84.21	-	96.21	ab	96.09	-	109.88	-	92.93	-	102.44	-	91.44	ab	97.82	-						
GLOB1912H 8 L/ha									97.95	-					106.66	-	88.42	ab								
Mean 8 L/ha	111.69	ab	103.37	-	84.21	-	96.21	ab	97.02	-	109.88	-	92.93	-	104.55	-	89.93	-	97.82	-						
Fidox 800																										
EC 4 L/ha																										
Ref. Pro. 5 L/ha	89.89	c	102.88	-	93.92	-	100.93	ab	107.23	-	103.58	-	98.34	-	103.43	-	113.60	a	97.32	-						
Ref. Pro. 8 L/ha																										
Ref. Pro. 10 L/ha	100.12	bc	103.25	-	99.00	-	93.42	b	95.81	-	110.64	-	101.37	-	108.14	-	106.16	ab	100.13	-						
	6.4-93	6.4-94	6.4-95	6.4-96	6.4-97	6.4-98	6.4-99	6.4-100	6.4-101																	
Crop Code	SOLTU		SUMMARY																							
Part Rated	# TUBERS		n	Mean	Min	Max	Med.	Stdev.																		
UNTREATED (#tubers)	977.75	-	1125.25	ab	530.50	-	1197.00	-	893.00	-	1129.00	-	573.25	-	1750.00	a	352.50	-			19	992.30	352.50	1750.00	1039.50	390.92
GLOB1912H 4 L/ha																					3	99.34	95.85	104.51	97.65	4.57
GLOB1319H 4 L/ha	103.93	-	108.25	ab	106.84	-	102.30	-	97.86	-	91.95	-	94.66	-	75.37	ab	106.04	-			19	101.85	75.37	120.97	102.92	9.64
Mean 4 L/ha	103.93	-	108.25	ab	106.84	-	102.30	-	97.86	-	91.95	-	94.66	-	75.37	ab	106.04	-			19	101.42	75.37	120.97	103.44	9.51
GLOB1319H 8 L/ha	100.10	-	90.70	ab	96.61	-	102.94	-	101.89	-	92.66	-	102.22	-	69.25	ab	110.85	-			19	97.54	69.25	111.69	97.82	9.93
GLOB1912H 8 L/ha																					3	97.68	88.42	106.66	97.95	9.12
Mean 8 L/ha	100.10	-	90.70	ab	96.61	-	102.94	-	101.89	-	92.66	-	102.22	-	69.25	ab	110.85	-			19	97.62	69.25	111.69	97.82	10.06
Fidox 800																										
EC 4 L/ha													92.22	-							1	92.22	92.22	92.22	92.22	-
Ref. Pro. 5 L/ha	112.00	-	89.20	ab	107.78	-	94.23	-	113.41	-			99.07	-	71.77	ab	108.61	-			18	100.40	71.77	113.60	101.91	10.36
Ref. Pro. 8 L/ha													94.66	-							1	94.66	94.66	94.66	94.66	-
Ref. Pro. 10 L/ha	112.01	-	87.11	ab	106.17	-	93.70	-	102.62	-			96.43	-	73.72	ab	108.78	-			18	99.92	73.72	112.01	100.75	9.29

Crop Code Part Rated	SUMMARY MAR						SUMMARY PL						SUMMARY PL CZ/DE						SUMMARY S-E					
	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED (#tubers)	9	971.72	394.00	1444.00	1125.25	353.46	7	1061.79	565.50	1489.50	1039.50	304.05	14	983.52	394.00	1489.50	1008.63	338.48	3	891.92	352.50	1750.00	573.25	751.27
GLOB1912H 4 L/ha	2	101.08	97.65	104.51	101.08	4.85	1	95.85	95.85	95.85	95.85	-	2	100.18	95.85	104.51	100.18	6.12						
GLOB1319H 4 L/ha	9	104.29	91.95	113.57	105.69	6.46	7	102.92	93.88	120.97	102.10	9.19	14	104.13	93.88	120.97	103.43	7.22	3	92.02	75.37	106.04	94.66	15.50
Mean 4 L/ha	9	103.74	91.95	113.57	103.72	6.19	7	102.47	93.88	120.97	98.98	9.31	14	103.97	93.88	120.97	103.82	7.33	3	92.02	75.37	106.04	94.66	15.50
GLOB1319H 8 L/ha	9	97.94	90.70	109.88	96.61	6.64	7	98.50	84.21	111.69	97.82	8.33	14	99.06	84.21	111.69	98.96	7.25	3	94.11	69.25	110.85	102.22	21.95
GLOB1912H 8 L/ha	2	97.54	88.42	106.66	97.54	12.90	1	97.95	97.95	97.95	97.95	-	2	102.31	97.95	106.66	102.31	6.16						
Mean 8 L/ha	9	98.01	89.93	109.88	96.61	7.05	7	98.63	84.21	111.69	97.82	8.29	14	99.28	84.21	111.69	98.96	7.32	3	94.11	69.25	110.85	102.22	21.95
Fidox 800 EC 4 L/ha	1	92.22	92.22	92.22	92.22	-																		
Ref. Pro. 5 L/ha	8	102.95	89.20	113.60	103.51	8.73	7	100.60	89.89	112.00	100.93	7.63	14	101.01	89.20	113.41	101.91	7.62	3	93.15	71.77	108.61	99.07	19.12
Ref. Pro. 8 L/ha	1	94.66	94.66	94.66	94.66	-																		
Ref. Pro. 10 L/ha	15	101.31	87.11	112.01	101.37	6.87	11	102.73	93.42	112.01	101.37	5.95	15	101.31	87.11	112.01	101.37	6.87	18	99.92	73.72	112.01	100.75	9.29

Table 3.4-24 % of tubers per weight class

Crop Code Part Rated	6.4-83				6.4-84				6.4-85										
	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3																
UNTREATED	20.95	-	66.58	-	12.47	-	11.82	-	74.98	-	13.20	-	30.99	-	52.84	-	16.17	-	
GLOB1912H 4 L/ha																			
GLOB1319H 4 L/ha	22.62	-	65.55	-	11.83	-	10.66	-	76.16	-	13.18	-	27.19	-	61.42	-	11.39	-	
Mean 4 L/ha	22.62	-	65.55	-	11.83	-	10.66	-	76.16	-	13.18	-	27.19	-	61.42	-	11.39	-	
GLOB1319H 8 L/ha	20.49	-	67.54	-	11.97	-	12.63	-	79.23	-	8.14	-	26.25	-	54.17	-	19.58	-	
GLOB1912H 8 L/ha																			
Mean 8 L/ha	20.49	-	67.54	-	11.97	-	12.63	-	79.23	-	8.14	-	26.25	-	54.17	-	19.58	-	
Fidox 800 EC 4 L/ha																			
Ref. Pro. 5 L/ha	23.55	-	61.33	-	15.12	-	13.80	-	74.99	-	11.21	-	24.96	-	59.96	-	15.08	-	
Ref. Pro. 8 L/ha																			
Ref. Pro. 10 L/ha	30.40	-	62.23	-	7.36	-	15.13	-	76.55	-	8.31	-	24.90	-	61.39	-	13.71	-	
Crop Code Part Rated	6.4-86				6.4-87				6.4-88										
	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3																
UNTREATED	24.52	-	54.79	-	20.69	-	5.50	-	14.50	-	80.00	-	8.32	-	76.29	-	15.39	-	
GLOB1912H 4 L/ha																			
GLOB1319H 4 L/ha	24.61	-	52.05	-	23.35	-	5.75	-	15.50	-	78.50	-	5.65	-	74.41	-	19.94	-	
Mean 4 L/ha	24.61	-	52.05	-	23.35	-	5.88	-	16.50	-	77.50	-	5.65	-	74.41	-	19.94	-	
GLOB1319H 8 L/ha	22.40	-	57.13	-	20.47	-	6.00	-	17.50	-	76.25	-	8.78	-	71.24	-	19.48	-	
GLOB1912H 8 L/ha																			
Mean 8 L/ha	22.40	-	57.13	-	20.47	-	6.50	-	17.50	-	75.63	-	8.78	-	71.24	-	19.48	-	
Fidox 800 EC 4 L/ha																			
Ref. Pro. 5 L/ha	24.88	-	56.59	-	18.53	-	5.50	-	16.50	-	77.75	-	14.11	-	65.38	-	20.51	-	
Ref. Pro. 8 L/ha																			
Ref. Pro. 10 L/ha	22.52	-	56.59	-	20.89	-	5.50	-	15.50	-	78.75	-	4.41	-	74.05	-	21.55	-	

		6.4-89			6.4-90			6.4-91		
Crop Code	Part Rated	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3
UNTREATED		2.25	34.75	63.00	6.23	46.83	46.93	23.64	46.79	8.84
GLOB1912H	4 L/ha				6.53	48.03	45.45	18.80	45.79	13.91
GLOB1319H	4 L/ha	2.00	36.25	61.75	7.28	46.68	46.03	19.89	44.48	10.71
Mean	4 L/ha	2.00	36.25	61.75	6.91	47.36	45.74	19.35	45.14	12.31
GLOB1319H	8 L/ha	2.75	36.00	61.25	5.30	45.18	49.55	21.46	41.98	10.45
GLOB1912H	8 L/ha				7.03	44.83	48.15	19.06	37.91	13.81
Mean	8 L/ha	2.75	36.00	61.25	6.17	45.01	48.85	20.26	39.95	12.13
Fidox 800										
EC	4 L/ha									
Ref. Pro.	5 L/ha	2.50	36.75	60.75	6.93	48.18	44.90	19.80	48.02	11.97
Ref. Pro.	8 L/ha									
Ref. Pro.	10 L/ha	2.75	36.25	61.25	7.13	43.53	49.35	21.66	48.24	12.34
		6.4-92			6.4-93			6.4-94		
Crop Code	Part Rated	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3
UNTREATED		2.43	54.12	43.45	5.52	63.42	31.07	1.45	49.36	49.19
GLOB1912H	4 L/ha									
GLOB1319H	4 L/ha	3.18	56.20	40.62	3.68	70.95	25.36	1.20	54.68	44.13
Mean	4 L/ha	3.18	56.20	40.62	3.68	70.95	25.36	1.20	54.68	44.13
GLOB1319H	8 L/ha	2.64	52.25	45.11	3.67	72.33	24.01	1.87	59.64	38.50
GLOB1912H	8 L/ha									
Mean	8 L/ha	2.64	52.25	45.11	3.67	72.33	24.01	1.87	59.64	38.50
Fidox 800										
EC	4 L/ha									
Ref. Pro.	5 L/ha	3.23	55.49	41.28	9.05	69.88	21.08	1.48	52.15	46.38
Ref. Pro.	8 L/ha									
Ref. Pro.	10 L/ha	3.13	55.15	41.72	4.82	72.19	22.99	1.36	57.33	41.32
		6.4-95			6.4-96			6.4-97		
Crop Code	Part Rated	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3
UNTREATED		6.78	84.81	8.42	3.65	26.28	70.08	2.52	96.80	0.68
GLOB1912H	4 L/ha									
GLOB1319H	4 L/ha	9.57	87.47	2.97	3.55	26.90	69.50	2.48	95.48	2.04
Mean	4 L/ha	9.57	87.47	2.97	3.55	26.90	69.50	2.48	95.48	2.04
GLOB1319H	8 L/ha	10.83	86.58	2.60	3.18	27.80	69.08	3.43	93.85	2.72
GLOB1912H	8 L/ha									
Mean	8 L/ha	10.83	86.58	2.60	3.18	27.80	69.08	3.43	93.85	2.72
Fidox 800										
EC	4 L/ha									
Ref. Pro.	5 L/ha	8.91	89.26	1.84	3.03	23.23	73.73	3.26	93.12	3.63
Ref. Pro.	8 L/ha									
Ref. Pro.	10 L/ha	7.80	89.28	2.93	3.43	27.73	68.85	3.85	93.64	2.50

		6.4-98			6.4-99			6.4-100															
Crop Code	Part Rated	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3													
UNTREATED		6.93	-	70.25	-	22.82	-	9.70	-	29.45	-	60.88	-	14.80	-	37.90	-	47.31	-				
GLOB1912H	4 L/ha	5.11	-	67.39	-	27.51	-	8.33	-	32.63	-	59.08	-	12.10	-	34.20	-	53.70	-				
GLOB1319H	4 L/ha	5.11	-	67.39	-	27.51	-	8.33	-	32.63	-	59.08	-	12.10	-	34.20	-	53.70	-				
Mean	4 L/ha	5.11	-	67.39	-	27.51	-	8.33	-	32.63	-	59.08	-	12.10	-	34.20	-	53.70	-				
GLOB1319H	8 L/ha	6.00	-	67.48	-	26.52	-	9.43	-	33.48	-	57.10	-	6.67	-	34.21	-	59.12	-				
GLOB1912H	8 L/ha	6.00	-	67.48	-	26.52	-	9.43	-	33.48	-	57.10	-	6.67	-	34.21	-	59.12	-				
Mean	8 L/ha	6.00	-	67.48	-	26.52	-	9.43	-	33.48	-	57.10	-	6.67	-	34.21	-	59.12	-				
Fidox 800																							
EC	4 L/ha	5.45	-	68.37	-	26.18	-																
Ref. Pro.	5 L/ha							8.00	-	29.38	-	62.63	-	6.06	-	34.75	-	59.18	-				
Ref. Pro.	8 L/ha	5.90	-	69.50	-	24.61	-																
Ref. Pro.	10 L/ha							8.43	-	34.13	-	57.45	-	10.51	-	31.06	-	58.44	-				
		6.4-101																					
Crop Code	Part Rated	SOLTU COMPR1	SOLTU COMPR2	SOLTU COMPR3																			
UNTREATED		65.50	c	22.00	ab	12.50	a																
GLOB1912H	4 L/ha																						
GLOB1319H	4 L/ha	69.25	abc	20.50	ab	10.25	ab																
Mean	4 L/ha	69.25	abc	20.50	ab	10.25	ab																
GLOB1319H	8 L/ha	73.00	abc	17.00	b	10.00	ab																
GLOB1912H	8 L/ha																						
Mean	8 L/ha	73.00	abc	17.00	b	10.00	ab																
Fidox 800																							
EC	4 L/ha																						
Ref. Pro.	5 L/ha	74.75	a	16.50	b	8.75	b																
Ref. Pro.	8 L/ha																						
Ref. Pro.	10 L/ha	70.75	abc	18.75	ab	10.50	ab																



Part Rated	STACON	n	Mean	Min	Max	Med.	Stdev.																	
UNTREATED (%)	12.48	-	18.75	-	18.25	ab	20.78	b	10.03	-	15.78	-	9.25	-	9.48	-	11.38	-	9	14.02	9.25	20.78	12.48	4.44
GLOB1912H 4 L/ha					102.74	ab													1	102.74	102.74	102.74	102.74	-
GLOB1319H 4 L/ha	106.86	-	102.01	-	98.68	b	105.24	b	100.26	-	104.14	-	105.17	-	103.18	-	103.35	-	9	103.21	98.68	106.86	103.35	2.57
Mean 4 L/ha	106.86	-	102.01	-	100.71	-	105.24	b	100.26	-	104.14	-	105.17	-	103.18	-	103.35	-	9	103.44	100.26	106.86	103.35	2.18
GLOB1319H 8 L/ha	104.11	-	99.21	-	103.51	ab	102.03	b	101.13	-	100.89	-	103.55	-	95.98	-	100.62	-	9	101.23	95.98	104.11	101.13	2.54
GLOB1912H 8 L/ha					100.73	ab													1	100.73	100.73	100.73	100.73	-
Mean 8 L/ha	104.11	-	99.21	-	102.12	-	102.03	b	101.13	-	100.89	-	103.55	-	95.98	-	100.62	-	9	101.07	95.98	104.11	101.13	2.42
Fidox 800 EC 4 L/ha												105.44	-						1	105.44	105.44	105.44	105.44	-
Ref. Pro. 5 L/ha	106.72	-	100.55	-	101.43	ab	103.01	b	100.29	-	103.43	-			106.19	-	99.98	-	8	102.70	99.98	106.72	102.22	2.63
Ref. Pro. 8 L/ha													102.72	-					1	102.72	102.72	102.72	102.72	-
Ref. Pro. 10 L/ha	102.96	-	100.80	-	100.77	ab	99.15	b	101.51	-	100.86	-			103.80	-	108.27	-	8	102.27	99.15	108.27	101.19	2.82

Crop Code	SUMMARY MAR						SUMMARY PL						SUMMARY PL CZ/DE						SUMMARY S-E					
	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED (%)	4	13.33	9.25	18.25	12.91	4.39	3	17.34	12.48	20.78	18.75	4.33	6	16.01	10.03	20.78	17.02	4.09	2	10.43	9.48	11.38	10.43	1.34
GLOB1912H 4 L/ha	1	102.74	102.74	102.74	102.74	-	3	104.70	102.01	106.86	105.24	2.47	6	102.74	102.74	102.74	102.74	-	2	103.27	103.18	103.35	103.27	0.12
GLOB1319H 4 L/ha	4	102.06	98.68	105.17	102.20	3.09	3	104.70	102.01	106.86	105.24	2.47	6	102.87	98.68	106.86	103.08	3.11	2	103.27	103.18	103.35	103.27	0.12
Mean 4 L/ha	4	102.57	100.26	105.17	102.43	2.45	3	104.70	102.01	106.86	105.24	2.47	6	103.20	100.26	106.86	103.08	2.63	2	103.27	103.18	103.35	103.27	0.12
GLOB1319H 8 L/ha	4	102.27	100.89	103.55	102.32	1.46	3	101.78	99.21	104.11	102.03	2.46	6	101.81	99.21	104.11	101.58	1.81	2	98.30	95.98	100.62	98.30	3.28
GLOB1912H 8 L/ha	1	100.73	100.73	100.73	100.73	-	3	101.78	99.21	104.11	102.03	2.46	1	100.73	100.73	100.73	100.73	-	2	98.30	95.98	100.62	98.30	3.28
Mean 8 L/ha	4	101.92	100.89	103.55	101.63	1.21	3	101.78	99.21	104.11	102.03	2.46	6	101.58	99.21	104.11	101.58	1.62	2	98.30	95.98	100.62	98.30	3.28
Fidox 800 EC 4 L/ha	1	105.44	105.44	105.44	105.44	-	3	103.43	100.55	106.72	103.01	3.11	6	102.57	100.29	106.72	102.22	2.40	2	103.09	99.98	106.19	103.09	4.39
Ref. Pro. 5 L/ha	3	101.72	100.29	103.43	101.43	1.59	3	103.43	100.55	106.72	103.01	3.11	6	102.57	100.29	106.72	102.22	2.40	2	103.09	99.98	106.19	103.09	4.39
Ref. Pro. 8 L/ha	1	102.72	102.72	102.72	102.72	-	3	103.43	100.55	106.72	103.01	3.11	6	102.57	100.29	106.72	102.22	2.40	2	103.09	99.98	106.19	103.09	4.39
Ref. Pro. 10 L/ha	8	102.27	99.15	108.27	101.19	2.82	8	102.27	99.15	108.27	101.19	2.82	6	101.01	99.15	102.96	100.83	1.24	8	102.27	99.15	108.27	101.19	2.82

### Conclusion

The results of the crop safety trials presented above demonstrate that GLOB1912H does not cause any negative effects on yield quality at the maximum requested dose rate of 3.2 L/ha.

### 3.4.3.2 Results of selectivity trials performed on sunflowers

**Table 3.4-27 Moisture content (%) as %UNCK**

	6.4-102	6.4-103	6.4-104	6.4-105	6.4-106	6.4-107	6.4-108	6.4-109	6.4-110	6.4-111		
Crop Code	HELAN											
Part Rated	MOICON											
UNTREATED (%)	10.94	7.75	6.90	11.13	12.51	bcd	9.74	7.18	12.65	11.20	9.90	
GLOB1319H 3.6 L/ha	100.89	94.89	95.74	96.64	94.21	cd	111.46	102.21	95.96	98.17	98.96	
GLOB1319H 7.2 L/ha	99.99	97.57	99.44	96.67	139.56	ab	103.34	109.19	100.97	102.43	101.14	
Ref. Pro. 4 L/ha												
Ref. Pro. 5 L/ha	103.66	94.89										
Ref. Pro. 8 L/ha												
Ref. Pro. 10 L/ha	102.39	98.46										
Ref. AcI. 3 L/ha									94.90	105.76		
Ref. AcI. 4 L/ha			99.97	98.89	114.11	abc	90.05	98.81	95.56			
Ref. AcI. 6 L/ha										87.29	96.67	
Ref. AcI. 8 L/ha			97.48	98.89	141.21	ab	102.13	97.47	104.48			
	6.4-112	6.4-113	6.4-114	6.4-115	6.4-116	6.4-117	6.4-118	6.4-119	6.4-120			
Crop Code	HELAN		SUMMARY									
Part Rated	MOICON		n Mean Min Max Med. Stdev.									
UNTREATED (%)	18.98	21.00	9.78	15.17	12.59	9.70	a	10.81	9.93	23.75	bcd	19 12.19 12.19 12.19 12.19 12.19
GLOB1319H 3.6 L/ha	101.27	100.00	104.81	101.15	97.82	101.83	a	89.07	98.87	95.27	cd	19 98.91 98.91 98.91 98.91 98.91
GLOB1319H 7.2 L/ha	103.54	100.00	99.50	97.81	94.53	101.17	a	131.30	95.06	89.60	d	19 103.31 103.31 103.31 103.31 103.31
Ref. Pro. 4 L/ha										95.83	cd	1 95.83 95.83 95.83 95.83 95.83
Ref. Pro. 5 L/ha		100.00	101.86	96.57	94.73							6 98.62 98.62 98.62 98.62 98.62
Ref. Pro. 8 L/ha										110.62	ab	1 110.62 110.62 110.62 110.62 110.62
Ref. Pro. 10 L/ha		100.00	96.26	100.44	97.40							6 99.16 99.16 99.16 99.16 99.16
Ref. AcI. 3 L/ha	99.47											3 100.04 100.04 100.04 100.04 100.04
Ref. AcI. 4 L/ha						101.22	a	105.23	100.77			9 100.51 100.51 100.51 100.51 100.51
Ref. AcI. 6 L/ha	99.78											3 94.58 94.58 94.58 94.58 94.58
Ref. AcI. 8 L/ha						102.01	a	111.43	99.41			9 106.06 106.06 106.06 106.06 106.06

Crop Code	SUMMARY MAR						SUMMARY CZ/DE						SUMMARY MED						SUMMARY S-E					
	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED (%)	8	14.09	14.09	14.09	14.09	14.09	8	14.09	14.09	14.09	14.09	14.09	8	11.66	11.66	11.66	11.66	11.66	3	8.53	8.53	8.53	8.53	8.53
GLOB1319H 3.6 L/ha	8	98.60	98.60	98.60	98.60	98.60	8	98.60	98.60	98.60	98.60	98.60	8	99.86	99.86	99.86	99.86	99.86	3	97.17	97.17	97.17	97.17	97.17
GLOB1319H 7.2 L/ha	8	101.12	101.12	101.12	101.12	101.12	8	101.12	101.12	101.12	101.12	101.12	8	107.11	107.11	107.11	107.11	107.11	3	99.00	99.00	99.00	99.00	99.00
Ref. Pro. 4 L/ha	1	95.83	95.83	95.83	95.83	95.83	1	95.83	95.83	95.83	95.83	95.83												
Ref. Pro. 5 L/ha	4	98.29	98.29	98.29	98.29	98.29	4	98.29	98.29	98.29	98.29	98.29							2	99.28	99.28	99.28	99.28	99.28
Ref. Pro. 8 L/ha	1	110.62	110.62	110.62	110.62	110.62	1	110.62	110.62	110.62	110.62	110.62												
Ref. Pro. 10 L/ha	4	98.53	98.53	98.53	98.53	98.53	4	98.53	98.53	98.53	98.53	98.53							2	100.43	100.43	100.43	100.43	100.43
Ref. AcI. 3 L/ha													3	100.04	100.04	100.04	100.04	100.04						
Ref. AcI. 4 L/ha	3	102.41	102.41	102.41	102.41	102.41	3	102.41	102.41	102.41	102.41	102.41	5	99.48	99.48	99.48	99.48	99.48	1	99.97	99.97	99.97	99.97	99.97
Ref. AcI. 6 L/ha													3	94.58	94.58	94.58	94.58	94.58						
Ref. AcI. 8 L/ha	3	104.28	104.28	104.28	104.28	104.28	3	104.28	104.28	104.28	104.28	104.28	5	108.84	108.84	108.84	108.84	108.84	1	97.48	97.48	97.48	97.48	97.48

**Table 3.4-28 Oil content (%) as %UNCK**

	6.4-102	6.4-103	6.4-104	6.4-105	6.4-106	6.4-107	6.4-108	6.4-109	6.4-110	6.4-111	
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Crop Code Part Rated	HELAN OILCON																	
UNTREATED (%)	45.51	- 52.60	36.80	34.61	- 32.40	c	42.22	- 45.15	- 50.80	- 31.70	- 30.95							
GLOB1319H 3.6 L/ha	100.54	- 103.42	92.93	98.71	- 121.04	a	99.74	- 100.32	- 100.68	- 96.47	- 103.47							
GLOB1319H 7.2 L/ha	103.79	- 103.99	101.90	99.31	- 106.10	bc	100.30	- 99.48	- 99.55	- 101.18	- 103.24							
Ref. Pro. 4 L/ha																		
Ref. Pro. 5 L/ha	101.65	- 103.04																
Ref. Pro. 8 L/ha																		
Ref. Pro. 10 L/ha	98.61	- 102.09																
Ref. Acl. 3 L/ha										103.80	- 102.45							
Ref. Acl. 4 L/ha			96.20	99.60	- 108.11	bc	101.09	- 99.90	- 101.05									
Ref. Acl. 6 L/ha										104.63	- 96.58							
Ref. Acl. 8 L/ha			95.65	99.93	- 116.67	ab	103.58	- 100.71	- 100.20									
	6.4-112	6.4-113	6.4-114	6.4-115	6.4-116		6.4-117	6.4-118	6.4-119	6.4-120								
Crop Code Part Rated	HELAN OILCON	SUMMARY																
UNTREATED (%)	32.25	- 49.60	cd	46.30	46.93	ab	44.55	- 46.58	- 45.57	- 45.60	50.00	a	n	Mean	Min	Max	Med.	Stdev.
GLOB1319H 3.6 L/ha	94.64	- 103.08	a	102.81	95.82	bc	100.83	- 99.24	- 99.88	- 100.00	99.62	a	19	42.64	42.64	42.64	42.64	42.64
GLOB1319H 7.2 L/ha	97.24	- 94.92	e	86.83	97.12	b	101.23	- 96.37	- 96.23	- 99.56	101.62	a	19	100.70	100.70	100.70	100.70	100.70
Ref. Pro. 4 L/ha											99.61	a	19	99.47	99.47	99.47	99.47	99.47
Ref. Pro. 5 L/ha		102.22	ab	83.59	96.87	b	100.16	-			99.61	a	1	99.61	99.61	99.61	99.61	99.61
Ref. Pro. 8 L/ha													6	97.92	97.92	97.92	97.92	97.92
Ref. Pro. 10 L/ha		98.65	d	88.34	96.14	bc	102.17	-				ab	6	97.92	97.92	97.92	97.92	97.92
Ref. Acl. 3 L/ha	95.43	-											1	93.61	93.61	93.61	93.61	93.61
Ref. Acl. 4 L/ha								99.24	- 100.95	- 104.39			6	97.67	97.67	97.67	97.67	97.67
Ref. Acl. 6 L/ha	97.35	-											3	100.56	100.56	100.56	100.56	100.56
Ref. Acl. 8 L/ha							99.81	- 98.91	- 99.56				9	101.17	101.17	101.17	101.17	101.17
													3	99.52	99.52	99.52	99.52	99.52
													9	101.67	101.67	101.67	101.67	101.67

Crop Code Part Rated	SUMMARY MAR						SUMMARY CZ/DE						SUMMARY MED						SUMMARY S-E					
	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED (%)	8	46.89	46.89	46.89	46.89	46.89	8	46.89	46.89	46.89	46.89	46.89	8	37.51	37.51	37.51	37.51	37.51	3	44.97	44.97	44.97	44.97	44.97
GLOB1319H 3.6 L/ha	8	100.16	100.16	100.16	100.16	100.16	8	100.16	100.16	100.16	100.16	100.16	8	101.88	101.88	101.88	101.88	101.88	3	98.96	98.96	98.96	98.96	98.96
GLOB1319H 7.2 L/ha	8	96.74	96.74	96.74	96.74	96.74	8	96.74	96.74	96.74	96.74	96.74	8	100.80	100.80	100.80	100.80	100.80	3	103.23	103.23	103.23	103.23	103.23
Ref. Pro. 4 L/ha	1	99.61	99.61	99.61	99.61	99.61	1	99.61	99.61	99.61	99.61	99.61												
Ref. Pro. 5 L/ha	4	95.71	95.71	95.71	95.71	95.71	4	95.71	95.71	95.71	95.71	95.71							2	102.35	102.35	102.35	102.35	102.35
Ref. Pro. 8 L/ha	1	93.61	93.61	93.61	93.61	93.61	1	93.61	93.61	93.61	93.61	93.61												
Ref. Pro. 10 L/ha	4	96.33	96.33	96.33	96.33	96.33	4	96.33	96.33	96.33	96.33	96.33							2	100.35	100.35	100.35	100.35	100.35
Ref. Acl. 3 L/ha													3	100.56	100.56	100.56	100.56	100.56						
Ref. Acl. 4 L/ha	3	101.53	101.53	101.53	101.53	101.53	3	101.53	101.53	101.53	101.53	101.53	5	101.95	101.95	101.95	101.95	101.95	1	96.20	96.20	96.20	96.20	96.20
Ref. Acl. 6 L/ha													3	99.52	99.52	99.52	99.52	99.52						
Ref. Acl. 8 L/ha	3	99.43	99.43	99.43	99.43	99.43	3	99.43	99.43	99.43	99.43	99.43	5	104.22	104.22	104.22	104.22	104.22	1	95.65	95.65	95.65	95.65	95.65

**Table 3.4-29 Dry matter content (%) as %UNCK**

Crop Code Part Rated	6.4-102		6.4-103		6.4-104		6.4-105		6.4-106		6.4-107		6.4-108		6.4-109		6.4-110		6.4-111					
	HELAN WTS																							
UNTREATED (g)	43.56	-	39.65	56.10	54.27	-	87.49	-	48.05	-	47.68	-	36.55	-	57.10	-	59.15	-						
GLOB1319H 3.6 L/ha	99.22	-	96.72	105.70	101.51	-	102.09	-	100.47	-	99.59	-	100.54	-	102.92	-	98.39	-						
GLOB1319H 7.2 L/ha	96.11	-	95.33	100.18	101.16	-	84.37	-	101.92	-	99.26	-	100.64	-	99.35	-	98.14	-						
Ref. Pro. 4 L/ha																								
Ref. Pro. 5 L/ha	97.26	-	97.23																					
Ref. Pro. 8 L/ha																								
Ref. Pro. 10 L/ha	100.70	-	97.86																					
Ref. Acl. 3 L/ha															99.16	-	97.82	-						
Ref. Acl. 4 L/ha				102.14	100.54	-	99.29	-	103.18	-	100.47	-	100.25	-										
Ref. Acl. 6 L/ha															100.46	-	102.63	-						
Ref. Acl. 8 L/ha				103.21	100.30	-	95.90	-	97.67	-	100.02	-	98.46	-										
	6.4-112		6.4-113		6.4-114		6.4-115		6.4-116		6.4-117		6.4-118		6.4-119		6.4-120							
Crop Code Part Rated	HELAN WTS	SUMMARY																						
	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED (g)	48.78	-	29.40	cd	43.90	37.91	b	42.86	-	43.72	b	43.49	-	44.48	26.25	-			19	46.86	46.86	46.86	46.86	46.86
GLOB1319H 3.6 L/ha	103.11	-	95.01	f	96.58	104.84	ab	99.99	-	100.48	b	103.45	-	100.39	105.70	-			19	100.88	100.88	100.88	100.88	100.88
GLOB1319H 7.2 L/ha	100.55	-	108.61	b	114.35	104.51	ab	100.48	-	103.77	b	96.50	-	101.57	106.77	-			19	100.71	100.71	100.71	100.71	100.71
Ref. Pro. 4 L/ha															104.81	-			1	104.81	104.81	104.81	104.81	104.81
Ref. Pro. 5 L/ha			96.36	ef	117.08	105.35	ab	101.55	-										6	102.47	102.47	102.47	102.47	102.47
Ref. Pro. 8 L/ha																			1	102.92	102.92	102.92	102.92	102.92
Ref. Pro. 10 L/ha			102.40	c	113.44	104.75	ab	98.64	-						102.92	-			6	102.97	102.97	102.97	102.97	102.97
Ref. Acl. 3 L/ha	103.23	-																	3	100.07	100.07	100.07	100.07	100.07
Ref. Acl. 4 L/ha										100.66	b	99.00	-	95.33					9	100.10	100.10	100.10	100.10	100.10
Ref. Acl. 6 L/ha	101.86	-																	3	101.65	101.65	101.65	101.65	101.65
Ref. Acl. 8 L/ha										99.74	b	98.95	-	100.51					9	99.42	99.42	99.42	99.42	99.42

Crop Code Part Rated	SUMMARY MAR						SUMMARY CZ/DE						SUMMARY MED						SUMMARY S-E					
	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED (g)	8	39.00	39.00	39.00	39.00	39.00	8	39.00	39.00	39.00	39.00	39.00	8	54.88	54.88	54.88	54.88	54.88	3	46.44	46.44	46.44	46.44	46.44
GLOB1319H 3.6 L/ha	8	100.81	100.81	100.81	100.81	100.81	8	100.81	100.81	100.81	100.81	100.81	8	101.08	101.08	101.08	101.08	101.08	3	100.55	100.55	100.55	100.55	100.55
GLOB1319H 7.2 L/ha	8	104.57	104.57	104.57	104.57	104.57	8	104.57	104.57	104.57	104.57	104.57	8	98.17	98.17	98.17	98.17	98.17	3	97.21	97.21	97.21	97.21	97.21
Ref. Pro. 4 L/ha	1	104.81	104.81	104.81	104.81	104.81	1	104.81	104.81	104.81	104.81	104.81	1	104.81	104.81	104.81	104.81	104.81						
Ref. Pro. 5 L/ha	4	105.09	105.09	105.09	105.09	105.09	4	105.09	105.09	105.09	105.09	105.09							2	97.25	97.25	97.25	97.25	97.25
Ref. Pro. 8 L/ha	1	102.92	102.92	102.92	102.92	102.92	1	102.92	102.92	102.92	102.92	102.92												
Ref. Pro. 10 L/ha	4	104.81	104.81	104.81	104.81	104.81	4	104.81	104.81	104.81	104.81	104.81							2	99.28	99.28	99.28	99.28	99.28
Ref. Acl. 3 L/ha													3	100.07	100.07	100.07	100.07	100.07						
Ref. Acl. 4 L/ha	3	98.33	98.33	98.33	98.33	98.33	3	98.33	98.33	98.33	98.33	98.33	5	100.75	100.75	100.75	100.75	100.75	1	102.14	102.14	102.14	102.14	102.14
Ref. Acl. 6 L/ha													3	101.65	101.65	101.65	101.65	101.65						
Ref. Acl. 8 L/ha	3	99.73	99.73	99.73	99.73	99.73	3	99.73	99.73	99.73	99.73	99.73	5	98.47	98.47	98.47	98.47	98.47	1	103.21	103.21	103.21	103.21	103.21

**Conclusion**

The results of the crop safety trials presented above demonstrate that GLOB1912H does not cause any negative effects on yield quality at the maximum requested dose rate of 3.2 L/ha.

### 3.4.3.3 Results of selectivity trials performed for the pre-emergence use on winter cereals

**Table 3.4-30 Thousand Kernel Weight (g) as %UNCK**

PRE-EMERGENCE APPL.		KCP 6.4-02	KCP 6.4-08	KCP 6.4-12	KCP 6.4-29	KCP 6.4-32	KCP 6.4-34	SUMMARY					
Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	n	Mean	Min	Max	Med.	Stdev.
Part Rated	TKW	TKW	TKW	TKW	TKW	TKW	TKW						
UNTREATED		44.5 -	42.88 -	35.65 -	37.69 -	35.18 -	37.28 -	6	38.9	35.2	44.5	37.5	3.9
GLOB1912H 3.2 L/ha		97.21 -	98.78 -	98.14 -	100.23 -	101.56 -	101.42 -	6	99.6	97.2	101.6	99.5	1.8
GLOB1912H 6.4 L/ha		99.82 -	99.53 -	98.97 -	100.69 -	96.98 -	96.54 -	6	98.8	96.5	100.7	99.3	1.6
Ref. Pro. 5 L/ha		94.95 -						1	95.0	95.0	95.0	95.0	-
Ref. Pro. 10 L/ha		96.74 -						1	96.7	96.7	96.7	96.7	-
Jura EC 4 L/ha			98.27 -	100.33 -	100.63 -			3	99.7	98.3	100.6	100.3	1.3
Jura EC 8 L/ha			98.97 -	97.88 -	99.86 -			3	98.9	97.9	99.9	99.0	1.0
Ref. Dif. Flu. 0.3 L/ha						100.82 -		1	100.8	100.8	100.8	100.8	-
Ref. Dif. Flu. 0.6 L/ha						100.49 -	102.36 -	2	101.4	100.5	102.4	101.4	1.3
Ref. Dif. Flu. 1.2 L/ha							97.96 -	1	98.0	98.0	98.0	98.0	-
PRE-EMERGENCE APPL.		KCP 6.4-01	KCP 6.4-07	KCP 6.4-11	KCP 6.4-28	KCP 6.4-35	SUMMARY						
Crop Code	HORVW	HORVW	HORVW	HORVW	HORVW	SUMMARY							
Part Rated	TKW	TKW	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.		
UNTREATED		42.11 -	43.33 e	49.43 -	53.62 d	45.53 b	5	46.8	42.1	53.6	45.5	4.7	
GLOB1912H 3.2 L/ha		103.96 -	107.7 bc	99.03 -	101.27 bcd	100.15 b	5	102.4	99.0	107.7	101.3	3.5	
GLOB1912H 6.4 L/ha		105.45 -	111.38 b	99.49 -	102.91 abc	99.53 b	5	103.8	99.5	111.4	102.9	4.9	
Ref. Pro. 5 L/ha		101 -					1	101.0	101.0	101.0	101.0	-	
Ref. Pro. 10 L/ha		99.69 -					1	99.7	99.7	99.7	99.7	-	
Jura EC 4 L/ha			108.74 bc	99.39 -	104 ab		3	104.0	99.4	108.7	104.0	4.7	
Jura EC 8 L/ha			115.45 a	101.22 -	103.31 ab		3	106.7	101.2	115.5	103.3	7.7	
Ref. Dif. Flu. 0.6 L/ha						99.73 b	1	99.7	99.7	99.7	99.7	-	
Ref. Dif. Flu. 1.2 L/ha						99.84 b	1	99.8	99.8	99.8	99.8	-	
PRE-EMERGENCE APPL.		KCP 6.4-05	KCP 6.4-09	KCP 6.4-13	KCP 6.4-30	SUMMARY							
Crop Code	TTLWI	TTLWI	TTLWI	TTLWI	SUMMARY								
Part Rated	TKW	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.			
UNTREATED		36.54 -	45.41 -	32.95 -	30.81 -	4	36.4	30.8	45.4	34.7	6.4		
GLOB1912H 3.2 L/ha		103.62 -	100.44 -	101.36 -	101.19 -	4	101.7	100.4	103.6	101.3	1.4		
GLOB1912H 6.4 L/ha		102.59 -	100.53 -	100.2 -	101.91 -	4	101.3	100.2	102.6	101.2	1.1		
Ref. Pro. 5 L/ha		103.88 -				1	103.9	103.9	103.9	103.9	-		
Ref. Pro. 10 L/ha		100.08 -				1	100.1	100.1	100.1	100.1	-		
Jura EC 4 L/ha			100.18 -	97.39 -	97.24 -	3	98.3	97.2	100.2	97.4	1.7		
Jura EC 8 L/ha			99.96 -	99.86 -	99.69 -	3	99.8	99.7	100.0	99.9	0.1		

PRE-EMERGENCE APPL. TRZAW TKW																									
Crop Code		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	41.0	35.7	44.5	42.9	4.7	1	37.7	37.7	37.7	37.7	-	3	38.7	35.7	42.9	37.7	3.7	2	36.2	35.2	37.3	36.2	1.5
GLOB1912H	3.2 L/ha	3	98.0	97.2	98.8	98.1	0.8	1	100.2	100.2	100.2	100.2	-	3	99.1	98.1	100.2	98.8	1.1	2	101.5	101.4	101.6	101.5	0.1
GLOB1912H	6.4 L/ha	3	99.4	99.0	99.8	99.5	0.4	1	100.7	100.7	100.7	100.7	-	3	99.7	99.0	100.7	99.5	0.9	2	96.8	96.5	97.0	96.8	0.3
Ref. Pro.	5 L/ha	1	95.0	95.0	95.0	95.0	-																		
Ref. Pro.	10 L/ha	1	96.7	96.7	96.7	96.7	-																		
Jura EC	4 L/ha	2	99.3	98.3	100.3	99.3	1.5	1	100.6	100.6	100.6	100.6	-	3	99.7	98.3	100.6	100.3	1.3						
Jura EC	8 L/ha	2	98.4	97.9	99.0	98.4	0.8	1	99.9	99.9	99.9	99.9	-	3	98.9	97.9	99.9	99.0	1.0						
Ref. Dif. Flu.	0.3 L/ha																			1	100.8	100.8	100.8	100.8	-
Ref. Dif. Flu.	0.6 L/ha																			2	101.4	100.5	102.4	101.4	1.3
Ref. Dif. Flu.	1.2 L/ha																			1	98.0	98.0	98.0	98.0	-
PRE-EMERGENCE APPL. HORVW TKW																									
Crop Code		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	45.0	42.1	49.4	43.3	3.9	1	53.6	53.6	53.6	53.6	-	3	48.8	43.3	53.6	49.4	5.2	1	45.5	45.5	45.5	45.5	-
GLOB1912H	3.2 L/ha	3	103.6	99.0	107.7	104.0	4.3	1	101.3	101.3	101.3	101.3	-	3	102.7	99.0	107.7	101.3	4.5	1	100.2	100.2	100.2	100.2	-
GLOB1912H	6.4 L/ha	3	105.4	99.5	111.4	105.5	5.9	1	102.9	102.9	102.9	102.9	-	3	104.6	99.5	111.4	102.9	6.1	1	99.5	99.5	99.5	99.5	-
Ref. Pro.	5 L/ha	1	101.0	101.0	101.0	101.0	-																		
Ref. Pro.	10 L/ha	1	99.7	99.7	99.7	99.7	-																		
Jura EC	4 L/ha	2	104.1	99.4	108.7	104.1	6.6	1	104.0	104.0	104.0	104.0	-	3	104.0	99.4	108.7	104.0	4.7						
Jura EC	8 L/ha	2	108.3	101.2	115.5	108.3	10.1	1	103.3	103.3	103.3	103.3	-	3	106.7	101.2	115.5	103.3	7.7						
Ref. Dif. Flu.	0.6 L/ha																			1	99.7	99.7	99.7	99.7	-
Ref. Dif. Flu.	1.2 L/ha																			1	99.8	99.8	99.8	99.8	-
PRE-EMERGENCE APPL. TTLWI TKW																									
Crop Code		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE											
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.						
UNTREATED		3	38.3	33.0	45.4	36.5	6.4	1	30.8	30.8	30.8	30.8	-	3	36.4	30.8	45.4	33.0	7.9						
GLOB1912H	3.2 L/ha	3	101.8	100.4	103.6	101.4	1.6	1	101.2	101.2	101.2	101.2	-	3	101.0	100.4	101.4	101.2	0.5						
GLOB1912H	6.4 L/ha	3	101.1	100.2	102.6	100.5	1.3	1	101.9	101.9	101.9	101.9	-	3	100.9	100.2	101.9	100.5	0.9						
Ref. Pro.	5 L/ha	1	103.9	103.9	103.9	103.9	-																		
Ref. Pro.	10 L/ha	1	100.1	100.1	100.1	100.1	-																		
Jura EC	4 L/ha	2	98.8	97.4	100.2	98.8	2.0	1	97.2	97.2	97.2	97.2	-	3	98.3	97.2	100.2	97.4	1.7						
Jura EC	8 L/ha	2	99.9	99.9	100.0	99.9	0.1	1	99.7	99.7	99.7	99.7	-	3	99.8	99.7	100.0	99.9	0.1						

PRE-EMERGENCE APPL.	KCP 6.4-03	KCP 6.4-04	KCP 6.4-33	KCP 6.4-36	KCP 6.4-37						
Crop Code	TRZDW	TRZDW	TRZDW	TRZDW	TRZDW	SUMMARY					
Part Rated	TKW	TKW	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.
UNTREATED	40.98 -	37.87 -	41.35 -	44.5 -	41.5 -	5	41.2	37.9	44.5	41.4	2.4
GLOB1912H 3.2 L/ha	98.1 -	99.86 -	98.92 -	102.29 -	98.21 -	5	99.5	98.1	102.3	98.9	1.7
GLOB1912H 6.4 L/ha	104.73 -	100.21 -	101.95 -	100.48 -	97.17 -	5	100.9	97.2	104.7	100.5	2.8
Ref. Pro. 5 L/ha	104.7 -	100.61 -				2	102.7	100.6	104.7	102.7	2.9
Ref. Pro. 10 L/ha	103.18 -	99.05 -				2	101.1	99.1	103.2	101.1	2.9
Ref. Dif. Flu. 0.6 L/ha			97.75 -	101.45 -	98.95 -	3	99.4	97.8	101.5	99.0	1.9
Ref. Dif. Flu. 1.2 L/ha			105.03 -	102.22 -	94.88 -	3	100.7	94.9	105.0	102.2	5.2
PRE-EMERGENCE APPL.	KCP 6.4-06	KCP 6.4-10	KCP 6.4-31								
Crop Code	SECCW	SECCW	SECCW	SUMMARY							
Part Rated	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.		
UNTREATED	40.68 -	37.78 -	24.6 -	3	34.4	24.6	40.7	37.8	8.6		
GLOB1912H 3.2 L/ha	101.42 -	100.13 -	100.45 -	3	100.7	100.1	101.4	100.5	0.7		
GLOB1912H 6.4 L/ha	100.85 -	99.94 -	96.68 -	3	99.2	96.7	100.9	99.9	2.2		
Ref. Pro. 3 L/ha	103.04 -			1	103.0	103.0	103.0	103.0	-		
Ref. Pro. 6 L/ha	111.06 -			1	111.1	111.1	111.1	111.1	-		
Jura EC 4 L/ha		100.67 -	101.48 -	2	101.1	100.7	101.5	101.1	0.6		
Jura EC 8 L/ha		100.86 -	95.58 -	2	98.2	95.6	100.9	98.2	3.7		
PRE-EMERGENCE APPL.	KCP 6.4-75	KCP 6.4-76	KCP 6.4-77								
Crop Code	TRZSP	TRZSP	TRZSP	SUMMARY							
Part Rated	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.		
UNTREATED	42.15 a	44.6 a	42.48 a	3	43.1	42.2	44.6	42.5	1.3		
GLOB1912H 3.2 L/ha	105.49 a	99.89 a	100.06 a	3	101.8	99.9	105.5	100.1	3.2		
GLOB1912H 6.4 L/ha	103.62 a	99.22 a	98.43 a	3	100.4	98.4	103.6	99.2	2.8		
Ref. Dif. Flu. 0.6 L/ha	110.3 a		100.67 a	2	105.5	100.7	110.3	105.5	6.8		
Ref. Dif. Flu. 1.2 L/ha	107.68 a		101.58 a	2	104.6	101.6	107.7	104.6	4.3		
Difflanil 500 SC 0.4 L/ha		100 a		1	100.0	100.0	100.0	100.0	-		
Difflanil 500 SC 0.8 L/ha		100.23 a		1	100.2	100.2	100.2	100.2	-		

PRE-EMERGENCE APPL. TRZDW TKW		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
Crop Code	Part Rated	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		2	39.4	37.9	41.0	39.4	2.2													3	42.5	41.4	44.5	41.5	1.8
GLOB1912H	3.2 L/ha	2	99.0	98.1	99.9	99.0	1.2													3	99.8	98.2	102.3	98.9	2.2
GLOB1912H	6.4 L/ha	2	102.5	100.2	104.7	102.5	3.2													3	99.9	97.2	102.0	100.5	2.4
Ref. Pro.	5 L/ha	2	102.7	100.6	104.7	102.7	2.9																		
Ref. Pro.	10 L/ha	2	101.1	99.1	103.2	101.1	2.9																		
Ref. Dif. Flu.	0.6 L/ha																			3	99.4	97.8	101.5	99.0	1.9
Ref. Dif. Flu.	1.2 L/ha																			3	100.7	94.9	105.0	102.2	5.2
PRE-EMERGENCE APPL. SECCW TKW		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE											
Crop Code	Part Rated	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		2	39.2	37.8	40.7	39.2	2.1	1	24.6	24.6	24.6	24.6	-	2	31.2	24.6	37.8	31.2	9.3						
GLOB1912H	3.2 L/ha	2	100.8	100.1	101.4	100.8	0.9	1	100.5	100.5	100.5	100.5	-	2	100.3	100.1	100.5	100.3	0.2						
GLOB1912H	6.4 L/ha	2	100.4	99.9	100.9	100.4	0.6	1	96.7	96.7	96.7	96.7	-	2	98.3	96.7	99.9	98.3	2.3						
Ref. Pro.	3 L/ha	1	103.0	103.0	103.0	103.0	-																		
Ref. Pro.	6 L/ha	1	111.1	111.1	111.1	111.1	-																		
Jura EC	4 L/ha	1	100.7	100.7	100.7	100.7	-	1	101.5	101.5	101.5	101.5	-	2	101.1	100.7	101.5	101.1	0.6						
Jura EC	8 L/ha	1	100.9	100.9	100.9	100.9	-	1	95.6	95.6	95.6	95.6	-	2	98.2	95.6	100.9	98.2	3.7						
PRE-EMERGENCE APPL. TRZSP TKW		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE											
Crop Code	Part Rated	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	43.1	42.2	44.6	42.5	1.3							2	43.5	42.5	44.6	43.5	1.5						
GLOB1912H	3.2 L/ha	3	101.8	99.9	105.5	100.1	3.2							2	100.0	99.9	100.1	100.0	0.1						
GLOB1912H	6.4 L/ha	3	100.4	98.4	103.6	99.2	2.8							2	98.8	98.4	99.2	98.8	0.6						
Ref. Dif. Flu.	0.6 L/ha	2	105.5	100.7	110.3	105.5	6.8							1	100.7	100.7	100.7	100.7	-						
Ref. Dif. Flu.	1.2 L/ha	2	104.6	101.6	107.7	104.6	4.3							1	101.6	101.6	101.6	101.6	-						
Diffanil 500 SC	0.4 L/ha	1	100.0	100.0	100.0	100.0	-							1	100.0	100.0	100.0	100.0	-						
Diffanil 500 SC	0.8 L/ha	1	100.2	100.2	100.2	100.2	-							1	100.2	100.2	100.2	100.2	-						

**Table 3.4-31 Moisture content (%) as %UNCK**

PRE-EMERGENCE APPL.		KCP 6.4-02	KCP 6.4-08	KCP 6.4-12	KCP 6.4-29	KCP 6.4-32	KCP 6.4-34						
Crop Code		TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	SUMMARY					
Part Rated		MOICON	MOICON	MOICON	MOICON	MOICON	MOICON	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		16.4 -	13.35 -	14.45 -	15.15 -	13.24 -	14.25 -	6	14.5	13.2	16.4	14.4	1.2
GLOB1912H	3.2 L/ha	99.21 -	100.65 -	99.49 -	102.22 -	103.84 -	99.65 -	6	100.8	99.2	103.8	100.1	1.8
GLOB1912H	6.4 L/ha	99.1 -	99.83 -	99.83 -	98.47 -	103.2 -	103.72 -	6	100.7	98.5	103.7	99.8	2.2
Ref. Pro.	5 L/ha	99.66 -						1	99.7	99.7	99.7	99.7	-
Ref. Pro.	10 L/ha	98.7 -						1	98.7	98.7	98.7	98.7	-
Jura EC	4 L/ha		101.27 -	99.32 -	100.49 -			3	100.4	99.3	101.3	100.5	1.0
Jura EC	8 L/ha		100.01 -	99.66 -	98.18 -			3	99.3	98.2	100.0	99.7	1.0
Ref. Dif. Flu.	0.3 L/ha					101.56 -		1	101.6	101.6	101.6	101.6	-
Ref. Dif. Flu.	0.6 L/ha					99.22 -	102.81 -	2	101.0	99.2	102.8	101.0	2.5
Ref. Dif. Flu.	1.2 L/ha						101.61 -	1	101.6	101.6	101.6	101.6	-
PRE-EMERGENCE APPL.		KCP 6.4-01	KCP 6.4-07	KCP 6.4-11	KCP 6.4-28	KCP 6.4-35							
Crop Code		HORVW	HORVW	HORVW	HORVW	HORVW	SUMMARY						
Part Rated		MOICON	MOICON	MOICON	MOICON	MOICON	n	Mean	Min	Max	Med.	Stdev.	
UNTREATED		12.39 -	12.35 -	16.05 -	14.93 -	10.82 b	5	13.3	10.8	16.1	12.4	2.1	
GLOB1912H	3.2 L/ha	100.68 -	100.84 -	96.03 -	97.84 -	100.59 b	5	99.2	96.0	100.8	100.6	2.2	
GLOB1912H	6.4 L/ha	101.28 -	102.26 -	99.62 -	97.83 -	101.23 b	5	100.4	97.8	102.3	101.2	1.7	
Ref. Pro.	5 L/ha	100.3 -					1	100.3	100.3	100.3	100.3	-	
Ref. Pro.	10 L/ha	100.32 -					1	100.3	100.3	100.3	100.3	-	
Jura EC	4 L/ha		101.69 -	95.25 -	99.34 -		3	98.8	95.3	101.7	99.3	3.3	
Jura EC	8 L/ha		101.24 -	98.16 -	100.37 -		3	99.9	98.2	101.2	100.4	1.6	
Ref. Dif. Flu.	0.6 L/ha					101.33 b	1	101.3	101.3	101.3	101.3	-	
Ref. Dif. Flu.	1.2 L/ha					101.02 b	1	101.0	101.0	101.0	101.0	-	
PRE-EMERGENCE APPL.		KCP 6.4-05	KCP 6.4-09	KCP 6.4-13	KCP 6.4-30								
Crop Code		TTLWI	TTLWI	TTLWI	TTLWI	SUMMARY							
Part Rated		MOICON	MOICON	MOICON	MOICON	n	Mean	Min	Max	Med.	Stdev.		
UNTREATED		18.03 -	14.03 -	11.38 -	12.45 -	4	14.0	11.4	18.0	13.2	2.9		
GLOB1912H	3.2 L/ha	100.15 -	101.09 -	107.23 -	99.84 -	4	102.1	99.8	107.2	100.6	3.5		
GLOB1912H	6.4 L/ha	99.86 -	100.02 -	102.92 -	99.84 -	4	100.7	99.8	102.9	99.9	1.5		
Ref. Pro.	5 L/ha	100.14 -				1	100.1	100.1	100.1	100.1	-		
Ref. Pro.	10 L/ha	99.86 -				1	99.9	99.9	99.9	99.9	-		
Jura EC	4 L/ha		101.44 -	106.12 -	99.60 -	3	102.4	99.6	106.1	101.4	3.4		
Jura EC	8 L/ha		101.1 -	103.8 -	99.44 -	3	101.4	99.4	103.8	101.1	2.2		

PRE-EMERGENCE APPL. TRZAW MOICON																									
Crop Code		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	14.7	13.4	16.4	14.5	1.5	1	15.2	15.2	15.2	15.2	-	3	14.3	13.4	15.2	14.5	0.9	2	13.7	13.2	14.3	13.7	0.7
GLOB1912H	3.2 L/ha	3	99.8	99.2	100.7	99.5	0.8	1	102.2	102.2	102.2	102.2	-	3	100.8	99.5	102.2	100.7	1.4	2	101.7	99.6	103.8	101.7	3.0
GLOB1912H	6.4 L/ha	3	99.6	99.1	99.8	99.8	0.4	1	98.5	98.5	98.5	98.5	-	3	99.4	98.5	99.8	99.8	0.8	2	103.5	103.2	103.7	103.5	0.4
Ref. Pro.	5 L/ha	1	99.7	99.7	99.7	99.7	-																		
Ref. Pro.	10 L/ha	1	98.7	98.7	98.7	98.7	-																		
Jura EC	4 L/ha	2	100.3	99.3	101.3	100.3	1.4	1	100.5	100.5	100.5	100.5	-	3	100.4	99.3	101.3	100.5	1.0						
Jura EC	8 L/ha	2	99.8	99.7	100.0	99.8	0.2	1	98.2	98.2	98.2	98.2	-	3	99.3	98.2	100.0	99.7	1.0						
Ref. Dif. Flu.	0.3 L/ha																			1	101.6	101.6	101.6	101.6	-
Ref. Dif. Flu.	0.6 L/ha																			2	101.0	99.2	102.8	101.0	2.5
Ref. Dif. Flu.	1.2 L/ha																			1	101.6	101.6	101.6	101.6	-
PRE-EMERGENCE APPL. HORVW MOICON																									
Crop Code		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	13.6	12.4	16.1	12.4	2.1	1	14.9	14.9	14.9	14.9	-	3	14.4	12.4	16.1	14.9	1.9	1	10.8	10.8	10.8	10.8	-
GLOB1912H	3.2 L/ha	3	99.2	96.0	100.8	100.7	2.7	1	97.8	97.8	97.8	97.8	-	3	98.2	96.0	100.8	97.8	2.4	1	100.6	100.6	100.6	100.6	-
GLOB1912H	6.4 L/ha	3	101.1	99.6	102.3	101.3	1.3	1	97.8	97.8	97.8	97.8	-	3	99.9	97.8	102.3	99.6	2.2	1	101.2	101.2	101.2	101.2	-
Ref. Pro.	5 L/ha	1	100.3	100.3	100.3	100.3	-																		
Ref. Pro.	10 L/ha	1	100.3	100.3	100.3	100.3	-																		
Jura EC	4 L/ha	2	98.5	95.3	101.7	98.5	4.6	1	99.3	99.3	99.3	99.3	-	3	98.8	95.3	101.7	99.3	3.3						
Jura EC	8 L/ha	2	99.7	98.2	101.2	99.7	2.2	1	100.4	100.4	100.4	100.4	-	3	99.9	98.2	101.2	100.4	1.6						
Ref. Dif. Flu.	0.6 L/ha																			1	101.3	101.3	101.3	101.3	-
Ref. Dif. Flu.	1.2 L/ha																			1	101.0	101.0	101.0	101.0	-
PRE-EMERGENCE APPL. TTLWI MOICON																									
Crop Code		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE											
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.						
UNTREATED		3	14.5	11.4	18.0	14.0	3.3	1	12.5	12.5	12.5	12.5	-	3	12.6	11.4	14.0	12.5	1.3						
GLOB1912H	3.2 L/ha	3	102.8	100.2	107.2	101.1	3.8	1	99.8	99.8	99.8	99.8	-	3	102.7	99.8	107.2	101.1	4.0						
GLOB1912H	6.4 L/ha	3	100.9	99.9	102.9	100.0	1.7	1	99.8	99.8	99.8	99.8	-	3	100.9	99.8	102.9	100.0	1.7						
Ref. Pro.	5 L/ha	1	100.1	100.1	100.1	100.1	-																		
Ref. Pro.	10 L/ha	1	99.9	99.9	99.9	99.9	-																		
Jura EC	4 L/ha	2	103.8	101.4	106.1	103.8	3.3	1	99.6	99.6	99.6	99.6	-	3	102.4	99.6	106.1	101.4	3.4						
Jura EC	8 L/ha	2	102.5	101.1	103.8	102.5	1.9	1	99.4	99.4	99.4	99.4	-	3	101.4	99.4	103.8	101.1	2.2						

PRE-EMERGENCE APPL.	KCP 6.4-03	KCP 6.4-04	KCP 6.4-33	KCP 6.4-36	KCP 6.4-37							
Crop Code	TRZDW	TRZDW	TRZDW	TRZDW	TRZDW		SUMMARY					
Part Rated	MOICON	MOICON	MOICON	MOICON	MOICON		n	Mean	Min	Max	Med.	Stdev.
UNTREATED	15.4 -	11.1 -	13.66 -	9.62 -	10.83 -		5	12.1	9.6	15.4	11.1	2.3
GLOB1912H 3.2 L/ha	94.88 -	101.38 -	102.34 -	100.42 -	98.6 -		5	99.5	94.9	102.3	100.4	2.9
GLOB1912H 6.4 L/ha	97.08 -	102.5 -	105.93 -	100.27 -	99.61 -		5	101.1	97.1	105.9	100.3	3.3
Ref. Pro. 5 L/ha	99.61 -	101.83 -					2	100.7	99.6	101.8	100.7	1.6
Ref. Pro. 10 L/ha	98.37 -	101.6 -					2	100.0	98.4	101.6	100.0	2.3
Ref. Dif. Flu. 0.6 L/ha			99.9 -	98.12 -	100.2 -		3	99.4	98.1	100.2	99.9	1.1
Ref. Dif. Flu. 1.2 L/ha			98.16 -	105.78 -	100.45 -		3	101.5	98.2	105.8	100.5	3.9
PRE-EMERGENCE APPL.	KCP 6.4-06	KCP 6.4-10	KCP 6.4-31									
Crop Code	SECCW	SECCW	SECCW				SUMMARY					
Part Rated	MOICON	MOICON	MOICON				n	Mean	Min	Max	Med.	Stdev.
UNTREATED	20.1 -	9.48 -	14.55 -				3	14.7	9.5	20.1	14.6	5.3
GLOB1912H 3.2 L/ha	98.17 -	99.33 -	100.7 -				3	99.4	98.2	100.7	99.3	1.3
GLOB1912H 6.4 L/ha	101.58 -	101.6 -	96.91 -				3	100.0	96.9	101.6	101.6	2.7
Ref. Pro. 3 L/ha	108.3 -						1	108.3	108.3	108.3	108.3	-
Ref. Pro. 6 L/ha	95.18 -						1	95.2	95.2	95.2	95.2	-
Jura EC 4 L/ha		100.05 -	99.24 -				2	99.6	99.2	100.1	99.6	0.6
Jura EC 8 L/ha		98.73 -	101.57 -				2	100.2	98.7	101.6	100.2	2.0
PRE-EMERGENCE APPL.	KCP 6.4-75	KCP 6.4-76	KCP 6.4-77									
Crop Code	TRZSP	TRZSP	TRZSP				SUMMARY					
Part Rated	MOICON	MOICON	MOICON				n	Mean	Min	Max	Med.	Stdev.
UNTREATED	12.08 a	10.55 b	16.78 a				3	13.1	10.6	16.8	12.1	3.2
GLOB1912H 3.2 L/ha	99.59 a	106.73 a	97.79 a				3	101.4	97.8	106.7	99.6	4.7
GLOB1912H 6.4 L/ha	99.81 a	106.64 a	96.93 a				3	101.1	96.9	106.6	99.8	5.0
Ref. Dif. Flu. 0.6 L/ha	99.8 a		114.54 a				2	107.2	99.8	114.5	107.2	10.4
Ref. Dif. Flu. 1.2 L/ha	99.8 a		109.97 a				2	104.9	99.8	110.0	104.9	7.2
Diflanil 500 SC 0.4 L/ha		103.29 ab					1	103.3	103.3	103.3	103.3	-
Diflanil 500 SC 0.8 L/ha		102.5 ab					1	102.5	102.5	102.5	102.5	-

PRE-EMERGENCE APPL. TRZDW MOICON																				
Crop Code		SUMMARY MAR												SUMMARY MED						
Part Rated		n	Mean	Min	Max	Med.	Stdev.								n	Mean	Min	Max	Med.	Stdev.
UNTREATED		2	13.3	11.1	15.4	13.3	3.0								3	11.4	9.6	13.7	10.8	2.1
GLOB1912H	3.2 L/ha	2	98.1	94.9	101.4	98.1	4.6								3	100.5	98.6	102.3	100.4	1.9
GLOB1912H	6.4 L/ha	2	99.8	97.1	102.5	99.8	3.8								3	101.9	99.6	105.9	100.3	3.5
Ref. Pro.	5 L/ha	2	100.7	99.6	101.8	100.7	1.6													
Ref. Pro.	10 L/ha	2	100.0	98.4	101.6	100.0	2.3													
Ref. Dif. Flu.	0.6 L/ha														3	99.4	98.1	100.2	99.9	1.1
Ref. Dif. Flu.	1.2 L/ha														3	101.5	98.2	105.8	100.5	3.9
PRE-EMERGENCE APPL. SECCW MOICON																				
Crop Code		SUMMARY MAR					SUMMARY PL					SUMMARY PL + CZ/DE								
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	
UNTREATED		2	14.8	9.5	20.1	14.8	7.5	1	14.6	14.6	14.6	14.6	-	2	12.0	9.5	14.6	12.0	3.6	
GLOB1912H	3.2 L/ha	2	98.8	98.2	99.3	98.8	0.8	1	100.7	100.7	100.7	100.7	-	2	100.0	99.3	100.7	100.0	1.0	
GLOB1912H	6.4 L/ha	2	101.6	101.6	101.6	101.6	0.0	1	96.9	96.9	96.9	96.9	-	2	99.3	96.9	101.6	99.3	3.3	
Ref. Pro.	3 L/ha	1	108.3	108.3	108.3	108.3	-													
Ref. Pro.	6 L/ha	1	95.2	95.2	95.2	95.2	-													
Jura EC	4 L/ha	1	100.1	100.1	100.1	100.1	-	1	99.2	99.2	99.2	99.2	-	2	99.6	99.2	100.1	99.6	0.6	
Jura EC	8 L/ha	1	98.7	98.7	98.7	98.7	-	1	101.6	101.6	101.6	101.6	-	2	100.2	98.7	101.6	100.2	2.0	
PRE-EMERGENCE APPL. TRZSP MOICON																				
Crop Code		SUMMARY MAR												SUMMARY PL + CZ/DE						
Part Rated		n	Mean	Min	Max	Med.	Stdev.								n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	13.1	10.6	16.8	12.1	3.2								2	13.7	10.6	16.8	13.7	4.4
GLOB1912H	3.2 L/ha	3	101.4	97.8	106.7	99.6	4.7								2	102.3	97.8	106.7	102.3	6.3
GLOB1912H	6.4 L/ha	3	101.1	96.9	106.6	99.8	5.0								2	101.8	96.9	106.6	101.8	6.9
Ref. Dif. Flu.	0.6 L/ha	2	107.2	99.8	114.5	107.2	10.4								1	114.5	114.5	114.5	114.5	-
Ref. Dif. Flu.	1.2 L/ha	2	104.9	99.8	110.0	104.9	7.2								1	110.0	110.0	110.0	110.0	-
Diflanil 500 SC	0.4 L/ha	1	103.3	103.3	103.3	103.3	-								1	103.3	103.3	103.3	103.3	-
Diflanil 500 SC	0.8 Lha	1	102.5	102.5	102.5	102.5	-								1	102.5	102.5	102.5	102.5	-

**Table 3.4-32 Hectolitre Weight (kg) as %UNCK**

PRE-EMERGENCE APPL.		KCP 6.4-02		KCP 6.4-29		SUMMARY					
Crop Code	Part Rated	TRZAW	TRZAW			n	Mean	Min	Max	Med.	Stdev.
		HLW	HLW								
UNTREATED		69.83	69.85	-		2	69.8	69.8	69.9	69.8	0.0
GLOB1912H	3.2 L/ha	99.74	102.02	-		2	100.9	99.7	102.0	100.9	1.6
GLOB1912H	6.4 L/ha	100.11	101.71	-		2	100.9	100.1	101.7	100.9	1.1
Ref. Pro.	5 L/ha	99.24		-		1	99.2	99.2	99.2	99.2	-
Ref. Pro.	10 L/ha	99.46		-		1	99.5	99.5	99.5	99.5	-
Jura EC	4 L/ha		101.65	-		1	101.7	101.7	101.7	101.7	-
Jura EC	8 L/ha		98.22	-		1	98.2	98.2	98.2	98.2	-
PRE-EMERGENCE APPL.		KCP 6.4-28		SUMMARY							
Crop Code	Part Rated	HORVW				n	Mean	Min	Max	Med.	Stdev.
		HLW	HLW								
UNTREATED		66.08		-		1	66.1	66.1	66.1	66.1	-
GLOB1912H	3.2 L/ha	100.71		-		1	100.7	100.7	100.7	100.7	-
GLOB1912H	6.4 L/ha	99.80		-		1	99.8	99.8	99.8	99.8	-
Jura EC	4 L/ha	101.44		-		1	101.4	101.4	101.4	101.4	-
Jura EC	8 L/ha	101.29		-		1	101.3	101.3	101.3	101.3	-
PRE-EMERGENCE APPL.		KCP 6.4-33		SUMMARY							
Crop Code	Part Rated	TRZDW				n	Mean	Min	Max	Med.	Stdev.
		HLW	HLW								
UNTREATED		74.52		-		1	74.5	74.5	74.5	74.5	-
GLOB1912H	3.2 L/ha	72.05		-		1	72.1	72.1	72.1	72.1	-
GLOB1912H	6.4 L/ha	71.79		-		1	71.8	71.8	71.8	71.8	-
Ref. Dif. Flu.	0.6 L/ha	73.99		-		1	74.0	74.0	74.0	74.0	-
Ref. Dif. Flu.	1.2 L/ha	72.73		-		1	72.7	72.7	72.7	72.7	-
PRE-EMERGENCE APPL.		KCP 6.4-06		SUMMARY							
Crop Code	Part Rated	SECCW				n	Mean	Min	Max	Med.	Stdev.
		HLW	HLW								
UNTREATED		73.9		-		1	73.9	73.9	73.9	73.9	-
GLOB1912H	3.2 L/ha	99.49		-		1	99.5	99.5	99.5	99.5	-
GLOB1912H	6.4 L/ha	99.19		-		1	99.2	99.2	99.2	99.2	-
Ref. Pro.	3 L/ha	100.22		-		1	100.2	100.2	100.2	100.2	-
Ref. Pro.	6 L/ha	98.99		-		1	99.0	99.0	99.0	99.0	-

PRE-EMERGENCE APPL. TRZAW HLW																			
Crop Code		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE					
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		1	69.8	69.8	69.8	69.8	-	1	69.9	69.9	69.9	69.9	-	1	69.9	69.9	69.9	69.9	-
GLOB1912H	3.2 L/ha	1	99.7	99.7	99.7	99.7	-	1	102.0	102.0	102.0	102.0	-	1	102.0	102.0	102.0	102.0	-
GLOB1912H	6.4 L/ha	1	100.1	100.1	100.1	100.1	-	1	101.7	101.7	101.7	101.7	-	1	101.7	101.7	101.7	101.7	-
Ref. Pro.	5 L/ha	1	99.2	99.2	99.2	99.2	-												
Ref. Pro.	10 L/ha	1	99.5	99.5	99.5	99.5	-												
Jura EC	4 L/ha							1	101.7	101.7	101.7	101.7	-	1	101.7	101.7	101.7	101.7	-
Jura EC	8 L/ha							1	98.2	98.2	98.2	98.2	-	1	98.2	98.2	98.2	98.2	-
PRE-EMERGENCE APPL. HORVW HLW																			
Crop Code		SUMMARY PL						SUMMARY PL + CZ/DE											
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.						
UNTREATED		1	66.1	66.1	66.1	66.1	-	1	66.1	66.1	66.1	66.1	-						
GLOB1912H	3.2 L/ha	1	100.7	100.7	100.7	100.7	-	1	100.7	100.7	100.7	100.7	-						
GLOB1912H	6.4 L/ha	1	99.8	99.8	99.8	99.8	-	1	99.8	99.8	99.8	99.8	-						
Jura EC	4 L/ha	1	101.4	101.4	101.4	101.4	-	1	101.4	101.4	101.4	101.4	-						
Jura EC	8 L/ha	1	101.3	101.3	101.3	101.3	-	1	101.3	101.3	101.3	101.3	-						
PRE-EMERGENCE APPL. TRZDW HLW																			
Crop Code		SUMMARY MED																	
Part Rated		n	Mean	Min	Max	Med.	Stdev.												
UNTREATED		1	74.5	74.5	74.5	74.5	-												
GLOB1912H	3.2 L/ha	1	72.1	72.1	72.1	72.1	-												
GLOB1912H	6.4 L/ha	1	71.8	71.8	71.8	71.8	-												
Ref. Dif. Flu.	0.6 L/ha	1	74.0	74.0	74.0	74.0	-												
Ref. Dif. Flu.	1.2 L/ha	1	72.7	72.7	72.7	72.7	-												
PRE-EMERGENCE APPL. SECCW HLW																			
Crop Code		SUMMARY MAR																	
Part Rated		n	Mean	Min	Max	Med.	Stdev.												
UNTREATED		1	73.9	73.9	73.9	73.9	-												
GLOB1912H	3.2 L/ha	1	99.5	99.5	99.5	99.5	-												
GLOB1912H	6.4 L/ha	1	99.2	99.2	99.2	99.2	-												
Ref. Pro.	3 L/ha	1	100.2	100.2	100.2	100.2	-												
Ref. Pro.	6 L/ha	1	99.0	99.0	99.0	99.0	-												

### Conclusion

The results of the crop safety trials presented above demonstrate that GLOB1912H does not cause any negative effects on yield quality at the maximum requested dose rate of 3.2 L/ha.

### 3.4.3.4 Results of selectivity trials performed for the post-emergence use on winter cereals

**Table 3.4-33 Thousand Kernel Weight (g) as %UNCK**

POST-EMERGENCE APPL.	KCP 6.4-39	KCP 6.4-45	KCP 6.4-49	KCP 6.4-66	KCP 6.4-69	KCP 6.4-70						
Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	SUMMARY					
Part Rated	TKW	TKW	TKW	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.
UNTREATED	38.8 -	48.65 -	35.48 -	38.86 c	33.24 -	50.45 a	6	40.9	33.2	50.5	38.8	7.0
GLOB1912H 3.2 L/ha	101.42 -	100.45 -	99.23 -	102.66 abc	101.76 -	98.53 ab	6	100.7	98.5	102.7	100.9	1.6
GLOB1912H 6.4 L/ha	96.39 -	101.62 -	99.45 -	103.47 abc	96.72 -	100.3 a	6	99.7	96.4	103.5	99.9	2.8
Ref. Pro. 5 L/ha	98.52 -						1	98.5	98.5	98.5	98.5	-
Ref. Pro. 10 L/ha	98.16 -						1	98.2	98.2	98.2	98.2	-
Jura EC 4 L/ha		100.35 -	99.19 -	104.53 ab			3	101.4	99.2	104.5	100.4	2.8
Jura EC 8 L/ha		100.27 -	97.85 -	105.26 ab			3	101.1	97.9	105.3	100.3	3.8
Ref. Dif. Flu. 0.6 L/ha					101.48 -	96.24 b	2	98.9	96.2	101.5	98.9	3.7
Ref. Dif. Flu. 1.2 L/ha					99.56 -	95.37 b	2	97.5	95.4	99.6	97.5	3.0
POST-EMERGENCE APPL.	KCP 6.4-38	KCP 6.4-44	KCP 6.4-48	KCP 6.4-65	KCP 6.4-73							
Crop Code	HORVW	HORVW	HORVW	HORVW	HORVW	SUMMARY						
Part Rated	TKW	TKW	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.	
UNTREATED	44.75 -	49.72 -	36.65 -	42.6 -	54.69 -	5	45.7	36.7	54.7	44.8	6.9	
GLOB1912H 3.2 L/ha	99.47 -	100.7 -	100.38 -	100.19 -	102.28 -	5	100.6	99.5	102.3	100.4	1.0	
GLOB1912H 6.4 L/ha	101.7 -	100.75 -	92.83 -	100.14 -	101.08 -	5	99.3	92.8	101.7	100.8	3.7	
Ref. Pro. 5 L/ha	99.99 -					1	100.0	100.0	100.0	100.0	-	
Ref. Pro. 10 L/ha	100.61 -					1	100.6	100.6	100.6	100.6	-	
Jura EC 4 L/ha		100.97 -	96.15 -	100.7 -		3	99.3	96.2	101.0	100.7	2.7	
Jura EC 8 L/ha		100.71 -	99.73 -	100.53 -		3	100.3	99.7	100.7	100.5	0.5	
Ref. Dif. Flu. 0.6 L/ha					102.39 -	1	102.4	102.4	102.4	102.4	-	
Ref. Dif. Flu. 1.2 L/ha					101.7 -	1	101.7	101.7	101.7	101.7	-	
POST-EMERGENCE APPL.	KCP 6.4-42	KCP 6.4-46	KCP 6.4-50	KCP 6.4-67								
Crop Code	TTLWI	TTLWI	TTLWI	TTLWI	SUMMARY							
Part Rated	TKW	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.		
UNTREATED	40.99 -	35.7 -	46.05 -	39.01 -	4	40.4	35.7	46.1	40.0	4.3		
GLOB1912H 3.2 L/ha	97.19 -	100.28 -	100.32 -	99.91 -	4	99.4	97.2	100.3	100.1	1.5		
GLOB1912H 6.4 L/ha	93.89 -	100.28 -	100.6 -	101.57 -	4	99.1	93.9	101.6	100.4	3.5		
Ref. Pro. 5 L/ha	97.44 -				1	97.4	97.4	97.4	97.4	-		
Ref. Pro. 10 L/ha	96.87 -				1	96.9	96.9	96.9	96.9	-		
Jura EC 4 L/ha		100.14 -	98.66 -	100.08 -	3	99.6	98.7	100.1	100.1	0.8		
Jura EC 8 L/ha		100.14 -	101.71 -	101.39 -	3	101.1	100.1	101.7	101.4	0.8		

POST-EMERGENCE APPL. TRZAW TKW																									
Crop Code Part Rated		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	41.0	35.5	48.7	38.8	6.8	1	38.9	38.9	38.9	38.9	-	3	41.0	35.5	48.7	38.9	6.8	2	41.8	33.2	50.5	41.8	12.2
GLOB1912H	3.2 L/ha	3	100.4	99.2	101.4	100.5	1.1	1	102.7	102.7	102.7	102.7	-	3	100.8	99.2	102.7	100.5	1.7	2	100.1	98.5	101.8	100.1	2.3
GLOB1912H	6.4 L/ha	3	99.2	96.4	101.6	99.5	2.6	1	103.5	103.5	103.5	103.5	-	3	101.5	99.5	103.5	101.6	2.0	2	98.5	96.7	100.3	98.5	2.5
Ref. Pro.	5 L/ha	1	98.5	98.5	98.5	98.5	-																		
Ref. Pro.	10 L/ha	1	98.2	98.2	98.2	98.2	-																		
Jura EC	4 L/ha	2	99.8	99.2	100.4	99.8	0.8	1	104.5	104.5	104.5	104.5	-	3	101.4	99.2	104.5	100.4	2.8						
Jura EC	8 L/ha	2	99.1	97.9	100.3	99.1	1.7	1	105.3	105.3	105.3	105.3	-	3	101.1	97.9	105.3	100.3	3.8						
Ref. Dif. Flu.	0.6 L/ha																			2	98.9	96.2	101.5	98.9	3.7
Ref. Dif. Flu.	1.2 L/ha																			2	97.5	95.4	99.6	97.5	3.0
POST-EMERGENCE APPL. HORVW TKW																									
Crop Code Part Rated		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	43.7	36.7	49.7	44.8	6.6	1	42.6	42.6	42.6	42.6	-	3	43.0	36.7	49.7	42.6	6.5	1	54.7	54.7	54.7	54.7	-
GLOB1912H	3.2 L/ha	3	100.2	99.5	100.7	100.4	0.6	1	100.2	100.2	100.2	100.2	-	3	100.4	100.2	100.7	100.4	0.3	1	102.3	102.3	102.3	102.3	-
GLOB1912H	6.4 L/ha	3	98.4	92.8	101.7	100.8	4.9	1	100.1	100.1	100.1	100.1	-	3	97.9	92.8	100.8	100.1	4.4	1	101.1	101.1	101.1	101.1	-
Ref. Pro.	5 L/ha	1	100.0	100.0	100.0	100.0	-																		
Ref. Pro.	10 L/ha	1	100.6	100.6	100.6	100.6	-																		
Jura EC	4 L/ha	2	98.6	96.2	101.0	98.6	3.4	1	100.7	100.7	100.7	100.7	-	3	99.3	96.2	101.0	100.7	2.7						
Jura EC	8 L/ha	2	100.2	99.7	100.7	100.2	0.7	1	100.5	100.5	100.5	100.5	-	3	100.3	99.7	100.7	100.5	0.5						
Ref. Dif. Flu.	0.6 L/ha																			1	102.4	102.4	102.4	102.4	-
Ref. Dif. Flu.	1.2 L/ha																			1	101.7	101.7	101.7	101.7	-
POST-EMERGENCE APPL. TTLWI TKW																									
Crop Code Part Rated		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	40.9	35.7	46.1	41.0	5.2	1	39.0	39.0	39.0	39.0	-	3	40.3	35.7	46.1	39.0	5.3						
GLOB1912H	3.2 L/ha	3	99.3	97.2	100.3	100.3	1.8	1	99.9	99.9	99.9	99.9	-	3	100.2	99.9	100.3	100.3	0.2						
GLOB1912H	6.4 L/ha	3	98.3	93.9	100.6	100.3	3.8	1	101.6	101.6	101.6	101.6	-	3	100.8	100.3	101.6	100.6	0.7						
Ref. Pro.	5 L/ha	1	97.4	97.4	97.4	97.4	-																		
Ref. Pro.	10 L/ha	1	96.9	96.9	96.9	96.9	-																		
Jura EC	4 L/ha	2	99.4	98.7	100.1	99.4	1.0	1	100.1	100.1	100.1	100.1	-	3	99.6	98.7	100.1	100.1	0.8						
Jura EC	8 L/ha	2	100.9	100.1	101.7	100.9	1.1	1	101.4	101.4	101.4	101.4	-	3	101.1	100.1	101.7	101.4	0.8						

POST-EMERGENCE APPL.	KCP 6.4-40	KCP 6.4-41	KCP 6.4-71	KCP 6.4-72	KCP 6.4-74						
Crop Code	TRZDW	TRZDW	TRZDW	TRZDW	TRZDW	SUMMARY					
Part Rated	TKW	TKW	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.
UNTREATED	39.58 -	44.44 -	40.8 -	42.45 -	41.88 -	5	41.8	39.6	44.4	41.9	1.8
GLOB1912H 3.2 L/ha	105.38 -	99.64 -	103.49 -	100.66 -	96.77 -	5	101.2	96.8	105.4	100.7	3.4
GLOB1912H 6.4 L/ha	98.77 -	97.15 -	105.42 -	99.45 -	94.12 -	5	99.0	94.1	105.4	98.8	4.1
Ref. Pro. 5 L/ha	101.85 -	99.67 -				2	100.8	99.7	101.9	100.8	1.5
Ref. Pro. 10 L/ha	98.71 -	98.19 -				2	98.5	98.2	98.7	98.5	0.4
Ref. Dif. Flu. 0.6 L/ha			100.11 -	101.32 -	95.58 -	3	99.0	95.6	101.3	100.1	3.0
Ref. Dif. Flu. 1.2 L/ha			103.6 -	99.88 -	98.89 -	3	100.8	98.9	103.6	99.9	2.5
POST-EMERGENCE APPL.	KCP 6.4-43	KCP 6.4-47	KCP 6.4-51	KCP 6.4-68							
Crop Code	SECCW	SECCW	SECCW	SECCW	SUMMARY						
Part Rated	TKW	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.	
UNTREATED	45.5 -	36.83 -	29.82 -	32.04 -	4	36.0	29.8	45.5	34.4	6.9	
GLOB1912H 3.2 L/ha	102.68 -	100.21 -	104.52 -	99.46 -	4	101.7	99.5	104.5	101.4	2.3	
GLOB1912H 6.4 L/ha	99.57 -	100 -	106.5 -	100.79 -	4	101.7	99.6	106.5	100.4	3.2	
Ref. Pro. 3 L/ha	111.8 -				1	111.8	111.8	111.8	111.8	-	
Ref. Pro. 6 L/ha	103 -				1	103.0	103.0	103.0	103.0	-	
Jura EC 4 L/ha		98.78 -	107.18 -	98.86 -	3	101.6	98.8	107.2	98.9	4.8	
Jura EC 8 L/ha		99.94 -	108.01 -	99.33 -	3	102.4	99.3	108.0	99.9	4.8	
POST-EMERGENCE APPL.	KCP 6.4-79	KCP 6.4-80	KCP 6.4-81	KCP 6.4-82							
Crop Code	TRZSP	TRZSP	TRZSP	TRZSP	SUMMARY						
Part Rated	TKW	TKW	TKW	TKW	n	Mean	Min	Max	Med.	Stdev.	
UNTREATED	44.81 a	45.45 -	44.45 a	139.83 a	4	68.6	44.5	139.8	45.1	47.5	
GLOB1912H 3.2 L/ha	100.1 a	100 -	95.85 a	101.71 a	4	99.4	95.9	101.7	100.1	2.5	
GLOB1912H 6.4 L/ha	98.57 a	100 -	95.66 a	106.36 a	4	100.1	95.7	106.4	99.3	4.5	
Ref. Dif. Flu. 0.6 L/ha	99.47 a		95.53 a	107.21 a	3	100.7	95.5	107.2	99.5	5.9	
Ref. Dif. Flu. 1.2 L/ha	98.29 a		96.73 a	105.62 a	3	100.2	96.7	105.6	98.3	4.7	
Difflanil 500 SC 0.4 L/ha		99.89 -			1	99.9	99.9	99.9	99.9	-	
Difflanil 500 SC 0.8 L/ha		100 -			1	100.0	100.0	100.0	100.0	-	

POST-EMERGENCE APPL. TRZDW TKW																				
Crop Code		SUMMARY MAR												SUMMARY MED						
Part Rated		n	Mean	Min	Max	Med.	Stdev.								n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	42.0	39.6	44.4	41.9	2.4								2	41.6	40.8	42.5	41.6	1.2
GLOB1912H	3.2 L/ha	3	100.6	96.8	105.4	99.6	4.4								2	102.1	100.7	103.5	102.1	2.0
GLOB1912H	6.4 L/ha	3	96.7	94.1	98.8	97.2	2.4								2	102.4	99.5	105.4	102.4	4.2
Ref. Pro.	5 L/ha	2	100.8	99.7	101.9	100.8	1.5													
Ref. Pro.	10 L/ha	2	98.5	98.2	98.7	98.5	0.4													
Ref. Dif. Flu.	0.6 L/ha	1	95.6	95.6	95.6	95.6	-								2	100.7	100.1	101.3	100.7	0.9
Ref. Dif. Flu.	1.2 L/ha	1	98.9	98.9	98.9	98.9	-								2	101.7	99.9	103.6	101.7	2.6
POST-EMERGENCE APPL. SECCW TKW																				
Crop Code		SUMMARY MAR					SUMMARY PL					SUMMARY PL + CZ/DE								
Part Rated		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	
UNTREATED		3	37.4	29.8	45.5	36.8	7.9	1	32.0	32.0	32.0	32.0	-	3	32.9	29.8	36.8	32.0	3.6	
GLOB1912H	3.2 L/ha	3	102.5	100.2	104.5	102.7	2.2	1	99.5	99.5	99.5	99.5	-	3	101.4	99.5	104.5	100.2	2.7	
GLOB1912H	6.4 L/ha	3	102.0	99.6	106.5	100.0	3.9	1	100.8	100.8	100.8	100.8	-	3	102.4	100.0	106.5	100.8	3.5	
Ref. Pro.	3 L/ha	1	111.8	111.8	111.8	111.8	-													
Ref. Pro.	6 L/ha	1	103.0	103.0	103.0	103.0	-													
Jura EC	4 L/ha	2	103.0	98.8	107.2	103.0	5.9	1	98.9	98.9	98.9	98.9	-	3	101.6	98.8	107.2	98.9	4.8	
Jura EC	8 L/ha	2	104.0	99.9	108.0	104.0	5.7	1	99.3	99.3	99.3	99.3	-	3	102.4	99.3	108.0	99.9	4.8	
POST-EMERGENCE APPL. TRZSP TKW																				
Crop Code		SUMMARY MAR												SUMMARY PL + CZ/DE						
Part Rated		n	Mean	Min	Max	Med.	Stdev.								n	Mean	Min	Max	Med.	Stdev.
UNTREATED		4	68.6	44.5	139.8	45.1	47.5								2	45.0	44.5	45.5	45.0	0.7
GLOB1912H	3.2 L/ha	4	99.4	95.9	101.7	100.1	2.5								2	97.9	95.9	100.0	97.9	2.9
GLOB1912H	6.4 L/ha	4	100.1	95.7	106.4	99.3	4.5								2	97.8	95.7	100.0	97.8	3.1
Ref. Dif. Flu.	0.6 L/ha	3	100.7	95.5	107.2	99.5	5.9								1	95.5	95.5	95.5	95.5	-
Ref. Dif. Flu.	1.2 L/ha	3	100.2	96.7	105.6	98.3	4.7								1	96.7	96.7	96.7	96.7	-
Diflanil 500 SC	0.4 L/ha	1	99.9	99.9	99.9	99.9	-								1	99.9	99.9	99.9	99.9	-
Diflanil 500 SC	0.8 L/ha	1	100.0	100.0	100.0	100.0	-								1	100.0	100.0	100.0	100.0	-

**Table 3.4-34 Moisture content (%) as %UNCK**

POST-EMERGENCE APPL.		KCP 6.4-39	KCP 6.4-45	KCP 6.4-49	KCP 6.4-66	KCP 6.4-69	KCP 6.4-70	SUMMARY					
Crop Code	Part Rated	TRZAW MOICON	TRZAW MOICON	TRZAW MOICON	TRZAW MOICON	TRZAW MOICON	TRZAW MOICON	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		12.63 -	15.26 -	12.49 -	13.41 -	14.57 -	14.65 -	6	13.8	12.5	15.3	14.0	1.2
GLOB1912H	3.2 L/ha	98.96 -	100.56 -	99.9 -	103.31 -	98.64 -	96.19 -	6	99.6	96.2	103.3	99.4	2.4
GLOB1912H	6.4 L/ha	99.84 -	100.48 -	99.71 -	103.48 -	99.11 -	99.61 -	6	100.4	99.1	103.5	99.8	1.6
Ref. Pro.	5 L/ha	99.89 -						1	99.9	99.9	99.9	99.9	-
Ref. Pro.	10 L/ha	100.51 -						1	100.5	100.5	100.5	100.5	-
Jura EC	4 L/ha		100.02 -	99.79 -	102.31 -			3	100.7	99.8	102.3	100.0	1.4
Jura EC	8 L/ha		99.53 -	98.48 -	100.55 -			3	99.5	98.5	100.6	99.5	1.0
Ref. Dif. Flu.	0.6 L/ha					100.51 -	95.13 -	2	97.8	95.1	100.5	97.8	3.8
Ref. Dif. Flu.	1.2 L/ha					99 -	94.35 -	2	96.7	94.4	99.0	96.7	3.3
POST-EMERGENCE APPL.		KCP 6.4-38	KCP 6.4-44	KCP 6.4-48	KCP 6.4-65	KCP 6.4-73	SUMMARY						
Crop Code	Part Rated	HORVW MOICON	HORVW MOICON	HORVW MOICON	HORVW MOICON	HORVW MOICON	n	Mean	Min	Max	Med.	Stdev.	
UNTREATED		11.37 -	14.55 -	12.78 -	13.3 -	11.85 -	5	12.8	11.4	14.6	12.8	1.3	
GLOB1912H	3.2 L/ha	99.64 -	100.55 -	99.37 -	100.02 -	98.23 -	5	99.6	98.2	100.6	99.6	0.9	
GLOB1912H	6.4 L/ha	98.79 -	100.71 -	100.35 -	100.02 -	100.84 -	5	100.1	98.8	100.8	100.4	0.8	
Ref. Pro.	5 L/ha	100.6 -					1	100.6	100.6	100.6	100.6	-	
Ref. Pro.	10 L/ha	99.77 -					1	99.8	99.8	99.8	99.8	-	
Jura EC	4 L/ha		101.06 -	97.74 -	100.21 -		3	99.7	97.7	101.1	100.2	1.7	
Jura EC	8 L/ha		100.01 -	99.59 -	99.84 -		3	99.8	99.6	100.0	99.8	0.2	
Ref. Dif. Flu.	0.6 L/ha					98.31 -	1	98.3	98.3	98.3	98.3	-	
Ref. Dif. Flu.	1.2 L/ha					100.16 -	1	100.2	100.2	100.2	100.2	-	
POST-EMERGENCE APPL.		KCP 6.4-42	KCP 6.4-46	KCP 6.4-50	KCP 6.4-67	SUMMARY							
Crop Code	Part Rated	TTLWI MOICON	TTLWI MOICON	TTLWI MOICON	TTLWI MOICON	n	Mean	Min	Max	Med.	Stdev.		
UNTREATED		18.12 -	14.25 b	17.8 -	15.45 -	4	16.4	14.3	18.1	16.6	1.9		
GLOB1912H	3.2 L/ha	99.65 -	100.18 ab	100.14 -	100.85 -	4	100.2	99.7	100.9	100.2	0.5		
GLOB1912H	6.4 L/ha	98.59 -	100.71 a	100.14 -	101.27 -	4	100.2	98.6	101.3	100.4	1.2		
Ref. Pro.	5 L/ha	100.36 -				1	100.4	100.4	100.4	100.4	-		
Ref. Pro.	10 L/ha	98.37 -				1	98.4	98.4	98.4	98.4	-		
Jura EC	4 L/ha		100.53 ab	99.02 -	101.56 -	3	100.4	99.0	101.6	100.5	1.3		
Jura EC	8 L/ha		100.71 a	100 -	102.15 -	3	101.0	100.0	102.2	100.7	1.1		

POST-EMERGENCE APPL. TRZAW MOICON																									
Crop Code Part Rated		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	13.5	12.5	15.3	12.6	1.6	1	13.4	13.4	13.4	13.4	-	3	13.7	12.5	15.3	13.4	1.4	2	14.6	14.6	14.7	14.6	0.1
GLOB1912H	3.2 L/ha	3	99.8	99.0	100.6	99.9	0.8	1	103.3	103.3	103.3	103.3	-	3	101.3	99.9	103.3	100.6	1.8	2	97.4	96.2	98.6	97.4	1.7
GLOB1912H	6.4 L/ha	3	100.0	99.7	100.5	99.8	0.4	1	103.5	103.5	103.5	103.5	-	3	101.2	99.7	103.5	100.5	2.0	2	99.4	99.1	99.6	99.4	0.4
Ref. Pro.	5 L/ha	1	99.9	99.9	99.9	99.9	-																		
Ref. Pro.	10 L/ha	1	100.5	100.5	100.5	100.5	-																		
Jura EC	4 L/ha	2	99.9	99.8	100.0	99.9	0.2	1	102.3	102.3	102.3	102.3	-	3	100.7	99.8	102.3	100.0	1.4						
Jura EC	8 L/ha	2	99.0	98.5	99.5	99.0	0.7	1	100.6	100.6	100.6	100.6	-	3	99.5	98.5	100.6	99.5	1.0						
Ref. Dif. Flu.	0.6 L/ha																			2	97.8	95.1	100.5	97.8	3.8
Ref. Dif. Flu.	1.2 L/ha																			2	96.7	94.4	99.0	96.7	3.3
POST-EMERGENCE APPL. HORVW MOICON																									
Crop Code Part Rated		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	12.9	11.4	14.6	12.8	1.6	1	13.3	13.3	13.3	13.3	-	3	13.5	12.8	14.6	13.3	0.9	1	11.9	11.9	11.9	11.9	-
GLOB1912H	3.2 L/ha	3	99.9	99.4	100.6	99.6	0.6	1	100.0	100.0	100.0	100.0	-	3	100.0	99.4	100.6	100.0	0.6	1	98.2	98.2	98.2	98.2	-
GLOB1912H	6.4 L/ha	3	100.0	98.8	100.7	100.4	1.0	1	100.0	100.0	100.0	100.0	-	3	100.4	100.0	100.7	100.4	0.3	1	100.8	100.8	100.8	100.8	-
Ref. Pro.	5 L/ha	1	100.6	100.6	100.6	100.6	-																		
Ref. Pro.	10 L/ha	1	99.8	99.8	99.8	99.8	-																		
Jura EC	4 L/ha	2	99.4	97.7	101.1	99.4	2.3	1	100.2	100.2	100.2	100.2	-	3	99.7	97.7	101.1	100.2	1.7						
Jura EC	8 L/ha	2	99.8	99.6	100.0	99.8	0.3	1	99.8	99.8	99.8	99.8	-	3	99.8	99.6	100.0	99.8	0.2						
Ref. Dif. Flu.	0.6 L/ha																			1	98.3	98.3	98.3	98.3	-
Ref. Dif. Flu.	1.2 L/ha																			1	100.2	100.2	100.2	100.2	-
POST-EMERGENCE APPL. TTLWI MOICON																									
Crop Code Part Rated		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
		n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	16.7	14.3	18.1	17.8	2.1	1	15.5	15.5	15.5	15.5	-	3	15.8	14.3	17.8	15.5	1.8						
GLOB1912H	3.2 L/ha	3	100.0	99.7	100.2	100.1	0.3	1	100.9	100.9	100.9	100.9	-	3	100.4	100.1	100.9	100.2	0.4						
GLOB1912H	6.4 L/ha	3	99.8	98.6	100.7	100.1	1.1	1	101.3	101.3	101.3	101.3	-	3	100.7	100.1	101.3	100.7	0.6						
Ref. Pro.	5 L/ha	1	100.4	100.4	100.4	100.4	-																		
Ref. Pro.	10 L/ha	1	98.4	98.4	98.4	98.4	-																		
Jura EC	4 L/ha	2	99.8	99.0	100.5	99.8	1.1	1	101.6	101.6	101.6	101.6	-	3	100.4	99.0	101.6	100.5	1.3						
Jura EC	8 L/ha	2	100.4	100.0	100.7	100.4	0.5	1	102.2	102.2	102.2	102.2	-	3	101.0	100.0	102.2	100.7	1.1						

POST-EMERGENCE APPL.	KCP 6.4-40	KCP 6.4-41	KCP 6.4-71	KCP 6.4-72	KCP 6.4-74						
Crop Code	TRZDW	TRZDW	TRZDW	TRZDW	TRZDW	SUMMARY					
Part Rated	MOICON	MOICON	MOICON	MOICON	MOICON	n	Mean	Min	Max	Med.	Stdev.
UNTREATED	15.33 -	16.58 -	13.04 -	13.28 -	10.5 -	5	13.7	10.5	16.6	13.3	2.3
GLOB1912H 3.2 L/ha	98.9 -	107.37 -	101.81 -	99.40 -	101.22 -	5	101.7	98.9	107.4	101.2	3.4
GLOB1912H 6.4 L/ha	98.4 -	106.23 -	101.28 -	99.62 -	100.01 -	5	101.1	98.4	106.2	100.0	3.0
Ref. Pro. 5 L/ha	101.55 -	105.98 -				2	103.8	101.6	106.0	103.8	3.1
Ref. Pro. 10 L/ha	97.41 -	99.02 -				2	98.2	97.4	99.0	98.2	1.1
Ref. Dif. Flu. 0.6 L/ha			103.16 -	96.76 -	99.54 -	3	99.8	96.8	103.2	99.5	3.2
Ref. Dif. Flu. 1.2 L/ha			98.75 -	103.16 -	100.73 -	3	100.9	98.8	103.2	100.7	2.2
POST-EMERGENCE APPL.	KCP 6.4-43	KCP 6.4-47	KCP 6.4-51	KCP 6.4-68							
Crop Code	SECCW	SECCW	SECCW	SECCW	SUMMARY						
Part Rated	MOICON	MOICON	MOICON	MOICON	n	Mean	Min	Max	Med.	Stdev.	
UNTREATED	10.24 -	9.55 -	12.4 -	15.65 -	4	12.0	9.6	15.7	11.3	2.7	
GLOB1912H 3.2 L/ha	94.1 -	99.07 -	100.81 -	100.4 -	4	98.6	94.1	100.8	99.7	3.1	
GLOB1912H 6.4 L/ha	101.18 -	99.91 -	100.61 -	102.15 -	4	101.0	99.9	102.2	100.9	0.9	
Ref. Pro. 3 L/ha	94.83 -				1	94.8	94.8	94.8	94.8	-	
Ref. Pro. 6 L/ha	115.58 -				1	115.6	115.6	115.6	115.6	-	
Jura EC 4 L/ha		102.49 -	100 -	103.54 -	3	102.0	100.0	103.5	102.5	1.8	
Jura EC 8 L/ha		100.72 -	99 -	101.45 -	3	100.4	99.0	101.5	100.7	1.3	
POST-EMERGENCE APPL.	KCP 6.4-79	KCP 6.4-80	KCP 6.4-81	KCP 6.4-82							
Crop Code	TRZSP	TRZSP	TRZSP	TRZSP	SUMMARY						
Part Rated	MOICON	MOICON	MOICON	MOICON	n	Mean	Min	Max	Med.	Stdev.	
UNTREATED	12.23 a	10.53 c	13.58 a	12.88 a	4	12.3	10.5	13.6	12.6	1.3	
GLOB1912H 3.2 L/ha	99.8 a	107.89 a	100.23 a	98.1 a	4	101.5	98.1	107.9	100.0	4.4	
GLOB1912H 6.4 L/ha	100.62 a	106.76 ab	100.27 a	99.3 a	4	101.7	99.3	106.8	100.4	3.4	
Ref. Dif. Flu. 0.6 L/ha	100.21 a		101.03 a	94.57 a	3	98.6	94.6	101.0	100.2	3.5	
Ref. Dif. Flu. 1.2 L/ha	99.39 a		98.76 a	99.03 a	3	99.1	98.8	99.4	99.0	0.3	
Difflaniil 500 SC 0.4 L/ha		104.14 abc			1	104.1	104.1	104.1	104.1	-	
Difflaniil 500 SC 0.8 L/ha		103.88 abc			1	103.9	103.9	103.9	103.9	-	

POST-EMERGENCE APPL. TRZDW MOICON		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE						SUMMARY MED					
Crop Code	Part Rated	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	14.1	10.5	16.6	15.3	3.2													2	13.2	13.0	13.3	13.2	0.2
GLOB1912H	3.2 L/ha	3	102.5	98.9	107.4	101.2	4.4													2	100.6	99.4	101.8	100.6	1.7
GLOB1912H	6.4 L/ha	3	101.5	98.4	106.2	100.0	4.1													2	100.5	99.6	101.3	100.5	1.2
Ref. Pro.	5 L/ha	2	103.8	101.6	106.0	103.8	3.1																		
Ref. Pro.	10 L/ha	2	98.2	97.4	99.0	98.2	1.1																		
Ref. Dif. Flu.	0.6 L/ha	1	99.5	99.5	99.5	99.5	-													2	100.0	96.8	103.2	100.0	4.5
Ref. Dif. Flu.	1.2 L/ha	1	100.7	100.7	100.7	100.7	-													2	101.0	98.8	103.2	101.0	3.1
POST-EMERGENCE APPL. SECCW MOICON		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE											
Crop Code	Part Rated	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		3	10.7	9.6	12.4	10.2	1.5	1	15.7	15.7	15.7	15.7	-	3	12.5	9.6	15.7	12.4	3.1						
GLOB1912H	3.2 L/ha	3	98.0	94.1	100.8	99.1	3.5	1	100.4	100.4	100.4	100.4	-	3	100.1	99.1	100.8	100.4	0.9						
GLOB1912H	6.4 L/ha	3	100.6	99.9	101.2	100.6	0.6	1	102.2	102.2	102.2	102.2	-	3	100.9	99.9	102.2	100.6	1.1						
Ref. Pro.	3 L/ha	1	94.8	94.8	94.8	94.8	-																		
Ref. Pro.	6 L/ha	1	115.6	115.6	115.6	115.6	-																		
Jura EC	4 L/ha	2	101.2	100.0	102.5	101.2	1.8	1	103.5	103.5	103.5	103.5	-	3	102.0	100.0	103.5	102.5	1.8						
Jura EC	8 L/ha	2	99.9	99.0	100.7	99.9	1.2	1	101.5	101.5	101.5	101.5	-	3	100.4	99.0	101.5	100.7	1.3						
POST-EMERGENCE APPL. TRZSP MOICON		SUMMARY MAR						SUMMARY PL						SUMMARY PL + CZ/DE											
Crop Code	Part Rated	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.	n	Mean	Min	Max	Med.	Stdev.
UNTREATED		4	12.3	10.5	13.6	12.6	1.3							2	12.1	10.5	13.6	12.1	2.2						
GLOB1912H	3.2 L/ha	4	101.5	98.1	107.9	100.0	4.4							2	104.1	100.2	107.9	104.1	5.4						
GLOB1912H	6.4 L/ha	4	101.7	99.3	106.8	100.4	3.4							2	103.5	100.3	106.8	103.5	4.6						
Ref. Dif. Flu.	0.6 L/ha	3	98.6	94.6	101.0	100.2	3.5							1	101.0	101.0	101.0	101.0	-						
Ref. Dif. Flu.	1.2 L/ha	3	99.1	98.8	99.4	99.0	0.3							1	98.8	98.8	98.8	98.8	-						
Diflanil 500 SC	0.4 L/ha	1	104.1	104.1	104.1	104.1	-							1	104.1	104.1	104.1	104.1	-						
Diflanil 500 SC	0.8 L/ha	1	103.9	103.9	103.9	103.9	-							1	103.9	103.9	103.9	103.9	-						

**Table 3.4-35 Hectolitre Weight (kg) as %UNCK**

POST-EMERGENCE APPL.		KCP 6.4-39									
Crop Code	TRZAW										
Part Rated	HLW										
UNTREATED		68.53	-								
GLOB1912H	3.2 L/ha	99.53	-								
GLOB1912H	6.4 L/ha	99.93	-								
Ref. Pro.	5 L/ha	100.69	-								
Ref. Pro.	10 L/ha	100.34	-								
POST-EMERGENCE APPL.		KCP 6.4-67									
Crop Code	TTLWI										
Part Rated	HLW										
UNTREATED		70.13	-								
GLOB1912H	3.2 L/ha	99.46	-								
GLOB1912H	6.4 L/ha	100.04	-								
Jura EC	4 L/ha	97.84	-								
Jura EC	8 L/ha	100.57	-								
POST-EMERGENCE APPL.		KCP 6.4-71									
Crop Code	TRZDW										
Part Rated	HLW										
UNTREATED		74.17	-								
GLOB1912H	3.2 L/ha	101.21	-								
GLOB1912H	6.4 L/ha	98.64	-								
Ref. Dif. Flu.	0.6 L/ha	98.85	-								
Ref. Dif. Flu.	1.2 L/ha	100.00	-								
POST-EMERGENCE APPL.		KCP 6.4-43		KCP 6.4-68							
Crop Code	SECCW	SECCW		SUMMARY							
Part Rated	HLW	HLW	HLW	n	Mean	Min	Max	Med.	Stdev.		
UNTREATED		73.68	- 72.55	2	73.1	72.6	73.7	73.1	0.8		
GLOB1912H	3.2 L/ha	101.62	- 98.81	2	100.2	98.8	101.6	100.2	2.0		
GLOB1912H	6.4 L/ha	100.21	- 97.95	2	99.1	98.0	100.2	99.1	1.6		
Ref. Pro.	3 L/ha	101.17	-	1	101.2	101.2	101.2	101.2	-		
Ref. Pro.	6 L/ha	101.72	-	1	101.7	101.7	101.7	101.7	-		
Jura EC	4 L/ha		97.16	1	97.2	97.2	97.2	97.2	-		
Jura EC	8 L/ha		100.4	1	100.4	100.4	100.4	100.4	-		

**Conclusion**

The results of the crop safety trials presented above demonstrate that GLOB1912H does not cause any negative effects on yield quality at the maximum requested dose rate of 3.2 L/ha.

Comments of zRMS:	<p>The presented data correspond with the requirements of the EPPO Standards PP 1/181, PP 1/214 and PP 1/223. The applicant showed that in selectivity trials no negative effects of GLOB1912H on quality parameters could be determined such as:</p> <ul style="list-style-type: none"> <li>≥ number of tubers, % of tubers per weight class, the weight of malformed tubers (kg), starch content (%) in potatoes</li> <li>≥ moisture content (%), oil content (%), dry matter content (%) in sunflowers</li> <li>≥ Thousand Kernel Weight (g), Moisture content (%), Hectolitre Weight (kg) in winter cereals.</li> </ul> <p>Overall it was demonstrated that the application of GLOB1912H should be considered as safe in potatoes, sunflowers and winter cereals since no significant negative effects on yield quality are to be expected if label recommendations were obeyed.</p>
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